

CELECT[®]

REFERENCE
GUIDE



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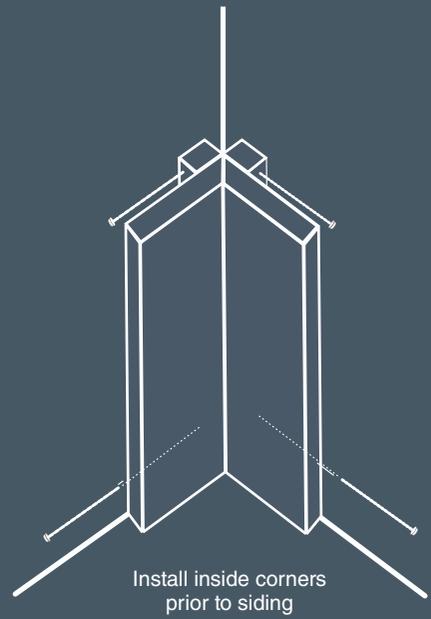
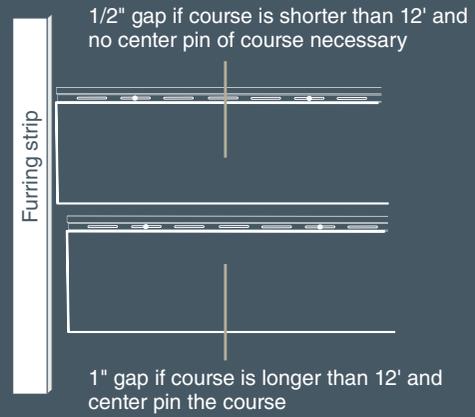
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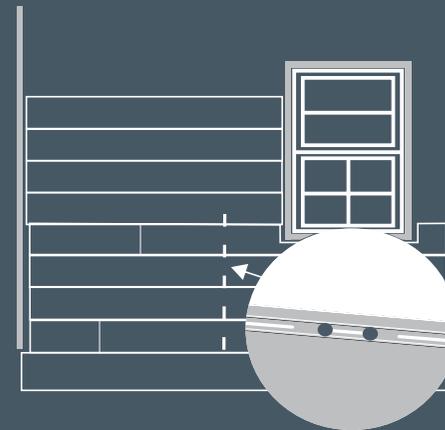
INSTALL
TIPS

To view the full Celect product guide, installation guide and installation videos, please visit RoyalBuildingProducts.com/Celect.



RUNS UNDER 12'

INSIDE CORNER



PANEL INSTALL

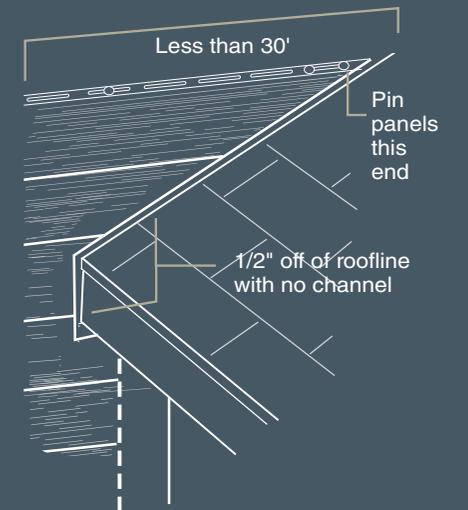
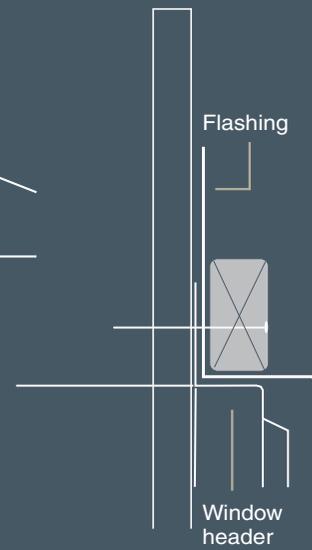
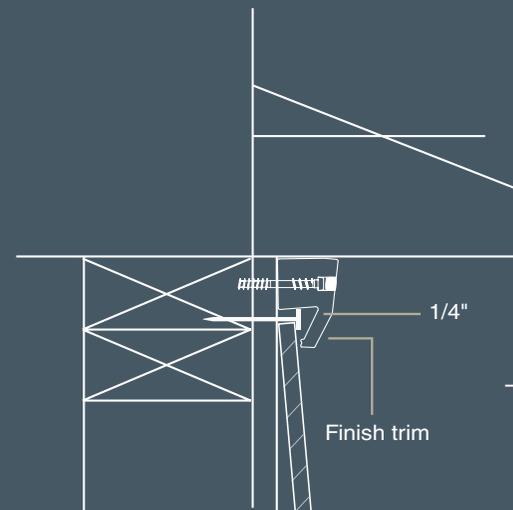
WINDOW SURROUND



