CSI: DIVISION: 22 00 00—PLUMBING
           Section: 22 40 00—Plumbing Fixtures (Shower System Kit)

Product certification system:

> The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Marmox Board / ProTile®/ Shower Systems and Dural USA Tile Backer Board + Underlayments and Ardex TLT Backerboard+ Underlayments

Listee: Chemicals for Modern Building (CMB) Egypt
           319 El Haram Street
           Giza, Egypt
           www.cmbegypt.com
           www.cmbgroup.com

Additional listees:

> ProTile Systems, Inc.
> 3312 Northside Drive, Suite 416
> Key West, Florida 33040
> www.ProTileSystems.com
>
> Dural USA
> 711 North Varnell Rd.
> Tunnel Hill, GA 30755 USA
> www.dural.com
>
> ARDEX Americas
> 400 Ardex Park Drive
> Aliquippa, Pennsylvania 15001
> www.ardex.com

Compliance with the following codes:

> 2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code®* (IPC)
> 2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)
> 2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code®* (UPC)*
> 2022, 2019, 2016, and 2013 *California Plumbing Code* (CPC)
> 2023, 2020 and 2017 *City of Los Angeles Plumbing Code*
> 2022 *Uniform Illustrated Plumbing Code-India™* (UIPC-I)*
>
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Compliance with the following standard:

> ANSI A118.12-2014(R19), Specification for Robinson Floor Test and Crack Isolation Membranes for Thin Set Ceramic Tile and Dimension Stone Installation
> ASTM C666-2015, Test Method for Resistance of Concrete to Rapid Freezing and Thawing
> ASTM E84-2023d, Test Method for Surface Characteristics of Building Materials
> ASTM E331-2000(R23), Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
> IAPMO PS 106-2015e1, Tileable Shower Receptors and Shower Kits

Identification:

> Packaging label for each system shall include the manufacturer's name or trademark as well as the ICC-ES PMG certification mark.

Installation:

> The Marmox Board / ProTile®/ Shower Systems or Dural USA Boards or Ardex TLT Backerboard shall be installed in accordance with the manufacturer's published instructions and the applicable code(s). Shower system components shall be assembled and can be customized in the field. All shower bases and panels can be cut to size with hand saws or skill saws. Round curvy cuts can be made with a hand saw or jig saw. Marmox / ProTile™/ or Dural USA Boards or Ardex TLT Backerboard pre-sloped, ready to tile shower bases may be used in lieu of an ANSI Z124.1.2 plastic shower receptor or any liner-based shower base installation.

> When provided, drains must comply with ASME A112.18.2/CSA B125.2 as applicable. Marmox / ProTile™ or Dural USA or Ardex TLT Backerboard drain assemblies do not require weep holes.

Models:

> The Marmox Board / ProTile®/ Dural USA Boards or Ardex TLT Backerboard Shower Systems are pre-sloped, ready-to-tile floor units. Marmox / ProTile/ Dural USA Boards or Ardex TLT Backerboard shower panels are engineered as a general-purpose backer board and underlayment for tile and consist of rigid extruded polystyrene foam covered on both sides with cement based, honeycombed, polymer modified surface and reinforcing mesh for durability and bonding with any type of thinset mortar. Marmox / ProTile®/ Dural USA Boards or Ardex TLT Backerboard Shower bases and wall panels, system assembly and components were proven to be waterproof when tested in accordance with IAPMO PS 106 and ASTM E331. The VP1 boards have an average permeance value of up to .008 (gr/ft²/hr) when tested in accordance with ASTM E96. Material was verified as having no visual defects or cracks when tested to ASTM C666 and the installation is rated "Extra Heavy" when tested to ANSI A118.12 and has a flame-spread rating of 0 and smoke development rating of 70 for a Class A rating when tested in accordance with ASTM E84.

> <u>Brand Names</u>
> - Marmox Board , Marmox Board VP3000 ,Marmox Board VP-1.
> - Marmox Shower Systems.
> - Protile Shower Systems
> - Dural USA tile Backer Board underlayment.

> Shower system may include the following components: shower bases, wall panels, curbs, niches, seats, benches, ramps, vapor barrier, fasteners, cover plates, sealants and drain.

Additional Listee Models:

Company Name	Product/Brand Name	Part Number	Description
ARDEX Americas	ARDEX TLT Backerboard	available in a number of thicknesses (1/8" to 2") and sizes ranging up to 48" x 96" in diameter.	XPS foam panel manufactured with a waterproof proprietary blend of synthetic polymer mortar and an alkali resistant fiber mesh.

Company Name	Product/Brand Name	Part Number	Description
Dural USA	Durabase	available in a number of thicknesses (1/8" to 2") and sizes ranging up to 48" x 96" in diameter.	XPS foam panel manufactured with a waterproof proprietary blend of synthetic polymer mortar and an alkali resistant fiber mesh.

Conditions of Listing:

1. The Marmox Board / ProTile®/ Dural USA Boards or ARDEX TLT Backerboard Shower Systems shall be installed in accordance with the manufacturer's published instructions and the applicable code(s).
2. The Marmox Board / ProTile®/ Dural USA Boards or ARDEX TLT Backerboard Shower Systems are manufactured under a quality control program with annual surveillance inspections by ICC-ES.