



CERTIFICATION



Approved. Sealed. Code Compliant.

Technical Evaluation Report

TER 1212-03

**Rmax® ECOMAXci® FR Air Barrier
and EVOMAXci™**

Rmax®

Product:

**Rmax® ECOMAXci® FR Air Barrier
Rmax® EVOMAXci™**

Issue Date:

July 2, 2013

Revision Date:

October 26, 2022

Subject to Renewal:

October 1, 2023



COMPANY
INFORMATION:

Rmax®
2075 Midway Rd
Lewisville, TX 75056-9540

972-850-3604

technical@rmax.com

rmax.com

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

SECTION: 06 16 00 - Sheathing

SECTION: 06 16 13 - Insulated Sheathing

SECTION: 06 16 53 - Moisture-Resistant Sheathing Board

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION

SECTION: 07 20 00 - Thermal Protection

SECTION: 07 21 00 - Thermal Insulation

SECTION: 07 21 13 - Foam Board Insulation

SECTION: 07 25 00 - Water-Resistive Barriers/Weather Barriers

SECTION: 07 27 00 - Air Barriers

SECTION: 07 27 23 - Board Product Air Barriers

1 Products Evaluated¹

- 1.1 Rmax® ECOMAXci® FR Air Barrier
Rmax® EVOMAXci™

2 Applicable Codes and Standards^{2,3}

2.1 Codes

- 2.1.1 *IBC—15, 18, 21: International Building Code®*
- 2.1.2 *IRC—15, 18, 21: International Residential Code®*
- 2.1.3 *IECC—15, 18, 21: International Energy Conservation Code®*
- 2.1.4 *CBC—16, 19: California Building Code (Title 24, Part 2)⁴*

¹ For more information, visit drjcertification.org or call us at 608-310-6748.

² Unless otherwise noted, all references in this TER are from the 2021 version of the IBC, IRC, IECC and the standards referenced therein. This material, design, or method of construction also complies with the 2000-2018 versions of the referenced codes and the standards referenced therein.

³ All terms defined in the applicable building codes are italicized.

⁴ All references to the *CBC* and *CRC* are the same as the 2018 *IBC* and 2018 *IRC* unless otherwise noted in the California Supplement at the end of this TER.

- 2.1.5 *CRC—16, 19: California Residential Code (Title 24, Part 2.5)⁴*
- 2.1.6 *FBC-B—17, 20: Florida Building Code – Building⁵*
- 2.1.7 *FBC-R—17, 20: Florida Building Code – Residential⁵*
- 2.1.8 *BCNYS – 20: Building Code of New York State⁶*
- 2.1.9 *RCNYS – 20: Residential Code of New York State⁶*
- 2.1.10 *ECCNYS – 20: Energy Conservation Code of New York State⁶*
- 2.2 *Standards and Referenced Documents*
 - 2.2.1 *AATCC TM127: Test Method 127 Water Resistance: Hydrostatic Pressure Test*
 - 2.2.2 *ASTM C209: Standard Test Methods for Cellulosic Fiber Insulating Board*
 - 2.2.3 *ASTM C272: Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions*
 - 2.2.4 *ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*
 - 2.2.5 *ASTM C1289: Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board*
 - 2.2.6 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*
 - 2.2.7 *ASTM E96: Standard Test Methods for Water Vapor Transmission of Materials*
 - 2.2.8 *ASTM E119: Standard Test Methods for Fire Tests of Building Construction and Materials*
 - 2.2.9 *ASTM E136: Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*
 - 2.2.10 *ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*
 - 2.2.11 *ASTM E1354: Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter*
 - 2.2.12 *ASTM E2178: Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials*
 - 2.2.13 *ASTM E2357: Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies*
 - 2.2.14 *CAN/ULC-S742: Standard for Air Barrier Assemblies – Specification*
 - 2.2.15 *NFPA 259: Standard Test Method for Potential Heat of Building Materials*
 - 2.2.16 *NFPA 285-12: Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Nonload-bearing Wall Assemblies Containing Combustible Components⁷*
 - 2.2.17 *NFPA 286: Standard Methods of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth*
 - 2.2.18 *UL 263: Standard for Fire Tests of Building Construction and Materials*

⁴ All references to the *FBC-B* and *FBC-R* are the same as the 2018 *IBC* and 2018 *IRC* unless otherwise noted in the Florida Supplement at the end of this TER.

⁶ All references to the *BCNYS*, *RCNYS*, and *ECCNYS* are the same as the 2018 *IBC*, 2018 *IRC*, and 2018 *ECCNYS* unless otherwise noted in the New York State (NYS) Supplement at the end of this TER.

⁷ References to *NFPA 285-12* in this TER are code compliant through the 2018 version of the *IBC*.

3 Performance Evaluation

- 3.1 ECOMAXci® FR Air Barrier and EVOMAXci™ were evaluated to determine:
 - 3.1.1 Performance in accordance with foam plastic requirements of IBC Section 2603.
 - 3.1.2 Performance for use as insulating sheathing (R-Value) in accordance with IECC Section C402
 - 3.1.3 Performance for use as a water-resistive barrier (WRB) in accordance with IBC Section 1403.2⁸
 - 3.1.4 Performance for use as a vapor retarder in accordance with IBC Section 202 and Section 1404.3⁹
 - 3.1.5 Performance for use as an air barrier in accordance with IECC Section C402
 - 3.1.6 Performance for use in exterior walls of buildings of Type I-IV construction in accordance with 2018 IBC Section 2603.5
 - 3.1.6.1 Fire resistance rated assembly in accordance with IBC Section 2603.5.1
 - 3.1.6.2 Potential heat in accordance with IBC Section 2603.5.3
 - 3.1.6.3 Flame spread and smoke development ratings in accordance with IBC Section 2603.3 and Section 2603.5.4
 - 3.1.6.4 Vertical and lateral fire propagation in accordance with 2018 IBC Section 2603.5.5
 - 3.1.6.5 Ignition characteristics in accordance with 2018 IBC Section 2603.5.7
- 3.2 Use of ECOMAXci® FR Air Barrier and EVOMAXci™ in structures where the exterior wall covering is unable to resist 100% of the transverse wind load is outside the scope of this TER.
- 3.3 Any code compliance issues not specifically addressed in this section are outside the scope of this TER.
- 3.4 Any engineering evaluation conducted for this TER was performed within DrJ's ANAB accredited ICS code scope and/or the defined professional engineering scope of work on the dates provided herein

4 Product Description and Materials

- 4.1 ECOMAXci® FR Air Barrier and EVOMAXci™ are proprietary foam plastic insulating sheathing (FPIS) panels. ECOMAXci® FR Air Barrier along with R-SEAL products form the Rmax® Wall Solution.