FRIEZE LINE

WINDOW FLASHING

ROOFLINE



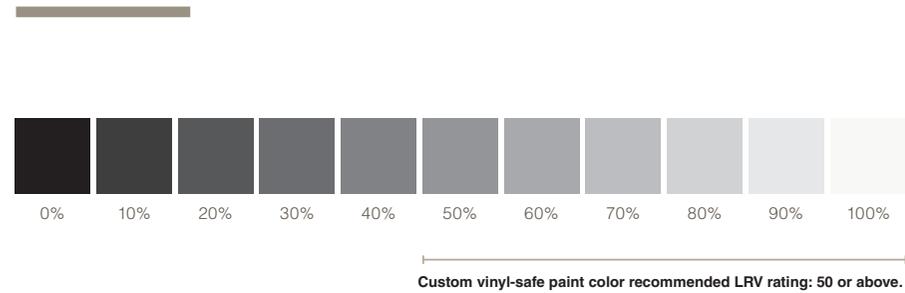


COLOR PALETTE & PRODUCT OFFERINGS

Celect® Cellular Composite Siding by Royal® fully expresses itself in a versatile, designer-inspired palette of 15 colors protected from moisture and extreme weatherability by its Kynar Aquatec® coating. We even put a 25-year warranty on the finish. Celect's extensive line of trim and moulding includes prefinished options that make every detail count for virtually every part of a home exterior. Our trim products come in the same number of fade-resistant colors as Celect Siding.

CELECT® CANVAS PAINTABLE SIDING

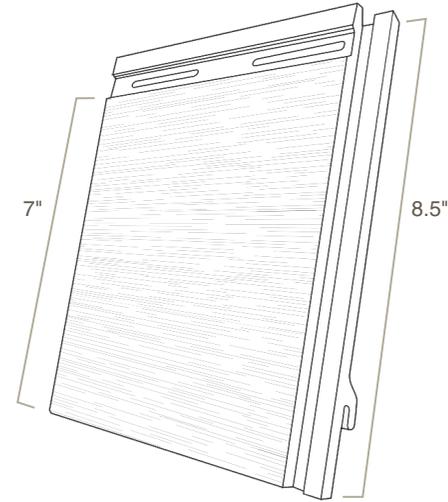
Celect Canvas Siding is the customizable cousin of our prefinished cellular composite siding. It possesses the same home-transforming aesthetics and durable properties, while giving homeowners thousands of exterior vinyl-safe shades to choose from. Celect Canvas colors fall within recommended Light Reflectance Value (LRV) ratings (50 and above on the LRV 0-100 scale) from manufacturers such as Benjamin Moore, Sherwin Williams and PPG.



SIDING

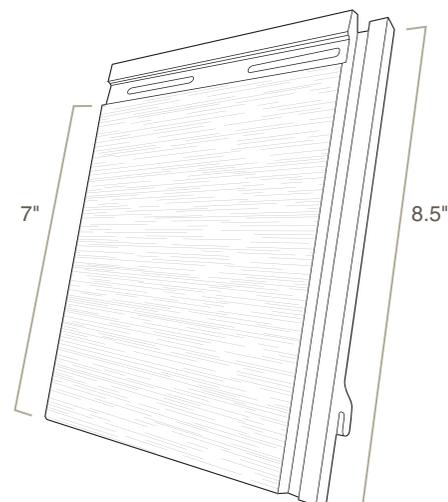
7" SMOOTH HORIZONTAL LAP SIDING

12' 4" LENGTH, 1 SQ./CARTON
14 PCS PER CTN (1 SQ.)



7" HORIZONTAL LAP SIDING

12' 4" LENGTH, 1 SQ./CARTON
14 PCS PER CTN (1 SQ.)



5" SMOOTH HORIZONTAL LAP SIDING

12' LENGTH, 1 SQ./CARTON
20 PCS PER CTN (1 SQ.)



