



DÖRKEN SYSTEMS INC.
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www.dorken.com

**DELTA®-DRY & LATH and
 BORAL DRAIN 'N' DRY LATH**

ADDITIONAL COMPANY NAME:

WESTLAKE ROYAL STONE LLC
 2801 Post Oak Blvd., Suite #600
 Houston, Texas 77056
www.westlakeroyalbuildingproducts.com

CSI Sections:

07 77 00 Wall Specialties
 09 22 36 Lath

1.0 RECOGNITION

DELTA®-DRY & LATH and BORAL DRAIN 'N' DRY (hereafter DELTA®-DRY & LATH) recognized in this report have been evaluated for use as a substrate to apply to cement plaster (Stucco). The structural performance, drainage efficiency, fire propagation characteristics, and physical properties of the DELTA®-DRY & LATH comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, and 2015 International Building Code® (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)
- 2022 California Building Code (CBC)-attached Supplement
- 2022 California Residential Code (CRC)-attached Supplement
- 2023 City of Los Angeles Building Code (LABC) - attached Supplement
- 2023 City of Los Angeles Residential Code (LARC) - attached Supplement
- 2023 Florida Building Code, FBC, Building (FBC, Building) - attached Supplement
- 2023 Florida Building Code, FBC, Residential (FBC, Residential) - attached Supplement

2.0 LIMITATIONS

Use of the DELTA®-DRY & LATH recognized in this report is subject to the following limitations:

2.1 The DELTA®-DRY & LATH shall be installed in accordance with this evaluation report, the applicable code,

and the manufacturer’s published installation instructions. If there are any conflicts, the more restrictive governs.

2.2 Design wind loads resisted by the DELTA®-DRY & LATH system described in this report shall be determined in accordance with the applicable code and shall not exceed the allowable transverse loads for cement plaster (stucco) specific in Chapter 25 of the IBC or Chapter 7 of the IRC, as applicable.

2.3 Except as noted in Section 3.4 of this report, installations are limited to use in Type V-B construction for the IBC and dwellings constructed in accordance with the IRC, as applicable.

2.4 Use of DELTA®-DRY & LATH with claddings other than cement plaster (stucco) or adhered masonry veneer is outside the scope of this report.

2.5 Use of DELTA®-DRY & LATH as a component of a manufactured stone veneer system shall be acceptable to the manufacturer of the manufactured stone veneer system.

2.6 Use in fire-resistance-rated assemblies (ASTM E119) is outside the scope of this report.

2.7 DELTA®-DRY & LATH recognized in this report is produced by Dörken Systems Inc. in Beamsville, Ontario, Canada.

3.0 PRODUCT USE

3.1 General: DELTA®-DRY & LATH is used as a substrate to apply cement plaster (Stucco) complying with Chapter 25 of the IBC or Chapter 7 of the IRC, as applicable, and to provide a means of draining water to the exterior that enters a cement plaster or adhered thin veneer masonry wall cladding.

3.2 Design: The gravity load (shear) capacity and negative wind load (pull-out) capacity of fasteners shall be justified to the satisfaction of the building official.

3.3 Installation: DELTA®-DRY & LATH is installed in accordance with this report, the applicable code, and the manufacturer’s published installation instructions. Where conflicts occur, the more restrictive governs. The manufacturer’s published installation instructions shall be available and strictly adhered to at all times on the jobsite during installation.

DELTA®-DRY & LATH dimpled plastic sheets are installed with no overlap at the horizontal and vertical joints. The Glass Fiber Lath shall overlap by a minimum of 1 inch (25.4 mm) at end laps and side laps. Weep screeds and other

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.





components of a cement system shall be installed in accordance with the code. Cement plaster (stucco) shall be installed in accordance with Chapter 25 of the IBC or Chapter 7 of the IRC, as applicable.