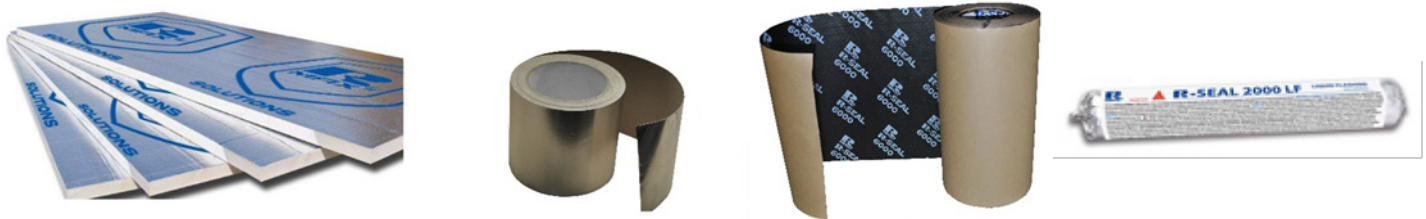


Figure 1. Rmax® Wall Solution (ECOMAXci® FR Air Barrier, R-SEAL 3000, R-SEAL 6000, and R-SEAL 2000 LF)

- 4.1.1 ECOMAXci® FR Air Barrier and EVOMAXci™ consist of a closed-cell rigid polyisocyanurate (polyiso) foam core bonded to a glass fiber reinforced aluminum facer material on both sides (ASTM C1289 Type I, Class 1 and Class 2). The exposed side has a clear modified acrylic coating.
- 4.1.2 R-SEAL 3000 is a joint sealing tape with a nominal 2 mil aluminum foil backing and acrylic pressure-sensitive adhesive.

⁸ 2015 IBC Section 1404.2

⁹ 2015 IBC Section 1405.3



- 4.1.3 R-SEAL 6000 is a through-wall flashing tape with a nominal 35 mil black woven polyethylene membrane backing and butyl rubber adhesive.
- 4.1.4 R-SEAL 2000 LF is a durable one-component, hybrid technology, non-sag, flexible, flashing and water barrier sealant.

4.2 *Material Availability*

- 4.2.1 Thickness: ½" (19 mm) through 4½" (76 mm)
- 4.2.2 Standard product width: 48" (1219 mm)
- 4.2.3 Standard product lengths: 96", 108", 120", and 144" (2438 mm, 2743 mm, 3048 mm, and 3658 mm)
- 4.2.4 Custom lengths, widths and thicknesses available upon request.

5 Applications

5.1 *General*

- 5.1.1 ECOMAXci® FR Air Barrier and EVOMAXci™ are used as wall sheathing and continuous insulation in buildings constructed in accordance with the IBC.
- 5.1.2 ECOMAXci® FR Air Barrier and EVOMAXci™ shall not be used as a nail base for other building products.
- 5.1.3 Stud walls insulated with ECOMAXci® FR Air Barrier and EVOMAXci™ must be properly braced for lateral loads according to the requirements of local building codes.
- 5.1.4 The wall system shall be designed to handle cladding load and wind load per the applicable code.
- 5.1.5 Environmental Product Declarations (EPD) for ECOMAXci® FR Air Barrier and EVOMAXci™ are available at polyiso.org.
- 5.1.6 Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with accepted engineering procedures, experience, and good technical judgment.

5.2 *Thermal Resistance (R-Value)*

- 5.2.1 ECOMAXci® FR Air Barrier and EVOMAXci™ meet the continuous insulated sheathing requirements complying with the provisions of [IECC Section C402](#).
- 5.2.2 ECOMAXci® FR Air Barrier and EVOMAXci™ have the thermal properties shown in Table 1.

Table 1. Thermal Properties

Nominal Thickness (in)	Thermal R-Value ¹ (°F-ft ² -hr/Btu)
0.5	3.2
1.0	6.5
1.5	10.0
2.0	13.1
2.5	16.7
3.0	20.3
3.5	23.9
4.0	27.4
4.5	31.0
SI: 1 in = 25.4 mm; 1 F-ft ² -h/Btu = 0.1761 K-m ² /W	
1. Thermal values are determined using the ASTM C518 test method at 75° mean temperature on material conditioned according to ASTM C1289 Section 11.1.	

5.3 **Water-Resistive Barrier (WRB)**

- 5.3.1 ECOMAXci® FR Air Barrier and EVOMAXci™ may be used as a WRB as prescribed in IBC Section 1403.2¹⁰ when installed on exterior walls as described in this section and the manufacturer installation instructions.
- 5.3.2 ECOMAXci® FR Air Barrier and EVOMAXci™ shall be installed horizontally or vertically with vertical board joints centered directly over exterior framing spaced a maximum of 24" (610 mm) o.c. The fasteners used to attach the board shall be installed in accordance with Section 6.
- 5.3.3 All joints between boards shall be sealed with R-SEAL 3000 tape or R-SEAL 2000 LF liquid flashing per the manufacturer’s installation instructions.
- 5.3.4 All corners, windows, doors, and other large through-wall penetrations shall be sealed with R-SEAL 6000 flashing or R-SEAL 2000 LF liquid flashing per the manufacturer’s installation instructions.
- 5.3.5 Small through-wall penetrations shall be sealed using R-SEAL 2000 LF liquid flashing or a one-part moisture cure sealant per the manufacturer’s installation instructions.
- 5.3.6 All ceiling and floor transitions shall be sealed with R-SEAL 6000 flashing per the manufacturer installation instructions.
- 5.3.7 ECOMAXci® FR Air Barrier and EVOMAXci™ have the water-resistive properties shown in Table 2.

Table 2. Water-Resistance Properties

Property	Test Method	Results
Water Vapor Transmission	ASTM E96	< 0.03 U.S. Perm
Water Absorption	ASTM C209	< 0.2% by Volume
	ASTM C272	< 0.3% by Volume
SI: 1 U.S. Perm [gr(hr-ft ² -inHg)] = 57.2135 ng/(Pa-s-m ²)		

- 5.3.8 ECOMAXci® FR Air Barrier and EVOMAXci™ are Class I Vapor Retarders in accordance with IBC Table 1404.3(1)¹¹.