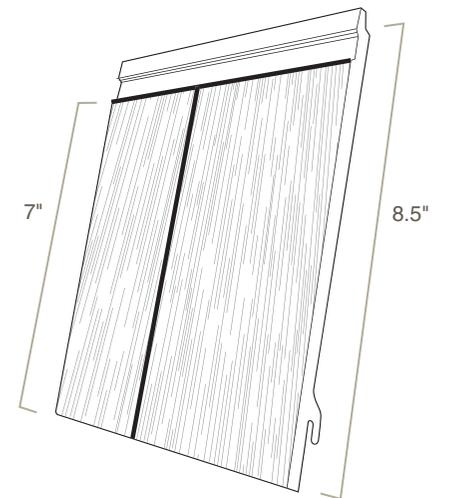
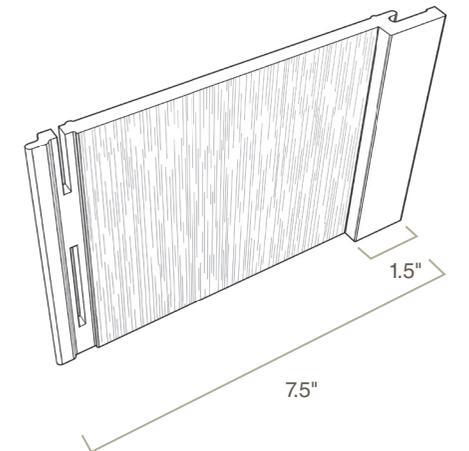
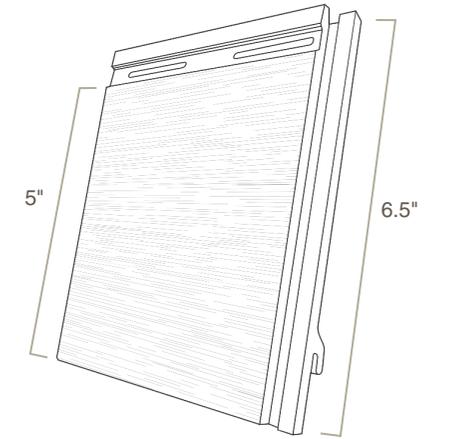
BOARD & BATTEN SIDING

10' LENGTH, 1 SQ./CARTON
15 PCS PER CTN (1 SQ.)



7" SHAKE SIDING

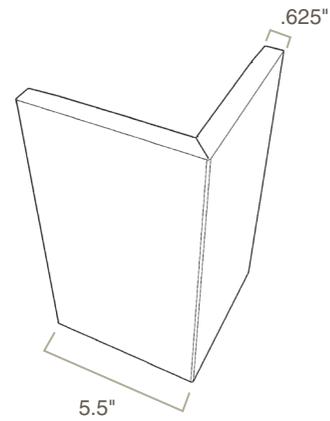
49.5" LENGTH, 1/2 SQ./CARTON
24 PCS PER CTN (1.5 SQ.)



TRIM

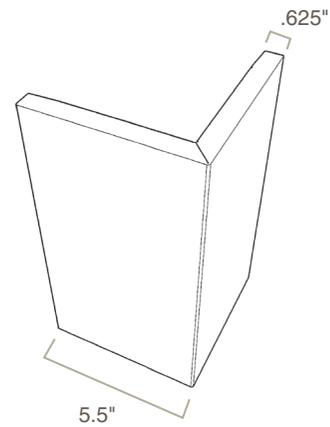
OUTSIDE CORNER POST

10' LENGTH
 INCLUDES 4 - 9' 3" L FURRING STRIPS
 2 PCS PER BUNDLE



OUTSIDE CORNER POST

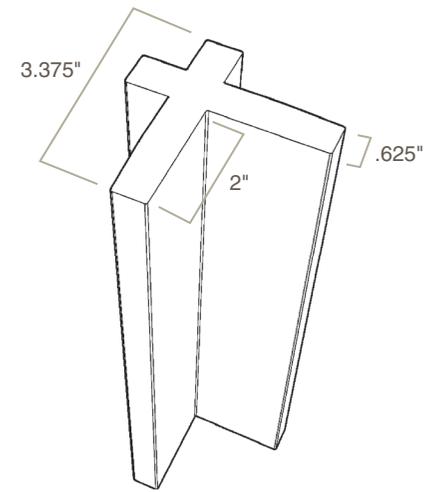
20' LENGTH
 INCLUDES 8 - 9' 3" L FURRING STRIPS
 2 PCS PER BUNDLE



Trim is available in all colors listed on page 6.

