RedGard® Waterproofing and Crack Prevention Membrane

1 Product Name

RedGard® Waterproofing and Crack Prevention Membrane

2 Manufacturer

Custom Building Products
Technical Services
10400 Pioneer Boulevard, Unit 3
Santa Fe Springs, CA 90670
Customer Support: 800-272-8786
Technical Services: 800-282-8786
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3 Product Description

RedGard® is a ready-to-use, rapid drying, liquid applied elastomeric, waterproofing and crack prevention membrane that does not require fabric in the field, coves or corners. It can be used for allinterior or exterior commercial, industrial and residential tile and stone installations. Easily applied with roller, trowel or sprayer producing a continuous water and moisture barrier with outstanding adhesion. Bonds directly to metal and drains of PVC, stainless steel and ABS. Reduces concrete moisture vapor transmission to protect moisture sensitive tile, stone and other flooring types.
RedGard meets ANSI A118.10 for waterproofing membranes and ANSI A118.12 High Performance (up to 1/8" (3 mm) for crack isolation membranes. Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413. Meets low perm requirements for steam room vapor barriers per ASTM E-96 Procedure E.

Key Features

- Ready to use - Quick dry formula
- Fabric not required
- Listed with IAPMO for use as a shower pan liner
- Elastomeric – Isolates cracks up to 1/8" (3mm)
- Meets steam shower requirements for low perm membrane
- Manages concrete moisture vapor emissions up to 12lbs / 85%RH
- Rated for Extra Heavy Service Conditions per TCNA/ASTM C627
- Flood test immediately after drying

Uses

- Interior surfaces / exterior concrete and masonry surfaces
- Shower pans, showers, tub surrounds
- Swimming pools, fountains, water features
- Spas, hot tubs, steam showers, steam rooms
- Industrial, commercial and residential applications
- Commercial /residential kitchens, food processing areas
- Exterior balconies and decks over occupied/unoccupied spaces
- Exterior facades



Suitable Substrates

- Concrete, cement mortar, masonry
- Cement Backerboard
- Post-Tension Concrete*
- Gypsum-based underlayment (min. 2000 psi compressive strength)
- Lightweight Concrete (min. 2000 psi compressive strength)
- Existing ceramic tile and resilient flooring
- Drywall (interior dry areas)
- Coated Glass Mat Water-Resistant Gypsum Backer Board
- APA/CANPLY rated EGP/Exterior Glue Plywood and OSB/Oriented Strand Board (interior, dry areas only for water protection and crack isolation applications)
- Bonds directly to metals*
- Floor heating systems*
- Pipe penetrations/transitions - PVC, ABS, copper, brass and stainless-steel (abrasion required)

* Deflection requirements and material selection can affect success of the tile assembly. Contact Custom Building Products Technical Services for cautions, limitations and recommendations.

Composition of Product

RedGard® is a liquid-applied elastomeric waterproofing material that cures to form a monolithic membrane.

Benefits of Product in the Installation

- Thin/low profile membrane, from 0.015–0.038" (0.4–0.96 mm) thickness after cure. (Thickness is determined by application)
- Easy to use and can be applied by roller, trowel or airless sprayer
- Reduces curing time with quick-dry formula
- Rated for extra heavy-duty service (TCNA/ASTM C627)
- Isolates cracks up to 1/8" (3 mm)
- Reduces efflorescence from substrates
- Meets Uniform Plumbing Code specifications for use as a shower pan liner IAPMO/File #4244 UPC®, ICC-ES ESR-1413
- GreenGuard Gold Certification # 135952-420
- LEED EQc 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- Non-flammable / No solvents

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Limitations to the Product

- Ambient and surface temperatures must be above 40°F (4°C) at time of installation and for 72 hours after application.
- Tile over membrane within 72 hours in exterior applications to avoid extended exposure to ultraviolet rays. Alternately, tent area or cover with sun blocking sheeting, or a flat application of high performance thinset mortar or apply a one-time additional coat of liquid prior to 72 hrs. to extend timeframe another 72hrs.
- Existing concrete slabs on-ground relative humidity levels ≤85%*
- Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- Use Crack Buster® Pro Crack Prevention Mat Underlayment to relocate tile joints over saw cuts/control joints in concrete slabs. Contact Technical Services for detailed instructions to accommodate waterproofing over concrete slab joints.*
- Do not use as an adhesive.
- Some glass tile manufacturers do not recommend use of a membrane behind their glass tile products.
- Do not use pre-mixed adhesives over membrane.
- Do not apply over unstable substrate conditions such as laitance, weak or powdery surfaces.
- Do not use over pressure treated wood surfaces.
- Do not use as a wear surface; the membrane must be covered with tile or other permanent flooring.
- Do not expose membrane to solvent-based materials.
- Compatible with water-based paints only.