5.4 **Air Barrier**

- 5.4.1 ECOMAXci® FR Air Barrier and EVOMAXci™ meet the requirements of IECC Section C402 for use as a component of the air barrier, when installed in accordance with the manufacturer installation instructions and this TER with all joints and transitions, including the top and bottom, sealed.
- 5.4.1.1 The air barrier material properties of ECOMAXci® FR Air Barrier and EVOMAXci™ are shown in Table 3.

Table 3. Air Barrier Material Properties¹

Air Permeance
< 0.005 L/(s.m ²)
IP: 1 L/(s.m ²) = 0.2 cfm/ft ²
1. Tested in accordance with ASTM E2178

- 5.4.1.2 The air permeance of an air barrier material is defined by the IECC and the and Air Barrier Association of America (ABAA) as being no greater than 0.02 liter per second per square meter (L/(s.m²)) at 75 Pa pressure difference when tested in accordance with ASTM E2178.

¹⁰ 2015 IBC Section 1404.2

¹¹ 2018 IBC Section 1404.3.3

5.4.2 ECOMAXci® FR Air Barrier and EVOMAXci™ meet the requirements of IECC Section C402 for use as an air barrier assembly when installed in accordance with the manufacturer's installation instructions and this TER with all joints and transitions, including the top and bottom, sealed.

5.4.2.1 The air barrier assembly properties are shown in Table 4.

Table 4. Air Barrier System Properties¹

Air Leakage
< 0.05 L/(s.m ²)
IP: 1 L/s ² m ² = 0.2 cfm/ft ²
1. Tested in accordance with ASTM E2357 and CAN/ULC-S742

5.4.2.2 The air leakage of an air barrier assembly is defined by the *IECC* and *ABAA* as being no greater than 0.2 L/(s.m²) at 75 Pa pressure difference when tested in accordance with *ASTM E2357*.

5.4.2.3 ECOMAXci® FR Air Barrier and EVOMAXci™ are classified as an A1 air barrier assembly per CAN/ULC-S742. The air leakage of an A1 classified air barrier assembly is defined as being no greater than 0.05 L/(s.m²) at 75 Pa pressure difference when tested in accordance with *CAN/ULC-S742*.

5.4.2.4 ECOMAXci® FR Air Barrier and EVOMAXci™ shall be installed horizontally or vertically with vertical board joints centered directly over exterior framing spaced a maximum of 24" (610 mm) o.c. The fasteners used to attach the board shall be installed in accordance with Section 6.

5.4.2.5 All joints between boards shall be sealed with R-SEAL 3000 tape or R-SEAL 2000 LF liquid flashing per the manufacturer's installation instructions.

5.4.2.6 All corners, windows, doors, and other large through-wall penetrations shall be sealed with R-SEAL 6000 flashing or R-SEAL 2000 LF liquid flashing per the manufacturer's installation instructions.

5.4.2.7 Small through-wall penetrations shall be sealed using R-SEAL 2000 LF liquid flashing or a one-part moisture cure sealant per the manufacturer's installation instructions.

5.4.2.8 All ceiling and floor transitions shall be sealed with R-SEAL 6000 flashing per the manufacturer installation instructions.

5.5 *Draftstop*

5.5.1 *ECOMAXci® FR Air Barrier and EVOMAXci™* may be used as a draftstop material in accordance with *IBC* Section 708.4.2, *Section 718.3*, and *Section 718.4* and *IRC* Section R302.12.

5.5.2 When installed as a draftstop, *ECOMAXci® FR Air Barrier and EVOMAXci™* shall be installed in accordance with Section 6.

5.6 *Fire Safety Performance*

5.6.1 *Surface Burning Characteristics:*

5.6.1.1 *ECOMAXci® FR Air Barrier and EVOMAXci™* have the flame spread and smoke developed ratings shown in *Table 5*, when tested in accordance with *ASTM E84* per *IBC* Section 2603.3.

Table 5. Surface Burning Characteristics¹

Flame Spread Index	Smoke Developed Index
< 25	< 250
1. Tested in accordance with <i>ASTM E84</i> .	

5.6.2 **Thermal Barrier:**

5.6.2.1 ECOMAXci® FR Air Barrier and EVOMAXci™ shall be separated from the building interior by a thermal barrier meeting the provisions of IBC Section 2603.4, except in one-story buildings when the building is equipped throughout with an automatic sprinkler system and the foam sheathing, in a thickness of not more than 4½", is covered by one of the following:

- 5.6.2.1.1 Minimum 0.032" thick aluminum
- 5.6.2.1.2 Minimum 0.016" thick corrosion resistance steel

5.6.3 **Fire Resistance Ratings (Fire-Rated Assemblies):**

5.6.3.1 ECOMAXci® FR Air Barrier and EVOMAXci™ have been tested and meet the requirements of UL 263 (ASTM E119) in accordance with IBC Section 2603.5.1 for use in the following assembly designs when installed in accordance with the manufacturer installation instructions and this TER:

- 5.6.3.1.1 45 Minutes: V321
- 5.6.3.1.2 1-hour: U026, U326, U330, U349, U354, U355, U364, U424, U425, U460, V454, W417, W429, W448, W451, W452, W456
- 5.6.3.1.3 2-hour: U905, U906, U939, V332, V499, W449, W456
- 5.6.3.1.4 3-hour: U904, U912, U939, W429, W451
- 5.6.3.1.5 4-hour: U902, U907, U939

5.6.4 **Potential Heat:**

5.6.4.1 ECOMAXci® FR Air Barrier and EVOMAXci™ have been tested to assess their performance as shown in Table 6 with regard to potential heat in accordance with NFPA 259 and IBC Section 2603.5.4.

Table 6. Potential Heat¹

Potential Heat (Btu/lb)
11,054
SI: 1 Btu/lb = 2.326 kJ/kg
1. Tested in accordance with <i>NFPA 259</i>

5.6.5 **Vertical and Lateral Fire Propagation (NFPA 285 Applications):**

- 5.6.5.1 ECOMAXci® FR Air Barrier and EVOMAXci™ were tested to assess their performance with regard to vertical and lateral fire propagation in accordance with NFPA 285 and 2018 IBC Section 2603.5.5.
- 5.6.5.2 Engineering analysis has also been conducted to assess substitution of other products within the approved wall assemblies.