3.3.1 Wood Substrate: When tested in accordance with ASTM E2556, the DELTA®-DRY & LATH demonstrated a water resistance equal to or greater than a single layer of ASTM E2556, Type I. When installed over wood-based sheathing, DELTA®-DRY & LATH may be installed as noted in Sections 3.3.1.1 through 3.3.1.3 of this report.

3.3.1.1 2021 IBC and IRC:

3.3.1.1.1 IBC Section 2510.6.1(1) and IRC Section R703.7.3.1(1): DELTA®-DRY & LATH may be used with a single layer of 10-minute Grade D paper or ASTM E2556, Type I water-resistive barrier.

3.3.1.1.2 IBC Section 2510.6.1(2) and IRC Section R703.7.3.1(2): DELTA®-DRY & LATH may be used as a nonwater absorbing layer between the water-resistive barrier and stucco.

3.3.1.1.3 IBC Section 2510.6.2(1) and IRC Section R703.7.3.2(1): DELTA®-DRY & LATH may be used to provide a space or drainage material not less than 3/16 inch (4.8 mm) in depth.

3.3.1.1.4 IBC Section 2510.6.2(2) and IRC Section R703.7.3.2(2): When tested in accordance with Annex A2 of ASTM E2925, DELTA®-DRY & LATH demonstrates a drainage efficiency in excess of 90 percent.

3.3.1.2 2018 IBC and IRC:

3.3.1.2.1 IBC Section 2510.6:

DELTA®-DRY & LATH may be used to provide an intervening, substantially nonwater-absorbing layer or drainage space between the stucco and water-resistive barrier in accordance with Section 2510.6 Exception 1.

DELTA®-DRY & LATH may be used to provide a ventilated airspace between the stucco and water-resistive barrier in accordance with Section 2510.6 Exception 2.

3.3.1.2.2 IRC Section R703.7.3:

DELTA®-DRY & LATH may be used to provide an intervening, substantially non-water absorbing layer or drainage space between the stucco and water-resistive barrier in accordance with the Exception to Section R703.7.3.

3.3.1.3 2015 IBC and IRC:

DELTA®-DRY & LATH may be used to provide an intervening, substantially non-water absorbing layer or drainage space between the stucco and water-resistive barrier

in accordance with the Exception to IBC Section 2510.6 and the Exception to IRC Section R703.7.3.

3.3.2 Concrete and Masonry Substrates: DELTA®-DRY & LATH may be fastened directly to concrete and masonry in accordance with IBC Section 2510.3 and IRC Section R703.6.1, as applicable. Fasteners shall be spaced a maximum of 6 inches (152 mm) on center vertically and 16 inches (406 mm) on center horizontally.

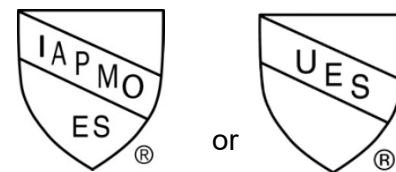
3.4 Types I through IV Construction: In accordance with IBC Section 1402.5, the DELTA®-DRY & LATH may be used on buildings of any height of Type I, II, III, or IV construction as shown in Table 1 of this report.

4.0 PRODUCT DESCRIPTION

DELTA®-DRY & LATH consists of a dimpled-profile, high-density polyethylene plastic with a layer of glass fiber lath bonded on one face. DELTA®-DRY & LATH has an 11-millimeter (0.43 inch) profile, a nominal weight of 10.2 pounds per 100 square feet (55 g/m²) and is provided in 39.4-inch-wide (1.00 m) rolls. The glass fiber lath consists of vertical and horizontal fibers and is self-furring.

5.0 IDENTIFICATION

The DELTA®-DRY & LATH and BORAL DRAIN 'N' DRY product is identified by a label on the container of each roll, or by printing on the product, that includes the report holder's name (Dörken Systems Inc. or Westlake Royal Stone LLC), manufacturing location (Beamsville, Ontario, Canada), product name (DELTA®-DRY & LATH or BORAL Drain 'N' Dry), product size, date of manufacture, and the Evaluation Report number (ER-323). Either IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-323

6.0 SUBSTANTIATING DATA

6.1 Test reports are from laboratories in compliance with ISO/IEC 17025.

6.2 Data in accordance with the Acceptance Criteria for Moisture Drainage Systems Used with Exterior Cement Plaster or Adhered Masonry Veneer Walls, (AC356).