*Contact Technical Services for other conditions not listed and/or additional information.

Packaging

- 1-gallon (3.78 L) pail
- 3.5-gallon (13.2 L) pail

4 Technical Data Applicable Standards

Material Standards

- Exceeds American National Standards Institute/ANSI A118.10 Load Bearing, Bonded, Waterproofing Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- Exceeds American National Standards Institute/ANSI A118.12 Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
- ASTM D638 Standard Test Method for Tensile Properties of Plastics ASTM E-96 Standard Test Methods for Water Vapor Transmission of Materials/Method E
- Conforms to Wisconsin's performance requirements for "safing material" as established by Comm. 84.30 (6)(f) of the Wisconsin Administrative Code; CA Section 01350 and passes CDPH V1.2-2017.
- Uniform Plumbing Code specifications for use as a shower pan liner.Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413

Installation Standards

- American National Standards Institute (ANSI) ANSI A108.01, A108.02, A108.13 , A108.17
- Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, includes methods EJ171(movement joints), Methods F125 & F125A for crack isolation and crack transference protection
- Meets/exceeds requirements as listed in Specifications Guide 09 30 00 Tile Installation Manual published by the Terrazzo, Tile & Marble Association of Canada/TTMAC Approvals

Approvals

RedGard® has tested and complies with Uniform Plumbing Code and International Plumbing Code standards for use as a shower pan liner per IAPMO Research and Testing, Inc., File No. 4244. RedGard® has tested and complies with International Building Code (IBC), International Residential Code (IRC) and International Plumbing Code (IPC) standards for water resistance per ICC Evaluation Service, ESR-1413. RedGard® conforms to "safing material" requirements established by the Wisconsin Administrative Code, Chapter Comm 84.30-6f.

- GREENGUARD Gold Certificate # 135952-420
- LEED EQc4.1 & 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- ASTM C627 (Robinson) for extra heavy service rating
- ASTM E-96 Method E, meeting requirements of <0.5 perms
- Los Angeles Department of Building and Safety - per LAMC 98.0502

ICC ES PMG · UPC · GREENGUARD

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Technical Chart

Property	Test Method	Requirement	Typical Results
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs. per 1" >16 lbs. per 2"	>16 lbs. per 2"
Breaking Strength	A118.10 Section 4.3	> 170 psi	484 psi (34kg/cm²)
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	0.05%
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass at 25 mils dry
Steam Shower Requirement	ASTM E-96 Method E	< 0.5 perms	0.35 perms at 30 mils dry
Shear Bond Strength to Cement Mortar			
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi	267 psi (18.8 kg/cm²)
Strength After Water Immersion	A118.10 Section 5.4	> 50 psi	89 psi (6.3 kg/cm²)
System Crack Resistance			
Standard Performance	A118.12 Section 5.4	> 1/16" and < 1/8"	Pass at 30mils dry
High Performance	A118.12 Section 5.4	> 1/8"	Pass at 30mils dry
Point Load	A118.12 Section 5.2	> 1000 lbs.	> 1000 psi
Robinson Test ASTM C627	A118.12 Section 5.3	As Specified	14 Cycles; Extra Heavy
VOC Test Results			
VOC Content	EPA Method 24	SQAQMD Rule 113/CARB SCM 2019 (<100 g/L)	<5 g/L (0% CARB VOC)
VOC Emissions	Complies with CA Section 01350 & CDPH V1.2-2017		Compliant (TVOC= 0.5 mg/m3 or less

Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute to LEED® certification.

5 Instructions

General Surface Prep

WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection when handling product.

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter.

Concrete must be fully cured and have an effective under-slab vapor retarder/barrier. Any existing flooring must bewell bonded and stripped of old finish. All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

Exterior and wet areas must have proper sloping to drains without divots that would affect drainage. All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a proper bond. Concrete must be troweled smooth but not burnished (highly polished) and cured for 28 days. Most existing surfaces are to be scarified and flattened and all defects must be repaired. Dormant cracks should be treated in accordance with TCNA F125 or TCNA F125A methods.

Concrete and Masonry Surfaces

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter. Concrete must be fully cured and have an effective underslab vapor retarder/barrier. Any existing flooring must be well bonded and stripped of old finish.