5.6.5.3 The wall assemblies listed in Table 7 are approved for use in buildings of Type I-IV construction.

Table 7. Fire Performance – Vertical & Lateral Fire Propagation

Wall Component	Materials
Base Wall System Select option 1, 2, 3, or 4	1. Cast concrete walls 2. CMU Concrete walls 3. 20 gauge (min) 3-5/8 in. (min.) steel studs spaced 24" o.c. (max.) a. 1/2 in. (min.) type X Special Fire Resistant Gypsum Wallboard Interior b. Bracing as required by code 4. Where allowed by code in Types I, II, III, or IV construction, FRTW (fire-retardant-treated wood) studs complying with <i>IBC Section 2303.2</i> , min. nominal 2x4 dimension, spaced 24" o.c. (max.) a. 5/8 in. type X Gypsum Wallboard Interior b. Bracing as required by code
Floorline Firestopping Select option 1 or 2	1. 4 pcf mineral wool installed with Z-clips 2. FRTW fire blocking at floor line in accordance with applicable code requirements (use with FRTW framing)
Cavity Insulation Select option 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15 EZ FLO may be used inside the box headers and jamb studs for <i>NFPA 285</i> assemblies requiring SPF in stud cavities	1. None 2. Any noncombustible insulation per <i>ASTM E136</i> 3. Any Mineral Fiber (board type Class A, <i>ASTM E84</i> faced or un-faced) 4. Any Fiberglass (batt type Class A <i>ASTM E84</i> faced or unfaced) 5. 5-1/2 inch (max.) Icynene LD-C-50 SPF in 6-inch-deep studs (max.). Use with 5/8-inch exterior sheathing. 6. 5-1/2 inch (max.) Icynene MD-C-200 2 pcf SPF in 6-inch-deep studs (max.) full fill without an air gap. Use with 5/8-inch exterior sheathing. 7. 5-1/2 inch (max.) Icynene MD-R-210 2 pcf SPF in 6-inch-deep studs (max.) full fill without an air gap. Use with 5/8-inch exterior sheathing 8. SWD Urethane QS 112 2 pcf SPF in 6-inch-deep studs (max.) partial fill with a maximum 2-1/2 inch air gap or full fill. Use with 5/8 exterior sheathing. 9. Gaco Western 183M SPF (3-1/2 inch max). Use with 5/8 exterior sheathing. 10. Gaco Western F1850 SPF (3-1/2 inch max.). Use with 5/8 exterior sheathing. 11. Demilec SEALECTION 500 SPF (3-5/8 inch max). Use with 5/8 exterior sheathing. 12. Demilec HeatLok Soy 200 Plus SPF (3.4 inch max). Use with 5/8 exterior sheathing. 13. Bayer Bayseal SPF (3 inch max). Use with 5/8 exterior sheathing. 14. Lapolla FoamLok FL 2000 SPF (3 inch max). Use with 5/8 exterior sheathing. 15. BASF SprayTite 81206 or WallTite SPF (US & US-N) (3-5/8 inch max). Use with 5/8 exterior sheathing.
Exterior Sheathing Select option 1, 2, 3, 4, 5, 6, 7 or 8 Note: When SPF is used, 5/8 inch exterior gypsum sheathing must be used.	1. None (when using Base Wall 1 or 2) 2. None (3 in. max. exterior insulation with claddings 7-17) 3. None (4-1/2 in. max. exterior insulation with claddings 1-6) 4. 1/2"-thick or thicker, exterior gypsum board sheathing 5. 1/2" (min.) FRTW structural panels complying with <i>IBC Section 2303.2</i> and installed in accordance with code allowances for Types I, II, III or IV construction 6. 5/8" DensElement with DensDefy or Prosoco FastFlash flashing at joints/fasteners 7. Soprema Sopraseal Xpress G 8. Tremco/USG Securock® ExoAir® 430
Weather-Resistive Barrier Applied to Exterior Sheathing Select option 1 or 2 installed per manufacturer's installation instructions. Note: WRB over Exterior Sheathing Items 6-8 may not be used since	1. None 2. Any WRB tested in accordance with <i>ASTM E1354</i> (at a minimum of 20 kW/m ² heat flux) and shown by analysis to be less flammable (improved T _{ign} , Pk. HRR) than the baseline WRB or exterior insulation foam core. The following WRB products are allowed (Soprema Stick VP, Soprasolin HD or LM 204 VP based on <i>NFPA 285</i>): 2.01 Carlisle (CCW) Fire Resist 705FR-A 2.02 Carlisle (CCW) Fire Resist Barritech NP™ 2.03 Carlisle (CCW) Fire Resist Barritech VP 2.04 Dörken Systems Inc. Delta® Stratus SA

Wall Component	Materials
<p>they already incorporate a pre-installed WRB.</p> <p>Note: When using no exterior sheathing, sheet building wraps may be applied directly to studs.</p> <p>NLA = No Longer Available.</p>	<ul style="list-style-type: none"> 2.05 Dörken Systems Inc. Delta®-Fassade S 2.06 Dörken Systems Inc. Delta®-Foxx/Plus 2.07 Dörken Systems Inc. Delta®-Maxx/Plus 2.08 Dörken Systems Inc. Delta®-Vent S/Plus 2.09 Dörken Systems Inc. Delta®-Vent SA 2.10 Dow Corning Dowsil™ DefendAir 200 (or LT version) 2.11 Dow Corning Dowsil™ DefenderAir 200C (Charcoal) 2.12 Dryvit Backstop® NT™ 2.13 DuPont™ Tyvek® (Various per ESR 2375) 2.14 DuPont™ WeatherMate™ Housewrap 2.15 DuPont™ WeatherMate™ Plus Housewrap 2.16 GCP PERM-A-BARRIER® Aluminum Wall Membrane 2.17 GCP PERM-A-BARRIER® NPL 10 2.18 GCP PERM-A-BARRIER® VPL 2.19 GCP PERM-A-BARRIER® VPL 50 Membrane 2.20 GCP PERM-A-BARRIER® VPL Low Temperature 2.21 GCP PERM-A-BARRIER® VPS 2.22 Henry® Air-Bloc All Weather STPE 2.23 Henry® Air-Bloc® 16 MR 2.24 Henry® Air-Bloc® 17 MR 2.25 Henry® Air-Bloc® 21 FR 2.26 Henry® Air-Bloc® 31MR [NLA] 2.27 Henry® Air-Bloc® 32MR [NLA] 2.28 Henry® Air-Bloc® 33MR [NLA] 2.29 Henry® Blueskin® MetalClad 2.30 Henry® Blueskin® SA 2.31 Henry® Blueskin® VP 160 2.32 Henry® EnviroCap 2.33 Henry® FoilSkin 2.34 Henry® Super Jumbo Tex 60 Minute® (Fortifiber) 2.35 Henry® WeatherSmart® Drainable Housewrap (Fortifiber) 2.36 Kingspan (Pactiv) GreenGuard® MAX™ Building Wrap 2.37 MasterSeal® AWB 660 (Formerly BASF Enershield® HP) 2.38 MasterSeal® AWB 660 I (Formerly BASF Enershield® I) 2.39 NaturaSeal Airseal NS-A-250HP™ 2.40 NaturaSeal Airseal NS-A-250LP™ 2.41 Parex WeatherSeal Spray & Roll-On 2.42 Pecora ProPerm VP 2.43 Pecora XL-PermULTRA NP 2.44 Pecora XL-PermULTRA VP (10 mil DFT) 2.45 Prosoco R-Guard® Cat 5™ 2.46 Prosoco R-Guard® MVP (NLA) 2.47 Prosoco R-Guard® Spray Wrap (NLA) 2.48 Prosoco R-Guard® Spray Wrap MVP 2.49 Prosoco R-Guard® VB 2.50 SIGA Majvest® 500 SA 2.51 Sika SikaGard® 535 2.52 Sika SikaGard®-530 2.53 Soprema Sopraseal® LM 204 VP 2.54 Soprema Sopraseal® Stick 1100T 2.55 Soprema Sopraseal® Stick VP 2.56 Soprema Soprasolin® HD 2.57 Tremco /USG Securock® ExoAir® 110AT 2.58 Tremco/USG Securock® ExoAir® 230 2.59 Vaproshield Revealshield SA®

