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Roofing Systems

COMPANY

GAF

1 Campus Dr
Parsippany, NJ 07054 United States

R1306

"RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" may be utilized as an alternate to Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" base sheets in any of the following Classifications.

Torch applied "RUBEROID® HW" SBS roofing membranes may be used as alternates to "RUBEROID® Mop" SBS roofing membranes in any applicable Classification as follows:

- A. "RUBEROID® HW Smooth" may be used as an alternate to "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5"
- B. "RUBEROID® HW 25 Smooth" may be used as an alternate to "RUBEROID® 20 Smooth"
- C. "RUBEROID® HW Granule" may be used as an alternate to "RUBEROID® Mop Granule"
- D. "RUBEROID® HW Plus Granule" may be used as an alternate to "RUBEROID® Mop Plus Granule"
- E. "Ruberoid® HW Granule FR" may be used as an alternate to "Ruberoid® Mop Granule FR"
- F. "RUBEROID® HW Plus Granule FR" may be used as an alternate to "RUBEROID® Mop Plus Granule FR"
- G. "RUBEROID® EnergyCap HW Plus Granule FR" may be used as an alternate to "RUBEROID® EnergyCap Mop Plus Granule FR"

Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) may be used in any existing noncombustible roof deck Classification. When this is done, the resulting roofing system is acceptable for use over minimum 15/32-in. thick combustible roof decks. However, the butt joints in the gypsum board and

Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" are to offset a minimum of 6-in. with the butt joints in the roof deck. If polystyrene is part of the roof system, it must be placed below the overlayment board. Minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) and "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) and "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) are limited to a maximum 3:12 inline when used over a combustible roof deck in a system with any UL Classified insulation except polystyrene.

Multiple plies of Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" may be adhered to Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" in hot roofing asphalt.

"GAFLAS® FlexPly™ 6 5L" and "GAFLAS® FlexPly™ 6" may be used interchangeably in any roof covering system listed below.

"EnergyGuard™ Ultra" is an acceptable alternate to "EnergyGuard™" in any applicable Classification.

"GAFLAS® Stratavent® Nailable Venting Base Sheet" may be mechanically fastened or fully adhered with hot roofing asphalt over noncombustible roof decks and as a recover over existing roof covering systems.

"EnergyGuard™ Perlite Insulation" may be utilized as a cover board over "EnergyGuard™" in any of the following systems.

Unless otherwise indicated, the roof insulation is mechanically fastened, fully adhered with hot roofing asphalt or UL Classified urethane insulation adhesive. Polystyrene referenced in any of the following Classifications include insulation.

Unless otherwise indicated, all insulations may be adhered with any UL Classified Insulation Adhesive per the manufacturer's installation instructions (excluding "LRF Adhesive O") in any applicable non-combustible roof deck Classifications.

"EnergyGuard™ Tapered" is an acceptable alternate to "EnergyGuard™" in any applicable Classification.

"EnergyGuard™ Ultra Tapered" is an acceptable alternate to "EnergyGuard™ Ultra" in any applicable Classification.

"EnergyGuard™ NH Tapered" is an acceptable alternate to "EnergyGuard™ NH" in any applicable Classification.

"EnergyGuard™ NH Ultra Tapered" is an acceptable alternate to "EnergyGuard™ NH Ultra" in any applicable Classification.

"EnergyGuard™ Barrier Tapered" is an acceptable alternate to "EnergyGuard™ Barrier".

"EnergyGuard™ NH Barrier Tapered" is an acceptable alternate to "EnergyGuard™ NH Barrier".

Minimum ½-in. thick "EnergyGuard™ Barrier" is an acceptable alternate to "EnergyGuard™ Ultra" in any applicable Classification.

Minimum ½-in. thick "EnergyGuard™ NH Barrier" is an acceptable alternate to "EnergyGuard™ NH Ultra" in any applicable Classification.

"EnergyGuard™ RA Tapered" may be substituted for "EnergyGuard™ RA" in any of the systems listed below that utilize "EnergyGuard™ RA". "EnergyGuard™ RA" may be perforated on one side for use as the contact side for BUR or modified bitumen membrane.

"EnergyGuard™ RA Ultra Tapered" may be substituted for "EnergyGuard™ RA Ultra" in any of the systems listed below.

"EnergyGuard™ RA Ultra" may be substituted for "EnergyGuard™ RA" polyisocyanurate insulation in any of the following Classifications.

For Combustible Roof Decks – Class A: A minimum 3 in. layer or a minimum two layers of 1.5 in. of "EnergyGuard™ RA Ultra" is placed directly over a combustible deck and is covered with any UL Classified roofing membrane used in any UL Class A roofing assembly to achieve a Class A fire Classification. As an alternative, any UL Classified insulation (except expanded or extruded polystyrene), any combination, any thickness, may be used below the 3 in. minimum total thickness of "EnergyGuard™ RA Ultra". The insulation may be loosely laid or attached with fasteners and plates, hot roofing asphalt or cold adhesive. A vapor barrier (non-UL classified) may also be used below the insulation. All insulation joints must be staggered a minimum of 6 in. from the deck joints or from the insulation joints directly below. The maximum incline shall be in accordance with the Classification established for the membrane/insulation roofing assembly, however the incline cannot exceed ½:12.

ASPHALT FELT SYSTEMS WITH HOT ROOFING ASPHALT

Type G2 asphalt glass mat base sheet ("GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet") is a suitable alternate for Type G1 asphalt glass fiber ply sheet ("GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6") in the Class A, B or C roof covering systems indicated below.

The roof deck may first be covered with one ply Type G2 asphalt saturated glass mat base sheet "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet". Perforated base sheets to be loose laid or fully adhered with hot roofing asphalt and nailable base sheets are to be mechanically fastened granule side down.

As an option Type G2 asphalt glass mat base sheet ("GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet") may be substituted for Type G1 asphalt glass fiber ply sheet ("GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6") as the nailed base ply in the following systems.

Bottom ply or base sheet may be fully adhered with hot roofing asphalt or mechanically fastened.

Unless otherwise indicated, all insulations may be fully adhered with hot roofing asphalt or mechanically fastened.

"GAFGLAS® Flashing" or "RUBEROID®" may be used for flashing in any of the Class A, B or C systems listed below.

When "perlite" is referenced, this includes any UL Classified perlite insulation.

Crushed stones or slag are suitable alternates for gravel in any of the Class A, B or C systems listed.

Structural cement fiber building units are considered suitable to be included as a deck in the following Class A, B or C systems listed over C-15/32 or NC.

The use of gypsum board under any of the following Class A, B or C systems does not adversely affect the rating. The use of minimum ½-in. thick gypsum board is an acceptable alternate for minimum insulation over C-15/32 thick roof decks.

The use of polystyrene insulation board between minimum ¾-in. thick perlite board and deck with rosin paper (perlite/rosin paper/polystyrene/perlite) is a suitable alternate for polyisocyanurate board in the following Class A, B or C systems.

Trumbull "Perma Mop" may be utilized with any of the following "Asphalt Felt Systems with Hot Roofing Asphalt".

"GAFGLAS® #80 Ultima™ Base Sheet" may be used in any of the following systems.

"GAFTEMP Permalite Recover Board" may be used in lieu of any perlite insulation in any of the following NC Classifications.

Unless otherwise indicated, any of the "Asphalt Felt Systems with Hot Roofing Asphalt" may be surfaced with "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft².

Class A, B and C

Hot roofing asphalt, for use with glass felts or modified bitumen membranes.

Torch applied "RUBEROID® Heat Weld" SBS roofing membranes may be used as alternates to "RUBEROID® Mop" SBS roofing membranes in any applicable Classification.

"RUBEROID® HW 25 Smooth" may be used as an alternate to "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Class A

1. **Deck:** C-15/32

Incline: 3

Barrier Board (Optional): — One or more layers of minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard", "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Primer (Optional): — Asphalt primer complying with ASTM D41/D41M, applied at a rate of 0.75 - 1.0 gal./100-ft.², GAF SA Primer applied at 0.7 - 1.0 gal./100-ft.², "EverGuard® TPO Quick Spray Adhesive LV50" spray applied in full coverage to the barrier board (approximately 2000-ft.² of installed coverage per 27-lb. canister) or "EverGuard® TPO Quick Spray Adhesive" spray applied in full coverage to the barrier board (approximately 2000-ft.² of installed coverage per 30-lb. canister).

Vapor Barrier (Optional): — One or more plies "GAF® SA Vapor Retarder", "GAF SA Vapor Retarder XL" or "GAF SA Vapor Retarder XL40", self-adhered.

Insulation: — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Ply Sheet: — Three or more plies Type G1 "GAFGLAS® Ply 4", "Tri-Ply® Ply 4", "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Surfacing: — Roofing gravel applied at a minimum of 400-lbs./100-ft.² and embedded into a flood coat of hot roofing asphalt applied at a minimum of 60-lbs./100-ft.².

2. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet (Optional): — One ply "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Ply Sheet: — Three or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

3. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, 2-in. maximum.

Base Sheet (Optional): — One ply "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Ply Sheet: — Two or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

4. Deck: C-15/32

Incline: 1

Slip Sheet (Optional): — Red rosin paper, nailed to deck.

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

Coating (Optional): — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate™ MB Plus Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

5. Deck: NC

Incline: 3

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

6. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — One or more layers perlite or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or phenolic, 1-in. thick minimum (offset a minimum of 6-in. from plywood deck joints).

Base Sheet (Optional): — One ply "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Base Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Ply Flex 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

7. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

8. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum ¼-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum ¼-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber or polyisocyanurate or wood fiber or mechanically fastened, any thickness.

Base Sheet: — One or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

Coating: — "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

9. Deck: C-15/32

Incline: 1

Barrier Board (Optional): — One or more layers minimum ¼-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet (Optional): — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Ply Sheet: — Three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

10. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, 2-in. maximum.

Base Sheet (Optional): — One ply "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Ply Sheet: — Two or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

11. Deck: NC

Incline: 2

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

12. Deck: C-15/32

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — One or more layers perlite or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or phenolic, 1-in. minimum (insulation joints offset a minimum of 6-in. from plywood deck joints).

Base Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

13. Deck: C-15/32

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

14. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite any thickness mechanically or adhered with hot roofing asphalt.

Base Sheet: — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6" or "Tri-Ply® Ultra-Flexible Ply 6" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", "Ruberoid® 20 Plus Smooth" or "RUBEROID® 20 Smooth", fully adhered with hot roofing asphalt.

Membrane: — Type G3 "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® Mineral Surfaced Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

15. Deck: C-15/32

Incline: 1

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet (Optional): — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", mechanically fastened.

Ply Sheet: — One or two plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

Coating (Optional): — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate MB Plus Roof Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

16. Deck: NC

Incline: 1/2

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet (Optional): — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", mechanically fastened.

Ply Sheet: — One or two plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® 4" or "GAFLAS® Flex-Ply™ 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

Coating: — "EnergyCote™ Roof Coating" or "EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate™ MB Plus Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

17. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick Untied States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet (Optional): — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", mechanically fastened.

Ply Sheet: — One or two plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

Coating: — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate™ MB Plus Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

18. Deck: NC

Incline: 1

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2 1/2-in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One ply "GAFLAS® Stratavent® Perforated Venting Base Sheet", loose laid or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet: — One or two plies "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® 20 Smooth", "Ruberoïd® 20 Plus Smooth" or "RUBEROID® HW 25 Smooth", fully adhered with hot roofing asphalt.

Membrane: — "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

Coating: — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate™ MB Plus Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

19. Deck: C-15/32**Incline:** 1

Insulation (optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick Untied States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet: — One or two plies "RUBEROID® Mop Smooth" or "RUBEROID® Mop Plus Smooth" fully adhered with hot roofing asphalt.

Membrane: — "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

Coating: — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus Coating" or "United Coatings™ Roof Mate™ MB Plus Coating" or "Bleed-Block Acrylic Base Coat" or "GAF Bleed-Block Acrylic Base Coat" applied at a rate of 2-gal./100-ft.².

20. Deck: C-15/32**Incline:** 1

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" mechanically fastened.

Insulation (Optional): — Any thickness or combination: perlite or wood fiber or glass fiber or polyisocyanurate, mechanically fastened or hot mopped or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Base Sheet (Optional): — One ply "GAFGLAS® Stratavent® Perforated Venting Base Sheet", loose laid or mechanically fastened.

Base Sheet: — One or more plies "RUBEROID® 20 Smooth", "Ruberoid® 20 Plus Smooth" or "RUBEROID® HW 25 Smooth", mechanically fastened or fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet".

21. Deck: NC**Incline:** 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or one ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" mechanically fastened or fully adhered with hot roofing asphalt or one ply Type G2 "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" loose laid, mechanically fastened or fully adhered.

Ply Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

22. Deck: NC**Incline:** 3

Base Sheet: — —GAFGLAS FlexPly 6 M", "GAFGLAS Ply 4 M", mechanically fastened or hot mopped. May use "Modified BUR Asphalt".

Insulation (Optional): — Perlite or glass fiber, any thickness, mechanically fastened or hot mopped. May use "Modified BUR Asphalt".

Ply Sheets: — One or more layers "GAFLAS FlexPly 6 M", "GAFLAS Ply 4 M".

Surfacing: — Gravel, crushed stone or crushed slag, in a flood coat of hot roofing asphalt.

Class B

1. Deck: C-15/32

Incline: 3-1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

2. Deck: C-15/32

Incline: 3-1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Ply Flex 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

3. Deck: C-15/32

Incline: 2-1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Ply Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

4. Deck: C-15/32

Incline: 2-1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" fully adhered with hot roofing asphalt.

Cap Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", fully adhered with hot roofing asphalt.

COAL TAR FELT SYSTEMS WITH HOT ROOFING COAL TAR

Class A

1. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Ply Sheet: — Three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with coal tar bitumen.

Surfacing: — Gravel.

COMBINATION HOT AND COLD SYSTEMS

Class A

1. Deleted.
2. Deleted.
3. Deleted.
4. Deleted.
5. Deleted.
6. Deleted.
7. Deleted.

8. **Deck:** NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber or polyisocyanurate or wood fiber, mechanically fastened, any thickness.

Ply Sheet: — Three or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Coating: — "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 1-1/2 to 2-gal./100-ft.².

9. **Deck:** NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2 1/2-in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One ply Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Three or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Surfacing: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 to 1-gal./100-ft.².

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 to 1-gal./100-ft.².

10. **Deck:** C-15/32

Incline: 2

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Two or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Surfacing: — Roofing gravel applied at 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate applied at a rate of 200-lbs./100-ft.² embedded into "TOPCOAT® FireShield MB", applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 1/2 to 1-gal./100-ft.².

OTHER SYSTEMS

Class A

1. Deck: C-15/32

Incline: Unlimited

Slip Sheet (Fire Barrier): — One or more layers "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Shingles or Panels: — Any Listed or Classified metal shingles, panels, or standing seam steel, aluminum, or copper installed in a manner recommended by the installation instructions provided with the roofing by the manufacturer.

2. Deck: NC

Incline: 1/2

Coating: — "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ TOPCOAT® Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1 to 1-1/2 gal./100-ft.².

Surfacing: — Minimum 1/2-in. thick exterior grade ceramic plaza deck walking tile, adhered in thin-set and grouted per the manufacturer's installation instructions (Not UL Classified).

3. Deck: NC

Incline: 1/2

Insulation (Optional): — Any thickness "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN", "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra", or "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" or Hunter Panels "H-shield", adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Barrier Board (Optional): — Minimum 1/4-in. thick "DensDeck® Prime Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Gypsum-Fiber Roof Board" (Type FRX-G) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" adhered with OMG Inc. "OlyBond Fastening System", applied as a nominal 3/4-in. bead, or "GAF 2-Part Roofing Adhesive", applied as a nominal 2 1/2-in. bead with a maximum on-center spacing of 12-in., or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard® Extreme™ TPO FB Ultra" or "EverGuard® Extreme™ TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in or adhered with "GAF 2-Part Roofing Adhesive", spatter pattern (50% coverage).