All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

Bonding to Lightweight Cement and Gypsum Surfaces

Lightweight or gypsum-based materials must obtain a minimum of 2000 psi (13.8 MPa) compressive strength at the recommended cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces to be covered must be clean, structurally sound and subject to deflection not to exceed the current ANSI standards. Expansion joints must be installed in accordance with local building codes and ANSI/TCNA guidelines.

Prime all surfaces to receive RedGard® with properly applied manufacturer's sealer or with a primer coat of RedGard®, consisting of 1-part RedGard®, diluted with 4 parts clean, cool water. In a clean pail, mix at low speed (≤300rpm). Apply the diluted mixture using a clean, fine head bristle broom to scrub in the primer solution at a rate of 300 ft/gallon (7.5 M/L). Keep the surface of the substrate wet for at 3-5 minutes during application to ensure adequate and even distribution / penetration of primer coat. Allow primer coat to dry, then apply at least one coat of "undiluted" RedGard® before adhering tile, floor patch or other flooring material applications. See Coverage Section for square foot rates by application.

RedGard® as a Vapor Barrier

When used as a vapor barrier over concrete, apply one full coat (70 sq. ft. per gallon)where vapor transmission is up to 8 lbs. per 1000 sq. ft per day and two full coats (70 sq. ft. per gallon each coat) where vapor transmission is up to 12 lbs. per 1000 sq. ft. per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.

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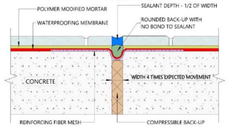
RedGard® Waterproofing and Crack Prevention Membrane

Movement Joint Placement

All tile assemblies, including those using Porcelain tiles, expand and contract with temperature changes and/or exposure to moisture and are subject to movement by the underlying structure due to live and dead loads. For these reasons, do not bridge joints with tile when they are designed to experience movement. Carry these types of joints from the substrate through the tile in locations, widths and frequency recommended by the Tile Council of North America (TCNA) or Terrazzo, Tile & Marble Association of Canada (TTMAC).
Follow ASTM C1193 guidelines using CUSTOM® Commercial100% Silicone Sealant or other suitable sealant applying the sealant as flush as possible with the tile edges.

RedGard® can be used to waterproof movement joints using proper methods incorporating suitable sealant and other industry approved expansion joint materials as illustrated below. Assure that movement joints are free of debris and mortar and install using the appropriate specified method.

CEJ171 W - Expansion Joint



See CUSTOM® details at links below or on our website for reference:

CEJ 171 W - Expansion Joint
CEJ 171 AW - Construction Joint
CEJ 171 BW - Contraction Joint
CEJ 171 CW - Expansion Joint
CEJ 171 DW - Isolation -Expansion Joint
CEJ 171 EW - Expansion Joint, Cement Mortar, Bonded
CEJ 171 FW - Generic Movement Joint
CEJ 171 GW - Perimeter Joint
CEJ 171 HW - Expansion Joint, Cement Mortar, Cleavage Membrane
CEJ 171 IW - Perimeter Joint
CEJ 171 IW - Perimeter Movement Joints
CEJ 171 KW - Movement Joint in Tile and Backerboard
CEJ 171 LW - Generic Movement Joint with Backerboard
CEJ 171 GCW - Generic Movement Joint Concrete or Masonry Wall
CEJ 171 ECW - Expansion Joint – Concrete or Masonry Wall
CEJ 171 NMW - Movement Joint – Reinforced Mortar Bed
CEJ 171 BMW - Movement Joint – Bonded Mortar Bed
CEJ 171 SJBW – Steam Shower/Room Slip Joint- Cement Backerboard Unit
CEJ 171 SJMW – Steam Shower/Room Slip Joint- Reinforced Mortar Bed
CEJ 171 WPM - Waterproofing Movement Joint Details - Combined

Application of Product

For all applications, use RedGard®, a thinset mortar or suitable patch to fill cracks to 1/8" (3 mm) before applying RedGard® liquid. In high temperatures, windy conditions and when applying over very porous substrates, lightly dampen the surface or use a diluted mixture of RedGard® as a primer coat prior to the normal application. In a separate container, dilute1-part RedGard® with 4 parts water and mix until well blended. Use either a paint brush, a 3/8" (10 mm) rough-textured, synthetic roller or airless sprayer to apply the primer coat to the entire area to be waterproofed. The membrane appearance is pink when wet and dries to a dark red color. It typically takes 1-1.5 hours to turn completely red. After the first coat turns red, inspect the film for integrity and fill any voids or pinholes with additional material and apply second coat. RedGard® as a Waterproof Membrane

Coat corners and intersections of the floors and walls, extending >2" (5 cm) on either side with RedGard® liquid using either a paint brush, a 3/8"(10 mm) rough-textured, synthetic roller or a 3/16"-1/4" (56 mm) V-notch trowel. For extra seam protection, embed CUSTOM® Waterproofing Reinforcing Tape into the liquid for changes of plane and over gaps >1/8" (>3mm). Allow these areas to dry before re-applying.