Wall Component	Materials
	2.60 Vaproshield Wrapshield SA® 2.61 W.R. Meadows® Air-Shield™ LMP (Black) 2.62 W.R. Meadows® Air-Shield™ LMP (Gray) 2.63 W.R. Meadows® Air-Shield™ LSR 2.64 W.R. Meadows® Air-Shield™ SMP 2.65 W.R. Meadows® Air-Shield™ TMP
Exterior Insulation Use either 1 or 2 Note: See Exterior sheathing options for thickness limitations when no exterior sheathing is used.	1. 4-½ in. (max. consisting of a single panel or multiple thinner panels) Rmax® ECOMAXci® FR Air Barrier 2. 4-½ in. (max. consisting of a single panel or multiple thinner panels) Rmax® EVOMAXci™
FRTW Structural Panels over Exterior Insulation (Optional)	For use with all cladding options, installed in accordance with applicable code requirements. Must be applied with joints staggered. Fasteners used for securing FRTW panels must penetrate through the foam plastic into FRTW or steel framing. The system must be designed to handle the cladding load and wind load per the applicable code. Note: May be applied in the field or factory applied. Adhesive must not be full coverage.
Weather-Resistive Barrier Applied over Exterior Insulation (or FRTW) Use any item 1 or 2 depending on cladding used Note: Exterior WRB items in 1.02 are not traditional WRB products but are insulation panel joint tapes. The insulation panel joints shall be staggered. NLA = No longer available.	1. For use with all claddings <ul style="list-style-type: none"> 1.01 None 1.02 6" (max.) tape or flashing over insulation joints: <ul style="list-style-type: none"> (a) Rmax® R-SEAL 3000 (b) Rmax® R-SEAL 6000 (c) Rmax® R-SEAL 2000 LF (d) Venture Tape CW (e) Asphalt or butyl based tape (f) Liquid flashing 1.03 Carlisle (CCW) Fire Resist 705FR-A 1.04 DuPont™ Tyvek® (Various per ESR 2375) 1.05 DuPont™ WeatherMate™ Housewrap 1.06 DuPont™ WeatherMate™ Plus Housewrap 1.07 GCP PERM-A-BARRIER® Aluminum Wall Membrane 1.08 Henry® Blueskin® Metal Clad® 1.09 Henry® FoilSkin 1.10 Kingspan (Pactiv) GreenGuard® MAX™ Building Wrap 1.11 Prosoco R-Guard® Spray Wrap MVP 1.12 Soprema Soprasolin® HD 2. For use with cladding options 1-6 (heavy masonry) with non-open joint installation techniques (ex. shiplap, etc.) <ul style="list-style-type: none"> 2.01 Carlisle (CCW) Fire Resist Barritech NP™ 2.02 Carlisle (CCW) Fire Resist Barritech VP 2.03 Dörken Systems Inc. Delta®-Fassade S 2.04 Dörken Systems Inc. Delta®-Foxy/Plus 2.05 Dörken Systems Inc. Delta®-Maxx/Plus 2.06 Dörken Systems Inc. Delta®-Vent S/Plus 2.07 Dow Corning DefenderAir 200C (Charcoal) 2.08 Dow Corning Dowsil™ DefendAir 200 (or LT version) 2.09 Dryvit Backstop® NT™ 2.10 GCP PERM-A-BARRIER® VPL 2.11 GCP PERM-A-BARRIER® VPL Low Temperature