Coating: — "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ TOPCOAT® Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1 to 1-1/2 gal./100-ft.².

Surfacing: — Minimum 1/2-in. thick exterior grade ceramic plaza deck walking tile, adhered in thin-set and grouted per the manufacturer's installation instructions (Not UL Classified).

4. **Deck:** C-15/32

Incline: See Note

Underlayment: — One ply ASTM D4869 Type II felt or "StormGuard®", mechanically fastened.

Slip Sheet: — 2 plies "Mineral Guard", mechanically fastened per GAF Solar "DecoTech" installation instructions.

Surfacing: — Any UL Certified GAF Class A Photovoltaic mounting system, mechanically fastened.

Note - System is to be installed with UL Certified GAF Solar Rack/Module Photovoltaic Systems ONLY and not utilized as a stand-alone system. Incline is determined by the requirements of the solar rack/module being utilized with the roof covering system.

MODIFIED BITUMEN MEMBRANE ROOFING SYSTEMS

Unless otherwise indicated phenolic insulation may be used in any of the following systems.

Unless otherwise indicated any of the following Single Ply Membrane Systems may utilize multiple layers of RUBEROID® Membrane.

"GAF Premium Aluminum Roof Coating" may be used on any of the following Classifications with inclines not exceeding 1/2-in.

"GAFGlas® #80 Ultima™ Base Sheet" may be used in any of the following systems.

(Optional) Noncombustible roof deck classifications are applicable for use over minimum 15/32-in. thick plywood combustible roof decks when minimum 1/2-in. gypsum board or minimum 1/4-in. Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) are used directly over the roof deck with all butt joints are staggered a minimum of 6-in. from plywood roof deck butt joints. Minimum 1/4-in. thick "SECUROCK® Roof Board" (Type FRX-G) and "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) are limited to a maximum 3:12 incline when used over a combustible roof deck in a system with any UL Classified insulation except polystyrene.

A vapor barrier may be optionally installed under all systems utilizing any "EnergyGuard™" insulation. "EnergyGuard™ Perlite" may be used as an option over any "EnergyGuard™" insulation. "GAFGlas® StrataVent® Perforated Venting Base Sheet" may be utilized as an additional ply in any of the following systems.

The following membranes may be used interchangeably within their own group:

- A. "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule".
- B. "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth".
- C. "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule".
- D. Deleted.
- E. "RUBEROID® 30 Granule FR" or "RUBEROID® EnergyCap™ 30 Granule FR".
- F. "RUBEROID® 20 Smooth" or "RUBEROID® HW 25 Smooth".

G. "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule FR" or "RUBEROID® HW Plus Granule".

H. "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth".

I. "RUBEROID® EnergyCap™ Torch Granule FR" or "RUBEROID® EnergyCap™ Torch Plus Granule FR".

J. "RUBEROID® Mop Plus Granule FR" or "RUBEROID® EnergyCap™ Mop Plus FR".

Unless otherwise indicated, the Modified Bitumen (Granule) membrane may be surfaced with "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.², and the incline of the resultant system would be increased to a 3/4-in. incline. But if the incline of the Classified system is greater than a 3/4-in. incline, the incline of the roofing system would be maintained when surfaced with "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" at 2-1/2 to 3-gal./100-ft.².

Unless otherwise indicated "RUBEROID® EnergyCap™ 30 Granule FR" is an acceptable alternate for "RUBEROID® 30 Granule FR" or "RUBEROID® Mop Granule FR" in any applicable Classification.

Class A - Ballasted

1. Deck: C-15/32

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

Surfacing: — Gravel applied at a rate of 400-lbs/100-ft², loose laid or concrete blocks, at 10-lbs/ft² and spaced not more than 1/8-in.

2. Deck: NC

Incline: 3

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber or wood fiber, 3/4-in. to 1 1/2-in.

Base Sheet (Optional): — Type 15 asphalt glass felt or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

Surfacing: — Gravel.

3. Deck: C-15/32

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States

Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber or wood fiber, any thickness.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

Slip Sheet: — 0.004-in. thick polyethylene (not UL Classified).

Surfacing: — 3/4-in. thick concrete with one layer of No. 10 Summerville Quarry tile (or equivalent) grouted in place.

4. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber or wood fiber, any thickness.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

Surfacing: — 3/4-in. to 1-1/2 in. diameter river bottom stone, applied at a rate of 1000-lbs./100-ft.² or concrete pavers weighing not less than 10-lbs./1-ft.² and spaced not more than 1/8-in.

5. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick, Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX), minimum 1/4-in. thick or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Perlite, glass fiber or wood fiber, 3/4 to 1-1/2 in.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

Surfacing: — Gravel, applied at a rate of 400-lbs./100-ft.², loose laid or concrete blocks, at 10-lbs./ft.² and spaced not more than 1/8-in.

6. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch" membranes (Smooth or Granule), torch applied or "RUBEROID® Mop" membranes (Smooth or Granule), fully adhered with hot roofing asphalt.

Surfacing: — Gravel, applied at a rate of 400-lbs./100-ft.², loose laid or applied in a flood coat of hot roofing asphalt.

7. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — One or more layers perlite or glass fiber, 3/4-in. minimum, or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite, 1-1/2 in. minimum.

Base Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch" membranes (Smooth or Granule), torch applied or "RUBEROID® Mop" membranes (Smooth or Granule), fully adhered with hot roofing asphalt.

Surfacing: — Gravel.

8. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite.

Base Sheet: — Two or more plies Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6".

Membrane: — One or more plies "RUBEROID® Torch" membranes (Smooth or Granule), torch applied or "RUBEROID® Mop" membranes (Smooth or Granule), fully adhered with hot roofing asphalt.

Surfacing: — Gravel.

9. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Three or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane (Optional): — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Surfacing: — Roofing gravel, applied at a rate of 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate, applied at a rate of 200-lbs./100-ft.² embedded into "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 gal. to 1-gal./100-ft.².

10. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Two or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane (Optional): — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Surfacing: — Roofing gravel, applied at a rate of 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate, applied at a rate of 200-lbs./100-ft.² embedded into "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 gal. to 1-gal./100-ft.².

11. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Three or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane (Optional): — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Surfacing: — Roofing gravel, applied at a rate of 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate, applied at a rate of 200-lbs./100-ft.² embedded into "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 to 1-gal./100-ft.².

12. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness, mechanically fastened or adhered with any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Two or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane (Optional): — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Surfacing: — Roofing gravel, applied at 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate, applied at a rate of 200-lbs./100-ft.² embedded into "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 1/2 to 1-gal./100-ft.².

13. Deck: NC

Incline: 1/2

Membrane: — One or more plies "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" torch applied.

Surfacing: — Minimum 1/2-in. thick exterior grade ceramic plaza deck walking tile, adhered in thin-set and grouted per the manufacturer's installation instructions.

Class B - Ballasted

1. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — Minimum 2-in. thick polyisocyanurate mechanically fastened with the butt joints in the insulation staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — Two or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane (Optional): — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Smooth", torch applied.

Surfacing: — Roofing gravel, applied at a rate of 400-lbs./100-ft.² embedded into a flood coat of hot roofing asphalt or No. 10 White Aggregate, applied at a rate of 200-lbs./100-ft.² embedded into "TOPCOAT® FireShield MB", applied at a rate of 2-1/2 to 3-gal./100-ft.².

Coating: — "United Coatings™ FireShield MB Roof Coating" or "FireShield® MB Roof Coating" applied at a rate of 1/2 to 1-gal./100-ft.².

Class A - Fully Adhered

1. Deleted.
2. Deleted.
3. Deleted.
4. Deleted.
5. Deleted.
6. Deleted.
7. Deleted.
8. Deleted.

9. **Deck:** C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or 3/4-in. minimum or polyisocyanurate or urethane or perlite/polyisocyanurate composite or perlite/urethane composite or phenolic, 1-1/2 in. minimum.

Base Sheet: — One or more plies Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" fully adhered with hot roofing asphalt.

Coating (Optional): — "GAF Fibered Aluminum Coating" applied at a rate of 1-1/2 gal./100-ft.².

10. **Deck:** C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Base Sheet: — One or more layers Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" fully adhered with hot roofing asphalt.

11. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or fiber glass or polyisocyanurate or urethane or perlite/polyisocyanurate composite, butt joints offset a minimum of 6-in. from plywood deck joints.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — One ply "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" fully adhered with hot roofing asphalt.

12. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Base Sheet: — One or more layers Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" mechanically fastened or fully adhered with hot roofing asphalt.

13. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States

Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or fiber glass or wood fiber or polyisocyanurate or urethane or perlite/polyisocyanurate composite.

Base Sheet (Optional): — One or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — One ply "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with hot roofing asphalt.

Membrane: — One ply "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" fully adhered with hot roofing asphalt.

14. Deleted.

15. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber any thickness, mechanically fastened.

Base Sheet: — One or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "Ruberoid® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR" fully adhered with hot roofing asphalt.

16. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or or glass fiber, any thickness, mechanically fastened.

Base Sheet: — One or more plies Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with hot roofing asphalt.

Membrane: — One or more plies "Ruberoid® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR" fully adhered with hot roofing asphalt.

17. Deleted.

18. Deleted.

19. Deleted.

20. Deleted.

- 21. Deleted.
- 22. Deleted.
- 23. Deleted.
- 24. Deleted.
- 25. Deleted.
- 26. Deleted.
- 27. Deleted.
- 28. Deleted.
- 29. Deleted.
- 30. Deleted.
- 31. Deleted.
- 32. Deleted.
- 33. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber, maximum 1-in. thick, mechanically fastened or fully adhered with hot roofing asphalt.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

- 34. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or perlite or glass fiber, any thickness.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

- 35. Deleted

- 36. Deleted

37. Deck: NC**Incline:** 1/2

Base Sheet: — One or more layers Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "RUBEROID® HW Granule" or "RUBEROID® HW Plus Granule" or "Tri-Ply® SBS Granule", fully adhered with hot roofing asphalt.

38. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite or phenolic, any thickness.

Base Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", fully adhered with hot roofing asphalt.

Coating: — "TOPCOAT® Gray" or "TOPCOAT® White" or "TOPCOAT® MB Plus", applied at a rate of 2-gal./100-ft.².

39. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite, any thickness.

Base Sheet: — Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® Mop Plus Granule FR", fully adhered with hot roofing asphalt.

Coating: — "TOPCOAT® Gray" or "TOPCOAT® White" or "TOPCOAT® MB Plus", applied at a rate of 2-gal./100-ft.².

40. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States

Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite, any thickness.

Base Sheet: — Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened.

Ply Sheet: — Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with "Matrix™ 102 SBS Membrane Adhesive" applied at a rate of 2-gal./100-ft.².

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", fully adhered with "Matrix™ 102 SBS Membrane Adhesive" applied at a rate of 2-gal./100-ft.².

41. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite, any thickness.

Base Sheet: — Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet: — Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", fully adhered with "Matrix™ 102 SBS Membrane Adhesive", applied at a rate of 2-gal./100-ft.².

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR" fully adhered with "Matrix 102™ SBS Membrane Adhesive", applied at a rate of 2-gal./100-ft.².

42. Deck: NC

Incline: 1/2

Base Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with hot roofing asphalt.

Coating (Optional): — "EnergyCote™ Roof Coating" or "EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus", applied at a rate of 2-gal./100-ft.².

43. Deleted

44. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Wood fiber or glass fiber or perlite, 1/2-in. minimum thickness over any UL Classified insulation, any combination, any thickness.

Base Sheet: — One or more plies "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Cap Sheet: — "Liberty™ FR SBS Self-Adhering Cap Sheet" or "RUBEROID® SA Cap FR Sheet", self-adhered.

45. Deck: C-15/32

Incline: 1/2

Base Sheet — Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Base Sheet: — One or more plies "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Cap Sheet: — "Liberty™ FR SBS Self-Adhering Cap Sheet" or "RUBEROID® SA Cap FR Sheet", self-adhered.

46. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Any UL Classified polyisocyanurate or perlite or wood fiber or glass fiber, any thickness.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet", or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® EnergyCap™ Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Granule FR", torch applied.

47. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Any UL Classified polyisocyanurate or perlite or wood fiber or glass fiber, any thickness.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with hot roofing asphalt.

Coating: — "TOPCOAT® EnergyCote™ Elastomeric Coating", applied at a rate of 0.6-gal./100-ft.².

48. Deck: C-15/32

Incline: 1

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Base Sheet: — One ply Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Plus Granule FR", torch applied.

49. Deck: C-15/32**Incline:** 1/2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet (Optional): — One ply Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule" or "RUBEROID® Torch Plus Granule FR", torch applied.

50. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Minimum 1/2-in. wood fiber, mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", or "Ruberoid® SA Universal Base Sheet" self-adhered.

Membrane: — "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® EnergyCap™ HW Plus Granule FR", torch applied or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® 30 Granule FR HT" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with hot roofing asphalt.

51. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — Any UL Classified, any thickness, mechanically fastened.

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Base Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet" self-adhered.

Membrane: — "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® EnergyCap™ HW Plus Granule FR", torch applied or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with hot roofing asphalt.

52. Deck: NC**Incline:** 1

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Base Sheet (Optional): — One ply "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Ply Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Cap Sheet: — "RUBEROID® SA Cap FR Sheet", self-adhered.

53. Deck: C-15/32**Incline:** 1/2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet (Optional): — One ply "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Ply Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Cap Sheet: — "RUBEROID® SA Cap FR Sheet", self-adhered or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Granule FR", torch applied.

54. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or fiber glass or polyisocyanurate or urethane or perlite/polyisocyanurate composite.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — One ply "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", fully adhered with hot roofing asphalt.

55. Deck: NC

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber, any thickness, mechanically fastened or fully adhered with hot roofing asphalt.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet : — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Granule", torch applied.

56. Deck: C-15/32

Incline: 1/2

Base Sheet: — Two or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Membrane: — "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Granule", torch applied.

57. Deck: NC

Incline: 1/2

Base Sheet: — "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", fully adhered with hot roofing asphalt or "RUBEROID® HW Smooth", torch applied

Membrane: — "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule", torch applied.

58. Deck: NC**Incline:** 1/2

Insulation (Optional): — Polyisocyanurate, uniform thickness or tapered minimum 1-1/2 in., mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with OMG Inc. "Olybond Fastening System".

Base Sheet (Optional): — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet" self-adhered.

Ply Sheet: — One ply "RUBEROID® HW 25 Smooth", torch applied.

Membrane: — "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule", torch applied.

59. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — Polyisocyanurate, uniform thickness of tapered minimum 1-1/2 in., mechanically fastened or adhered with OMG Inc. "Olybond Fastening System".

Barrier Board: — Minimum 1/4-in. thick GP Gypsum Corp. "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with all butt joints in the barrier board staggered a minimum of 6-in. from plywood deck butt joints, mechanically fastened or adhered with OMG Inc. "Olybond Fastening System".

Base Sheet (Optional): — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet" self-adhered.

Ply Sheet: — One ply "RUBEROID® HW 25 Smooth", torch applied.

Membrane: — "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule", torch applied.

60. Deck: C-15/32**Incline:** 1/2

Barrier Board: — Minimum 1/4-in. thick GP Gypsum Corp. "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with all butt joints in the barrier board staggered a minimum of 6-in. from plywood deck butt joints, mechanically fastened.

Base Sheet: — One ply "GAFGLAS® #75 Base" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Plus Granule FR", torch applied.

61. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States

Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or wood fiber or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or wood fiber/polyisocyanurate composite, any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — Three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Coating: — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" applied at a rate of 1/2 to 1-gal./100-ft.².

