

The HB ONE Board is engineered for exceptional durability and insulation, offering superior protection against the elements while improving energy efficiency. With a 1/2-inch thickness, it provides impressive strength, making it ideal for large-scale commercial and residential projects that demand enhanced insulation and structural support. This board features excellent moisture resistance and weather protection, ensuring reliable performance even in tough conditions. Its large format accelerates installation by reducing seams, making it a practical choice for exterior applications. In stucco projects, the HB ONE Board minimizes material use, shortens cure time, reduces steps to completion, and significantly cuts labor hours.



Required Materials:

- **OSB** or equivalent sheathing for the substrate.
- **Water Resistant Barrier (WRB):** Provides a waterproof barrier over the wood sheathing. Not needed if using HydroBlok ONE Sheathing.
- **HB One Exterior Boards:** Adds durability, moisture resistance, and speeds up the stucco process. Available sizes:

THICKNESS	SIZE FORMAT
1/2"	48' x 96"
1"	48' x 96"
2"	48' x 96"
- **Drainage Plane (Optional)**
- **Base Coat/Adhesive:** Use HydroBlok Bond + Seal Coat or approved base/adhesive. Reference Table 2.
- **Expanding Polyurethane Foam** to seal windows and doors.
- **HydroBlok 4" wide Mesh Tape or equivalent Alkali-resistant mesh to tape seams.** Reference Table 2.
- **HydroBlok Sealant (Optional):** Can be used for additional waterproofing or when wet shimming is necessary.
- **Finish:** Final finish layer which may include brick veneer, tile, stone or stucco finish.
- **HydroBlok Screws or Screws and Fasteners:** Depending on the applications. Reference Table 1.
- **Staples:** For attaching the house wrap.
- **Tools:**
 - Impact drill
 - Staple gun
 - Flat trowel
 - Utility knife
 - Tape Measure
 - Laser OR Traditional Level

INSTRUCTIONS

1 Apply house wrap to sheathing per manufacturer's instructions.

NOTE: If using HydroBlok ONE Structural Sheathing instead of traditional wood sheathing, please follow instructions found on our website: www.hydroblok.com

2 (Optional) If a drainage plane is required, we recommend a WRB/Drainage product such as Tyvek Stucco Wrap or equivalent. Install according to the manufacturer's instructions.

3 Secure the first board in place using the Screw Guide for sizes and locations just inside the outside edge ensuring the head is fully within periphery of wall panel by at least 1/8" and engaging fully with the stud. Space fasteners according to the screw guide.

4 Attach the next board flush with the adjoining board and repeat steps 1-3.

5 Stagger board seams a minimum of 24" apart.

6 It is recommended to install weep screed drainage at bottom of wall. Check your local codes for specific requirements.

7 Seal all window and door openings between HydroBlok boards with HydroBlok or approved expanding polyurethane foam.

8 Apply HydroBlok or approved alkali-resistant 4" fiberglass mesh tape to seams by sticking mesh directly to any open seams between boards.

9 Apply HydroBlok Seam + Bond coat or equivalent directly over mesh tape and feather seams using a flat trowel at least 6" per side to prep for finish coat. Float seams after 10-15 minutes if needed for a smoother finish.

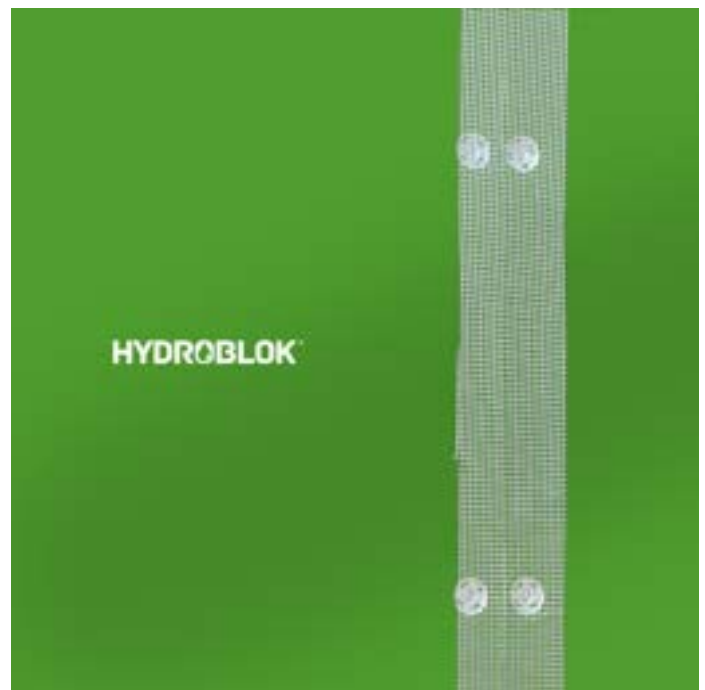
10 Apply HydroBlok Seam + Bond coat or equivalent to any exposed foam at termination points (corners).