For general waterproofing, apply RedGard® at a rate or 110 sq. ft per gallon in each coat. NOTE: A minimum of two coats is required when using a roller or brush to assure that continuous coverage is achieved. If using a roller, apply a continuous, even film with overlapping strokes. Apply the second coat at right angles to the first coat for best results. When using a trowel, spread the liquid with the trowel held at a >30° angle, and then flatten the ridges. Over a solid wall surface, a minimum 15 mils thickness is required above a tub surround or shower floor cove. The membrane appearance is pink when wet and dries to a dark red color. It typically takes 1-1.5 hours to turn completely red. After the first coat turns red, inspect the film for integrity and fill any voids or pinholes with additional material and apply second coat.

To meet the waterproofing requirements of ANSI A118.10 and IAMPO, two coats should be applied at a rate of 80 sq. ft. per gallon each coat. In all cases, the wet film thickness of any coat should not exceed 40mils.

An airless sprayer may be used for the waterproofing application. The sprayer must produce between 1900 - 2300 psi, with a flow rate of 1.0 - 1.5 GPM and must have a tip orifice size of 0.025 - 0.029.
See CUSTOMTechnical Bulletin TB35 for instructions.

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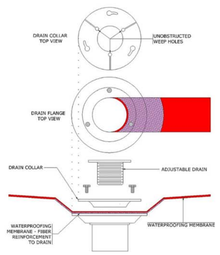
RedGard® Waterproofing and Crack Prevention Membrane

RedGard® at Drains

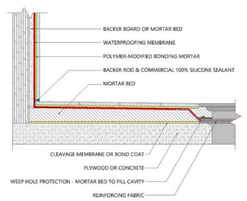
Drains are to be securely fastened to prevent movement. Prior to applying RedGard®, substrate is to be properly sloped toward drain flange. Remove any contaminants on drain flange that might inhibit bonding and protect threaded bolt holes with tape or inserting bolts before applying liquid.

Cut and fit pieces of reinforcing fabric (approximately 3" long.) to contour and encompass drain flange. Apply a coat of RedGard® overlapping transition from substrate or mortar bed to drain flange using a brush. Embed reinforcing fabric into RedGard® liquid. Overlap saturated fabric and use the brush to keep it flat. Continue applying RedGard® to adjacent areas designated to be waterproofed. Allow first application of RedGard® to dry, then recoat all areas to create a monolithic membrane. After final coat is dry, clamp collar to membrane and tighten.

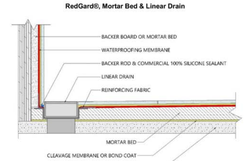
RedGard® Circular Drain Assembly Detail



RedGard®, Mortar Bed & Circular Drain (CB421)



RedGard®, Mortar Bed & Linear Drain



NOTE: Download the illustrated installation details referenced aboveby clicking on the links above or go to Custom Building Products.com/TSD.

- RedGard® - Circular Drain Assembly Detail
- RedGard® - Mortar Bed & Circular Drain (CB421)
- RedGard® - Mortar Bed & Linear Drain

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RedGard® Waterproofing and Crack Prevention Membrane

RedGard® as a Crack Prevention Membrane

RedGard® can be applied using either a V-notched trowel, a 3/8" (9.5 mm) rough textured roller, or a bristle brush. Fill non-structural cracks using either RedGard®, thinset mortar or patch. Then apply RedGard liquid at least 6" beyond any tile that will be bridging the crack. When using a notched trowel, immediately use the flat side and flatten the ridges to form a continuous, even coat of material.

For continuous general crack isolation, cover the entire substrate with one coat of RedGard® applied at a rate of 100 sq. ft. per gallon.

To meet specification requirements for ANSI A118.12, apply two coats of RedGard at a rate of 50 sq. ft. per gallon per coat.

NOTE: Cracks ≥1/8" or displaying differential movement may be due to structural movement and should be assessed and/or treated by an appropriate structural engineer or consultant.

Curing of Product

RedGard® is dry when it turns solid red, with no visible pink color. Typically, drying time is 1-1.5 hours for each coat. After the second coat is applied and both coats are fully dry, the application area can be flood tested. Drying time can be extended to as much as 12 hours in conditions of very low surface and/or ambient temperatures and when applying in high humidity.

