

HB ONE DRYWALL

HydroBlok ONE Drywall boards offer a lightweight, moisture-resistant, and durable replacement for standard gypsum wallboard, designed to deliver superior performance in residential and commercial settings. Its unique combination of a high-density XPS foam core and a smooth proprietary coating ensures easy finishing, impact resistance, and moisture protection.

System Components Include:

HB ONE Drywall Boards: XPS core with a smooth proprietary coating and embedded fiberglass mesh.

Seam Tape: Self-adhesive fiberglass mesh tape (best practice) or standard drywall tape for reinforcing board joints.

Joint Compound: Use standard premixed or dry compound for taping and finishing.

Standard Drywall Fasteners: Standard drywall screws can be used to secure HB ONE Drywall boards to framing.

PRODUCT DATA

Available Sizes:

THICKNESS	DIMENSIONS	UOM	Weight/Board	Weight/Pallet
1/2"	48" x 96" (4' x 8')	80 pcs/pallet	30.42 lb	3,016 lbs/pallet
1/2"	48" x 144" (4' x 12')	80 pcs/pallet	45.19 lbs	4,669 lbs/pallet
5/8"	48" x 96" (4' x 8')	75 pcs/pallet	32.41 lbs	3,155 lbs/pallet
5/8"	48" x 144" (4' x 12')	65 pcs/pallet	48.06 lbs	4,365 lbs/pallet

APPLICATIONS

Interior Wall And Ceiling Systems: Perfect for walls and ceilings in residential and commercial buildings.







High-Traffic Areas: Ideal for schools, hospitals, offices, and other areas exposed to frequent wear and tear.

Moisture-Prone + High Humidity Areas: Suitable for bathrooms, kitchens, basements, and other spaces with high humidity or occasional water exposure, as well as high humidity climates.

ADVANTAGES

- HB ONE Boards:** HB ONE Drywall provides excellent thermal insulation with an R-value of 4 per inch of thickness, promoting energy efficiency in buildings by reducing heating and cooling demands. This is more than 4x that of traditional gypsum drywall.
- Durable Drywall Coating:** The finish offers a smooth surface ready for taping and painting, while providing superior impact and scratch resistance for high-traffic areas.
- 100% Moisture and Mold Proof:** The closed-cell XPS core resists water absorption, preventing mold and mildew. Ideal for use in high humidity regions and moisture-prone areas.
- Easier to Repair than Gypsum Board:** Damaged areas can be quickly patched with joint compound, saving time and reducing repair costs compared to gypsum-based alternatives.
- 4 Beveled Edges for Seamless Finishing:** Beveled edges on all four sides allow easy taping and smooth transitions between boards.
- 60% Lighter than Traditional Drywall:** HB ONE Drywall boards are easier to handle, cut, and install than gypsum boards, saving labor costs and reducing on-site safety risks.
- Zero Learning Curve:** Uses the same tools, cuts, screws, tape, and mud as traditional drywall.

TECHNICAL PROPERTIES

Specification	Testing Standard	Result
 Flame Spread	ASTM E84	Class A
 Fire Resistance	ASTM E119	1 Hour
 Water Absorption	ASTM C578	Less than 1%
 Water Vapor Transmission	Meets ASTM C578	Meets ASTM E96
 Freeze/Thaw Resistance	ASTM C666	PASSED
 Fungus/Bacteria Resistance	ASTM D4551-12	PASSED
Density	N/A	Min 2LB/FT3
Compressive Strength	ASTM D1621	>36psi
Thermal Resistance	ASTM C518	R4 Per Inch of Thickness
Tensile Strength	ASTM D1623	>33psi
Linear Expansion	ASTM D1037	0.005%
Shear Testing	ASTM E72	PASSED
VOC Emissions	ISO 16000-3: 2021	Zero
Adhesive Compatibility	ASTM C1397	ASTM C1397 Compliant

Disclaimer:
Achieves a 1-hour fire rating in certain wall assemblies. Ask for more details.

BASIC INSTALL

- 1 Cut Boards**
To cut HB One Drywall, score about 1/8 inch into the white surface (Score twice for a cleaner cut), snap along the line, and cut through the fiberglass mesh to separate. Alternatively a saw can be used for more precise cuts.
- 2 Fasten HB ONE Drywall Boards**
Secure boards to studs using standard drywall screws, spacing screws every 16" vertically and 12" on board edges. Ensure screws are flush with the surface.
- 3 Stagger Seams**
Stagger seams by at least 24 inches for added strength.
- 4 Tape Seams**
Uses standard drywall tape. As a best practice, you can also use a fiberglass mesh tape over the seams.
- 5 Apply Drywall Joint Compound**
First Coat: Use a 4–6" taping knife to embed the tape and feather edges slightly. Allow 24 hours to dry.
- 6 Second Coat**
Lightly sand the first coat to remove any high spots. Apply a wider coat with a 10–12" knife, extending 8–12" beyond the seam. Allow 24 hours to dry.
- 7 Optional Third Coat**
Lightly sand the second coat and apply a final thin coat for a smooth finish. Allow 24 hours to dry.
- 8 Sand and Paint**
After the final coat of compound has dried, sand lightly and apply primer before painting the surface.

Full application instructions can be found at:
www.hydroblok.com

SUSTAINABILITY

Recyclable Core: XPS foam is fully recyclable, reducing waste.

Low VOC Emissions: Compliant with ISO 16000-3 standards for healthy indoor air quality.

Energy Savings: High thermal resistance reduces energy consumption.

Lightweight Design: Reduces transportation costs and labor efforts.

LIMITATIONS

Not Suitable for Exterior Use: HB ONE Drywall is designed exclusively for interior applications and should not be used as exterior cladding or in environments directly exposed to weather conditions.

Avoid Direct Water Exposure: While HB ONE Drywall provides moisture resistance, it is not intended for use in areas subject to constant or direct water exposure, such as shower enclosures, pools, or below-grade installations.

Non-Load Bearing: HB ONE Drywall is a wall cladding product and does not provide structural support. It should not be used as a load-bearing or structural component.

Limited Thermal Resistance in High-Temperature Areas: HB ONE Drywall should not be used near high-heat sources like fireplaces or commercial kitchen equipment, as extreme temperatures may affect its performance.

Not for Use with Heavy Adhesive Finishes: HB ONE Drywall may not be suitable for finishes that require heavy or thick adhesives, as it is designed primarily for standard paints, light texture coatings, and wallpaper.

PACKAGING & STORAGE

Packaging: Boards are shipped on pallets, wrapped for protection.

Storage: HB ONE Drywall boards should be stored in a dry area off the ground prior to use.

WARRANTY

HydroBlok warrants that all its foam based products will be free from all manufacturing defects, and will not deteriorate or break down under normal use for 10 YEARS from the date of purchase when the product is used and installed in accordance with the written specifications of HydroBlok's technical data sheets, instructions and industry standard guidelines. Refer to full warranty details on the website for specific conditions and limitations.

Project Name _____

Project Location _____

Architect/Engineer _____

Contractor _____ **Date** _____

CONTACT INFORMATION

For technical assistance, installation support, or further inquiries, please contact:
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