62. Deck: C-15/32

Incline: 1/2

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Insulation (Optional): — One or more layers perlite, wood fiber, glass fiber, polyisocyanurate, perlite/polyisocyanurate composite, wood fiber/polyisocyanurate composite, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.

Base Sheet: — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® Flex Ply 6" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", fully adhered with hot roofing asphalt.

Ply Sheet: — Two or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule FR" fully adhered with hot roofing asphalt or "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule" or "RUBEROID® HW Smooth", torch applied.

Coating: — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" applied at a rate of 1/2-gal. to 1-gal./100-ft.².

63. Deck: NC

Incline: 1-1/2

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber, any thickness, mechanically fastened or fully adhered with hot roofing asphalt.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation" or "Ultra HD Composite Insulation" or 1/2-in. thick wood fiber-board, mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet: — One ply "RUBEROID® SA Base/Ply Sheet", "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet", self-adhered.

Membrane: — "RUBEROID® Torch Plus Granule FR" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® EnergyCap™ Torch Plus Granule FR", torch applied.

64. **Deck:** C-15/32

Incline: 1/2

Base Sheet: — Two plies Type G2 "GAFGLAS® #75 Base Sheet" or Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth", mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with hot roofing asphalt or "RUBEROID® HW Smooth", torch applied.

Membrane: — "RUBEROID® HW Granule FR" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule", torch applied.

65. **Deck:** NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or glass fiber or perlite, mechanically fastened, any combination, any thickness.

Base Sheet: — One ply "RUBEROID® SA Base/Ply Sheet", self-adhered.

Membrane: — "RUBEROID® SA Cap FR", self-adhered.

66. **Deleted.**

67. **Deck:** C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Any thickness perlite or wood fiber or glass fiber or polyisocyanurate, mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard", or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® 30 Granule" fully adhered with hot roofing asphalt.

Coating (Optional): — "EnergyCote™ Roof Coating" or "GAF EnergyCote™ Roof Coating" or "TOPCOAT® MB Plus", applied at a rate of 2-gal./100-ft.².

68. Deck: NC**Incline:** 1/2

Primer (Optional): — "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ "TOPCOAT® Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1-gal./100-ft.².

Insulation (Optional): — Perlite or fiber glass or polyisocyanurate or urethane or perlite/polyisocyanurate composite.

Base Sheet: — One or more layers Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGLAS® Mineral-Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" or "GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", fully adhered with hot roofing asphalt.

69. Deck: NC**Incline:** 1/2

Base Sheet: — One ply "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

70. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — Any thickness "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", or Hunter Panels "H-shield", mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

71. Deck: NC**Incline:** 1/2

Insulation (Optional): — Any thickness "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", or Hunter Panels "H-shield", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth" or Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS®

Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

72. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — Any thickness "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", or Hunter Panels "H-shield", mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth" or Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

73. Deck: C-15/32

Incline: 1/2

Insulation: — Minimum 2-in. thick "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened with all butt joints in the insulation staggered a minimum of 6-in. from butt joints in plywood roof deck.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

74. Deck: NC

Incline: 1/2

Insulation (Optional): — Any UL Classified polyisocyanurate or perlite or wood fiber or glass fiber, any thickness.

Base Sheet: — One ply "RUBEROID® SA Base/Ply Sheet", "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet", self-adhered.

Membrane: — "RUBEROID® Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Granule FR", torch applied.

75. Deck: C-15/32

Incline: 1/2

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slipsheet" mechanically fastened.

Slip Sheet: — One ply "StormSafe™" mechanically fastened.

Membrane: — "Liberty™ Glass Cap" self-adhered.

76. Deck: C-15/32**Incline:** 1/2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at 1-gal./100-ft².

Slip Sheet: — One ply "StormSafe™" mechanically fastened.

Membrane: — "Liberty™ Glass Cap" self-adhered.

77. Deck: NC**Incline:** 1/2

Insulation: — Minimum 2 in. thick "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM" or Hunter Panels "H-shield"; or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ Barrier NH", mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System" or any UL Classified insulation adhesive.

Barrier Board (optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply "RUBEROID® Mop Smooth 1.5" adhered in H.B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in. wide beads spaced 12-in. o.c.

Membrane: — "RUBEROID® Mop Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® Mop Plus Granule FR" adhered in H.B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in wide beads spaced 12-in. o.c.

78. Deck: NC**Incline:** 1/2

Insulation: — Minimum 2 in. thick "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM" or Hunter Panels "H-shield"; or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ Barrier NH" mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System" or any UL Classified insulation adhesive.

Barrier Board (optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply "RUBEROID® 20 Smooth" adhered in H.B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in. wide beads spaced 12-in. o.c.

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® 30 Granule FR" or "RUBEROID® Mop Granule FR" adhered in H.B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in wide beads spaced 12-in. o.c.

79. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — Any thickness "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", or Hunter Panels "H-shield", mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System" or any UL Classified insulation adhesive.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-

Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Ply Sheet: — One or more plies "RUBEROID® 20 Smooth" or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2 gal./100-ft.².

Membrane: — "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with "Matrix™ 101 Premium SBS Membrane Adhesive", applied at a rate of 1-1/2-gal./100-ft.².

80. **Deck:** C-15/32

Incline: No limitation.

Insulation: — Any polyisocyanurate, urethane, perlite/isocyanurate composite, glass fiber, perlite or wood fiber, any thickness.

Insulation (Optional): — Wood fiberboard, 1/2-in. thick minimum.

Base/Ply Sheet: — One layer Type G2, "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Membrane: — "Ruberoid UltraClad SBS Membrane", heat fused, hot mopped in place.

81. **Deck:** C-15/32

Incline: No limitation.

Base Sheet: — Type G2, "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" mechanically fastened or adhered with hot roofing asphalt.

Ply Sheet: — Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet", or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" adhered with hot roofing asphalt.

Membrane: — "Ruberoid UltraClad SBS Membrane", heat fused or hot mopped in place.

82. **Deck:** NC

Incline: No limitation

Insulation: — Expanded polystyrene (EPS), extruded polystyrene (XEPS), any thickness.

Barrier Board: — Wood fiber, perlite, glass fiber, 0.45-in. minimum.

Base/Ply Sheet: — Type G2, "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Membrane: — "Ruberoid UltraClad SBS Membrane", heat fused or hot mopped.

83. **Deck:** C-15/32

Incline: No limitation

Insulation: — Expanded polystyrene (EPS), extruded polystyrene (XEPS), any thickness.

Barrier Board: — Perlite, glass fiber, 3/4-in. thick minimum.

Base/Ply Sheet: — Type G2, "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Membrane: — "Ruberoid UltraClad SBS Membrane", heat fused or hot mopped.

84. **Deck:** NC

Incline: No limitation

Base/Ply Sheet: — Type G2, Type G3, "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Membrane: — "Ruberoid UltraClad SBS Membrane", heat fused or hot mopped.

85. **Deck:** C-15/32

Incline: 1/4

Insulation (Optional): — One or more layers of any UL Classified perlite, glass fiber or polyisocyanurate insulation, any thickness.

Cover Board: — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with UL Classified adhesive. The butt joints in the gypsum cover board are to be offset a minimum of 6-in. with the butt joints in the roof deck.

Base Sheet: — "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth 1.5", adhered with "Matrix™ 101 Premium SBS Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Ply Sheet: — "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth 1.5", adhered with "Matrix™ 101 Premium SBS Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Membrane: — "RUBEROID® Mop Plus Granule FR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", adhered with "Matrix™ 101 Premium SBS Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Class B - Fully Adhered

1. Deleted.

2. Deleted.

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5. Deleted.

6. Deleted.

7. Deleted.

8. Deleted.

9. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or glass fiber, minimum 1-in. thick or polyisocyanurate, 2-in. thick minimum.

Base Sheet: — One ply Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

10. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or glassfiber or perlite, any thickness, mechanically fastened.

Base Sheet: — Type G2 "GAFGLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGLAS® #80 Ultima™ Base Sheet" or "GAFGLAS® Stratavent® Nailable Venting Base Sheet" or "GAFGLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFGLAS® Flex Ply 6", "GAFGLAS Ply 4 M", "GAFGLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Mop Granule FR" or "RUBEROID® EnergyCap™ Mop Plus Granule FR", "RUBEROID® EnergyCap™ Mop Plus Granule FR GR" or "RUBEROID® Mop Plus Granule FR", fully adhered with hot roofing asphalt.

11. **Deleted.**

12. **Deck:** C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — One or more layers perlite or glass fiber or polyisocyanurate or perlite/polyisocyanurate composite or perlite/urethane composite or wood fiber/polyisocyanurate composite, any thickness.

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" fully adhered with "RUBEROID® MB Adhesive", applied at a rate of 2-gal./100-ft.².

Coating: — "TOPCOAT® Gray" or "TOPCOAT® White" or "TOPCOAT® MB Plus", applied at a rate of 2-gal./100-ft.².

13. **Deck:** C-15/32

Incline: 1/2

Base Sheet: — One or more plies "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened to the deck, inverted.

Base Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Cap Sheet: — "RUBEROID® SA Cap Sheet" or "RUBEROID® SA Cap FR Sheet", self-adhered.

14. **Deck:** C-15/32

Incline: 1/2

Base Sheet: — One or more plies "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Cap Sheet: — "RUBEROID® SA Cap FR Sheet", self-adhered.

15. **Deck:** C-15/32

Incline: 1/2

Base Sheet: — One or more plies Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet: — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® EnergyCap™ Torch Plus Granule FR" or "RUBEROID® EnergyCap™ Torch Granule FR", torch applied.

16. **Deleted.**

17. **Deck:** C-15/32

Incline: No limitation.

Base/Ply Sheet: — Type G2, "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5".

Membrane: — "Ruberoid UltraClad SBS Membrane", may be heat fused or hot mopped in place.

Class C - Fully Adhered1. **Deleted.**2. **Deleted.**3. **Deleted.**4. **Deleted.**5. **Deck:** NC**Incline:** 1/2

Base Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or Type G3 "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® Torch" membranes (Smooth or Granule), torch applied or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule", fully adhered with hot roofing asphalt.

6. **Deleted.**7. **Deleted.**8. **Deleted.**9. **Deleted.**10. **Deck:** C-15/32**Incline:** 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber, any thickness, mechanically fastened or fully adhered with hot roofing asphalt.

Base Sheet: — One or more plies "RUBEROID® 20 Smooth" or Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "GAFGlas® Stratavent® Perforated Venting Base Sheet" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® 30 Granule" or "RUBEROID® 30 Granule FR", "RUBEROID® EnergyCap™ 30 Granule FR GR" or "RUBEROID® EnergyCap™ 30 Granule FR", fully adhered with hot roofing asphalt.

11. **Deleted.**12. **Deck:** C-15/32**Incline:** 2

Base Sheet: — Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied.

13. **Deck:** C-15/32**Incline:** 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or fiberboard or high-density fiberboard or polyisocyanurate or perlite/polyisocyanurate or fiberboard/polyisocyanurate.

Base Sheet: — One or more plies "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheets (Optional): — One or more plies "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" or "GAFGlas® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet" fully adhered with hot roofing asphalt.

14. Deck: C-15/32

Incline: 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Perlite or wood fiberboard or polyisocyanurate or perlite/polyisocyanurate or fiberboard/polyisocyanurate, mechanically fastened or fully adhered with hot roofing asphalt.

Base Sheet: — One or more plies "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet" or "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth", mechanically fastened or fully adhered with hot roofing asphalt.

Ply Sheet: — One or more plies "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Cap Sheet: — "RUBEROID® Torch Smooth" or "Tri-Ply® APP Smooth" or "RUBEROID® Torch Granule" or "RUBEROID® Torch 180" or "Tri-Ply® APP Granule", torch applied or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth" or "RUBEROID® Mop Granule" or "Intec Flex PRF" or "Tri-Ply® SBS Granule" "GAFGlas® Mineral Surface Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", fully adhered with hot roofing asphalt.

15. Deck: C 15/32

Incline: 1/2

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet: — One or more plies "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Cap Sheet: — One or more plies "Liberty™ SBS Self-Adhering Cap Sheet" or "RUBEROID® SA Cap Sheet" or "RUBEROID® SA Cap FR Sheet", self-adhered.

16. Deck: NC

Incline: 1/2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Insulation: — Polyisocyanurate or perlite or glass fiber or wood fiber, 2-in. maximum, mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet (Optional): — One ply "Liberty™ SBS Mechanically Attached Base Sheet", mechanically fastened.

Ply Sheet: — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Cap Sheet: — "RUBEROID® SA Cap Sheet" or "RUBEROID® SA Cap FR Sheet", self-adhered.

17. Deck: C-15/32

Incline: 1/2

Primer: — Asphalt primer complying with ASTM D41/D41M, applied at a rate of 1-gal./100-ft.².

Base Sheet: — One or more plies "Liberty™ SBS Self-Adhering Base/Ply Sheet", self-adhered.

Cap Sheet: — One or more plies "Liberty™ SBS Self-Adhering Cap Sheet", self-adhered.

18. **Deck:** C-15/32

Incline: 1/2

Insulation: — Minimum 2-in. thick "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM"; or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ Barrier NH", mechanically fastened or adhered with OMG Inc. "OlyBond™ Fastening System"

Barrier Board (optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Base Sheet: — One ply "RUBEROID® Mop Smooth 1.5" adhered in H.B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in wide beads spaced 12-in. o.c.

Membrane: — "RUBEROID® Mop Granule" adhered in H. B. Fuller Company "Millennium Hurricane Force Membrane Adhesive HS" applied as 1/2 to 3/4-in. wide beads spaced 12-in. o.c.

SINGLE PLY MEMBRANE SYSTEMS

Class A, B or C (See Note)

1. **Deck:** NC (See Note 1)

Incline: See Note 1

Insulation: — Any UL Classified, any thickness, adhered with "TPO LRF Adhesive M LTA."

Membrane: — Any UL Classified modified bitumen system, BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE membrane system suitable for use with any roof insulation.

Note 1: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roofing System (TGFU) currently limited to noncombustible deck.

2. **Deck:** NC (See Note 1)

Incline: See Note 1

Insulation: — Any UL Classified, any thickness, adhered with "LRF Adhesive M Canister"

Membrane: — Any UL Classified modified bitumen system, BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE membrane system suitable for use with any roof insulation.

Note 1: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roofing System (TGFU) currently limited to noncombustible deck.

Class A — Ballasted

1. **Deck:** NC

Incline: 3

Vapor Barrier (Optional): — Any UL Classified vapor barrier, adhered with H.B. Fuller "Millennium Sprayable Asphaltic/SA Vapor Barrier Primer".

Insulation: — Any UL Classified insulation, any thickness.

Membrane: — Any UL Classified membrane, adhered with "EverGuard #2331 Bonding Adhesive H".

Surfacing: — River bottom stone (3/4 in. to 1-1/2 in. diam) at 1000 lb/sq.

SINGLE PLY MEMBRANE ROOFING SYSTEMS (PVC)

Unless otherwise indicated, "EverGuard® PVC XK" or "EverGuard® PVC Smooth" membranes used in systems are mechanically fastened with large head metal or plastic fasteners with an on-center spacing of 18-in. and maximum 2-in. from membrane's edge. Adjacent sheets are lapped 4-in., covering fasteners. Laps are then heat-sealed.

The "EverGuard® PVC XK Fleeceback" membrane is fully adhered with hot roofing asphalt.

A vapor barrier may be optionally installed under all systems utilizing any polyisocyanurate insulation in the following systems.

"EnergyGuard™ Perlite" may be used as an option over any "EnergyGuard™" type insulation. "GAFGLAS® Stratavent® Perforated Venting Base Sheet may be utilized as an additional ply in any of the following systems.

