

1/25/2024

1. PRODUCT NAME

Hydra-Board (Cementitious-coated Extruded Foam Backer Board)

2. MANUFACTURER

PROFLEX® Products, Inc.
1603 Grove Ave.
Haines City, FL 33122
Telephone: 863-937-9623
Toll Free: 877-577-6353
Fax: 863-937-9624
Internet: www.PROFLEX®.us

(Board Dimensions: 36" x 60" x 1/2")



3. PRODUCT DESCRIPTION

PROFLEX® Hydra-Board is a lightweight, cementitious-coated extruded foam backer board with 100% waterproof surface. PROFLEX® Hydra-Board consists of high-density, polystyrene foam composite, strengthened on both sides with specialized fiberglass reinforced polymer-infused cementitious surface layers. These outer layers allow direct tile and stone bonding mortars to adhere to the surface while having a waterproof barrier underneath. The PROFLEX® Hydra-Board is a strong and light board that is perfect for floors, walls and ceilings. Use as an interior substrate for ceramic tile, stone, slate, and thin-brick veneers in dry, damp, or wet areas. Reduce installation time, labor effort and save money with this easy-to-cut, backerboard which is much lighter than gypsum or cement boards.

Advantages

- Applies to Proflex System Warranty (Up to Lifetime)
- Perfect for all wet rooms.
- Cuts easily with utility knife or saw.
- Accepts all types of mortars.

Board Dimensions

- 1/2" 3'x5' board - 15sq. ft. per sheet
- 1/4" 3'x5' board - 15 sq. ft. per sheet
- 1/8" 2'x4' board - 8 sq. ft. per board

Coverage:

Dimension/Size	Coverage
1/2"	75 sq. ft. per box
1/4"	75 sq. ft. per box
2'x4'	80 sq. ft. per box

4. TECHNICAL DATA

Application	Residential and Commercial
Uses	Backer board for wet rooms
Installations	Conventional installation and above or below grade

1/25/2024

Anti-microbial	Fungus and Microorganism Growth Resistance ASTM D4551 Complied
Density at ½" thickness	> 0.8 lbs/sq.ft.
Compressive Strength	ASTM D1621 36 psi
Tensile Strength	ASTM D1623 33 psi
Shear Strength	ANSI A118.10 50 psi
Load and Water Spray Test	Complied
Hydrostatic Pressure	ASTM C1325-22 Type B Complied
Point Impact Load	CSA B45.5/IAPMO Z124 Complied
Area Impact Load Test for Shower Wall Surrounds	CSA B45.5/IAPMO Z124 Complied
Operating Temp Range	0° to 140° F
Ozone Depleting Substances	Zero
Emission of TVOC/Carcinogenic Compounds	Passed (ISO16000-2006/COR1-2007&ISO16000-6:2001 & ISO16000-3:2011
Sound Reduction Index (1/2" board)	ISO 10140-2:2010 21Db
Noise Reduction Coefficient (1/2" board)	ISO 354:2003 NRC=0.10
Avg Absorb Coefficient 'a(1/2"board 100Hz ~500Hz)	ISO354:2003 0.08

5. INSTALLATION

Installation Instructions

General Interior Applications: All framing must comply with local building code requirements and be designed to provide support with a maximum allowable deflection of L/360 of the span under all intended loads. It may require the services of a qualified design professional (e.g., architect, construction engineer, etc.). Maximum stud spacing 16" on center. Wood studs must be dry and well-braced, minimum depth 3½". Metal studs must be well-braced; 20 gauge (0.033") or heavier; minimum depth 3½" for residential applications or 3½" for commercial applications. Framing members must be plumb and straight for maximum variation in the tile substrate with tiles with all edges < 15"; maximum variation is ¼" in 10' from the required plane, with no more than 1/16", variation in 12" when measured from the high points in the surface. For tiles and stone with at least one dimension ≥ 15" in length, maximum variation is 1/8" in 10' from the required plane, with no more than 1/16" variation in 24" when measured from the high points in the surface

- Place on wall working from the bottom row and work upward. Fit PROFLEX® Hydra-Board ends and edges tightly together, including in corners. Cutting PROFLEX® Hydra-Board is different than traditional cement backerboards, PROFLEX® Hydra-Board allows easier, "all the way through cuts" with a sharp utility knife/blade. The board should NOT be scored & snapped for cutting the product. Avoid damaging or peeling the outer board layers.
- Apply a ¼" bead of PROFLEX® Super Caulk in panel joints as panels are being installed. When two boards come together to make a joint apply a 1/4" bead of caulking. All boards must be fitted together tightly allowing sealant PROFLEX® Super Caulk to squeeze out and seal the joint. All excess PROFLEX® Super Caulk should be spread thin ensuring a continuous seal at the joint.
- Position and center PROFLEX® Hydra-Board end or edge joints on framing and stagger joints in adjacent rows so four corners do not come together.