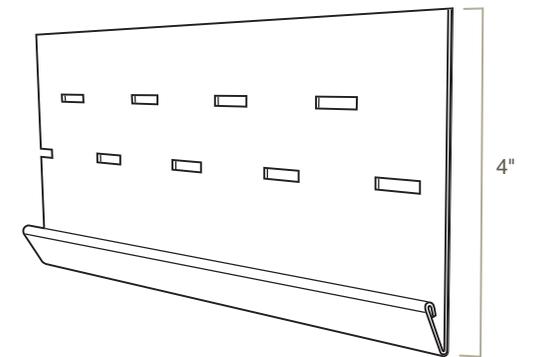
INSIDE CORNER POST

10' LENGTH
 2 PCS PER BUNDLE



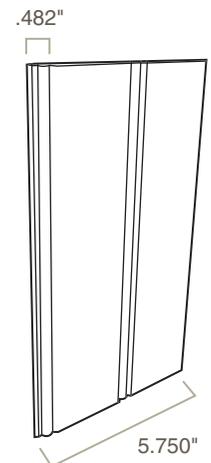
STARTER STRIP

12' LENGTH
 24 PCS PER BUNDLE



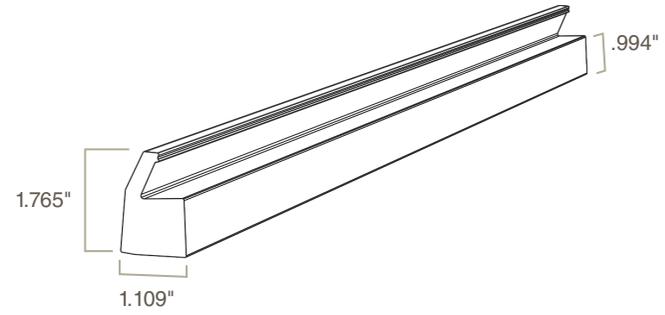
BEAD BOARD

16' LENGTH
 2 PCS PER BUNDLE



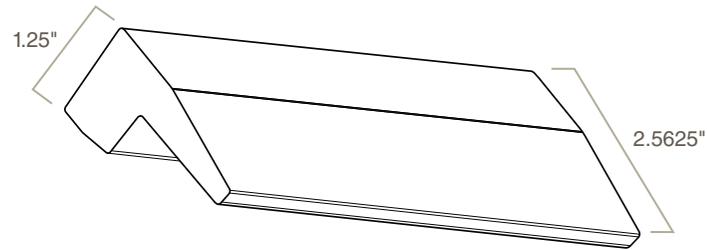
CELECT FINISH TRIM

16' LENGTH
2 PCS PER BUNDLE



GABLE TRIM

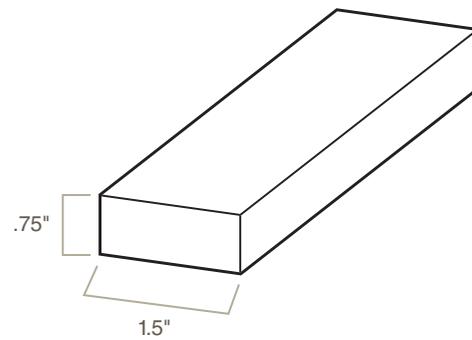
16' LENGTH
2 PCS PER BUNDLE



UNPAINTED FURRING STRIP

16' LENGTH
2 PCS PER BUNDLE

1" X 2"



S4S TRIMBOARD

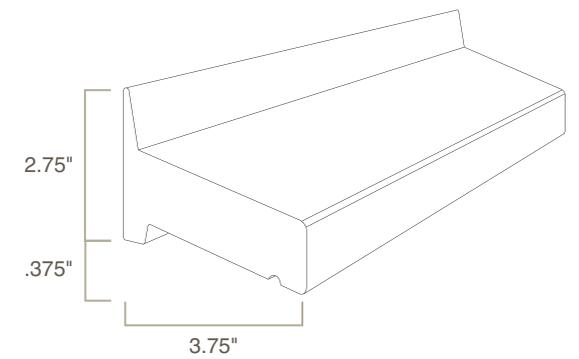
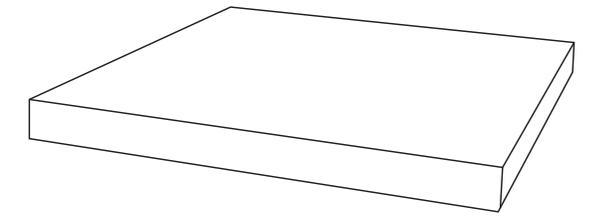
16' LENGTH
2 PCS PER BUNDLE

- 5/8" X 4"
- 5/8" X 6"
- 5/8" X 8"
- 5/8" X 10"
- 1" X 2"
- 5/4" X 4"
- 5/4" X 6"
- 5/4" X 8"
- 5/4" X 10"