6.3 Data in accordance with the Acceptance Criteria for Glass Fiber Lath Used in Cementitious Exterior Wall Coatings or Exterior Cement Plaster (Stucco) (AC275).



6.4 Test report in accordance with NFPA 285 and data analysis.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Dörken Systems Inc. DELTA®-DRY & LATH and BORAL DRAIN 'N' DRY to assess conformance to the codes shown

in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at the location noted in Section 2.7 of this report under a quality control program with periodic inspections under the surveillance of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1—NFPA 285 COMPLYING EXTERIOR WALL ASSEMBLIES

Wall Component	Specific Component
Base Wall Use Item 1, 2, 3 or 4	<ol style="list-style-type: none"> 1) Concrete Base Wall 2) CMU Base Wall 3) One layer of 5/8-inch thick type X gypsum wallboard or 1/2-inch MgO board installed on the interior side of minimum 3 3/8-inch, minimum No. 20-gauge galvanized steel studs spaced a maximum of 24 inches on center. 4) Fire-retardant treated wood studs spaced a maximum of 24 inches on center with 5/8-inch Type X gypsum wallboard or 1/2-inch MgO board in the interior.
Fire Stopping in Stud Cavity at Floor Lines Use Item 1 or 2	<ol style="list-style-type: none"> 1) 4-inch, 4 pcf mineral wool (friction fit or installed with Z clips) 2) FRT lumber – 1 1/2 -inch- thick minimum
Stud Cavity Insulation Use Item 1, 2 or 3	<ol style="list-style-type: none"> 1) None 2) Full or partial fill mineral wool 3) Full or partial fill fiberglass batts
Composite Exterior Sheathing Use Item 1, 2 or 3 on Base Wall 3 or 4 Note: The ArmorWall panel is assumed to be bare with no water-resistive barrier (WRB). The WRB below is allowed on the ArmorWall surface.	<ol style="list-style-type: none"> 1) Maximum 3 3/4-inch-thick ArmorWall Panels (Maximum 3/4-inch foam insulation with 1/2-inch MgO Board on the exterior side) as manufactured by MaxLife (DuPont) installed vertically or horizontally and attached directly to substrate with insulation facing inward. Installed at a minimum #14-13 DP1 self-drilling screws spaced 12 inches on center vertically on every stud. 2) ArmorWall SP Max 4 1/4-inch-thick ArmorWall Panels (Maximum 3/4-inch foam insulation with 1/2-inch MgO Board on both sides) as manufactured by MaxLife (DuPont) installed vertically or horizontally and attached directly to substrate with insulation facing inward. Installed at a minimum #14-13 DP1 self-drilling screws spaced 12 inches on center vertically on every stud. 3) ArmorWall HD, Maximum 3 3/4-inch-thick ArmorWall Panels (Maximum 3/4-inch foam insulation with 1/2-inch MgO Board on the exterior side) as manufactured by MaxLife (DuPont) installed vertically or horizontally and attached directly to substrate with insulation facing inward. Installed at a minimum #14-13 DP1 self-drilling screws spaced 12 inches on center vertically on every stud. These panels use 2-inch-wide strips of 1/2-inch MgO board on the interior side of the MgO face sheet spaced 16 inches on center to allow increased substrate thickness for cladding attachment fasteners and shear.
WRB over Composite Exterior Sheathing	Dörken Systems Inc. - DELTA®-DRY & LATH
Exterior Cladding Use Item 1 or 2	<ol style="list-style-type: none"> 1) Stucco – minimum 7/8-inch-thick exterior cement plaster and lath, installed in accordance with the IBC or IRC. 2) Thin brick/cultured stone, not less than 3/4-inch-thick set in thin-set adhesive and metal lath that has been tested to ASTM E119 (brick exposed to furnace) and remains in place for a minimum of 30 minutes, or has passed an NFPA 285 test.
Opening Perimeters Use ArmorWall Protection Base wall opening perimeter as noted.	To protect ArmorWall use 1 1/2-inch-thick fire-retardant treated lumber. Base wall opening perimeter shall be minimum No. 20-gauge C Channel when using steel stud walls or 1 1/2-inch thick FRT lumber when using FRT studs. When the base wall is CMU or concrete, steel or FRT framing may be added to the rough opening to attach/install windows/doors, etc.
Panel-to-Panel Connection	For prefabricated assemblies, connect to panels with either option listed below: <ol style="list-style-type: none"> 1) Sandwiching 2-inch-depth, 4 pcf mineral wool then cover the joint with maximum 6-inch-wide seam tape. 2) Noncombustible backer rod and caulked with Class A per ASTM E84 silicone building sealant.