11 Install HydroBlok or equivalent corner aids to all outside corners. See detail below.

12 Cover screws and washers with HydroBlok Seam + Bond coat or equivalent ensuring they are flush with the surface of the board.

13 Allow 24 hours (or manufacturer's recommended dry/cure time) for Seam + Bond coat to dry.

14 Apply finish coat directly to HydroBlok boards.



SCREW GUIDE

Assembly Type	Screw Type	Picture	Screw Length Needed Based on Board Thickness			Spacing Requirement
			1/2"	1"	2"	
HB One Boards to Wood Sheathing	Hydroblok Exterior Grade #8 Pan Head Screw		1 1/2"	2"	3"	16" on center
HB One Boards Direct to Wood Studs	Hydroblok Exterior Grade Screws + Hydroblok 1 1/4" Tabbed Washers		1 5/8"	2"	2 1/2"	12 inches in field, 6" on perimeter
HB One Boards Direct to Metal Studs	Self-drilling Pan Head Screws + Hydroblok 1 1/4" Tabbed Washers		1 1/2"	2"	2 1/2"	12 inches in field, 6" on perimeter
HB One Boards to CMU	Tapcon or Equivalent Concrete Screws + Hydroblok Tabbed Washers		1 1/4"	1 3/4"	2 3/4"	16" on center

Table 1

Corner Aid Installation

Corner aids are used to reinforce and protect exterior and interior corners of a stucco system. They help maintain sharp, straight edges and prevent damage from impact or wear over time. Corner aids are particularly important in high-traffic areas, building exteriors, and locations where mechanical damage is likely.

1

Preparation

- Ensure outside corners are clean and free of debris.
- If needed, apply HydroBlok Seam+Bond or equivalent to exposed foam before installing the corner aid.

2

Installation

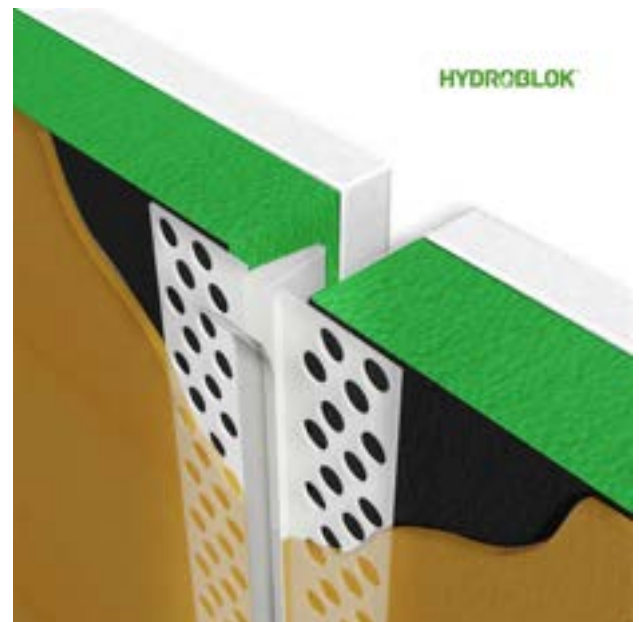
- Use HydroBlok Corner Aid for best compatibility.
- Cut the corner aid to length
- Apply a thin coat HydroBlok Seam + Bond Coat (about 3") to edges of both corners, enough to embed the corner mesh and hold the corner aid in place.
- Press the corner aid firmly into place and apply another layer of Seam + Bond coat with a trowel pushing down to ensure full contact with the board.
- Feather out the Seam + Bond coat at least 6 inches per side for a smooth finish.
- Allow the Seam + Bond coat to dry according to the manufacturers recommendations before applying acrylic/synthetic, usually 24 hours).