STONE WATER TABLE

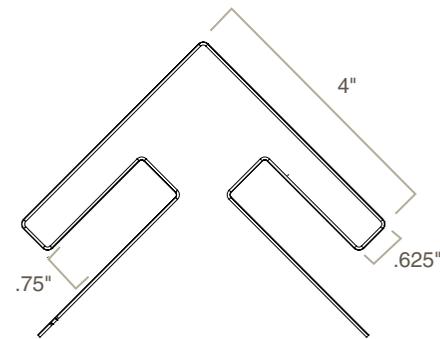
16' LENGTH
2 PCS PER BUNDLE



SPEC SERIES™ TRIM

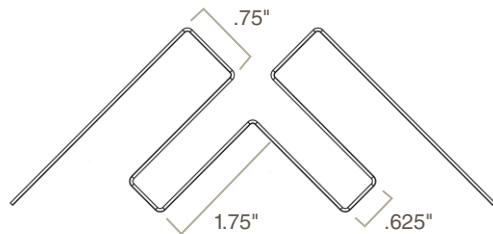
OUTSIDE CORNER POST

10' LENGTH
8 PCS PER BOX



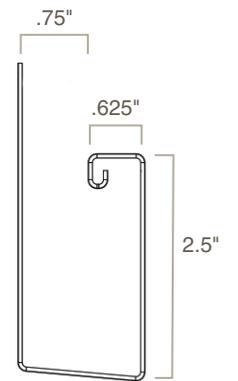
INSIDE CORNER POST

10' LENGTH
8 PCS PER BOX



WIDE FACED J CHANNEL

12.5' LENGTH
8 PCS PER BOX



SPEC SERIES COLORS

SNOW
Similar to Celect Frost

PEBBLE CLAY
Similar to Celect Latte

IRONSTONE
Similar to Celect Wrought Iron

TAUPE
Similar to Celect Willow

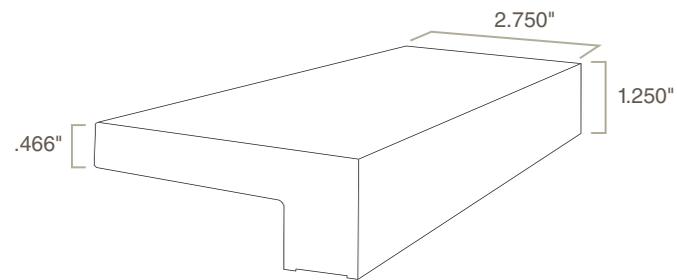
FLINT
Similar to Celect River Rock

Colors are complementary to Celect and not exact matches.
Constructed from rigid vinyl capped with ASA for superior fade protection.

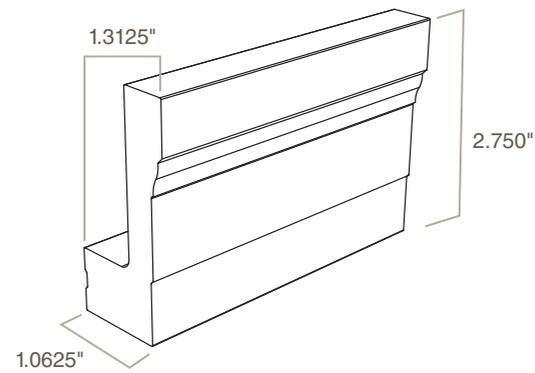
25-year Color Warranty
Limited-Lifetime Trim Warranty

MOULDINGS

WINDOW TRIM
16' LENGTH
2 PCS PER BUNDLE

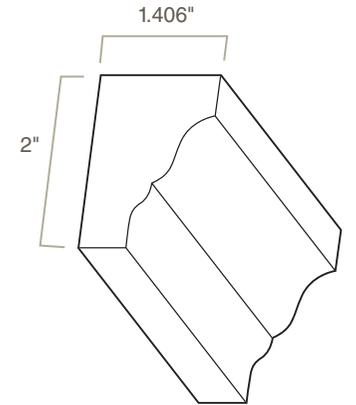


BRICK MOULD
16' LENGTH
2 PCS PER BUNDLE

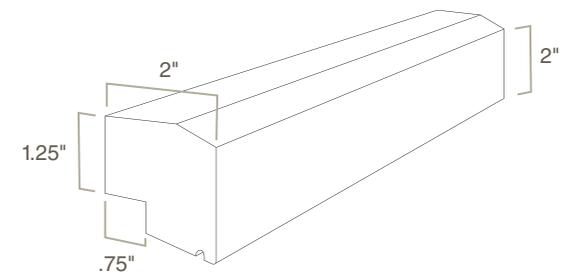


Mouldings are available in all colors listed on page 6.