Wall Component	Materials
	<p>2.12 GCP PERM-A-BARRIER® VPS</p> <p>2.13 Henry® Air-Bloc All Weather STPE</p> <p>2.14 Henry® Air-Bloc® 16MR</p> <p>2.15 Henry® Air-Bloc® 17MR</p> <p>2.16 Henry® Air-Bloc® 21 FR</p> <p>2.17 Henry® Air-Bloc® 31MR (NLA)</p> <p>2.18 Henry® Air-Bloc® 33MR (NLA)</p> <p>2.19 Henry® Blueskin® VP 160</p> <p>2.20 Henry® Envirocap</p> <p>2.21 Henry® Super Jumbo Tex 60 minutes (only with ¾" stucco cladding) (Fortifiber)</p> <p>2.22 Henry® WeatherSmart Drainable (Fortifiber)</p> <p>2.23 Parex WeatherSeal Spray & Roll-On</p> <p>2.24 Pecora ProPerm VP</p> <p>2.25 Pecora XL-Perm^{ULTRA} NP</p> <p>2.26 Pecora XL-Perm^{ULTRA} VP (10 mil DFT)</p> <p>2.27 Prosoco R-Guard® Cat 5™</p> <p>2.28 Prosoco R-Guard® MVP (NLA)</p> <p>2.29 Prosoco R-Guard® Spray Wrap (NLA)</p> <p>2.30 Prosoco R-Guard® VB</p> <p>2.31 Siga Majvest® 500 SA</p> <p>2.32 Sika SikaGard® 535</p> <p>2.33 Soprema Sopraseal® Stick VP</p> <p>2.34 Vaproshield Revealshield SA®</p> <p>2.35 Vaproshield Wrapshield SA®</p> <p>2.36 W.R. Meadows® Air-Shield™ LMP (Black)</p> <p>2.37 W.R. Meadows® Air-Shield™ LMP (Gray)</p> <p>2.38 W.R. Meadows® Air-Shield™ LSR</p> <p>2.39 W.R. Meadows® Air-Shield™ SMP</p> <p>2.40 W.R. Meadows® Air-Shield™ TMP</p>
<p>Exterior Cladding Select option 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 or 17</p> <p>Note: For WRB over exterior insulation option 2 above, heavy masonry claddings 1-6 shall incorporate non-open joints.</p>	<p>Heavy Masonry</p> <ol style="list-style-type: none"> 1. Brick - nominal 4" clay brick or veneer with a maximum 2 in. air gap behind brick. Brick ties/anchors –24" o.c. (max.) 2. Stucco – Minimum ¾"-thick, exterior cement plaster and lath with an optional secondary water resistive barrier between the exterior insulation and lath.* 3. Limestone - minimum 2" thick any using standard installation technique. 4. Natural Stone Veneer – Minimum 2 in. thick using any standard installation technique. 5. Cast Artificial Stone -- Minimum 1-½ in. thick complying with ICC-ES AC 51 using any standard installation technique. 6. Terra Cotta Cladding – Minimum 1-¼ in. thick using any standard installation technique. <p>Other</p> <ol style="list-style-type: none"> 7. Any MCM or ACM (aluminum, steel, copper, zinc) (w/ 2 ½ in. max. air gap) that has successfully passed <i>NFPA 285</i> using any standard installation technique, such as <ul style="list-style-type: none"> • Carter Companies EVO Architectural Panel Systems for use with any FR ACM/MCM <i>NFPA 285</i> material 8. Uninsulated sheet metal building panels including aluminum, zinc, steel or copper using any standard installation technique. 9. Uninsulated fiber-cement board siding using any standard installation technique. 10. Stone/Aluminum honeycomb composite building panels that have passed <i>NFPA 285</i> or equivalent. <ul style="list-style-type: none"> • Stone Panels Inc. Stone Lite Panel system has been analyzed using manufacturer's standard installation technique 11. Autoclaved-aerated- concrete (AAC) panels that have successfully passed <i>NFPA 285</i> using any standard installation technique. 12. Thin Set Brick

Wall Component	Materials
	<ul style="list-style-type: none"> • Glen-Gary Thin Tech™ Elite Series has been analyzed using manufacturer’s standard installation technique. • Tabs II Panel System with ½ inch bricks using Tabs Wall Adhesive <p>13. Natural Stone Veneer – minimum 1¼ inch (adhered with mortar or concrete/cement based adhesive).</p> <p>14. FunderMax M.Look using the manufacturer standard installation technique. The air gap between cladding and insulation or WRB must not exceed 1 ½ inches.</p> <p>15. Glen-Gery Tru-Brix (only with optional non-combustible mortar)</p> <p>16. Thin brick (min ¾" thick clay brick) fully adhered with cementitious mortar (standard or polymer-modified) to minimum ½" thick cement backer board or gypsum sheathing. A secondary water resistive barrier can be installed between the exterior sheathing and the brick.*</p> <p>17. Natural stone or artificial stone (min ¾" thick) fully adhered with cementitious mortar (standard or polymer-modified) to minimum ½" thick cement backer board or gypsum sheathing. A secondary water resistive barrier can be installed between the exterior sheathing and the brick.*</p> <p>*NOTE: The secondary barriers shall not be full-coverage asphalt or butyl-based self-adhered membranes.</p>
<p>Rough openings</p> <p>Note: Must cover both the air gap between the cladding and the exterior insulation and the exposed edge of the exterior insulation.</p>	<p>Rough opening perimeters shall incorporate one of the following, spanning at a minimum from the interior edge of the cladding to the interior edge of the exterior insulation at the rough opening.</p> <ol style="list-style-type: none"> 1. 0.08" (min.) aluminum (examples include window frame, flashing, lintel, c-channel) 2. 20 GA. (min.) sheet steel (examples include window frame, flashing, lintel, c-channel) 3. ½" (min.) 4pcf (min.) mineral wool 4. ¾" (min.) FRT wood buck 5. ¾" (min.) FRT plywood 6. ⅝" (min.) type X GWB 7. ¼" (min.) fiber cement board <p>All fenestrations and penetrations shall be flashed in accordance with the applicable code using asphalt, acrylic or butyl flashing tape, liquid flashing, R-SEAL 6000, or R-SEAL 2000 LF up to 12" maximum width.</p>
SI: 1 in = 25.4 mm	
1. All WRBs shall be installed at recommended application rates and per the manufacturer’s installation instructions.	

5.6.6 Ignition Properties:

5.6.6.1 Thermasheath®, TSX-8500, TSX-8510, ECOMAXci® FR, and ECOMAXci® FR WHITE were evaluated to assess performance with regard to ignition in accordance with 2018 IBC Section 2603.5.7.

5.6.6.1.1 The insulation boards comply with this section when the exterior side of the sheathing is protected with one of the following materials:

- 5.6.6.1.1.1 A thermal barrier in accordance with 2018 IBC Section 2603.4
- 5.6.6.1.1.2 Masonry or concrete – minimum 1" (25 mm) thick
- 5.6.6.1.1.3 Glass-fiber-reinforced concrete panels – minimum ⅝" (9.5 mm) thick
- 5.6.6.1.1.4 Metal-faced panels having a minimum 0.019" (0.48 mm) thick aluminum or 0.016" (0.41 mm) thick corrosion-resistant steel outer facings

5.7 Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with accepted engineering procedures, experience, and technical judgment.

6 Installation

- 6.1 Installation shall comply with the manufacturer's installation instructions and this TER. In the event of a conflict between the manufacturer installation instructions and this TER, the more restrictive shall govern.
- 6.2 ECOMAXci® FR Air Barrier and EVOMAXci™ shall be applied to the base wall as follows:
 - 6.2.1 The insulation boards shall be oriented with the Rmax® Solutions shield facing the exterior side of the building.
 - 6.2.2 Each row of insulation shall be staggered a minimum of 6" (or one stud space) to the row below. All boards must be tightly abutted together.
 - 6.2.3 At changes in wall directions (corners), the boards shall fit snugly in an overlap.
- 6.3 ECOMAXci® FR Air Barrier and EVOMAXci™ fastener application shall be as follows:
 - 6.3.1 Insulation fastener components shall include a minimum 2"-diameter plastic washer and corrosion resistant self-taping steel screw, wood screw or concrete fastener.
 - 6.3.2 Washers shall be snug and flush with the board surface. Washers should never break the foil facing of the boards, nor should the washer crown be counter sunk.
 - 6.3.2.1 Each insulation board shall be secured with a fastening pattern as shown in Table 8.

