



EXTERIOR
CLASSIC WHITE
AND COLOR TRIM,
MOULDING & SHEET

INSTALLATION GUIDE

APPLICATIONS

EX-Cel pvc trim is well suited for any application where wood trim board would traditionally be used. It may also be used in any application with the potential for moisture exposure or ground contact. Moisture will not affect the performance of EX-Cel pvc trim.

EX-Cel pvc trim can be installed traditionally, prior to siding, or you can install EX-Cel after the siding has been installed. This can be helpful in both new siding and trim replacement situations.

INSTALLATION

EX-Cel pvc trim should be installed over a weather resistant barrier system with a drainage plane that has been applied in accordance with the manufacturers' specific instructions.

EX-Cel pvc trim should be installed over a solid backing. The $\frac{5}{4}$ trim may be spanned up to 16" on-center.

Before you begin to install trim, ensure that all openings have been properly flashed and taped in accordance with local building codes

STORAGE

Store EX-Cel on a flat and level surface whenever possible. Ideally EX-Cel will be stored in a shaded area.

Avoid storing on pavement or under a dark tarp where ambient temperature may exceed 120°F.

EXPANSION AND CONTRACTION

EX-Cel trim is a cellular PVC product that expands and contracts with swings in temperature. The temperature range and sunlight exposure where the material will be used determines the amount of expansion and contraction. It is also important to consider the temperature of the material, relative to the ambient temperature at the time of installation. This will determine how tightly pieces can be butt-joined, or how you size the gap to compensate for seasonal thermal expansion and contraction.



75 to 95°F When working with EX-Cel pvc trim on a warm day (75 to 95°F), the material will be fully expanded. Should the material come from storage at lesser temperatures, leaving it in the sun for an hour prior to installation will help to achieve full expansion. However, we still recommend a small $\frac{1}{32}$ " gap.



55 to 75°F When working with EX-Cel pvc trim on a day of moderate temperatures (55 to 75°F) the material will be partially expanded. You must allow for some expansion in your installation. A gap between $\frac{1}{16}$ " to $\frac{1}{8}$ " should be considered to allow for the material expansion and avoid buckling or binding.



25 to 55°F When working with EX-Cel pvc trim on a cool day (25 to 55°F) the material will be contracted. You must allow for full expansion when the temperature warms to seasonal highs. As a rule of thumb depending on exposure to the sun the material will expand approximately $\frac{1}{8}$ " per 12 foot or $\frac{3}{16}$ " per 18 foot length.

If you're using EX-Cel Color Trim, you should paint the board ends with matching Sherwin-Williams® paint prior to installation. EX-Cel recommends the use of an acrylic or UV-resistant caulk to seal the gap, and where appropriate, a scarf joint for a better-looking finish. If you are using EX-Cel classic uncoated trim you do not have to paint the product.

FASTENING

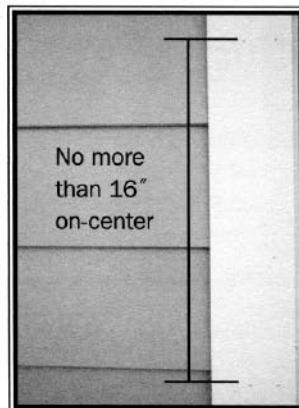
EX-Cel pvc trim may be attached using a power nail gun. A gun capable of shooting a 15-gauge nail is recommended. A $\frac{1}{16}$ " – $\frac{1}{8}$ " nail set is optimal. Do not overdrive fasteners into the material.



Exterior grade smooth shank nails can be used either nailed or shot. Exterior grade screws (#6, 8, and 10) are also acceptable. Any fastener used must be long enough to penetrate solid wood by no less than 1 $\frac{1}{4}$ ".

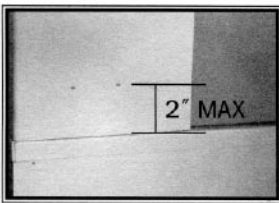
Brads, wire nails and staples should not be used in securing the trim.

No predrilling of the board is required unless temperatures are below 40°F at the time of installation. Predrilling is suggested when temperatures are consistently below 40°F.