Protection

Maintain ambient and surface temperatures above 40°F (4°C) at time of installation and for 72 hours after application. Care should be taken to prevent the membrane from becoming contaminated by bond inhibiting materials, solvents or being punctured after application. Cover RedGard with tile, an additional coat of liquid, a flat application of mortar or UV blocking sheeting if not to be tiled within 72 hours when exposed to sunlight. Protect RedGard from water intrusion that could occur behind or beneath the applied membrane if drip edges and/or flashing is not in place at the time of application.

Tile and Stone Installation

Install tile or stone with a Custom® Building Products polymer-modified mortar that meets ANSI A118.4 or A118.15 standards based on application requirements.

Cleaning of Equipment

Clean tools and hands with water before the material dries. Clean all spray equipment immediately after use.

Health Precautions

IMPORTANT: Read carefully before using. WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection.

WARNING: EYE & SKIN IRRITANT. May be harmful if swallowed. Do not mix with other chemical products. Avoid contact witheyes and prolonged contact with skin. Do not breathe in vapors. Do not take internally. Immediately wash contaminated body and clothing thoroughly. Use in well-ventilated areas. Wear a NIOSH compliant vapor respirator, especially in poorly ventilated areas.

If eye or skin contact occurs:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately seek medical advice or attention if symptoms are significant or persist. In Emergency: 1-800-535-5053. **Contains: Styrene-butadiene polymer, limestone, and ammonium hydroxide.** Before handling read Safety Data Sheet at www.custombuildingproducts.com.

KEEP OUT OF REACH OF CHILDREN.

WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

6 Availability & Cost

Location	Item Code	Size	Color	Package
USA	LQWAF1	1 gallon (3.78 L)	Pink	Pail
USA	LQWAF3	3.5 gallon (13.2 L)	Pink	Pail
Canada	CLLQWAF1	1 gallon (3.78 L)	Pink	Pail
Canada	CLLQWAF3	3.5 gallon (13.2 L)	Pink	Pail

7 Product Warranty

Obtain the applicable **LIMITED PRODUCT WARRANTY** at www.custombuildingproducts.com/product-warranty or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA.

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When RedGard® Waterproofing and Crack Prevention Membrane is used as a part of a qualifying full installation system of CUSTOM products, the installation can qualify for up to a lifetime system warranty. CUSTOM will repair and/or replace, at its discretion, the affected area of the system. For more information, find details and limitations to this warranty at custombuildingproducts.com.

8 Product Maintenance

Properly installed product requires no special maintenance. Do not use as a wear surface.

9 Handling & Storage

Protect from freezing. Store in a cool, dry area.

10 Technical Services Information

For technical assistance, contact Custom technical services at 800-272- 8786 or visit custombuildingproducts.com.

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Coverage

Size	Coverage
RedGard as Crack Prevention Membrane:	
1 Gallon (3.78 L)	100 sq. ft (9.3 M2)
3.5 Gallon (13.2 L)	350 sq. ft. (32.5 M2)
RedGard as Crack Prevention Membrane meeting ANSI A118.12	
1 Gallon (3.78 L)	25 sq. ft. (2.3 M2)
3.5 Gallon (13.2 L)	88 sq. ft. (8.2 M M2)
RedGard as Waterproof Membrane:	
1 Gallon (3.78 L)	55 sq. ft. (5.1 M2)
3.5 Gallon (13.2 L)	192 sq. ft. (17.8 M2)
RedGard as IAPMO Pan Liner meeting ANSI A118.10:	
1 Gallon (3.78 L)	40 sq. ft. (3.7 M2)
3.5 Gallon (13.2 L)	140 sq. ft. (13 M2)

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions.

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Under Tile Waterproofing System. (Or Approved Equal)
1 12" = 1'-0"

NOVUS Archetype
architecture / interior / planning

NOVUS Archetype, LLC
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PH: (305) 505-6910
email: julio@novusarchetype.com
AA26001460
Qualifier: Julio Pulido, AIA
License #: AR93904
Qualifier : Salvador Ben Mitrani, NCARB
License # : AR99606

STATE OF FLORIDA · JULIO PULIDO · AR93904 · REGISTERED ARCHITECT

Julio Pulido
Digitally signed by Julio Pulido
Date: 2023.05.11 10:44:22 -04'00'

Eva Vaccaro

2-Story Addition

12940 SW 63 Ave Pinecrest Fl 33156

No.	Description	Date

Project number	-
Date	12-20-2022
Drawn by	SM
Checked by	SM,JP

SHEET TITLE

Details & Specifications

SHEET No.

A710