Expansion Joint Installation

Expansion joints are necessary to accommodate structural movement caused by temperature fluctuations, material expansion/contraction, and settling. Without them, stucco can develop cracks over time. Although HydroBlok One Boards are extremely dimensionally stable, expansion joints may still be required due to design requirements. Expansion joints should be placed approximately every 144 sq.ft. to ensure flexibility and reduce potential for cracking. HydroBlok recommends surface mount expansion Joints for ease of installation.

- 1** Mark the locations of the joints based on the desired layout.
- 2** Install HB One boards according to the instructions above ensuring proper spacing between boards to accept expansion joint channel.
- 3** Apply HydroBlok Seam+Bond coat or equivalent to embed the trim into the surface, ensuring smooth integration with the surrounding stucco.
- 4** Feather the Seam + Bond coat at least 6 inches on each side.
- 5** Once the Seam + Bond coat is dry, apply the desired final stucco finish.



Expansion Joint Installation

Reveal lines are architectural design elements that create visual breaks in the stucco finish such as between building façade materials or at fenestration openings. They can be used to mimic panelized construction, add texture, or highlight certain sections of a wall. Reveal lines can also help control cracking by allowing some degree of movement while maintaining a clean and modern appearance. HydroBlok recommends surface mount reveals for ease of installation.

- 1** Mark the reveal line locations based on the desired layout.
- 2** Install HB One boards according to the instructions above ensuring proper spacing between boards to accept reveal channel.
- 3** Apply HydroBlok Seam+Bond or equivalent to embed the trim into the surface, ensuring smooth integration with the surrounding stucco.
- 4** Feather the Seam + Bond coat at least 6 inches on each side.
- 5** Once the Seam + Bond coat is dry, apply the desired final stucco finish.

HydroBlok One boards can accommodate most standard, off-the-shelf accessories. If your project has unique design requirements contact our Tech Support team, and we will work with you to refine the details of your project.



SHIMMING FOR UNEVEN SHEATHING

If sheathing of the structure or walls are not flat, follow these steps:

Method 1 - Floating

Floating or feathering can be used in smaller areas to correct minor surface irregularities after HydroBlok One boards have been installed. Unlike wet shimming, which adjusts the substrate before board installation, this method involves applying Seam + Bond coat directly onto the boards at the same time as seam treatment after the boards have been installed.

- 1 Assess the flatness of the surface that you plan to install with a laser level or traditional level.
- 2 Determine the low and high spots and mark high spots on the surface with spray paint or a marker.
- 3 Apply HydroBlok Seam+Bond coat or equivalent to seams as per instructions above. Add additional layers of Seam + Bond coat over low areas, feathering outward to blend with the surrounding surface. Ensure the thickness of the applied Seam + Bond coat does not exceed 1/4 inch in any location.
- 4 Check for uniformity. Use a straightedge or long trowel to verify that the surface is smooth and even. If necessary, apply a second thin layer of Seam + Bond coat after the first layer has partially set and float as needed for a smoother surface.
- 5 Allow Seam + Bond coat to cure.

Method 2 - Wet Shimming

- 1 Assess the flatness of the surface that you plan to install with a laser level or traditional level.
- 2 Determine the low and high spots and mark high spots on the surface with spray paint or a marker.
- 3 When beginning the board installation use the highest point of the wall as your starting point. If in the center start from there and work your way to the outside.
- 4 Mark out the outside edge of the first board on substrate and apply the appropriate number of HydroBlok shims at each corner to flush out the panel to the substrate.
- 5 Apply a large dollop of HydroBlok sealant or equivalent every 16" at stud locations. Make sure the sealant is thick enough to account for the gap behind the board.
- 6 Fasten the board to the substrate with appropriate fasteners at the shim locations.
- 7 Allow enough time for the sealant to cure to a solid state (usually 24 hours or according to the manufacturer's recommendations).
- 8 Install screws with spacing according to the above chart. With thinner boards (1/2" thickness) screw locations need to be within 12" of sealant.
- 9 Install screws wherever the wall boards are shimmed. Add shims (wet or dry) and screws at least every 16" to create a completely level surface.

IMPORTANT NOTES For Shimming The Boards

- Exterior grade construction adhesive such as Loctite PL + Premium or other approved adhesives may also be used provided there is low compression when cured.
- Hard shims are only required at the 4 corners to flush out the panel and hold until wet shim cures.

