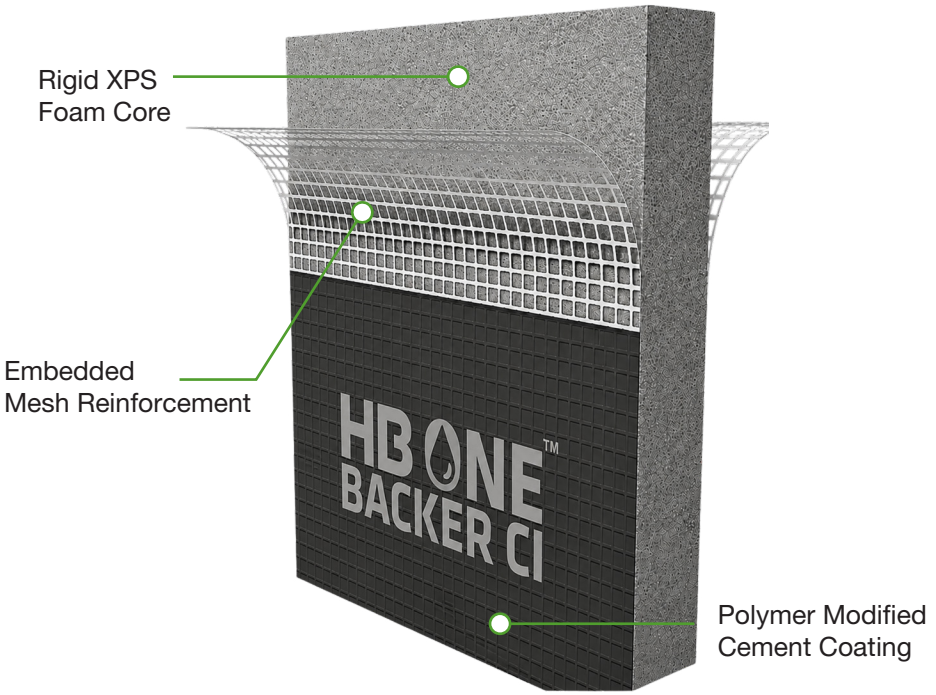
HYDROBLOK™

TECHNICAL DATA SHEET

HB ONE™ | BACKER CI

HydroBlok ONE Backer CI is a lightweight, Composite Insulated Sheathing panel, designed for use as exterior sheathing in wood-framed and cold-formed steel-framed wall assemblies. The panel combines continuous insulation, a durable, bondable substrate, and secondary air/water-resistive barrier performance, when installed with approved accessories and joint treatment.

HydroBlok ONE Backer CI is manufactured with a closed-cell XPS foam core laminated between mesh-reinforced polymer-modified cementitious facers. The result is a lightweight, moisture-resistant, mold-resistant panel designed to reduce installation steps while improving wall assembly performance.



KEY FEATURES

Combines Multiple Wall Functions In One Board

Backer CI delivers a 5-IN-1 system, combining sheathing (non-shear), secondary WRB, insulation, lath and scratch coat into one high-performance board.

Moisture and Mold Resistant

Closed-cell XPS core and cementitious facers provide excellent resistance to moisture exposure and mold growth.

Lightweight and Easy To Handle

Significantly lighter than traditional sheathing materials, reducing jobsite handling effort and improving installation speed.

Energy Code Compliant

Delivers true continuous insulation to minimize thermal bridging while meeting today's evolving energy codes.

BOARD SIZES

HydroBlok One Backer CI boards are available in 4x8 Sheets and in the following thicknesses.

1/2" (12 mm) 1" (25 mm) 1 1/2" (38 mm) 2" (50 mm)

Custom sizes available in volume quantities.

PHYSICAL PROPERTIES

Property	Test Standard	*Value
Thermal Resistance. R-Value ($ft^2 \cdot hr \cdot °F/BTU$)	ASTM C518	3.7
Flexural Strength (psi)	ASTM C203	381.2
Water Vapour Permeance. Perms (grains per hr-ft.^{2}-inHg)	ASTM E96	1.0
Surface Burning Characteristics. (Flame Spread Index)	ASTM E84	<25
Surface Burning Characteristics. (Smoke Developed Index)	ASTM E84	<450
Water Absorption	ASTM C272	0.15%
Service Temperature		165°F

** Physical properties are based on laboratory testing and may vary with manufacturing tolerances, installation, assembly design, and jobsite conditions. Refer to the applicable ICC-ES Evaluation Report for approved uses and requirements.*

STORAGE & HANDLING

Store boards flat, elevated from the ground, and supported to prevent warping, bending, or damage.