Fasteners along the length of the board should be no more than 16" on-center. Properly spacing the fasteners on the board will reduce expansion and contraction of the product. Fasteners along the width of the board should be no farther apart than 4" on-center.

Do not nail trim boards through the channel edge of the Channel Trim. To avoid this, keep your nails at least 1 $\frac{1}{2}$ " from the edge of the Channel Trim. You may nail within $\frac{1}{4}$ " of the edge of the board to capture jambs, but this is not recommended at the very end of the boards.



The boards should be fastened within 2" of the end of the board.

In the case of miter joints, you should fasten through the joint, and use PVC cement as well.

FASTENING SCARF JOINTS

For long runs of trim, a scarf joint will provide the best looking joint that allows for expansion and contraction. Use our expansion and contraction guidelines to determine your gap, and use an acrylic or UV-resistant caulk in the joint. If you're using EX-Cel Color Trim, we recommend painting the board ends with the matching Sherwin-Williams color prior to joint assembly. The joint should be secured with fasteners on each side of the joint.

FASTENING MITER JOINTS

Miter joints, such as those used at the corner of a skirt board or mudsill, should be glued with PVC cement, and nailed through the joint.

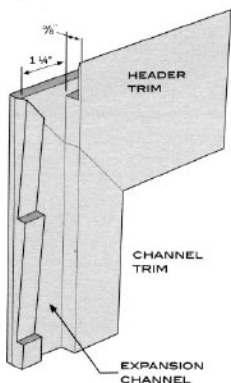
SOFFIT AND CEILING INSTALLATIONS

For spans of 16" to 24" use 1-inch (19mm) thick nominal products. Never span EX-Cel pvc trim more than 24".

When installing EX-Cel beadboard as a soffit, orient the beadboard perpendicular to the structure and fasten every 12" on-center or less. For ceiling and other applications, fasten the beadboard or EX-Cel pvc trim sheet every 16" on-center or less.

HEADER DETAILS

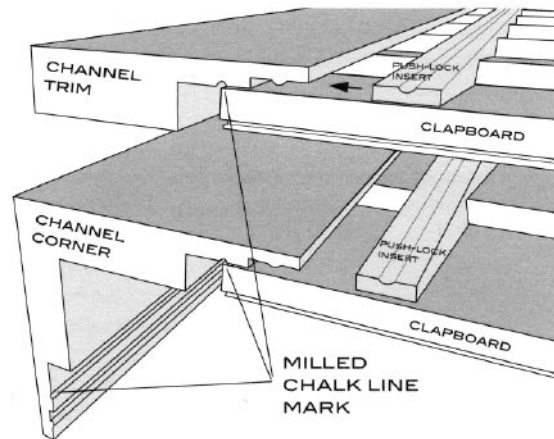
EX-Cel pvc Header Trim has a pocket designed for the siding to slip into and to allow water to drain away. You will need to install the head trim before proceeding with the siding. Cut the Header Trim corners at 45 degrees, allowing the side Channel Trim expansion channel to go all the way to the top. You will need to mortise out the back of the Header Trim in 1 1/4" from each end to allow the siding to pass up through the expansion channel. Finish the side trim/corners after the siding is installed.



INSTALLATION OF EX-CEL TRIM AFTER SIDING HAS BEEN INSTALLED

Installing your siding first will actually make your installations easier and faster. Fiber cement is a perfect example. Use EX-Cel pvc Channel Trim to set chalk-lines for your siding installation, install the siding, seal all the ends, and then hide all the ends using EX-Cel Channel Trim and Push-Lock Inserts.

To set a chalk-line, cut a short block of EX-Cel Channel Trim (Corner if necessary) and hold this in position where it will be fastened. The back of the trim board has a milled chalk line indent, which you can use to mark the top and bottom of your vertical end line for the siding, and then snap a chalk-line between them. Install your siding per the manufacturer's instructions up to the chalk-lines, seal the ends as necessary, and then simply fasten your EX-Cel Channel Trim over the siding.