Ask your HydroBlok sales representative about the HydroBlok Quick-Shim System or contact HydroBlok Technical Support at 1-866-382-2137 or email us at sales@hydroblok.com

PRODUCT COMPATIBILITY

The following products have been tested and proven successful with the HydroBlok One board. Any products used outside of these parameters must be used at your own risk and may impact the HydroBlok warranty. However, we are always looking for ways to improve our system so please contact our Tech Support Team with any questions about products that are not included in this guide.

Approved Base Coats for Seams	HydroBlok Seam + Bond Coat *Coming Soon
	Sto Base + Primer
	Master Wall
	Senergy
	Dryvit Genesis DM
Approved Finishes	HydroBlok Stucco Finish Coat *Coming Soon
	Master Wall
	Senergy Acrylic Finishes
	Dryvit acrylic Finishes
Alkali- Resistant Mesh Tape	HydroBlok 4" Mesh Tape *Coming Soon
	ADFORS® FibaTape
Approved Polyurethane Foam Sealants & Adhesives	HydroBlok Polyurethane Foam *Coming Soon
	HydroBlok Joint Sealant
	Sto Turbo Stick
	Sika Boom Window and Door
Approved WRB and Drainage Plane	Tyvek Stucco Wrap
	Tyvek House Wrap
	Bituminous wraps (tar or roofing paper)

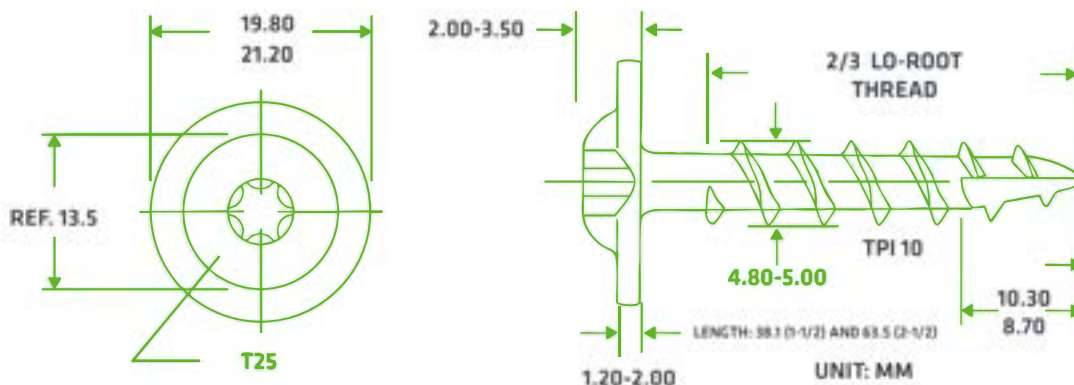
Table 2

DO NOT APPLY PRIMERS TO HYDROBLOK BOARDS

Primer is **NOT** required for proper adhesion of acrylic/synthetic stucco finishes. THIS MAY CAUSE DELAMINATION DUE TO THE PRESCENCE OF SOLVENTS.

Thin Brick and Other Veneers Over HydroBlok One Boards

The HydroBlok One boards can support thin brick, natural stone, manufactured stone, and other adhered veneers, provided proper drainage and installation methods are followed. When installing veneers over HydroBlok One boards, the following guidelines must be met to ensure structural integrity, moisture management, and long-term performance:



1**Drainage and Moisture Management**

- Follow the same guidelines for installation of approved drainage plane.

2**Attachment and Bonding**

- Veneers must be installed using an approved polymer-modified mortar or adhesive, applied per ANSI A118.4 or A118.15 standards.
- For thin brick and stone veneers, a minimum bond coat thickness of 1/4 inch is recommended to achieve proper adhesion.
- Always follow the manufacturer's instructions.
- Most polymer-modified mortars are compatible with Hydroblok ONE boards. If you have any questions please contact our technical support team.

3**Expansion Joints and Structural Considerations**

- Expansion joints should be incorporated at standard industry intervals to allow for structural movement and prevent cracking. Reference above for stucco installation.
- Veneer weight limits must not exceed 15 lbs per square foot unless approved by an engineer.

COMMON QUESTIONS & ANSWERS

What products are acceptable to use with HydroBlok One boards?

