

HB ONE BACKER CI WITH STUCCO FINISH

INSTALLATION GUIDE

HydroBlok One Backer CI is a lightweight composite backer board that is compatible with most wall claddings. It increases energy efficiency through continuous insulation, along with providing a secondary air and water-resistive barrier (AWRB). The board is made of a mold and moisture resistant XPS insulation coated with a mesh reinforced polymer-modified cement, providing durability, installation speed and energy savings.

HydroBlok One Backer CI can be used on the exterior in both new or retrofit applications for both commercial and residential Type-5 construction. Backer CI can be installed in almost any air temperature and can also be panelized to accommodate year-round off-site and near-site construction.

STORAGE & HANDLING

- Elevate from Ground: Store the boards on a flat surface or pallet, elevating them at least 4 inches off the ground. Avoid placing directly on soil.
- Stack boards flat and secure them to prevent warping or bending. Use spacers between layers to ensure airflow and avoid pressure on the boards.
- Anchor covers on top of the stack but keep away from sides and bottom to assure good air circulation.
- If storing outdoors, cover the boards with a tarp or protective sheeting to shield them from prolonged direct sunlight.
- In areas with wind, securely attach tarps to the ground on all sides.
- Store the boards away from harsh chemicals, solvents, or other materials that could damage the surface or integrity of the sheathing.

BOARD SIZES

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

1/2" 1" 1 1/2" 2"

APPROVED PRODUCTS

WRB AND DRAINAGE PLANE

Tyvek Stucco Wrap
Tyvek House Wrap

FASTENERS

HydroBlok One Backer CI must be installed with a minimum of #8 exterior grade code-approved fasteners and approved washers. Fasteners must be sized appropriately for the board and sheathing thicknesses to imbed into the framing by a minimum of 1".

POLYURETHANE FOAM SEALANTS & ADHESIVES

HydroBlok Joint Sealant
Great Stuff Pro Construction Adhesive
Sika Boom Window and Door
Loctite® PL Premium® Polyurethane Construction

FINISHES

Master Wall Acrylic Finishes
Senergy Acrylic Finishes
Dryvit Acrylic Finishes
Sto Acrylic Finishes

TOOLS NEEDED

COMMON

Impact drill
Utility knife
Flat trowel
Long straightedge or screed
Tape measure
Laser or traditional level
Mixing Drill & Bucket
Plastering Trowel
Margin Trowel
Tin Snips

FLASHING TAPE

DuPont™ FlexWrap® NF
3M™ All Weather Flashing Tape 8067
Blueskin® Butyl Flash

*For direct applied stucco applications: SIGA Fentrim®

BASE COAT

HydroBlok Base Coat
Master Wall Base
STO Base
Dryvit Genesis DM

NOTES & LIMITATIONS

- **R-value of 1/2" HydroBlok One = R 2.5**
- **R-value of 1" HydroBlok One = R 5**
- **R-value of 1 1/2" HydroBlok One = R 7.5**
- **R-value of 2" HydroBlok One = R 10**
- At ground level, the exposed bottom edges of boards must be finished with metal caps, bug guards, or drainage systems for effective water management.
- HydroBlok One Backer CI may be installed over existing sheathing if it is structurally sound and clean.
- Light efflorescence, a white residue, may appear after boards get wet. This is normal and does not impact performance and can be wiped off before stucco applications.
- All boards must be covered with finish within **180 days**.
- Stucco base coat should cure for 24 hours (or longer in cold/humid conditions) before the finish coat is applied. Follow-stucco manufacturer's guidelines for recommended cure times.
- Stucco should not be applied directly to exposed foam; an approved base coat or approved felt tape must be applied first to prepare the surface.
- Once the stucco finish has fully cured, exterior-grade breathable paint compatible with stucco can be used. Finished exterior cladding products should be installed per the manufacturer's installation instructions.