Class A - Ballasted

1. Deck: C-15/32

Incline: 2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Polystyrene or polyisocyanurate or polyurethane or kraft-faced glass fiber or perlite or wood fiber or gypsum board, any thickness, loose laid.

Slip Sheet (Optional): — Glass fiber reinforced kraft paper.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, loose laid.

Surfacing: — River bottom stone (1/2 to 2-1/2 in. diameter) 1000-lbs./100-ft.² or crushed stone 1/2 to 3/4-in. diameter) at 900-lbs./100-ft.², minimum or concrete blocks (10-lbs./ft.²) spread not more than 1/8-in. apart.

2. Deck: NC

Incline: 2

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Tapered" or "EnergyGuard™ Foil-Faced" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra", or Hunter Panels "H-shield", any thickness, laid loosely or mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback" or any UL Classified PVC single ply membrane, fully adhered or mechanically fastened or loose laid.

Surfacing: — No. 6 River bottom stone 3/4 to 1-1/2 in. diameter, applied at rate of 1000-lbs./100-ft.².

3. **Deck:** NC

Incline: 3

Insulation: — Polystyrene, 2-in. maximum or polyisocyanurate, any thickness, loose laid.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, loose laid.

Surfacing: — River bottom stone (3/4-in. to 1-1/2 in. diameter) at 1000-lbs./100-ft.² or concrete roof pavers.

4. **Deck:** NC

Incline: 2

Insulation: — Polyisocyanurate EPS, wood fiber or perlite, adhered with "GAF LRF Adhesive XF" insulation adhesive dispensed as a nominal 1-inch diameter bead at a rate of 1 lin/ft per sq ft of insulation board.

Membrane: — Any UL Classified membrane, mechanically fastened, self-adhered, or loose laid.

Surfacing: — Minimum 400 lbs/100-ft² of roofing gravel or crushed stone or 300 lbs/100-ft² of crushed slag embedded in a flood coat of hot roofing coal tar pitch.

Class A - Fully Adhered

1. **Deck:** NC

Incline: 1-1/2

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp".

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

2. **Deck:** NC

Incline: 1

Barrier Board (Optional): — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp".

Insulation: — "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

3. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M".

Insulation: — Rmax Inc. "Thermarroof Plus-3", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

4. Deck: C-15/32**Incline:** 2

Insulation (Optional): — Polyisocyanurate or extruded or expanded polystyrene, any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp".

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp", with all butt joints in the barrier board staggered a minimum of 6-in. from the plywood roof deck butt joints.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with an minimum on-center spacing of 12-in., applied parallel to the incline of the roof.

5. Deck: NC**Incline:** 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

6. Deck: NC (Concrete)**Incline:** 1

Insulating Concrete (Optional): — Deck covered with one of the following insulating concretes (poured in place): cellular or vermiculite or perlite or gypsum or structural.

Membrane: — "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

7. Deck: Structural Cement Fiber Unit**Incline:** 1

Insulation (Optional): — One or more of the following or combinations, any thickness: "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or

"EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

8. Deck: NC

Incline: 1

Vapor Retarders (Optional, not UL Classified): — 6-mil polyethylene or Kraft or Kraft laminate.

Insulation: — One more of the following or combinations, mechanically fastened, any thickness: "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

9. Deck: C-15/32

Incline: 1

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co. "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M", with all butt joints in the barrier board staggered a minimum of 6-in. from the plywood roof deck butt joints.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp".

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

10. Deck: NC

Incline: 1

Insulation (Optional): — Polyisocyanurate, any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Ply Sheet (Optional): — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

11. Deck: NC**Incline:** 1

Insulation: — Polyisocyanurate, any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or Perlite or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp".

Ply Sheet: — One or more plies "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Smooth", fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

12. Deck: NC**Incline:** 3/4

Insulation (Optional): — Any UL Classified polyisocyanurate or wood fiber or glass fiber or perlite, any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" or three or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

13. Deck: C-15/32**Incline:** 3/4

Barrier Board (Optional): — One or more layers Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick, or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX), minimum 1/4-in. thick or minimum 1/4-in. thick

Insulation: — Any UL Classified polyisocyanurate, minimum 3-in. thick, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M".

Base Sheet: — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFGlas® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFGlas® #80 Ultima™ Base Sheet" or "GAFGlas® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Ply Sheet (Optional): — One or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6", "GAFGlas Ply 4 M", "GAFGlas FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt or mechanically fastened.

Membrane: — Two or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" or three or more plies Type G1 "GAFGlas® Ply 4" or "Tri-Ply® Ply 4" or "GAFGlas® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of

12-in., applied parallel to the incline of the roof.

14. Deck: NC

Incline: 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal.

14a. Deck: NC

Incline: 1/2

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal/100-ft.².

15. Deck: NC

Incline: 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback", "EverGuard® PVC XK", "EverGuard® PVC Smooth" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at rate of 120-ft.²/gal.

16. Deck: C-15/32

Incline: 4

Barrier Board: — Minimum. 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with all butt joints staggered a minimum of 6-in. from the plywood butt joints; staggered joints not required for noncombustible roof decks, mechanically fastened.

Membrane: — "EverGuard® PVC XK" or "EverGuard® PVC Smooth" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.

17. Deck: C-15/32

Incline: 1/2

Barrier Board: — Minimum. 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum board mechanically fastened with insulation fasteners, with the barrier board butt joints staggered a minimum of 6-in. from butt joints in plywood roof deck.

Insulation: — "EnergyGuard™" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or "EnergyGuard™ RF" or 3/4-in. thick minimum wood fiberboard over EPS.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive" or "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.².

18. Deck: C-15/32

Incline: 2

Barrier Board: — Minimum. 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum board, mechanically fastened with insulation fasteners, with the barrier board butt joints staggered a minimum of 6-in. from butt joints of plywood roof.

Insulation: — 3/4-in. thick minimum wood fiberboard over EPS.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK", or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

19. Deck: NC

Incline: 1/2

Insulation: — "EnergyGuard™" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or "EnergyGuard™ RF" or 3/4-in. thick minimum wood fiberboard over EPS.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive" or "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.².

20. Deck: NC

Incline: 1

Insulation (Optional): — Polystyrene or polyisocyanurate, any thickness.

Barrier Board: — Minimum 15/32-in. thick plywood or 7/16-in. thick oriented strand board.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

21. Deck: C-15/32

Incline: 3

Insulation (Optional): — Any UL Classified (except EPS), any thickness, uniform or tapered.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with the butt joints of barrier board staggered a minimum of 6-in. from the plywood deck butt joints.

Membrane: — "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

22. Deck: NC

Incline: 1

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum wallboard, mechanically fastened.

Slip Sheet (Optional): — "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.² or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

23. Deck: NC

Incline: 3/4

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum wallboard, mechanically fastened.

Slip Sheet (Optional): — "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback", "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt.

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

24. Deck: C-15/32

Incline: 1-1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

25. Deck: C-15/32

Incline: 1

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal.

25a. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with or "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.².

26. **Deck:** C-15/32

Incline: 2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — Any classified wood fiber board, any thickness.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

27. **Deck:** C-15/32

Incline: 2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive", applied at a rate of 0.83-gal./100-ft.² or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

28. **Deck:** C-15/32

Incline: 3/4

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal. "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.

29. **Deck:** Structural Cement Fiber Unit

Incline: 1

Insulation (Optional): — One or more of the following or combinations, any thickness: "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

30. Deck: NC

Incline: 1

Vapor Retarders (Optional, not UL Classified): — 6-mil polyethylene or Kraft or Kraft laminate.

Insulation: — One or more of the following or combinations, mechanically fastened, any thickness: "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

31. Deck: C-15/32

Incline: 1

Barrier Board: — Minimum 1/2-in. thick gypsum wallboard or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with all butt joints staggered a minimum of 6-in. from the plywood deck butt joints.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M".

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

32. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE" or "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal. or "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.²; or "EverGuard® PVC", "EverGuard® PVC

Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback", "EverGuard® PVC XK", "EverGuard® PVC Smooth" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at rate of 120-ft.²/gal.

33. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

34. Deck: C-15/32

Incline: 1/2

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal. or "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.²; or "EverGuard® PVC XK" or "EverGuard® PVC Smooth" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at rate of 120-ft.²/gal.

35. Deck: C-15/32

Incline: 1/2

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

36. Deck: NC

Incline: 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback" 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft.².

37. Deck: C-15/32

Incline: 1/2

Barrier Board: — Minimum. 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum board mechanically fastened with insulation fasteners, with the barrier board butt joints staggered a minimum of 6-in. from butt joints in plywood roof deck.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH

HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Insulation: — "EnergyGuard™" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ RM" or "EnergyGuard™ RF", any thickness.

Membrane: — "EverGuard® PVC", "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE", "EverGuard® PVC KEE Fleeceback", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

38. Deck: NC

Incline: 1

Insulation (Optional): — Polystyrene or polyisocyanurate, any thickness.

Barrier Board: — Minimum 15/32-in. thick plywood or 7/16-in. thick oriented strand board.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

39. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — Any UL Classified (except EPS), any thickness, uniform or tapered.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with the butt joints of barrier board staggered a minimum of 6-in. from the plywood deck butt joints.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

40. Deck: NC

Incline: 1

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum wallboard, mechanically fastened.

Slip Sheet (Optional): — "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

41. Deck: C-15/32

Incline: 1

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

42. **Deck:** C-15/32

Incline: 2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

43. **Deck:** C-15/32

Incline: 3/4

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

44. **Deck:** C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

45. **Deck:** C-15/32

Incline: 4

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with all butt joints in the barrier board products staggered a minimum of 12-in. from the plywood roof deck butt joints.

Membrane: — "EverGuard® PVC" or "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "FastLayn™ PVC Adhesive" spray applied at a rate of 0.4-gal./100-ft².

46. **Deck:** C-15/32

Incline: 1

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with all butt joints in the barrier board products staggered a minimum of 12-in. from the plywood roof deck butt joints.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "OlyBond Fastening System", or any UL Classified insulation adhesive, applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC" or "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "FastLayn™ PVC Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

47. Deck: NC

Incline: 1

Insulation: — "EnergyGuard™", "EnergyGuard™ Ultra", "EnergyGuard™ NH Ultra", "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN", "EnergyGuard™ NH", wood fiber, glass fiber, or perlite, any thickness.

Cover Board (optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck® Prime Roofboard", or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX); or minimum 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier", "EnergyGuard™ NH HD", or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE" or "EverGuard® PVC XK", 50-mil to 80-mil, fully adhered with "PVC Quick Spray Adhesive", applied at a rate of 1500-ft.² per 40-lbs. canister.

48. Deck: C-15/32

Incline: 1

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck® Prime Roofboard", or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board"; mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Insulation: — "EnergyGuard™", "EnergyGuard™ Ultra", "EnergyGuard™ NH Ultra", "EnergyGuard™ RA", or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN", "EnergyGuard™ NH" or 3/4-in. thick minimum wood fiberboard over EPS.

Cover Board (optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard", "DensDeck® Prime Roofboard", or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or minimum 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier", "EnergyGuard™ NH HD", or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation"; mechanically fastened or adhered with OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE" or "EverGuard® PVC XK", 50-mil to 80-mil, fully adhered with "PVC Quick Spray Adhesive", applied at a rate of 1500-ft.² per 40-lbs. canister.

49. Deck: NC

Incline: 4

Insulation (Optional, see note): — Any UL Classified, any thickness.

Barrier Board (Optional, see note): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck

Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — "EverGuard® PVC" or "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal.

Note: — A Barrier Board is required when insulation is present.

50. **Deck:** C-15/32

Incline: 4

Insulation (Optional): — Any UL Classified (Except EPS), any thickness.

Barrier Board: — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Membrane: — "EverGuard® PVC" or "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 60-ft.²/gal.

51. **Deck:** NC

Incline: 4

Insulation (Optional, see note): — Any UL Classified, any thickness.

Barrier Board (Optional, see note): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth", 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.².

Note: — A Barrier Board is required when insulation is present.

52. **Deck:** C-15/32

Incline: 4

Insulation (Optional): — Any UL Classified (Except EPS), any thickness.

Barrier Board: — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive, with butt joints in the barrier board products staggered a minimum of 6-in. from plywood deck joints.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth", 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive H", applied at a rate of 2-gal./100-ft.².

Class B - Fully Adhered

1. **Deck:** NC

Incline: 1

Base Sheet: — Type G3 "GAFLAS® Mineral Surfaced Cap Sheet" or "Tri-Ply® BUR Granule Cap Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback", 50-mil to 80-mil, mechanically fastened or fully adhered with hot roofing asphalt.

2. **Deleted.**

3. Deck: NC**Incline:** 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", any thickness.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

4. Deck: C-15/32**Incline:** 1-1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or on ply "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive", applied at a rate of 2-gal./100-ft.².

5. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback", 50-mil to 80-mil, mechanically fastened or fully adhered with hot roofing asphalt or "EverGuard® PVC", "EverGuard® PVC KEE" or "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, fully adhered with "EverGuard® #2331 Bonding Adhesive" applied at a rate of 2-gal./100-ft.².

6. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O" applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

7. Deck: C-15/32**Incline:** 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH

HD Plus" or minimum 1.5-in. thick "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", 50-mil to 80-mil, fully adhered with "EverGuard® PVC Quick Lay Adhesive", applied at a rate of 1-gal./100-ft².

Class C - Fully Adhered

1. Deck: C-15/32

Incline: 1-1/2

Barrier Board (Optional): — Minimum 1/2-in. thick gypsum wallboard or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", 1-1/2 in. thick minimum.

Cover Board (optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50-mil to 80-mil, mechanically fastened or fully adhered with hot roofing asphalt.

SINGLE PLY MEMBRANE ROOFING SYSTEMS (PVC)

Unless otherwise indicated, the "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" membranes are mechanically fastened to the deck with either a "SFS" or "Disc Cap" System. The PVC laps are solvent welded or hot air welded and a PVC sealant (not UL Classified) applied to the exposed seam (approximately 1/8-in. wide bead).

Class A - Mechanically Fastened

1. Deck: NC

Incline: 1-1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

2. Deck: NC

Incline: 1/2

Slip Sheet (Optional): — Any UL Classified Slip Sheet, mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", minimum 1-in. thick, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

3. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Minimum 1/2-in. thick gypsum board or Branch River Foam 1.0-ft.3 EPS maximum 1/2-in. thick, mechanically fastened with the butt joints in the insulation staggered a minimum of 6-in. with butt joints in plywood roof deck.

Slip Sheet (Optional when EPS is not used): — One ply Atlas Roofing Corp. "FR-50", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

4. Deck: C-15/32

Incline: 1/2

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with the butt joints in barrier board staggered a minimum of 6-in. from butt joints of plywood roof deck.

Insulation/Slip Sheet: — One of the following insulations, mechanically fastened:

a. Perlite/(Optional) One ply Atlas Roofing Corp. "FR-10".

b. "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", any thickness / One ply Atals Roofing Corp. "FR-10".

c. Dow Chemical "Styrofoam SM", any thickness / One ply Atlas Roofing Corp. "FR-10".

d. Polyisocyanurate, minimum 1-in. thick covered by perlite, minimum 3/4-in. thick / (Optional) One ply Atlas Roofing Corp. "FR-10".

e. BASF EPS, any thickness (uniform or tapered) covered with perlite, minimum 3/4-in. thick / (Optional) One ply Atlas Roofing Corp. "FR-10".

f. ARCO Chemical "ARCOR MB" or "ARCOR FM-1", minimum 1.6-in. thick.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

5. Deck: NC

Incline: 1

Insulation: — Polystyrene (uniform thickness or tapered), any thickness covered with perlite, minimum 3/4-in. thick, mechanically fastened.