CALIFORNIA SUPPLEMENT

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CSI Sections:

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09 22 36 Lath

1.0 RECOGNITION

The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH described in ER-323 and this supplement report have been evaluated for use as a substrate to apply to cement plaster (Stucco). The structural performance, drainage efficiency, fire propagation characteristic, and physical properties of DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH as noted in this supplement comply with the intent of the provisions of the following codes:

- 2022 California Building Code (CBC)
- 2022 California Building Code (CRC)

2.0 LIMITATIONS

Use of DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH recognized in this supplement is subject to the following limitations:

2.1 The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH shall comply with the provisions applicable to the 2021 IBC or 2021 IRC as described in ER-323.

2.2 Design requirements shall be determined in accordance with the applicable code.

2.3 The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH have not been evaluated for use in the exterior design and construction of new buildings located within a Wildland-Urban Interface Fire Area described in Section 701A.1 and 707A of the CBC.

2.4 The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH have not been evaluated for use in the exterior design and construction of new buildings located within a Wildland-Urban Interface Fire Area described in Section R337.1 of the CRC.

2.5 This supplement expires concurrently with ER-323.

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CITY OF LOS ANGELES SUPPLEMENT

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1.0 RECOGNITION

The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH described in ER-323, the California Supplement to ER-323, and this supplement report have been evaluated for use as a method for draining water from a cement plaster (stucco) or adhered masonry veneer system. The drainage efficiency and physical properties of DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH as noted in this supplement comply with the intent of the provisions of the following codes:

- 2023 City of Los Angeles Building Code (LABC)
- 2023 City of Los Angeles Residential Code (LARC)

2.0 LIMITATIONS

Use of DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH recognized in this supplement is subject to the following limitations:

2.1 The DELTA[®]-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH shall comply with the provisions applicable to the 2021 IBC or 2021 IRC as described in ER-323.

2.2 Design requirements shall be determined in accordance with the applicable code.

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FLORIDA SUPPLEMENT

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1.0 RECOGNITION

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- 2023 Florida Building Code, Building (FBC, Building)
- 2023 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

Use of DELTA®-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH recognized in this supplement is subject to the following limitations:

2.1 The DELTA®-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH shall comply with the provisions applicable to the 2021 IBC or 2021 IRC as described in ER-323.

2.2 Design requirements shall be determined in accordance with the applicable code.

2.3 Use of DELTA®-DRY & LATH and BORAL DRAIN ‘N’ DRY LATH in the High-velocity Hurricane Zone (HVHZ) is outside the scope of this report.

2.4 For products falling under Section (5)(d) of Florida Rule 61G20-3.008, verification is required that the report holder’s quality assurance program is audited by a quality assurance entity, approved by the Florida Building Commission (or the building official when the report holder does not possess an approval by the Commission), to provide oversight and determine that the products are being manufactured as described in this evaluation report to establish continual product performance.

2.5 This supplement expires concurrently with ER-323.

For additional information about this evaluation report please visit www.uniform-es.org or email at info@uniform-es.org