Protect boards from prolonged sun exposure, standing water, poor ventilation, high winds, and harmful chemicals/solvents. Cover when stored outdoors, allow airflow, and secure panels as needed.

NOTES & LIMITATIONS

- HydroBlok One Backer CI may be installed over existing sheathing if it is structurally sound and clean.
- Approved for installation over OSB (PS-2) plywood (PS-1) or gypsum (C1177) Sheathing.
- Light efflorescence, a white residue, may appear after boards get wet. This is normal and does not impact performance and can be removed prior to base or stucco applications.
- All boards must be covered with finish within 180 days.
- The HYDROBLOK Backer CI system is designed to manage incidental moisture. Proper integration of WRB, flashing and drainage components is required to ensure performance.
- Multiple installation components and accessories exist from a wide range of manufacturers. Use of non-approved materials may affect performance and void any claim against HydroBlok CI manufacturers' warranty. Consult with a HYDROBLOK CI technical representative for approval of specific installation components.

TECHNICAL INFORMATION

HydroBlok ONE Backer CI may be installed over wood or cold-formed steel framing in accordance with the HydroBlok installation instructions, applicable code approvals, and project-specific engineering requirements

Panel fastening schedules must be selected based on the required design loads, framing type, stud spacing, wall height, cladding type, and applicable code requirements.

When used as part of an air and water-resistive barrier system, all panel joints, penetrations, fasteners, openings, terminations, and transitions must be sealed using approved HydroBlok accessories, sealants, tapes, flashing materials, or compatible third-party components as specified in the installation instructions

All wall assemblies should be evaluated for vapor control, drying potential, climate zone, interior humidity conditions, and compatibility with the selected exterior cladding system.

HydroBlok ONE Backer CI should be protected from prolonged UV exposure and weathering prior to final cladding installation.

Maximum exposure limits should be based on HydroBlok's published installation instructions and project-specific conditions.

HydroBlok CI must be separated from interior living or conditioned spaces by an approved thermal barrier or ignition barrier where required by applicable building code.

Disclaimer of Liability

Technical information is provided for general guidance only and is subject to change without notice. Actual performance depends on proper installation, project design, environmental conditions, framing, fastening, cladding selection, and use of approved accessories. The design professional of record is responsible for confirming that the product and assembly are suitable for the intended application and comply with applicable building codes.

LIMITED WARRANTY

HydroBlok ONE Backer CI is backed by a limited warranty covering manufacturing defects and product performance when installed in accordance with HydroBlok's published installation instructions, applicable code approvals, and project requirements.

Visit our website for more details: www.hydroblok.com

STANDARDS AND CODE COMPLIANCE

Code Recognition:

HydroBlok Panels are evaluated under ICC-ES ESR-5559 for recognition under the 2024 and 2021 International Building Code® (IBC) and International Residential Code® (IRC), as well as applicable code supplements. Final code compliance, allowable uses, installation requirements, limitations, and approved assemblies are governed by the published ICC-ES Evaluation Reports and applicable supplements.

Evidence Submitted	Standard / Criteria
Corrosion Resistance Testing	ASTM B117
Water Resistance Testing	ASTM D2247
Surface-burning Characteristics Testing	ASTM E84
Fire-resistance Rating Testing	ASTM E119
Transverse Load Testing	ASTM E330, Procedure B
Water Penetration Testing	ASTM E331
Tensile Adhesion Bond Testing	ASTM E2134
Freeze-Thaw Testing	ASTM E2485
Reports of accelerated weathering testing	ASTM G155
Reports of drainage performance testing	ASTM E2273
Reports of Shear Load Testing	ASTM E72
Quality documentation	ICC-ES Acceptance Criteria for Quality Documentation, AC10

Note: Approved uses, limitations, installation requirements, and code recognition are governed by the applicable ICC-ES Evaluation Report and HydroBlok installation instructions.

CONTACT INFORMATION & TECH SUPPORT

For additional product information, installation guidance, technical support, or project-specific questions, contact HydroBlok:

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