Slip Sheet (Optional): — One ply Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

6. Deck: NC

Incline: 1

Barrier Board (Optional): — Minimum 1/2-in.thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick

United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 3/4-in. thick perlite, mechanically fastened.

Insulation: — Dow Chemical "Styrofoam SM, RM, TG or Grayboard", minimum 1-in. thick, mechanically fastened.

Slip Sheet: — Atlas Roofing Corp. "FR-10" or minimum 3/4-in. thick perlite, with no slip-sheet, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

7. Deck: NC

Incline: 1/2

Insulation: — "EnergyGuard™ RM", minimum 1-in. thick, mechanically fastened.

Slip Sheet (Optional): — Any UL Classified, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

8. Deck: NC

Incline: 1

Insulation (Optional): — Polyisocyanurate, minimum 1-in. thick, mechanically fastened.

Insulation: — Perlite, minimum 3/4-in. thick, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

9. Deck: NC

Incline: 1

Insulation (Optional): — Polyisocyanurate, any thickness, mechanically fastened.

Insulation (Optional): — Polystyrene (uniform thickness or tapered), any thickness, mechanically fastened.

Barrier Board: — Minimum 3/4-in. thick perlite, mechanically fastened.

Slip Sheet (Optional): — Any UL Classified, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

10. Deck: C-15/32

Incline: 2

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with butt joints in barrier board staggered joints a minimum of 6-in. from butt joints in plywood roof deck.

Insulation: — Polyisocyanurate covered by minimum 3/4-in. thick perlite board, mechanically fastened.

Slip-sheet (Optional): — Any UL Classified, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

11. Deck: C-15/32

Incline: 2

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with the butt joints staggered a minimum of 6-in. from the butt joints of plywood roof deck.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

12. Deck: NC**Incline:** 1

Insulation: — Cellular concrete, gypsum concrete, vermiculite concrete, perlite concrete or structural concrete.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

13. Deck: NC**Incline:** 4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — One of the following or combinations of the following insulations any thickness, polyisocyanurate or polyisocyanurate/perlite composite or polyurethane/perlite composite or perlite or wood fiberboard or fiberglass, mechanically fastened.

Barrier Board: — 1/2-in. thick minimum Johns Manville International Inc. "Retro-Fit Board", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

14. Deck: NC**Incline:** 1

Insulation: — Polystyrene, any thickness, mechanically fastened.

Insulation (Optional if slip sheet is used): — Polyisocyanurate, minimum 1-in. thick, mechanically fastened.

Slip Sheet (Optional if polyisocyanurate is used): — One ply Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

15. Deck: NC**Incline:** 1

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Perlite, minimum 3/4-in. thick, mechanically fastened.

Slip Sheet (Optional): — Any UL Classified, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

16. Deck: NC**Incline:** 1

Insulation (Optional): — Polyisocyanurate, any thickness, mechanically fastened.

Insulation: — Polystyrene, any thickness (uniform or tapered), mechanically fastened.

Insulation (Optional if slip sheet is used): — Polyisocyanurate, minimum 1-in. thick, mechanically fastened.

Slip Sheet (Optional if polyisocyanurate is used): — One ply Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

17. Deck: C-15/32**Incline:** 4

Barrier Board: — Minimum 5/8-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", with the butt joints in barrier board staggered a minimum of 6-in. from the plywood roof deck joints, mechanically fastened.

Insulation (Optional): — Polyisocyanurate, any thickness, mechanically fastened.

Cover Board: — Minimum 1/2-in. thick Johns Manville International Inc. "Retro-Fit Board", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

18. **Deck:** Structural Cement-Fiber Unit*

Incline: 1

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", minimum 1-in. thick.

Slip Sheet (Optional): — Any UL Classified.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

* Minimum 2-in. thick, Classified under Structural Cement-Fiber Units (CIYT) Fire Resistance Directory.

19. **Deck:** Structural Cement-Fiber Unit*

Incline: 1/2

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

* Minimum 2-in. thick, Classified under Structural Cement-Fiber Units (CIYT) Fire Resistance Directory.

20. **Deck:** NC

Incline: 1-1/2

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", or Hunter Panels "H-shield", minimum 1-in. thick, mechanically fastened.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

21. **Deck:** NC

Incline: 1

Insulation (Optional): — Polyisocyanurate, polyurethane, minimum 1-in. thick, mechanically fastened.

Barrier Board: — Wood fiberboard, minimum 1/2-in. thick, mechanically fastened.

Slip Sheet (Optional): — One ply Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

22. **Deck:** NC

Incline: 4

Barrier Board (Optional): — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Insulation (Optional): — Polyisocyanurate, any thickness, mechanically fastened.

Barrier Board: — 1/2-in. thick minimum Johns Manville International Inc. "Retro-Fit Board", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

23. **Deck:** C-15/32

Incline: Unlimited

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or perlite or glass fiber or urethane or wood fiber or polystyrene or EPS or polyisocyanurate composite or urethane composite, mechanically fastened, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

24. Deck: C-15/32

Incline: 1/2

Slip Sheet: — Two plies Atlas Roofing Corp. "FR 50", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

25. Deck: NC

Incline: 1

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum wallboard, mechanically fastened.

Slip Sheet (Optional): — One ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — One ply Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

26. Deck: C-15/32

Incline: 1-1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

27. Deck: C-15/32

Incline: 1-1/2

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", polyisocyanurate, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

28. Deck: C-15/32

Incline: 2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM" polyisocyanurate, any thickness, or any classified wood fiber board, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

29. Deck: C-15/32**Incline:** 3/4**Slip Sheet:** — One ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.**Insulation (Optional):** — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM" polyisocyanurate, any thickness, mechanically fastened.**Membrane:** — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.**30. Deck:** C-15/32**Incline:** 2**Slip Sheet:** — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.**Insulation:** — Any UL Classified, any thickness (except EPS), mechanically fastened.**Membrane:** — Any UL Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification, but cannot exceed 2:12), mechanically fastened.**31. Deck:** C-15/32**Incline:** Unlimited**Slip Sheet:** — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.**Insulation (Optional):** — Any UL Classified, any thickness (except EPS and wood fiberboard), mechanically fastened.**Membrane:** — Any GAF Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification), mechanically fastened.**32. Deck:** NC**Incline:** 2**Insulation:** — Polystyrene or EPS or beadboard, any thickness, mechanically fastened.**Slip Sheet:** — One ply "VersaShield® Solo™ Fire Resistant Slipsheet" or "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.**Membrane:** — Any GAF Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification), mechanically fastened.**33. Deck:** NC**Incline:** 1-1/2**Barrier Board (Optional):** — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".**Insulation:** — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.**Cover Board:** — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.**Membrane:** — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.**34. Deck:** C-15/32**Incline:** 1/2**Insulation (Optional):** — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.**Insulation:** — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC" 45-mil to 80-mil mechanically fastened.

35. **Deck:** C-15/32

Incline: 1/2

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC" or "EverGuard® PVC KEE" 45-mil to 80-mil mechanically fastened.

Class B - Mechanically Fastened

1. **Deck:** C-15/32

Incline: 2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

2. **Deleted.**

3. **Deck:** NC

Incline: 2

Barrier Board: — For standing seam steel decks, 2-in. maximum perlite between the seams.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", any thickness, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

4. **Deck:** NC

Incline: Unlimited

Insulation: — Polyisocyanurate, any thickness, mechanically fastened.

Barrier Board: — 1/2-in. thick Johns Manville International Inc. "Retro-Fit Board", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

5. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One or more plies Atlas Roofing Corp. "FR-50", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

6. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — Two plies Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

7. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One ply Atlas Roofing Corp. "FR-50", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

8. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slipsheet" or "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

9. **Deck:** C-15/32

Incline: 2

Insulation: — Polystyrene or EPS or beadboard, any thickness, mechanically fastened.

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Membrane: — Any GAF Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification, but cannot exceed 2:12), mechanically fastened.

10. **Deck:** C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC" 45-mil to 80-mil mechanically fastened.

Class C - Mechanically Fastened

1. **Deck:** NC

Incline: 4

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ RF", 1-in. minimum, mechanically fastened.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50-mil to 80-mil, mechanically fastened.

SINGLE PLY MEMBRANE ROOFING SYSTEMS (TPO)

A vapor barrier may be optionally installed under all systems utilizing any polyisocyanurate insulation in the following systems.

"EnergyGuard™ Perlite" may be used as an option over any "EnergyGuard™" type insulation. "GAFGlas® Stratavent Perforated Base Sheet" may be utilized as an additional ply in any of the following systems.

Class A - Ballasted

1. **Deck:** NC

Incline: 2

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard Tapered™" or "EnergyGuard™ Foil-Faced" or Hunter Panels "H-shield", any thickness, laid loosely or mechanically fastened or fully adhered with hot roofing asphalt or adhered "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States

Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — Any UL Classified TPO single ply membrane, fully adhered or mechanically fastened or loose laid.

Surfacing: — No. 6 River bottom stone 3/4-in. to 1-1/2 in. diameter or concrete pavers spaced a maximum of 1/8-in. apart, applied at rate of 1000-lbs./100-ft.².

2. Deck: NC

Incline: 2

Insulation: — Polyisocyanurate EPS, wood fiber or perlite, adhered with "GAF LRF Adhesive XF" insulation adhesive dispensed as a nominal 1-inch diameter bead at a rate of 1 lin/ft per sq ft of insulation board.

Membrane: — Any UL Classified membrane, mechanically fastened, self-adhered, or loose laid.

Surfacing: — Minimum 400 lbs/100-ft² of roofing gravel or crushed stone or 300 lbs/100-ft² of crushed slag embedded in a flood coat of hot roofing coal tar pitch.

Class A - Fully Adhered

Unless otherwise indicated in the Certifications described below, "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" may only be used with gray, tan, white, "Energy Grey" and "Energy Tan" colored "EverGuard® TPO" or "EverGuard® Extreme™ TPO" membranes.

1. Deck: NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® TPO Bonding Adhesive", applied at a rate of 60-ft.²/gal.

2. Deck: NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal., or "FastLayn™ PVC Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

3. Deck: NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus", or minimum 1.5-in. thick "Ultra HD Composite Insulation" mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "FastLayn™ PVC Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

4. Deck: NC

Incline: 2-1/2

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

5. Deck: NC

Incline: 2-1/2

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with ITW-TACC "TACC 636", applied at a rate of 120-ft.²/gal. or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

6. Deck: NC

Incline: 1

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof or adhered with "GAF 2-Part Roofing Adhesive", spatter pattern (50% coverage).

7. Deck: NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Any UL Classified polyisocyanurate or wood fiber or glass fiber or perlite, any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part

Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6", "GAFLAS Ply 4 M", "GAFLAS FlexPly 6 M" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — One or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" or three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard® Extreme™ TPO FB Ultra" or "EverGuard® Extreme™ TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

8. Deck: C-15/32

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Any UL Classified polyisocyanurate, minimum 3-in. thick, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Base Sheet: — One or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — Two or more plies "RUBEROID® 20 Smooth" or "RUBEROID® Mop Smooth" or "RUBEROID® Mop Smooth 1.5" or "RUBEROID® Mop Plus Granule Smooth" or three or more plies Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6", fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard® Extreme® TPO FB Ultra" or "EverGuard® Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

9. Deck: NC

Incline: 3/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Wood fiber or glass fiber or perlite, 1/2-in. thick minimum, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard® Extreme® TPO FB Ultra" or "EverGuard® Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

10. Deck: NC**Incline:** 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Minimum 1/2-in. thick wood fiber over any UL Classified polyisocyanurate, any thickness.

Membrane: — "EverGuard® Freedom™ TPO HW" or "EverGuard® Extreme™ Freedom™ TPO HW" 50-mil to 80-mil, self-adhered.

11. Deck: NC**Incline:** 2

Membrane: — "EverGuard® Freedom™ TPO HW", 45-mil to 80-mil, self-adhered.

12. Deck: C-15/32**Incline:** 2-1/2

Insulation (Optional): — Any UL Classified, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX), mechanically fastened with all butt joints in the barrier board staggered a minimum of 6-in. from the butt joints in the plywood deck.

Membrane: — "EverGuard® Freedom™ TPO HW", 45-mil to 80-mil, self-adhered.

13. Deck: NC**Incline:** 1/4

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

14. Deleted.**15. Deck:** NC**Incline:** 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM", any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

16. Deck: C-15/32**Incline:** 1

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Base Sheet (Optional): — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Slip Sheet (Optional): — One ply "VersaShield® Solo™ Fire Resistant Slipsheet" or "VersaShield® Fire-Resistant Roof Deck Protection" or Atlas Roofing Corp. "FR-10" or "FR-50", mechanically fastened.

Slip Sheet: — One ply "StormSafe™" mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

17. Deck: NC

Incline: 1/4

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

18. Deck: NC

Incline: 1/4

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard® RH" or "EnergyGuard™ RM", any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

19. Deck: NC

Incline: 1

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or gypsum wallboard, mechanically fastened.

Slip Sheet (Optional): — One ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — EverGuard® TPO" 45-mil to 60-mil or "EverGuard Extreme® TPO" 50-mil to 60-mil, fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered or "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" 45-mil to 80-mil or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive" or ITW-TACC "TACC 636", applied at a rate of 120-ft.²/gal.

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

20. **Deck:** NC

Incline: 1-1/2

Primer (Optional): — One application "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1-gal./100-ft.².

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

21. **Deleted.**

22. **Deleted.**

23. **Deck:** NC

Incline: 3

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® Low VOC TPO Bonding Adhesive" or "EverGuard® TPO 6 Square Low VOC Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at 60-ft.²/gal.

24. **Deck:** C-15/32

Incline: 3

Insulation (Optional): — Any UL Classified insulation, any combination, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with all the butt joints staggered a minimum of 6-in. from the butt joints in the plywood deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® Low VOC TPO Bonding Adhesive" or "EverGuard® TPO 6 Square Low VOC Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at 60-ft.²/gal.

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42. **Deleted.**

43. **Deck:** NC

Incline: 1/2

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive O" or "LRF Adhesive M", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof, or adhered with OMG Inc. "OlyBond 500 Canister" applied in a spatter pattern (50% coverage).

44. Deck: C-15/32

Incline: 2-1/2

Insulation (Optional): — Polyisocyanurate, extruded or expanded polystyrene, any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Barrier Board: — Minimum 1/2-in. thick gypsum wallboard or minimum 1/4-in. Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with all the butt joints staggered a minimum of 6-in. from the butt joints in the plywood deck.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof, or adhered with OMG Inc. "OlyBond 500 Canister" applied in a spatter pattern (50% coverage).

45. Deck: C-15/32

Incline: 1/2

Barrier Board: — Minimum 1/2-in. thick gypsum wallboard or minimum 1/4-in. Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with all the butt joints staggered a minimum of 6-in. from the butt joints in the plywood deck.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — “EverGuard® TPO FB Ultra” or “EverGuard® TPO Fleece-Back Membrane” or “EverGuard® TPO Fleece-Back Membrane 100”, “EverGuard® TPO Fleece-Back Membrane 115”, or “EverGuard® TPO Fleece-Back Membrane 135” 45 to 80 mil, or “EverGuard Extreme® TPO FB Ultra” or “EverGuard Extreme® TPO Fleece-Back Membrane” 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with “LRF Adhesive M” or “LRF Adhesive O”, applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

46. **Deck:** NC

Incline: 1

Insulation (Optional): — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ RF” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RM” or Hunter Panels “H-shield”, or wood fiber or glass fiber or perlite, any thickness.

Cover Board: — 1/2-in. thick “EnergyGuard™ HD”, “EnergyGuard™ HD Plus”, “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH HD” or “EnergyGuard™ NH HD Plus” or minimum 1.5-in. thick “EnergyGuard™ Polyiso – HD Composite Insulation” or “Ultra HD Composite Insulation”, or 1/2-in. thick high density wood fiberboard or one ply “VersaShield® Fire-Resistant Roof Deck Protection”, mechanically fastened.