RAMS CROWN
16' LENGTH
2 PCS PER BUNDLE



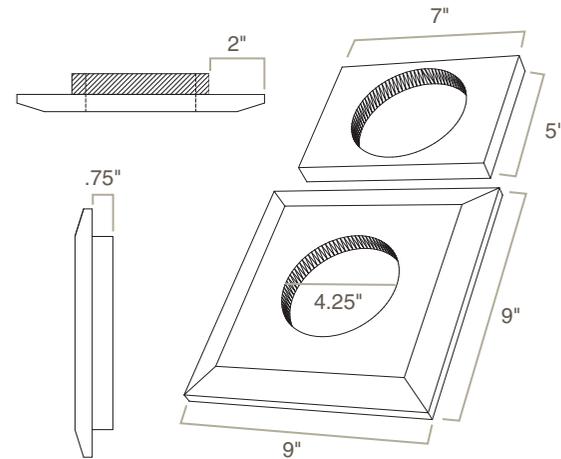
STILL NOSE
2" X 2" LENGTH
2 PCS PER BUNDLE



BLOCKS & MOUNTS

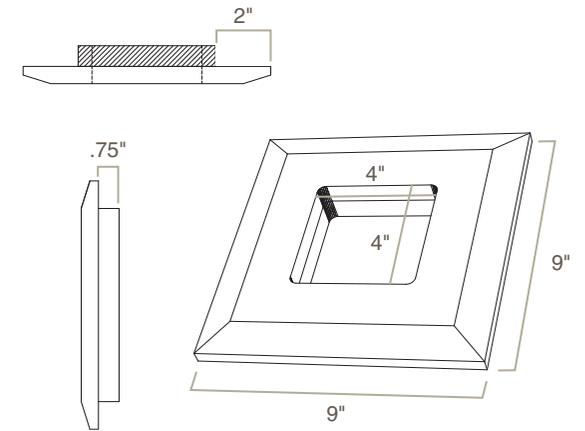
VENT/LIGHT MOUNT

9" X 9"
1 PER BAG



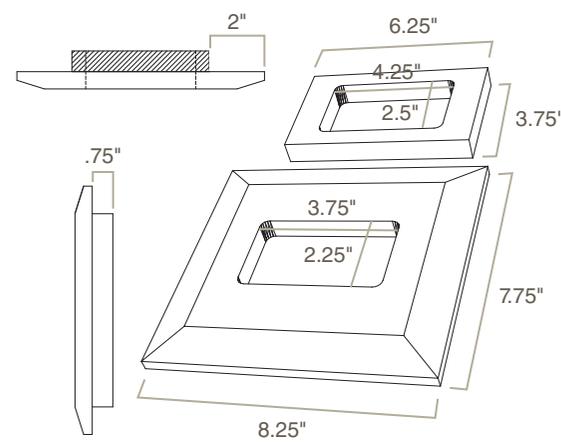
RECESSED MOUNT

9" X 9"
1 PER BAG



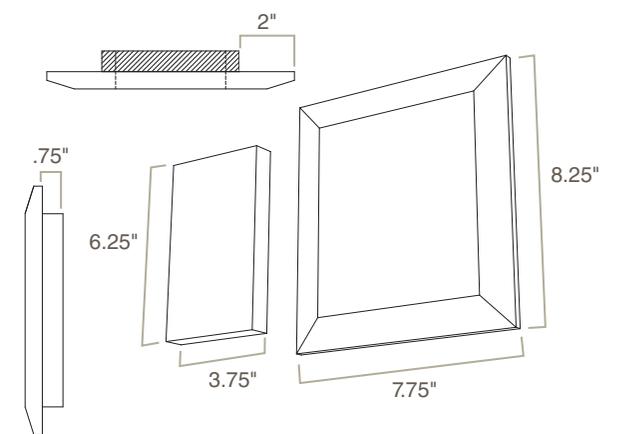
ELECTRICAL MOUNT

8 1/4" X 7 3/4"
1 PER BAG



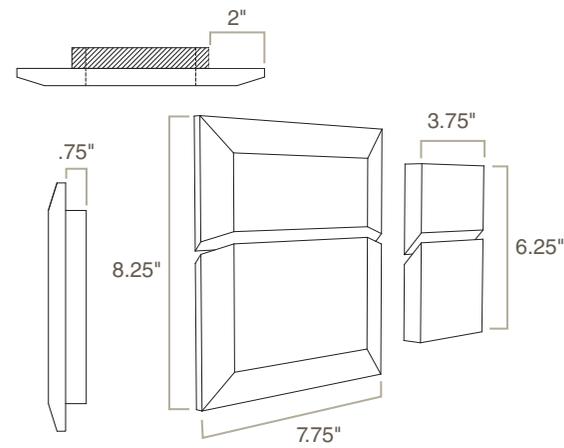
UNIVERSAL MOUNT

8 1/4" X 7 3/4"
1 PER BAG



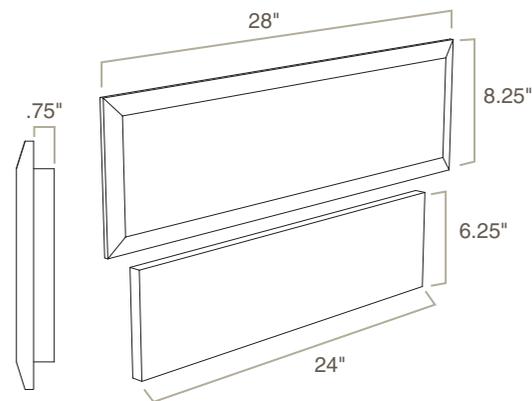
SPLIT MOUNT

8 1/4" X 7 3/4"



GANG BLOCK

28" X 8 1/4"



ACCESSORIES

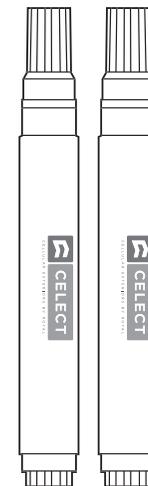
TOUCH-UP BOTTLE

SOLD INDIVIDUALLY



TOUCH-UP MARKER

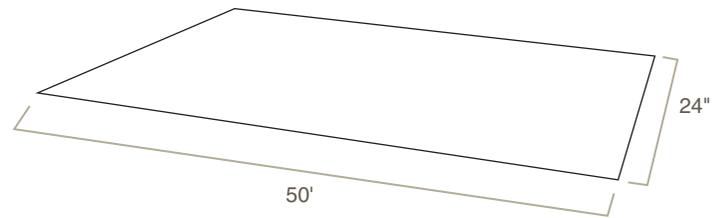
2 KYNAR AQUATEC PENS IN BLISTER PACK



Accessories are available in all colors listed on page 6.

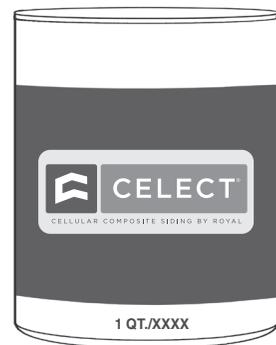
ALUMINUM COIL

50' X 24" ROLL
GAUGE: .021"



KYNAR AQUATEC® CELECT® PAINT

1 QUART



INSTALL TIPS

GENERAL

Storage and Handling

If bundles are to be stored outside, do not lay them directly on the ground.

Lay them on wood supports (e.g. 2 x 4).

Do not store under tarps.

Do not store bundles upright.

Do not store bundles more than 5 high.

Keep away from heat sources.

Keep cartons dry until opened.

Important: Handling of Celect Corner Posts

- Do not stack on top of corners.
- Store corners on level surface.
- Store out of direct sunlight.
- Keep corners in pack until installed.

Re-siding

It may not be necessary to remove existing siding providing all loose boards are re-secured and any rotten boards are replaced. Install furring strips or wall leveling siding underlayment to create a flat surface for the siding. Follow all other details outlined above.