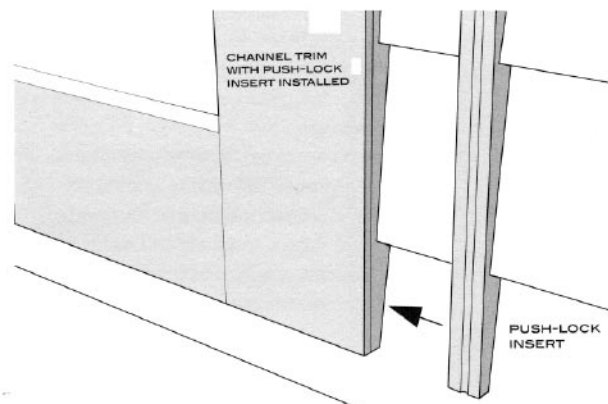


FIBER CEMENT AND PUSH-LOCK INSERTS

Because fiber cement boards tend to be thicker than other siding materials, it is necessary to use a shim to build out the Channel Trim prior to installation to accommodate the extra thickness when using Push-Lock Inserts. EX-Cel offers 1/8" thick shims for this application.

PUSH-LOCK INSERT INSTALLATION

After the Channel Trim has been installed, position the Push-Lock Insert vertically with respect to the siding and cut to the appropriate length. Position the Push-Lock Insert against the clapboard face and push it into the expansion channel in the Channel Trim. As it becomes flush with the front edge of the Channel Trim it will snap into place. You may find the use of a hammer and non-marring block helpful to quickly set the insert into place. You may also find pulling the Channel Trim away from the building slightly will help the insert to get started. If the Push-Lock Insert is properly installed it will not require any glue or adhesive to hold it in place.



Use Push-Lock Inserts as a Story Pole! As you're installing your siding, use your Push-Lock Inserts as a story pole as you go to ensure that your siding courses are aligned correctly, and that your Push-Lock Inserts fit perfectly. If you have to modify an insert, you can cut them with a saw or knife to the correct length to fit.

CUTTING & DRILLING & ROUTING

There are no special tools required in order to work with EX-Cel pvc trim. Traditional carbide-tipped saw blades, carbide-tipped router bits, and woodworking drill bits will work best. Blades or drill bits designed specifically for PVC are not necessary.

BONDING AND ADHESIVES

EX-Cel pvc trim can be bonded to a variety of substrates, as well as to itself. For best results, all surfaces to be glued must be smooth, clean, and in complete contact with each other. When bonding EX-Cel pvc trim to other substrates, consult the adhesive manufacturer to determine suitability.

PVC pipe cement or other solvent-based adhesives work very well. Use one with a moderate or slow set up time. Plumber's PVC cements generally have a fast set up time and may bond too quickly for detail work. Cements such as Bond-and-Fill, IPS Weld-On 705 (white), and 3M's Scotch-Grip 4475 plastic adhesive are very good for this application. Bonded butt-joints should be securely fastened on each side. Proper ventilation and a clean environment are essential for adequate curing. Panels can be laminated face to face but require special attention such as using a wood press and more time for solvent based adhesives to cure properly.

FIELD FABRICATION & HEAT FORMING

EX-Cel pvc trim boards can be easily heat formed or bent into a variety of shapes without negatively affecting the surface finish. Heat slowly and uniformly to ensure best results.

EX-Cel can also be custom fabricated at our manufacturing facility. For more information contact your sales representative.

CLEANING

To clean EX-Cel pvc trim, use a mild solution of soap and water. When using a power washer always use a lower pressure setting. To remove mold or mildew use a mild mold/mildew remover.

PAINTING & FINISHING

If you're considering painting your EX-Cel classic pvc trim, we highly recommend using EX-Cel Exterior Color pvc trim. Prefinished in any of 16 colors with a Sherwin-Williams[®] Polane[®] coating, you will get a beautiful satin finish, along with a limited lifetime finish warranty.

EX-Cel Exterior Color pvc trim products are finished with a Sherwin-Williams Polane solar reflective coating. Any of the colors offered can be easily matched with Sherwin-Williams Duration[®] or Super Paint[®]. For touch-ups or painting the ends of your boards, simply bring your EX-Cel Exterior Color pvc trim 4-digit color number to Sherwin-Williams, and they'll match your color exactly.

To repaint EX-Cel pvc trim, use any high-grade exterior acrylic latex paint with a LRV value greater than 55 units. Before repainting, make sure that the surface has been properly cleaned and lightly sanded.



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