Slip Sheet: — One ply “StormSafe™”, mechanically fastened.

Membrane: — “EverGuard® Freedom™ TPO HW” 45-mil to 80-mil, self-adhered.

47. **Deleted.**

48. **Deck:** C-15/32

Incline: 1/4

Fire Barrier: — Two plies “VersaShield® Fire-Resistant Roof Deck Protection” or one ply “VersaShield® Solo™ Fire Resistant Slip Sheet” or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC “DensDeck® Roof Board” or “DensDeck® Prime Roof Board”; or 5/8-in. thick Georgia-Pacific Gypsum LLC “DensDeck Prime® STORMX™ Roofboard”; or minimum 1/4-in. thick United States Gypsum Co. “SECUROCK® Roof Board” (Type FRX-G) or “SECUROCK® Glass-Mat Roof Board” (Type SGMRX) or “SECUROCK UltraLight Coated Glass-Mat Roof Board” (Type SGMRX), mechanically fastened

Insulation: — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or wood fiber or glass fiber or perlite, any thickness.

Slip Sheet: — One ply “StormSafe™”, mechanically fastened.

Membrane: — “EverGuard® Freedom™ TPO HW” 45-mil to 80-mil, self-adhered.

49. **Deck:** C-15/32

Incline: 1/4

Primer: — “TOPCOAT® FireOut™ Fire Barrier Coating” or “FireOut™ Fire Barrier Coating” or “GAF FireOut™ Fire Barrier Coating”, applied at a rate of 1-gal./100-ft.².

Insulation: — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or wood fiber or glass fiber or perlite, any thickness.

Slip Sheet: — One ply “StormSafe™”, mechanically fastened.

Membrane: — “EverGuard® Freedom™ TPO HW” 45-mil to 80-mil, self-adhered.

50. **Deck:** C-15/32

Incline: 1-1/2

Insulation (Optional): — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or Hunter Panels “H-shield”, or wood fiber or glass fiber or perlite, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC “DensDeck® Roof Board” or “DensDeck® Prime Roof Board”; or 5/8-in. thick Georgia-Pacific Gypsum LLC “DensDeck Prime® STORMX™ Roofboard”; or minimum 1/4-in. thick United States Gypsum Co. “SECUROCK® Roof Board” (Type FRX-G) or “SECUROCK® Glass-Mat Roof Board” (Type SGMRX) or “SECUROCK UltraLight Coated Glass-Mat Roof Board” (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co “DEXcell Glass Mat Roof Board” or “DEXcellFA Glass Mat Roof Board”, mechanically fastened

Slip Sheet (Optional): — One ply “StormSafe™”, mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

51. **Deck:** C-15/32

Incline: 1-1/2

Fire Barrier: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slip Sheet"

Slip Sheet: — One ply "StormSafe™", mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

52. **Deck:** NC

Incline: 1/4

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM", any thickness.

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — "EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100 ft.².

53. **Deck:** C-15/32

Incline: 1/4

Insulation (Optional): — Any UL Classified, any thickness.

Barrier Board: — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" mechanically fastened or adhered with any UL Certified insulation adhesive with butt joints in the barrier board staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® Low VOC TPO Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

54. **Deck:** C-15/32

Incline: 1/4

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

55. **Deck:** C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — EverGuard® Freedom™ TPO HW" 45-mil to 80-mil self-adhered.

56. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil fully adhered with "EverGuard® H2O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

57. Deck: NC

Incline: 1/4

Insulation: — Minimum 3-in. thick "EnergyGuard™ Ultra", adhered with "LRF Adhesive M" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at a rate of 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

58. Deck: C-15/32

Incline: 1/2

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — EverGuard® Freedom™ TPO HW" 45-mil to 80-mil self-adhered.

59. Deck: C-15/32

Incline: 1/2

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — 45 to 80-mil thick "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100" or "EverGuard® TPO Fleece-Back Membrane 115" or "EverGuard® TPO Fleece-Back Membrane 135" or 50 to 80-mil thick "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane", fully adhered with "EverGuard® H2O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.; or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in. applied parallel to the incline of the roof; or adhered with OMG Inc. "OlyBond 500 Canister" applied in a spatter pattern (50% coverage); or fully adhered with hot roofing asphalt.

60. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil fully adhered with "EverGuard® H2O Bonding Adhesive" or "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal. or fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or with "EverGuard® TPO 3 Square Low VOC Bonding Adhesive 1168", applied at a rate of 60-ft.²/gal.; or fully adhered with "EverGuard® TPO Quick Spray Adhesive LV50" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 27-lb. canister) or "EverGuard® TPO Quick Spray Adhesive" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 30-lb. canister).

61. **Deck:** NC

Incline: 2-1/2

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.

62. **Deck:** C-15/32

Incline: 2-1/2

Insulation (Optional): — Any UL Classified, any thickness.

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened with all butt joints in the barrier board staggered a minimum of 6-in. from the butt joints in the plywood deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120-ft.²/gal.

63. **Deck:** NC

Incline: 2-1/2

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof or adhered with OMG Inc. "OlyBond 500 Canister" applied in a spatter pattern (50% coverage).

64. **Deck:** NC

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD" or "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil thick or "EverGuard Extreme® TPO" 50-mil to 80-mil thick, fully adhered with "EverGuard® TPO Quick Spray Adhesive LV50" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 27-lb. canister) or "EverGuard® TPO Quick Spray Adhesive" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 30-lb. canister).

65. **Deck:** NC

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM",

any thickness.

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil thick or "EverGuard Extreme® TPO" 50-mil to 80-mil thick, fully adhered with "EverGuard® TPO Quick Spray Adhesive LV50" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 27-lb. canister) or "EverGuard® TPO Quick Spray Adhesive" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 30-lb. canister).

66. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", or Hunter Panels "H-shield", any thickness.

Barrier Board: — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil thick or "EverGuard Extreme® TPO" 50-mil to 80-mil thick, fully adhered with "EverGuard® TPO Quick Spray Adhesive LV50" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 27-lb. canister) or "EverGuard® TPO Quick Spray Adhesive" spray applied in full coverage to both the membrane and insulation (approximately 1000-ft.² of installed coverage per 30-lb. canister).

67. Deck: C-15/32

Incline: 1/2

Barrier Board: — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — EverGuard® TPO" or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

68. Deck: C-15/32

Incline: 1/4

Barrier Board: — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any UL Classified insulation adhesive with all butt joints in the barrier board products staggered a minimum of 12-in. from the plywood roof deck butt joints.

Insulation: — "EnergyGuard™" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", any thickness, mechanically fastened or adhered with "LRF Adhesive M" or "TPO LRF Adhesive M Low Temp" or OMG Inc. "OlyBond Fastening System", or any UL Classified insulation adhesive, applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Barrier" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened, or adhered with "LRF Adhesive M", "TPO LRF Adhesive M Low Temp", OMG Inc. "OlyBond Fastening System" or any

UL Classified insulation adhesive.

Membrane: — "EverGuard® TPO" or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

69. Deck: NC

Incline: 1/4

Insulation: — "EnergyGuard™", "EnergyGuard™ NH", "EnergyGuard™ RF", "EnergyGuard™ Ultra", "EnergyGuard™ NH Ultra", "EnergyGuard™ RA", or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Barrier", "EnergyGuard™ HD Plus", "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — 60 to 80-mil thick "EverGuard® SA TPO", self-adhered.

70. Deck: NC

Incline: 1/4

Insulation (Optional): — "EnergyGuard™", "EnergyGuard™ NH", "EnergyGuard™ RF", "EnergyGuard™ Ultra", "EnergyGuard™ NH Ultra", "EnergyGuard™ RA", or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness.

Barrier Board (Optional): — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive.

Membrane: — 60 to 80-mil thick "EverGuard® SA TPO", self-adhered.

71. Deck: C-15/32

Incline: 1-1/2

Insulation (Optional): — "EnergyGuard™", "EnergyGuard™ NH", "EnergyGuard™ RF", "EnergyGuard™ Ultra", "EnergyGuard™ NH Ultra", "EnergyGuard™ RA", or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness.

Barrier Board: — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard"; or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with any UL Certified insulation adhesive with all butt joints in the barrier board products staggered a minimum of 6-in. from the plywood deck joints.

Membrane: — 45 to 80-mil thick "EverGuard® SA TPO", self-adhered.

72. Deck: C-15/32

Incline: 1/2

Barrier Board (Optional): One or more layers of any UL Classified barrier board, any thickness, loose laid, mechanically fastened, or adhered with UL Classified adhesive.

Vapor Barrier (Optional): One or more plies of any UL Classified vapor barrier, loose laid, self-adhered or mechanically fastened.

Insulation (Optional): One or more layers of any UL Classified polyisocyanurate insulation, any thickness, loose laid, mechanically fastened, or adhered with UL Classified adhesive.

Cover Board: Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcell FA Glass Mat Roof Board", mechanically fastened or adhered with UL Classified adhesive. The butt joints in the gypsum cover board are to be offset a minimum of 6-in. with the butt joints in the roof deck.

Base Sheet: "RUBEROID® 20 Smooth", adhered with H.B. Fuller Company "Millennium Hurricane Force® 1-Part Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Membrane: 60 to 80-mil thick "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane", 60-mil thick "EverGuard® TPO Fleece-Back Membrane 115" or 80-mil thick "EverGuard® TPO Fleece-Back Membrane 135", adhered with OMG INC "Olybond 500 (Canister application) applied in a spatter pattern (50% coverage).

73. Deck: NC

Incline: 1/2

Barrier Board (Optional): One or more layers of any UL Classified barrier board, any thickness, loose laid, mechanically fastened, or adhered with UL Classified adhesive.

Vapor Barrier (Optional): One or more plies of any UL Classified vapor barrier, loose laid, self-adhered or mechanically fastened.

Insulation (Optional): One or more layers of any UL Classified polyisocyanurate insulation, any thickness, loose laid, mechanically fastened, or adhered with UL Classified adhesive.

Cover Board: Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or

"SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcell FA Glass Mat Roof Board", mechanically fastened or adhered with UL Classified adhesive.

Base Sheet: "RUBEROID® 20 Smooth", adhered with H.B. Fuller Company "Millennium Hurricane Force® 1-Part Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Membrane: 60 to 80-mil thick "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane", 60-mil thick "EverGuard® TPO Fleece-Back Membrane 115" or 80-mil thick "EverGuard® TPO Fleece-Back Membrane 135", adhered with OMG INC "Olybond 500 (Canister application) applied in a spatter pattern (50% coverage).

74. **Deck:** NC

Incline: 1/2

Primer (Optional): H.B. Fuller Company "Millennium Universal Primer" (Not UL Classified), applied at a rate of 0.4 to 0.67-gal/100-ft.².

Base Sheet: "RUBEROID® 20 Smooth", adhered with H.B. Fuller Company "Millennium Hurricane Force® 1-Part Membrane Adhesive" applied at a rate of 1.5-gal./100-ft.².

Membrane: 60 to 80-mil thick "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane", 60-mil thick "EverGuard® TPO Fleece-Back Membrane 115" or 80-mil thick "EverGuard® TPO Fleece-Back Membrane 135", adhered with OMG INC "Olybond 500 (Canister application) applied in a spatter pattern (50% coverage).

75. **Deck:** C-15/32

Incline: 1

Insulation (Optional): — One or more layers of any UL Classified perlite, glass fiber, polystyrene (EPS or XPS) or polyisocyanurate insulation, any thickness, loose laid, mechanically fastened or adhered with UL Classified adhesive.

Barrier Board: — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with UL Classified adhesive. The butt joints in the gypsum cover board are to be offset a minimum of 6-in. with the butt joints in the roof deck.

Membrane: — 45 to 80-mil thick "EverGuard® TPO" or 50 to 80-mil thick "EverGuard Extreme® TPO", adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive", applied at a rate of 1.67-gal./100-ft.².

76. **Deck:** NC

Incline: 1

Insulation (Optional): — One or more layers of any UL Classified perlite, glass fiber, polystyrene (EPS or XPS) or polyisocyanurate insulation, any thickness, loose laid, mechanically fastened or adhered with UL Classified adhesive.

Barrier Board: — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX); or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or adhered with UL Classified adhesive.

Membrane: — 45 to 80-mil thick "EverGuard® TPO" or 50 to 80-mil thick "EverGuard Extreme® TPO", adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive", applied at a rate of 1.67-gal./100-ft.².

Class B - Fully Adhered

1. **Deck:** NC

Incline: 1/4

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — “EverGuard® TPO FB Ultra” or “EverGuard® TPO Fleece-Back Membrane” or “EverGuard® TPO Fleece-Back Membrane 100”, “EverGuard® TPO Fleece-Back Membrane 115”, or “EverGuard® TPO Fleece-Back Membrane 135” 45 to 80 mil, or “EverGuard Extreme® TPO FB Ultra” or “EverGuard Extreme® TPO Fleece-Back Membrane” 50-mil to 60-mil, fully adhered with “EverGuard® WB 181 Bonding Adhesive”, applied at a rate of 120-ft.²/gal.

2. Deck: C-15/32

Incline: 3

Barrier Board: — One or more layers of minimum 1/4-in. thick Georgia-Pacific Gypsum LLC “DensDeck® Roofboard” or “DensDeck® Prime Roofboard”; or minimum 1/4-in. thick United States Gypsum Co. “SECUROCK® Roof Board” (Type FRX-G) or “SECUROCK® Glass-Mat Roof Board” (Type SGMRX); or minimum 1/4-in. thick National Gypsum Co “DEXcell Glass Mat Roof Board” or “DEXcellFA Glass Mat Roof Board”, mechanically fastened or adhered with UL Classified adhesive.

Membrane: — 45 to 80-mil thick “EverGuard® TPO” or 50 to 80-mil thick “EverGuard Extreme® TPO”, adhered with “EverGuard® #1121 Bonding Adhesive” or “EverGuard TPO 1121 Bonding Adhesive” or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive”, applied at a rate of 1.67-gal./100-ft.².

3. Deck: NC

Incline: 2

Barrier Board (Optional): — One or more layers Georgia-Pacific Gypsum LLC “DensDeck® Roofboard” or “DensDeck® Prime Roofboard” or “DensDeck® DuraGuard™ Roofboard”; or 5/8-in. thick Georgia-Pacific Gypsum LLC “DensDeck Prime® STORMX™ Roofboard”; or minimum 1/4-in. thick, or United States Gypsum Co. “SECUROCK® Roof Board” (Type FRX-G) or “SECUROCK® Glass-Mat Roof Board” (Type SGMRX) or “SECUROCK UltraLight Coated Glass-Mat Roof Board” (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co “DEXcell Glass Mat Roof Board” or “DEXcellFA Glass Mat Roof Board”, minimum 1/4-in. thick.

Insulation (Optional): — Minimum 1/2-in. thick wood fiber over any UL Classified polyisocyanurate, any thickness.

Membrane: — “EverGuard® Freedom™ TPO HW” 45-mil to 80-mil, self-adhered.

4. Deck: NC

Incline: 1/2

Insulation: — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RF” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RN” or “EnergyGuard™ RM”, any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick “EnergyGuard™ HD”, “EnergyGuard™ HD Plus”, “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH HD” or “EnergyGuard™ NH HD Plus” or minimum 1.5-in. thick “EnergyGuard™ Polyiso – HD Composite Insulation” or “Ultra HD Composite Insulation”, mechanically fastened.

Membrane: — “EverGuard® TPO” 45-mil to 60-mil or “EverGuard Extreme® TPO” 50-mil to 60-mil, fully adhered with “EverGuard® #1121 Bonding Adhesive” or “EverGuard TPO 1121 Bonding Adhesive” or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive” applied at a rate of 60-ft.²/gal.