Celect Canvas Installation

Installation sequence varies depending upon siding profile and particular scenario. Be sure to consider the basic principles of Celect siding installation (e.g., expansion and contraction, etc.) when deciding how and in what order particular pieces should be painted and installed.

With the exception of the Celect shake profile, panels must be installed using “pocketed” trim and accessories. See complete Celect Installation Handbook for detailed instructions.

Because pre-formed inside corner trims are always installed prior to the panels, the last 4" of the panels that are to be inserted into the inside corners must be painted prior to their installation on the wall.

Paints used on Celect siding and trim must be “vinyl safe” with an LRV rating of 50 and above.

Wall Preparation

Celect® Siding is a rain screen but not intended to be a water resistive barrier.

Therefore, Celect siding must be installed over a continuous water-resistive barrier with properly integrated flashing.

Celect must be applied over rigid sheathing that provides a smooth flat surface. Never install Celect siding directly to open framing/studs. Celect must be installed over either solid nailable sheathing, rigid sheathing with minimum 1 x 6 furring strips or rigid sheathing and elongating the nailing slots.

Key Rules

Nail in the center of the nailing slot unless pinning is necessary. Fasteners must be placed in the center of the nailing slots at approximately 16" spacing leaving about 1/32" between the head of the fastener and the nailing hem of the panel. Celect panels expand and contract through temperature changes. Never face nail the panels.