Table 8. Fastening Pattern of ECOMAXci® FR Air Barrier and EVOMAXci™

Nominal Thickness (in)	Steel or FRTW Stud		Masonry
	Wall Perimeter (in)	Wall Field (in)	Wall Perimeter & Field (in)
≥ 1.5	24 o.c.	24 o.c.	24 o.c.
≥ 0.5	12 o.c.	16 o.c.	24 o.c.
			SI: 1 in = 25.4 mm

- 6.4 R-SEAL 3000 application shall be as follows:
 - 6.4.1 4"-wide R-SEAL 3000 shall be used to seal all joints of adjacent insulation boards.
 - 6.4.2 R-SEAL 3000 can also be used to repair minor damages to the aluminum facer of the ECOMAXci® FR Air Barrier and EVOMAXci™.
 - 6.4.3 Refer to the R-SEAL 3000 data sheet for specific details on appropriate installation conditions.
- 6.5 R-SEAL 6000 application shall be as follows:
 - 6.5.1 9" or 12"-wide R-SEAL 6000 shall be used to seal at corners, ceiling and floor transitions, windows, doors and other large through-wall penetrations.
 - 6.5.2 Refer to the R-SEAL 6000 data sheet for specific details on appropriate installation conditions.
- 6.6 R-SEAL 2000 LF application shall be as follows:
 - 6.6.1 1"-wide at 30mil shall be used to seal all joints of adjacent insulation boards.
 - 6.6.2 50mil extended 3" beyond each last surface shall be used to seal at corners, windows, doors and other large through-wall penetrations.
 - 6.6.3 R-SEAL 2000 LF can also be used to repair minor damages to the aluminum facer of the ECOMAXci® FR Air Barrier and EVOMAXci™.
 - 6.6.4 Refer to the R-SEAL 2000 LF data sheet for specific details on appropriate installation conditions.

7 Substantiating Data

- 7.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
- 7.1.1 Material properties testing in accordance with *ASTM C1289*
 - 7.1.2 Thermal resistance properties testing in accordance with *ASTM C518*
 - 7.1.3 Water vapor permeance testing in accordance with *ASTM E96*
 - 7.1.4 Water-resistance properties testing in accordance with *ASTM E331 and AATCC TM 127*
 - 7.1.5 Water absorption testing in accordance with *ASTM C209 and ASTM C272*
 - 7.1.6 Air Permeance testing in accordance with *ASTM E2178*
 - 7.1.7 Air leakage testing in accordance with *ASTM E2357* and *CAN/ULC-S742*
 - 7.1.8 Flame spread and smoke developed ratings testing in accordance with *ASTM E84*
 - 7.1.9 Fire resistance ratings in accordance with *UL 263*
 - 7.1.10 Heat propagation (potential heat) testing in accordance with *NFPA 259*
 - 7.1.11 Vertical and lateral fire propagation tests in accordance with *NFPA 285-12*, with analysis by Priest and Associates Consulting, LLC and Hughes Associates
- 7.2 Information contained herein is the result of testing and/or data analysis by sources which conform to *IBC Section 1703* and/or professional engineering regulations. DrJ relies upon accurate data to perform its ISO/IEC 17065 evaluations.
- 7.3 Where appropriate, DrJ's analysis is based on provisions that have been codified into law through state or local adoption of codes and standards. The providers of the codes and standards are legally responsible for their content. DrJ analysis may use code-adopted provisions as a control sample. A control sample versus a test sample establishes a product as being equivalent to that prescribed in this code in quality, strength, effectiveness, fire resistance, durability, and safety. Where the accuracy of the provisions provided herein is reliant upon the published properties of materials, DrJ relies upon the grade mark, grade stamp, mill certificate, and/or test data provided by material suppliers to be minimum properties. DrJ analysis relies upon these properties to be accurate.

8 Findings

- 8.1 When used and installed in accordance with this TER and the manufacturer's installation instructions, the product listed in Section 1.1 is approved for the following:
- 8.1.1 Buildings constructed in accordance with the *IBC*.
 - 8.1.2 Performance of foam plastics in accordance with *IBC Section 2603*
 - 8.1.3 Use as insulating sheathing in accordance with *IECC Section C402*
 - 8.1.4 Use as a water-resistive barrier (WRB) in accordance with *IBC Section 1403.2*¹²
 - 8.1.5 Use as an air barrier in accordance with *IECC Section C402*
 - 8.1.6 Use in exterior walls of buildings of Type I-IV construction in accordance with *2018 IBC Section 2603.5*
 - 8.1.7 Use in a fire resistance rated assembly in accordance with *IBC Section 2603.5.1*
 - 8.1.8 Flame spread and smoke developed indices in accordance with *IBC Section 2603.5.4*
 - 8.1.9 Vertical and lateral fire propagation in accordance with *2018 IBC Section 2603.5.5*

¹² *2015 IBC Section 1404.2*

- 8.2 Building codes require data from valid research reports be obtained from approved sources (i.e., licensed registered design professionals [RDPs]).
- 8.2.1 Building official approval of a licensed RDP is performed by verifying the RDP and/or their business entity is listed by the licensing board of the relevant jurisdiction.
- 8.3 Agencies who are accredited through ISO/IEC 17065 have met the code requirements for approval by the building official. DrJ is an ISO/IEC 17065 ANAB-Accredited Product Certification Body – Accreditation #1131 and employs RDPs.
- 8.4 Through ANAB accreditation and the IAF MLA, DrJ certification can be used to obtain product approval in any jurisdiction or country that has IAF MLA Members & Signatories to meet the Purpose of the MLA – “certified once, accepted everywhere.”
- 8.5 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.10¹³ are similar) states:

104.11 Alternative materials, design and methods of construction and equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code...Where the alternative material, design or method of construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.