1/25/2024

- Cut in backer board for plumbing and all cut joints between adjoining pieces and seal with PROFLEX® Super Caulk and additional waterproofing collars.
- Fasten PROFLEX® Hydra-Board to studs with use of alkali & corrosion resistant screws & washers. Alkali & corrosion resistant screws and washers will be necessary at 8" intervals apart into wall studs or floor joist. Screws and washers will be necessary at 6" intervals apart for ceiling joist supports. Fastening the PROFLEX® Hydra-Board takes much less effort than a traditional cement board. Secure board with fasteners and avoid crushing or overdriving fasteners into the PROFLEX® Hydra-Board foam core. Fasteners should be driven-in flush with the board's surface and no deeper.
- All screw heads with washers and board seams should be sealed with PROFLEX® Super Caulk by flattening the caulk with a putty knife.
- For steam shower application or higher performance, cover all surfaces, seams, and screws & washers with two coats of PROFLEX® Hydra -Seal Liquid Applied Membrane. Reinforce and embed Hydra-Seal Mesh Tape in all inside/outside corners and changes in plane before the full two coats.
-
- Allow PROFLEX® Super Caulk and PROFLEX® Hydra-Seal to dry cure and you are now ready to apply mortar for tile setting. All bonding mortars should comply with ANSI A118.4 or A118.11 or higher standards. Use a polymer modified thin-set or LHT type setting mortar. Bonding tile or stone with size dimensions smaller than 15" use PROFLEX® Super-Stick setting mortar. Large Heavy Tile (LHT) or stone 15" and larger use PROFLEX® Pro-stick 42 XLT as the setting bond coat. PROFLEX® Hydra-Board will accept bond of the mortar to either side of board.
- Apply tile bonding mortar or adhesive per the manufacturing directions. Follow TCNA detailed drawings for this product can be referenced as follows, B425, B426, C315, F175, W246 and incorporate movement joints EJ171.

Transport, Storage and Handling

Hydra-Board is lightweight and therefore susceptible to wind. If outdoors, or transporting in an open truck bed, it is recommended to secure the board. Product should be stored in a clean, and dry, area and out of direct UV /Sunlight exposure. Store the boards flat and not on edges. Wear protective gear for Portland cement and fiberglass dust, debris when cutting the board.

Limitations

Hydra-Board is not for use in exterior applications. Hydra-Board should not be used as a structural load-bearing member. Shower grab bars or other support railing must be anchored in the frame structure or with solid blocking behind Hydra-Board. Do not use drywall fiberglass tape and do not use wallboard joint compound. For glass tile, consult glass tile manufacturer for recommendations on proper adhesive. Some glass tiles may not be compatible with bonded waterproof membranes, cement bond mortars, wet areas and/or may require special setting materials. Contact the glass tile manufacturer for more information. Moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as bathtub/ shower surrounds or may require special setting materials. Consult stone manufacturer/supplier for more information.

6. AVAILABILITY

Packaging:

1/25/2024

1/2" Boards – 5 Sheets Per Carton / 16 Cartons Per Pallet/ 80 Sheets Per Pallet
1/4" Boards – 10 Sheets Per Carton / 16 Cartons Per Pallet/ 80 Sheets Per Pallet
1/8" Boards – 10 Sheets Per Carton / 23 Cartons Per Pallet/ 80 Sheets Per Pallet

PROFLEX® Products are available nationwide.
To locate PROFLEX® products in your area, please contact:
Phone: 877-577-6353
Website: www.PROFLEX.us

7. WARRANTY

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting www.PROFLEX.us

8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical assistance
Information is available by calling the Technical Support
Toll Free: 877-577-6353
Fax: 863-937-9624
Technical and safety literature: To acquire technical and safety literature, please visit our website www.PROFLEX.us

10. FILING SYSTEM

Division 9
ver. 020723