Refer to the HydroBlok One Compatibility Guide for a full list of approved materials.

How many screws/washers do you need to fasten a wall board?

Refer to the HydroBlok One Screw Guide for specific screw types and spacing recommendations.

How do you install the boards to create a perfectly flat, plumb wall when dealing with uneven structures?

You can use wet shimming or dry shimming techniques. See the full HydroBlok One installation guide for detailed instructions.

What should be done with the bottom of exposed boards at ground level?

Install accessories, caps, bug guards, or drainage systems to provide proper water management and protection. Check local building codes before installation.

What is the R-value of HydroBlok?

1/2" HydroBlok = 1.8 R-value, 1" HydroBlok = 3.6 R-value, 1.5" HydroBlok = 5.4 R-value.

Can HydroBlok One boards be installed as part of an EIFS or hard coat stucco system?

Yes, HydroBlok can be as a replacement for both EIFS and hard coat stucco systems. However, the installation process and required components may vary depending on system specifications. See the full HydroBlok One installation guide for detailed instructions.

Can I adhere stone or brick veneer directly to HydroBlok?

Yes you can install a variety of finish products to Hydroblok panels such as natural stone, tile, or brick veneer using HydroBlok Seam + Bond coat.

How do you cut HydroBlok One corners to fit together?

There are a few ways to finish corners with HydroBlok One boards. We recommend using our HydroBlok corner aids as the most robust option:

- Align the exposed side of one panel along the inside edge of the adjoining board at a 90-degree angle, leaving one foam edge exposed. Apply mesh tape along the corner and cover with Seam + Bond coat, feathering 6 inches on each side.
- Miter the corners at 45 degrees to eliminate exposed foam. Apply mesh tape and Seam + Bond coat, feathering 6 inches on each side.
- Use HydroBlok Corner Aids or an approved alternative for easier and more consistent corner installations.

Can stucco be applied directly to the exposed foam?

It is recommended that Seam + Bond coat must be applied to prepare the foam for stucco application.

How do you seal the joints between HydroBlok boards?

Seal between boards with HydroBlok expanding polyurethane foam, HydroBlok sealant, or equivalent. See compatible products above.

How do you seal the screws and washers?

Cover washers with Seam + Bond coat and flatten with a putty knife. For full waterproofing, apply Hydroblok polyurethane sealant over the washers, allow to cure 1-2 hours before applying the Seam + Bond coat over the polyurethane sealant to accept the finish coat. If installing brick veneer or tile it is not necessary to coat sealant with Seam + Bond coat.

COMMON QUESTIONS & ANSWERS (CONT.)

My HydroBlok One boards got wet and now have a white residue. Are they damaged?

No, this is normal and will not affect product performance. The white residue is caused by efflorescence, where salts from the cementitious coating rise to the surface after moisture exposure. Excess residue can be wiped off before stucco application, but in most cases, stucco can be applied directly over it.

How long can I leave HydroBlok One boards exposed before finishing?

HydroBlok One boards are coated with a cementitious layer, which provides UV resistance, but prolonged direct exposure of more than 30 days without a finish system is not recommended.

Can HydroBlok One boards be installed over existing stucco?

Yes, HydroBlok One boards can be installed over existing stucco as long as the surface is structurally sound, clean, and free of debris. A bonding agent or mechanical fasteners may be required for proper adhesion.

What is the recommended weather condition for installing HydroBlok One boards?

Install in dry conditions with temperatures between 40°F and 90°F. Avoid installation in rainy or excessively humid conditions, as moisture can affect curing times.

Can HydroBlok One boards be painted?

Yes, once the stucco finish coat has fully cured, it can be painted with an exterior-grade, breathable paint that is compatible with stucco.

How soon after installation can the finish coat be applied?

The Seam + Bond coat should be allowed to cure for 24 hours or per manufacturer's recommendations before applying the finish coat. In cold or humid conditions, additional drying time may be needed.

How should HydroBlok materials be stored on-site before installation?

Store boards in a dry, covered area away from direct sunlight and moisture. Stacking should be done flat and evenly to prevent warping.

Do I need to use a primer before applying the finish coat?

No you do not need primer prior to applying a finish coat. As a matter of fact we discourage the use of any primer on HydroBlok One boards as they may contain solvents that can cause delamination.