9 Conditions of Use

- 9.1 This TER and the installation instructions, when required by a code official, shall be submitted at the time of permit application.
- 9.2 When the insulation boards are used on exterior walls of buildings of Type I-IV construction must be as described in Section 5.6.2.
- 9.3 The product shall be fully protected from the interior of the building by an approved thermal barrier or ignition barrier as required by the applicable code.
- 9.4 In areas where the probability of termite infestation is “very heavy”, in accordance with IBC Section 2603.8, the clearance between the products installed above grade and exposed earth shall be at least 6”.
- 9.4.1 *Exceptions:*
- 9.4.1.1 Buildings where the structural members of the walls, floors, ceilings, and roofs are entirely of non-combustible materials or are pressure preservative treated wood.
- 9.4.1.2 An approved method of protecting the products and the structure from subterranean termite damage is used.
- 9.4.1.3 On the interior side of basement walls.
- 9.5 This product is not to be used as a structural nailing base for claddings.
- 9.6 Use of the insulation boards to resist structural loads is outside the scope of this TER. Walls shall be braced by other materials in accordance with the applicable code, and the exterior wall covering shall be capable of resisting the full design wind pressure.
- 9.7 Where required by the building official, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed, this TER and the installation instructions shall be submitted at the time of permit application.
- 9.8 Any generally accepted engineering calculations needed to show compliance with this TER shall be submitted to the AHJ for review and approval.
- 9.9 Design loads shall be determined in accordance with the building code adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (e.g., owner or RDP).
- 9.10 At a minimum, this product shall be installed per Section 6 of this TER.

¹³ 2018 IFC Section 104.9



- 9.11 This product (manufactured in Dallas, Texas, Greer, South Carolina and Fernley, Nevada) has an internal quality control program and a third-party quality assurance program in accordance with IBC Section 104.4 and Section 110.4 and IRC Section R104.4 and Section R109.2.
- 9.12 The actual design, suitability, and use of this TER, for any particular building, is the responsibility of the owner or the owner's authorized agent.
- 9.13 This TER shall be reviewed for code compliance by the AHJ in concert with IBC Section 104.
- 9.14 The implementation of this TER for this product is dependent on the design, quality control, third-party quality assurance, proper implementation of installation instructions, inspections required by IBC Section 110.3, and any other code or regulatory requirements that may apply.

10 Identification

- 10.1 The product(s) listed in Section 1.1 are identified by a label on the board or packaging material bearing the manufacturer's name, product name, TER number, and other information to confirm code compliance.
- 10.2 Additional technical information can be found at rmax.com.

11 Review Schedule

- 11.1 This TER is subject to periodic review and revision. For the most recent version, visit drjcertification.org.
- 11.2 For information on the current status of this TER, contact DrJ Certification.



Issue Date: November 3, 2021
Subject to Renewal: October 1, 2023

CBC and CRC Supplement to TER 1212-03

REPORT HOLDER: Rmax®

1 Evaluation Subject

- 1.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™

2 Purpose and Scope

2.1 Purpose

- 2.1.1 The purpose of this Technical Evaluation Report (TER) supplement is to Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, recognized in TER 1212-03, has also been evaluated for compliance with the codes listed below.

2.2 Applicable Code Editions

- 2.2.1 *CBC—16, 19: California Building Code (Title 24, Part 2)*
- 2.2.2 *CRC—16, 19: California Residential Code (Title 24, Part 2.5)*

3 Conclusions

- 3.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, complies with the *CBC* and *CRC* and is subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the *IBC* and *IRC* and the *CBC* and *CRC* applicable to this TER, they are listed here.
 - 3.2.1 No variations.

4 Conditions of Use

- 4.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in TER 1212-03
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of the *CBC* and *CRC*, as applicable.



Issue Date: November 3, 2021
Subject to Renewal: October 1, 2023

FBC Supplement to TER 1212-03

REPORT HOLDER: Rmax®

1 Evaluation Subject

- 1.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™

2 Purpose and Scope

2.1 Purpose

- 2.1.1 The purpose of this Technical Evaluation Report (TER) supplement is to Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, recognized in TER 1212-03, has also been evaluated for compliance with the codes listed below as adopted by the Florida Building Commission.

2.2 Applicable Code Editions

- 2.2.1 *FBC-B—17, 20: Florida Building Code – Building*
- 2.2.2 *FBC-R—17, 20: Florida Building Code – Residential*

3 Conclusions

- 3.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, complies with the *FBC-B* and *FBC-R* and is subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the *IBC* and *IRC* and the *FBC-B* and *FBC-R* applicable to this TER, they are listed here.
 - 3.2.1 *FBC-B* Section 104.4 and Section 110.4 are reserved.
 - 3.2.2 *FBC-R* Section R104 and Section R109 are reserved.
 - 3.2.3 *FBC-B* Section 1404.2 replaces *IBC* Section 1403.2.

4 Conditions of Use

- 4.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in TER 1212-03
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of *FBC-B* Chapter 16 and Chapter 17, as applicable.



Issue Date: April 11, 2022
Subject to Renewal: October 1, 2023

NYC Supplement to TER 1212-03

REPORT HOLDER: Rmax®

1 Evaluation Subject

- 1.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™

2 Purpose and Scope

2.1 Purpose

- 2.1.1 The purpose of this Technical Evaluation Report (TER) supplement is to Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, recognized in TER 1212-03, has also been evaluated for compliance with the codes listed below as adopted by the State of New York.

2.2 Applicable Code Editions

- 2.2.1 BCNYS – 20: Building Code of New York State
- 2.2.2 RCNYS – 20: Residential Code of New York State
- 2.2.3 ECCNYS – 20: Energy Conservation Code of New York State

3 Conclusions

- 3.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, comply with the BCNYS and RCNYS and are subject to the conditions of use described in this supplement.
- 3.2 Where there are variations between the IBC and IRC and the BCNYS and RCNYS applicable to this TER, they are listed here.
 - 3.2.1 BCNYS Section 104.3 replaces IBC Section 104.11
 - 3.2.2 BCNYS Section 105.3 replaces IBC Section 104.4
 - 3.2.3 BCNYS Chapter 1 removed IBC Section 110.3 and Section 110.4
 - 3.2.4 RCNYS Section R104.3 replaces IRC Section R104.11
 - 3.2.5 RCNYS Section R105.3 replaces IRC Section R104.4
 - 3.2.6 RCNYS Chapter 1 removed IRC Section R109.2

4 Conditions of Use

- 4.1 Rmax® ECOMAXci® FR Air Barrier and Rmax® EVOMAXci™, described in TER 1212-03, must comply with all of the following conditions:
 - 4.1.1 All applicable sections in TER 1212-03
 - 4.1.2 The design, installation, and inspections are in accordance with additional requirements of BCNYS Chapter 16 and Chapter 17, as applicable.