STUCCO INSTALLATION INSTRUCTIONS

- **STEP 1**
Install a WRB/Drainage product such as stucco wrap or equivalent over the sheathing in according to the manufacturer's instructions.
- **STEP 2**
Check building for any out of plane framing more than 1/4" over 10'. Use weather resistant shims as desired to proactively correct any out of plane sections. (Smaller deflections under 1/4" can be managed with a level coat after board installation.)
- **STEP 3**
Install a metal or acrylic bottom flashing along the base of the wall to protect the Backer CI board from insects. (See Figure 1) *A metal L-flashing can also be applied after the Backer CI is installed. A stucco compatible felt-faced tape must be used to seal the flashing to the face of the board. (See tape options below)



FIGURE 1

STUCCO INSTALLATION INSTRUCTIONS

- **STEP 4**
Layout and install any code approved weather resistant expansion joints, control and/or reveal joints per plan and in compliance with local building code. (See Figure 2)

*Control joints can also be cut in after the panels are installed and before the base coat. (See Figure 3)
- **STEP 5**
Install the first board keeping framing layout in mind to ensure joints land at framing members and stagger subsequent board seams a minimum of 24" apart.
- **STEP 6**
Backer CI boards must be fastened through the sheathing and into the framing a minimum of 1" with #8 exterior grade screws, using 1 ¼-inch diameter galvanized tabbed washers. The screws and washers are spaced 16 inches on-center on the edges and 16 inches on-center in the field. Do not overdrive screws; washers should sit flush with the surface.
- **STEP 7**
Install corner trim to all outside corners to cover the exposed foam (See Figure 4).
- **STEP 8**
Install J-Mold at transitions and around windows as needed. (Stucco Flange windows have built-in stucco integration.)
- **STEP 9**
Trowel approved polymer-modified base coat over the Backer CI per manufacturer's instructions and immediately imbed an ASTM-2098 compliant alkali-resistant fiberglass mesh over the whole board. Top off with additional base coat until the mesh is fully encapsulated and not visible. Use a screed to float in and level out the surface.
- **STEP 10**
Float in additional base coat material to plane out the wall up to 3/8" thick. Any areas greater than 3/8" may need to be filled in with an additional coat after the base coat cures, follow base coat manufacturer's thickness recommendations.
- **STEP 11**
Once basecoat is cured properly, apply acrylic stucco finish per manufacturer instructions.



FIGURE 2

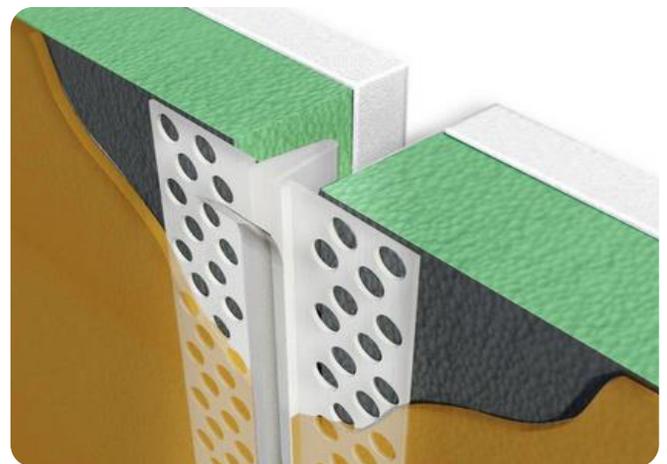


FIGURE 3

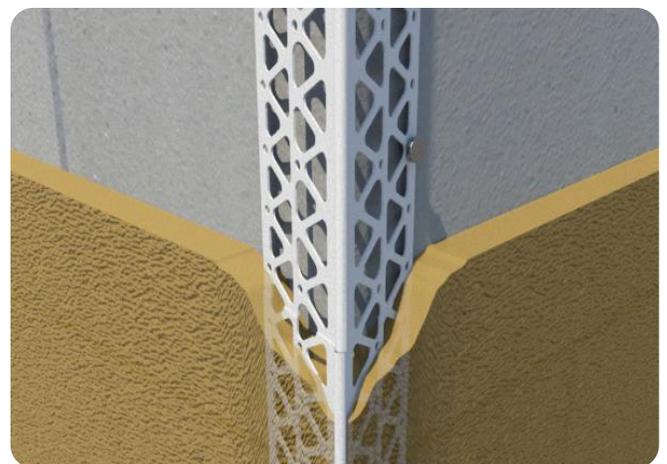


FIGURE 4

FOR FURTHER INFORMATION, PLEASE CONTACT:

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