5. Deck: NC

Incline: 1/2

Insulation: — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RF” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ RM”, any thickness, any combination.

Cover Board (Optional): — 1/2-in. thick “EnergyGuard™ HD”, “EnergyGuard™ HD Plus”, “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH HD” or “EnergyGuard™ NH HD Plus” or minimum 1.5-in. thick “EnergyGuard™ Polyiso – HD Composite Insulation” or “Ultra HD Composite Insulation”, mechanically fastened.

Membrane: — “EverGuard® TPO” 45-mil to 60-mil or “EverGuard Extreme® TPO” 50-mil to 60-mil, fully adhered with “EverGuard® #1121 Bonding Adhesive” or “EverGuard TPO 1121 Bonding Adhesive” or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive” applied at a rate of 60-ft.²/gal.

6. Deck: C-15/32

Incline: 1/4

Insulation (Optional): — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RN” or Hunter Panels “H-shield”, or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or minimum 1/2-in. thick “EnergyGuard™ Barrier” or “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH Barrier” mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — “EverGuard® TPO FB Ultra” or “EverGuard® TPO Fleece-Back Membrane” or “EverGuard® TPO Fleece-Back Membrane 100”, “EverGuard® TPO Fleece-Back Membrane 115”, or “EverGuard® TPO Fleece-Back Membrane 135” 45 to 80 mil, or “EverGuard Extreme® TPO FB Ultra” or “EverGuard Extreme® TPO Fleece-Back Membrane” 50-mil to 60-mil fully adhered with “EverGuard® WB 181 Bonding Adhesive” applied at a rate of 120-ft.²/gal.

7. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RN” or Hunter Panels “H-shield”, or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or minimum 1/2-in. thick “EnergyGuard™ Barrier” or “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH Barrier” mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — “EverGuard® TPO” 45-mil to 60-mil or “EverGuard Extreme® TPO” 50-mil to 60-mil fully adhered with “EverGuard® #1121 Bonding Adhesive” or “EverGuard TPO 1121 Bonding Adhesive” or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive” applied at a rate of 60-ft.²/gal.

8. Deck: C-15/32

Incline: 1/2

Insulation (Optional): — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RN” or Hunter Panels “H-shield”, or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or minimum 1/2-in. thick “EnergyGuard™ Barrier” or “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH Barrier” mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — “EverGuard® TPO FB Ultra” or “EverGuard® TPO Fleece-Back Membrane” 45-mil to 80-mil or “EverGuard Extreme® TPO FB Ultra” or “EverGuard Extreme® TPO Fleece-Back Membrane” 50-mil to 80-mil, fully adhered with “EverGuard® H2O Bonding Adhesive” or “EverGuard® WB 181 Bonding Adhesive”, applied at a rate of 120-ft.²/gal. or adhered with “LRF Adhesive M” or “LRF Adhesive O”, applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

Class C - Fully Adhered

1. Deck: NC

Incline: 1/2

Insulation: — “EnergyGuard™” or “EnergyGuard™ NH” or “EnergyGuard™ Ultra” or “EnergyGuard™ NH Ultra” or “EnergyGuard™ RA” or “EnergyGuard™ RA Tapered” or “EnergyGuard™ RA Ultra” or “EnergyGuard™ RA Ultra Tapered” or “EnergyGuard™ RA HD” or “EnergyGuard™ RN” or “EnergyGuard™ RF” or “EnergyGuard™ RM” or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick “EnergyGuard™ HD”, “EnergyGuard™ HD Plus”, “EnergyGuard™ HD Barrier” or “EnergyGuard™ NH HD” or “EnergyGuard™ NH HD Plus” or minimum 1.5-in. thick “EnergyGuard™ Polyiso – HD Composite Insulation” or “Ultra HD Composite Insulation”, mechanically fastened

Membrane: — “EverGuard® TPO” 45-mil to 60-mil or “EverGuard Extreme® TPO” 50-mil to 60-mil, fully adhered with “EverGuard® #1121 Bonding Adhesive” or “EverGuard TPO 1121 Bonding Adhesive” or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive” applied at a rate of 60-ft.²/gal.

2. Deck: C-15/32

Incline: Unlimited

Base Sheet: — One ply “VersaShield® Fire-Resistant Roof Deck Protection”, mechanically fastened.

Membrane: — 45 to 80-mil thick “EverGuard® TPO FB Ultra” or “EverGuard® TPO Fleece-Back Membrane” or 50 to 80-mil thick “EverGuard Extreme® TPO FB Ultra” or “EverGuard Extreme® TPO Fleece-Back Membrane”, adhered with “EverGuard® WB 181 Bonding Adhesive”, applied at a rate of 0.83-gal./100-ft.²; or “EverGuard® TPO 3 Square Low VOC Bonding Adhesive” applied at a rate of 1.67-gal./100-ft.²; or 45 to 80-mil thick “EverGuard® Freedom™ TPO HW”, self-adhered.

3. Deck: NC

Incline: 1/4

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, fully adhered with "EverGuard® Low VOC TPO Bonding Adhesive" or "EverGuard® TPO 6 Square Low VOC Bonding Adhesive", applied at a rate of 120-ft.²/gal. or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive" applied at 60-ft.²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

4. Deck: C-15/32

Incline: 1/4

Insulation: — Minimum 3 in. thick "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or wood fiber or glass fiber or perlite, mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil fully adhered with "EverGuard® WB 181 Bonding Adhesive", applied at a rate of 120 ft²/gal. or fully adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive" or "EverGuard® TPO 3 Square Low VOC Bonding Adhesive", applied at a rate of 60 ft²/gal. or "FastLayn™ TPO Adhesive" spray applied at a rate of 0.4-gal./100-ft.².

5. Deck: C-15/32

Incline: 4

Base Sheet: — One ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Membrane: — 45 to 80-mil thick "EverGuard® TPO" or 50 to 80-mil thick "EverGuard Extreme® TPO", adhered with "EverGuard® #1121 Bonding Adhesive" or "EverGuard TPO 1121 Bonding Adhesive", applied at a rate of 1.67-gal./100-ft.².

SINGLE PLY MEMBRANE ROOFING SYSTEMS (TPO)

Class A - Mechanically Fastened

1. Deck: NC

Incline: 1/2

Barrier Board (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

2. Deck: NC

Incline: 2-1/2

Insulation (Optional, see note): — Any UL Classified, any thickness.

Barrier Board (Optional, see note): — Minimum 1/2-in. thick gypsum board or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or

minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Membrane: — "EverGuard® TPO" 45-mil to 60-mil or "EverGuard Extreme® TPO" 50-mil to 60-mil, mechanically fastened.

Note: — A Barrier Board is required when insulation is present.

3. Deleted.

4. Deck: NC

Incline: 1/2

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RF" "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, mechanically fastened.

5. Deck: C-15/32

Incline: 1/2

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Base Sheet (Optional): — One ply Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet", mechanically fastened.

Slip Sheet (Optional): — One ply "VersaShield® Solo™ Fire Resistant Slipsheet, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

6. Deck: NC

Incline: 1/2

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/2-in. thick gypsum wallboard or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Slip Sheet (Optional): — One ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Base Sheet (Optional): — One ply Type 15 or Type 30 or Type G1 "GAFLAS® Ply 4" or "Tri-Ply® Ply 4" or "GAFLAS® Flex Ply 6" or "Tri-Ply® Ultra-Flexible Ply 6" or Type G2 "GAFLAS® #75 Base Sheet" or "Tri-Ply® #75 Base Sheet" or "GAFLAS® #80 Ultima™ Base Sheet" or "GAFLAS® Stratavent® Nailable Venting Base Sheet" or "GAFLAS® Stratavent® Perforated Venting Base Sheet", mechanically fastened or fully adhered with hot roofing asphalt.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil or "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, mechanically fastened.

Surfacing: — United Solar Ovonic Field-Assembled Photovoltaic (Solar) Module Systems "PVL-29, -31, -58, -60, -62, -64, -68, -87, -93, -116, -120, -124, -128, -136", self-adhered.

7. Deck: C-15/32**Incline:** 1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, mechanically fastened.

8. Deck: C-15/32**Incline:** 1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra," or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness or any UL Classified wood fiber, mechanically fastened.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

9. Deck: C-15/32**Incline:** 3/4

Slip Sheet: — Two plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM", any thickness or any UL classified wood fiber board, mechanically fastened.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

10. Deck: C-15/32**Incline:** 1/2

Slip Sheet: — Two plies "VersaShield® Fire-Resistant Roof Deck Protection" or one ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM", any thickness or any UL classified wood fiber board, mechanically fastened.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

11. Deleted.**12. Deleted.****13. Deleted.****14. Deck:** C-15/32**Incline:** Unlimited

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Insulation: — Any UL Classified, any thickness, any combination, one or more layers (except EPS and wood fiberboard), mechanically fastened.

Membrane: — Any UL Classified GAF or Duro-Last Inc. mechanically fastened (membrane must be currently Certified for use over the insulation used. Actual incline is determined by the membrane/insulation Certification. This Certification is only for use with GAF or Duro-Last Inc. TPO membranes).

15. Deck: NC**Incline:** 2**Insulation:** — Polystyrene or EPS or beadboard, any thickness, mechanically fastened.**Slip Sheet:** — One ply "VersaShield® Fire-Resistant Roof Deck Protection" or two plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.**Membrane:** — Any GAF Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification), mechanically fastened.**16. Deleted.****17. Deleted.****18. Deck:** NC**Incline:** 2**Membrane:** — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, mechanically fastened.**19. Deck:** C-15/32**Incline:** 2-1/2**Slip Sheet:** — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet" mechanically fastened.**Membrane:** — 45 to 60-mil "EverGuard® TPO" or "EverGuard® Extreme® TPO" mechanically attached.**20. Deck:** C-15/32**Incline:** 3/4**Slip Sheet:** — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet" mechanically fastened.**Membrane:** — 80-mil "EverGuard® TPO" or "EverGuard® Extreme® TPO", mechanically attached.**21. Deck:** C-15/32**Incline:** Unlimited, See Note 1**Slip Sheet:** — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet" mechanically fastened.**Membrane:** — Any UL Certified GAF or Duro-Last Inc. TPO mechanically fastened

Note 1: Certification and maximum incline will be the same as that of the Certified GAF or Duro-Last Inc. Roofing System (TGFU) currently limited to noncombustible roof deck. This listing is only for use with GAF or Duro-Last Inc. TPO membranes.

22. Deck: C-15/32**Incline:** 1/2**Insulation (Optional):** — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.**Insulation:** — "Minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.**Membrane:** — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard® Extreme™ TPO" 50-mil to 80-mil mechanically fastened.**23. Deck:** C-15/32**Incline:** 1/2**Insulation (Optional):** — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.**Insulation:** — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.**Membrane:** — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard® Extreme™ TPO" 50-mil to 80-mil mechanically fastened.**24. Deck:** C-15/32**Incline:** 1/2

Base Sheet (Optional): — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet" self-adhered.

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier", any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

25. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Barrier", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened

26. **Deck:** C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RH" or "EnergyGuard™ RM" , or Hunter Panels "H-shield", any thickness.

Cover Board: — Minimum 1/2-in. thick "EnergyGuard™ HD Barrier", mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

Class B - Mechanically Fastened

1. **Deck:** NC

Incline: Unlimited

Membrane: — "EverGuard® TPO" 45-mil to 60-mil or "EverGuard Extreme® TPO" 50-mil to 60-mil, mechanically fastened.

2. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One or more plies of Atlas Roofing Corp. "FR-50", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

3. **Deleted.**

4. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One or more plies Atlas Roofing Corp. "FR-10", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

5. **Deck:** C-15/32

Incline: 3

Primer: — "TOPCOAT® FireOut™ Fire Barrier Coating" or "FireOut™ Fire Barrier Coating" or "GAF FireOut™ Fire Barrier Coating", applied at a rate of 1-gal./100-ft.².

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

6. **Deck:** C-15/32

Incline: 1/2

Slip Sheet: — One ply "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

7. **Deck:** C-15/32

Incline: 2

Insulation: — Polystyrene or EPS or beadboard, any thickness, mechanically fastened.

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened.

Membrane: — Any GAF Classified (membrane must be currently Classified for use over the insulation used. Actual incline is determined by the existing membrane/insulation Classification, but cannot exceed 2:12), mechanically fastened.

8. **Deck:** C-15/32

Incline: 1/2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RN" or Hunter Panels "H-shield", or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Insulation: — Minimum 1-1/2 in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened with butt joints in the insulation staggered a minimum of 12-in. from butt joints in plywood roof deck.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard® Extreme™ TPO" 50-mil to 80-mil mechanically fastened.

9. **Deck:** NC

Incline: 2

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ Ultra" or "Energy Guard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" polyisocyanurate or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

10. **Deck:** C-15/32

Incline: 2

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or "DensDeck DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum board mechanically fastened with all butt joints staggered a minimum of 6-in. from the plywood roof deck butt joints.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ Ultra" or "Energy Guard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" polyisocyanurate or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

11. **Deck:** C-15/32

Incline: 2

Base Sheet (Optional): — One ply "Liberty™ SBS Self-Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet" or "Ruberoid® SA Universal Base Sheet" self-adhered.

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ Barrier" or "EnergyGuard™ NH Barrier", any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

Class C - Mechanically Fastened

1. **Deck:** NC

Incline: Unlimited

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ Ultra" or "Energy Guard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" POLYISOCYANURATE or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

2. **Deck:** C-15/32

Incline: Unlimited

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or "DensDeck DuraGuard™ Roofboard" or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board" or minimum 1/2-in. thick gypsum board mechanically fastened with all butt joints staggered a minimum of 6-in. from the plywood roof deck butt joints.

Insulation (Optional): — "EnergyGuard™" or "EnergyGuard™ Ultra" or "Energy Guard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" polyisocyanurate or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

FLUID APPLIED COATING SYSTEMS

Class A

1. **Deck:** NC

Incline: Unlimited

Surfacing: — "Surface Seal SB Thermoplastic Rubber Coating" applied at a rate of 2-1/2 gal./100-ft.².

MAINTENANCE AND REPAIR SYSTEMS (PVC)

Class A

1. **Deck:** NC

Incline: 1/2

Existing Roof System: — Insulated or noninsulated cap sheet, smooth or gravel surfaced (loose gravel may be removed).

Barrier Board (Optional): — Minimum 1/2-in. thick plywood.

Insulation/Slip Sheet: — One of the following insulations or insulation/slip sheet combinations:

a. Perlite, any thickness / (optional) One ply Atlas Roofing Corp. "FR-10".

b. "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM", any thickness / One ply Atlas Roofing Corp. "FR-10".

c. Dow Chemical "Styrofoam SM", any thickness / One ply Atlas Roofing Corp. "FR-10".

d. BASF EPS (uniform or tapered), any thickness, covered with perlite (3/4-in. minimum) / (optional) One ply Atlas Roofing Corp. "FR-10".

e. ARCO Chemical "ARCOR MB" or "ARCOR FM-1", 1.6-in. minimum.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50 to 80-mil, mechanically fastened.

2. Deck: NC**Incline:** 1

Existing Roof System: — Insulated or non-insulated cap, sheet smooth or gravel surfaced (loose gravel may be removed).

Barrier Board (Optional): — Minimum 1/2-in. thick plywood or Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick, or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX), or minimum 1/4-in. thick or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ RM", mechanically fastened, any thickness.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" (PVC) 50 to 80-mil, mechanically fastened.

3. Deck: C-15/32**Incline:** 1

Existing Roof System: — Insulated or non-insulated cap sheet, smooth or gravel surfaced (loose gravel may be removed from noncombustible roof decks) or PVC roof system, covered with:

Barrier Board (Optional): — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard" or United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX); or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" (PVC) 50 to 80-mil, mechanically fastened.

Class B**1. Deck:** C-15/32**Incline:** 1

Existing Roof System: — Insulated or non-insulated cap sheet smooth or gravel surfaced (loose gravel may be removed from noncombustible roof decks) Class B to retain the existing Classification is covered with:

Barrier Board: — Minimum 1/2-in. thick Johns Manville International Inc. "Retro-Fit Board" or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or any other UL Classified foamed plastic insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50 to 80-mil, mechanically fastened or "fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

Class A, B or C**1. Deck:** C-15/32**Incline:** 1

Existing Roof System: — Class A, B or C insulated (any thickness wood fiber or perlite or polyisocyanurate or urethane or polystyrene with a slip sheet).

Polyester Fleece: — One ply 2.5-oz./yd.² (maximum) polyester fleece.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50 to 80-mil, mechanically fastened.

2. Deck: C-15/32

Incline: 1

Existing Roof System: — Class A, B or C insulated (any thickness wood fiber or perlite or polyisocyanurate or urethane or polystyrene with a slip sheet).

Polyester Fleece: — One layer 2.5-oz./yd.² (maximum) polyester fleece.

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50 to 80-mil, mechanically fastened.

3. Deck: C-15/32

Incline: 1

Existing System: — Class A, B or C built-up system, smooth surface, cap sheet or gravel surfaced, gravel to be maintained at 400-lbs./100-ft.² to retain existing Classification.

Slip Sheet: — One ply Altas Roofing Corp. "FR10" or "FR11".

Membrane: — "EverGuard® PVC", "EverGuard® PVC KEE", "EverGuard® PVC XK" or "EverGuard® PVC Smooth" 50 to 80-mil, mechanically fastened.

4. Deck: NC

Incline: 1

Existing Roof System: — Class A, B or C insulated or non-insulated roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to maintain the Class A, B or C rating covered with:

Barrier Board (Optional): — Minimum 1/2-in. thick plywood or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened.

Insulation: — Minimum 1-in. thick "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" 50 to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

5. Deck: C-15/32

Incline: 3

Existing Roof System: — Class A, B or C insulated or noninsulated roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to maintain the Class A, B or C rating covered with:

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Membrane: — "EverGuard® PVC Fleeceback", "EverGuard® PVC KEE Fleeceback" or "EverGuard® PVC XK Fleeceback" (PVC) 50 to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

MAINTENANCE AND REPAIR SYSTEMS (TPO)

Class A

1. Deck: NC

Incline: 1/2

Existing Roof System: — Class A, B or C insulated or noninsulated roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to maintain the Class A, B or C rating, covered with:

Barrier Board (Optional): — Minimum 1/2-in. thick plywood or minimum 1/2-in. thick Johns Manville International Inc. "Retro-Fit Board" or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or any other UL Classified foamed plastic insulation adhesive, applied per the manufacturer's installation instructions.

Insulation: — Minimum 1-in. thick "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RF" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RM" or minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or OMG Inc. "Olybond Fastening System", applied as a nominal 3/4-in. bead or "GAF 2-Part Roofing Adhesive", applied as a nominal 2-1/2 in. bead with a maximum on-center spacing of 12-in. or any UL Classified insulation adhesive, applied per the manufacturer's installation instructions.

Cover Board (Optional): — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", mechanically fastened.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof

2. Deck: C-15/32

Incline: 2-1/2

Existing Roof System: — Class A, B or C insulated or non-insulated roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to maintain the Class A, B or C rating covered with:

Barrier Board: — Minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or any other UL Classified foamed plastic insulation adhesive applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

Class B

1. Deck: C-15/32**Incline:** 1

Existing Roof System: — Insulated or non-insulated mineral surfaced cap sheet, smooth surfaced or gravel surfaced BUR (loose gravel may be removed from noncombustible roof decks) or PVC, TPO, Hypalon or EPDM polymeric single ply membrane Class B roof covering system to retain the existing classification is covered with:

Barrier Board: — Minimum 1/2-in. thick Johns Manville International Inc. "Retro-Fit Board" or minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board", mechanically fastened or fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or any other UL Classified foamed plastic insulation adhesive, applied per the manufacturer's installation instructions.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or adhered with "LRF Adhesive M" or "LRF Adhesive O", applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in., applied parallel to the incline of the roof.

MAINTENANCE AND REPAIR SYSTEMS

Unless otherwise indicated, these constructions are intended for installation over an existing Class A, B or C system.

Class A, B or C**1. Deleted.****2. Deleted.****3. Deleted.****4. Deleted.****5. Deleted.****6. Deck:** C-15/32**Incline:** 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 60-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened.

7. Deck: C-15/32**Incline:** 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 60-mil to 80-mil, fully adhered with "EverGuard® H₂O Bonding Adhesive" or "EverGuard WB 181 Bonding Adhesive" applied at a rate of 120-ft.²/gal., applied at a rate of 180-ft.²/gal.

8. Deck: C-15/32**Incline:** 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back

Membrane" 60-mil to 80-mil, fully adhered with ITW-TACC "TACC 636", applied at a rate of 120-ft.²/gal.

9. Deck: C-15/32

Incline: 3/4

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Wood fiber or glass fiber or perlite, 1/2-in. thick minimum or gypsum board.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened.

10. Deck: C-15/32

Incline: 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Wood fiber or glass fiber or perlite 1/2-in. thick minimum gypsum board, 1/2-in. thick minimum.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with "EverGuard® WB 181 Bonding Adhesive" or "EverGuard® H₂O Bonding Adhesive", applied at a rate of 120-ft.²/gal.

11. Deck: C-15/32

Incline: 1/2

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation: — Wood fiber or glass fiber or perlite 1/2-in. thick minimum or gypsum board.

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, fully adhered with ITW-TACC "TACC 636", applied at a rate of 120-ft.²/gal.

12. Deck: C-15/32

Incline: 2

Existing Roof System: — Class A, B or C insulated or noninsulated BUR cap sheet roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® FB Ultra" 60-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened.

13. Deck: C-15/32

Incline: 1

Existing Roof System: — Class A, B or C insulated or non-insulated BUR cap sheet or modified bitumen system to retain the existing Classification covered with:

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber, any thickness, fully adhered with hot roofing asphalt or mechanically fastened.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", or 1/2-in. thick high-density wood fiber-board or one ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Membrane: — "EverGuard® Freedom™ TPO HW" 45-mil to 80-mil, self-adhered.

14. Deck: C-15/32

Incline: 1-1/2

Existing Roof System: — Class A, B or C insulated or non-insulated BUR cap sheet or modified bitumen roof covering system to retain the existing Classification covered with:

Barrier Board (Optional): — One or more layers minimum 1/4-in. thick Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck® Prime Roofboard" or "DensDeck® DuraGuard™ Roofboard"; or 5/8-in. thick Georgia-Pacific Gypsum LLC "DensDeck Prime® STORMX™ Roofboard"; or minimum 1/4-in. thick United States Gypsum Co. "SECUROCK® Roof Board" (Type FRX-G) or "SECUROCK® Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK UltraLight Coated Glass-Mat Roof Board" (Type SGMRX) or minimum 1/4-in. thick National Gypsum Co "DEXcell Glass Mat Roof Board" or "DEXcellFA Glass Mat Roof Board".

Insulation (Optional): — Polyisocyanurate or wood fiber or perlite or glass fiber, any thickness, fully adhered with hot roofing asphalt or mechanically fastened.

Cover Board: — 1/2-in. thick "EnergyGuard™ HD", "EnergyGuard™ HD Plus", "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH HD" or "EnergyGuard™ NH HD Plus" or minimum 1.5-in. thick "EnergyGuard™ Polyiso – HD Composite Insulation" or "Ultra HD Composite Insulation", or 1/2-in. thick high-density wood fiber-board or one ply "VersaShield® Fire-Resistant Roof Deck Protection", mechanically fastened.

Slip Sheet (Optional): — One ply "StormSafe™", mechanically fastened.

Base Sheet: — One ply "Liberty™ SBS Self Adhering Base/Ply Sheet" or "RUBEROID® SA Base/Ply Sheet", self-adhered.

Membrane: — "RUBEROID® Torch Plus Granule FR" or "RUBEROID® HW Plus Granule FR", "RUBEROID® EnergyCap™ HW Plus Granule FR GR" or "RUBEROID® HW Granule FR" or "RUBEROID® EnergyCap™ HW Plus Granule FR" or "RUBEROID® HW Plus Granule" or "RUBEROID® HW Granule" or "RUBEROID® EnergyCap™ Torch Plus Granule FR", torch applied.

15. Deck: C-15/32

Incline: 2

Existing Roof System: — Class A, B or C insulated or non-insulated BUR cap sheet roof covering system to retain the existing Classification covered with:

Slip Sheet: — One ply 6-oz./yd.² polyester mat, loose laid.

Membrane: — "EverGuard® TPO" 60-mil to 80-mil or "EverGuard Extreme® TPO" 60-mil to 80-mil, mechanically fastened.

16. Deck: C-15/32

Incline: 1-1/2, see Note 1

Existing Roof System: — Any Class A, B or C built-up roof system, or any PVC or TPO single-ply membrane roofing systems.

Slip Sheet: — One or more plies "VersaShield® Solo™ Fire Resistant Slipsheet", mechanically fastened or loose laid.

Roof Covering: — Any GAF BUR system or GAF CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE polymeric single ply membrane system.

Note 1: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roof Covering System (TGFU) currently limited to noncombustible roof deck, but not to exceed inclines greater than 1-1/2:12.

17. Deleted.

18. Deleted.**19. Deck:** NC**Incline:** 1/2

Existing Roof System: — Class A, B or C insulated or non-insulated roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to retain the Class A, B or C rating covered with:

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

20. Deck: C-15/32**Incline:** 1/2

Existing Roof System: — Class A, B or C mechanically fastened or fully adhered insulated or non-insulated UL Classified EPDM, TPO, Hypalon, PVC, TPA or CPE single ply membrane or modified bitumen or mineral surfaced or gravel surfaced BUR roof covering system (for gravel surfaced BUR systems, gravel must be maintained) roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) to retain the existing Class A, B or C rating covered with:

Insulation: — "EnergyGuard™" or "EnergyGuard™ NH" or "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra" or "EnergyGuard™ RF" or "EnergyGuard™ RA" or "EnergyGuard™ RA Tapered" or "EnergyGuard™ RA Ultra" or "EnergyGuard™ RA Ultra Tapered" or "EnergyGuard™ RA HD" or "EnergyGuard™ RN" or "EnergyGuard™ RM" or "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier" or wood fiber or glass fiber or perlite, any thickness, mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

21. Deck: NC**Incline:** See Note 1

Existing Roof System: — Class A, B or C insulated or non-insulated TPO roof covering system to retain the Class A, B, or C rating covered with:

Membrane: — EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 50-mil to 80-mil, mechanically fastened.

22. Deck: C-15/32**Incline:** See Note 1

Existing Roof System: — Any Class A, B or C UL Classified EPDM, TPO, Hypalon, PVC, TPA, or CPE single ply membrane roof covering system, mechanically fastened or fully adhered, non-insulated or insulated, to retain existing Classification.

Surfacing: — "United Coatings™ Unisil HS-1 Roof Coating" applied at 1-1/2-gal/100-ft².

Note 1: Classification (A, B or C) and maximum incline will be the same as that of the Classified Roof Covering System (TGFU).

23. Deck: C-15/32**Incline:** 1/2

Existing Roof System: — Class A, B or C, insulated or non-insulated, APP or SBS modified bitumen membrane roof covering system or mineral surfaced cap sheet, smooth or gravel surfaced BUR roof covering system (for gravel surfaced BUR systems, loose gravel may be removed) or EPDM, Hypalon, TPO or PVC/TPA single ply membrane roof covering system to retain the existing rating covered with:

Insulation: — Minimum 1/2-in. thick "EnergyGuard™ Barrier" or "EnergyGuard™ HD Barrier" or "EnergyGuard™ NH Barrier", or minimum 3-in. thick "EnergyGuard™ Ultra" or "EnergyGuard™ NH Ultra", mechanically fastened.

Membrane: — "EverGuard® TPO" 45-mil to 80-mil or "EverGuard Extreme® TPO" 50-mil to 80-mil, mechanically fastened.

24. Deck: C-15/32**Incline:** 1

Existing Roof System: — Class A, B or C insulated or non-insulated BUR cap sheet roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra", "EverGuard® TPO Fleece-Back Membrane", "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® FB Ultra" 60-mil to 80-mil, fully adhered with hot roofing asphalt,

"LRF Adhesive O" or "LRF Adhesive M" applied as a nominal 3/4-in. diameter bead with a maximum on-center spacing of 12-in, OMG Inc "Olybond 500 Canister" applied in a spatter pattern (50% coverage), or mechanically fastened.

Class B

1. **Deleted.**
2. **Deleted.**
3. **Deleted.**
4. **Deleted.**
5. **Deleted.**
6. **Deleted.**
7. **Deleted.**

8. **Deck:** C-15/32

Incline: 3/4

Existing Roof System: — Class A, B or C roof covering system to retain the existing Classification covered with:

Membrane: — "EverGuard® TPO FB Ultra" or "EverGuard® TPO Fleece-Back Membrane" or "EverGuard® TPO Fleece-Back Membrane 100", "EverGuard® TPO Fleece-Back Membrane 115", or "EverGuard® TPO Fleece-Back Membrane 135" 45 to 80 mil, or "EverGuard Extreme® TPO FB Ultra" or "EverGuard Extreme® TPO Fleece-Back Membrane" 60-mil to 80-mil, fully adhered with hot roofing asphalt or mechanically fastened.

Class A

1. **Deck:** NC

Incline: Unlimited

Base Coat: — "TOPCOAT® Membrane Coating", "United Coatings™ Roof Mate™ TCM Roof Coating", "TOPCOAT® Membrane WOB" or "United Coatings™ Roof Mate™ WOB Coating" or "WOB Acrylic TopCoat®" applied at a rate of 1 to 1.5-gal./100-ft.².

Intermediate Coat (Optional): — TOPCOAT® Membrane Coating", "United Coatings™ Roof Mate™ TCM Roof Coating", "TOPCOAT® Membrane WOB" or "United Coatings™ Roof Mate™ WOB Coating" or "WOB Acrylic TopCoat®" applied at a rate of 1 to 1.5-gal./100-ft.².

Top Coat: — "TOPCOAT® Membrane Coating", "United Coatings™ Roof Mate™ TCM Roof Coating", "TOPCOAT® Membrane WOB" or "United Coatings™ Roof Mate™ WOB Coating" or "WOB Acrylic TopCoat®" applied at a rate of 1 to 1.5-gal./100-ft.².

2. **Deck:** NC

Incline: Unlimited

Coating: — "TOPCOAT® Membrane Coating", "United Coatings™ Roof Mate™ TCM Roof Coating", "TOPCOAT® Membrane WOB" or "United Coatings™ Roof Mate™ WOB Coating" or "WOB Acrylic TopCoat®" applied at a rate of 2 to 3-gal./100-ft.².

3. **Deck:** NC

Incline: 3

Primer (Optional): — "UniTile LV Sealer" (Not UL Classified) applied at a rate of 1/4 gal./100-ft.².

Base Coat: — "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1 to 1-1/2 gal./100-ft.².

Mid Coat (Optional): — One or two applications "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1 to 1-1/4 gal./100-ft.².

Top Coat: — "TOPCOAT® Surface Seal SB Coating" or "United Coatings™ Surface Seal SB Roof Coating" or "Surface Seal SB Roof Coating" or "GAF Surface Seal SB Roof Coating" applied at a rate of 1 to 1-1/4 gal./100-ft.².

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