FASTENING

Siding

Corrosion-resistant nails (stainless steel nails or galvanized roofing nails) with a minimum head diameter of 3/8", 1/8" shank and length sufficient to penetrate a solid nailable surface (framing or furring) a minimum of 3/4" in depth. Minimum 2" length (50.8mm) required in Canada.

Trim

Celect Cortex® or Pro-Plug® screws and plugs are recommended to secure finished Celect Trim pieces.

CUTTING & ROUTING

Siding

Circular or miter saws with a trim or plywood blade. A jig saw, or rotary tools (dremel, router, etc.) can be useful for cutting around obstructions.

Trim

The use of a compound miter saw with a trim blade is recommended.

TOUCH UP

- Use Celect Paint “dauber” bottle for larger areas and for coating exposed cut ends of Celect siding panels and trim.
- If repainting is necessary, use ONLY “heat reflective” paints formulated for use on PVC products. Follow the paint manufacturers application instructions.

5" & 7" LAP INSTALLATION

Installation Sequence

1. Weather barrier & flashing
2. Furring strips for trim
3. Inside corner posts
4. Starter strip for panels
5. Select siding panels
6. Window, door, etc. trim

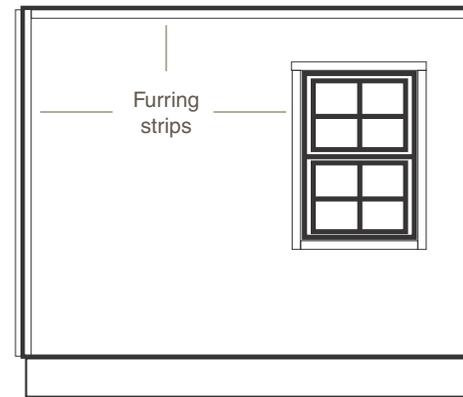


Fig. 1

STARTER STRIP & WORKING OVER OBSTACLES

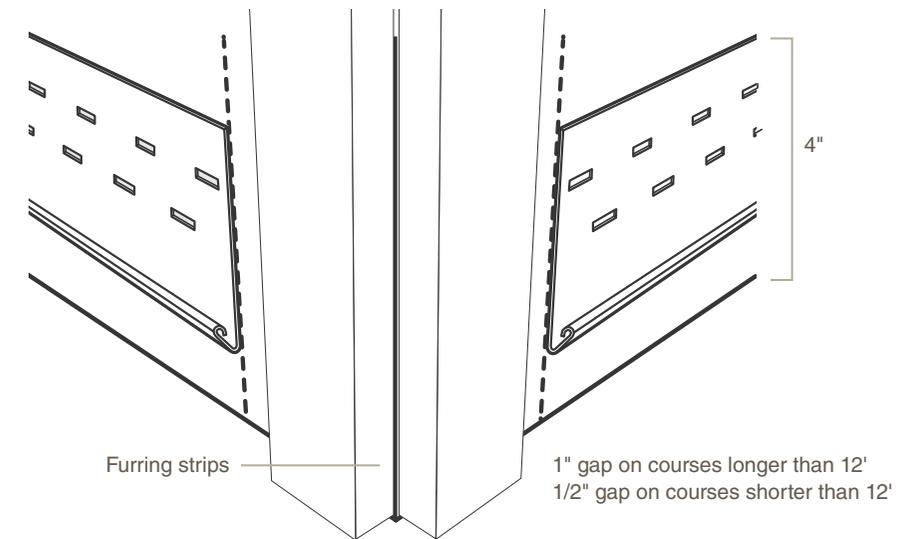


Fig. 3

Strike a chalk line 4" above the point you wish the bottom of the panel(s) to sit.

- Install starter strip aligning the top of the strip with the chalk line and fastening every 8" - 12" (Fig. 3).
- In certain situations, it may be necessary to remove a bottom section from the panels to accommodate variations in the first course such as porch floors, etc. In these situations, where the bottom lock is removed, the cut edge of the panel(s) must be covered by trim. Celect® Finish Trim can be used or custom trim can be fabricated with aluminum trim sheet. If trim sheet is used, keep in mind that the face of the channel or trim only needs to be wide enough to cover the cut edge of the panel by 1/2."

After preparing the walls for the siding installation, install 1 X 2 furring around all windows, doors, outside corners, etc. This must be done anywhere the ends of the siding will be terminated (Fig.1-2).

Make sure to install the proper flashing as required by specific local building codes (Fig.2).

NOTE: if the furring strips will be completely hidden by the trim, treated 1 X 2 furring can be used in place of PVC strips. Secure the furring every 8" - 12".

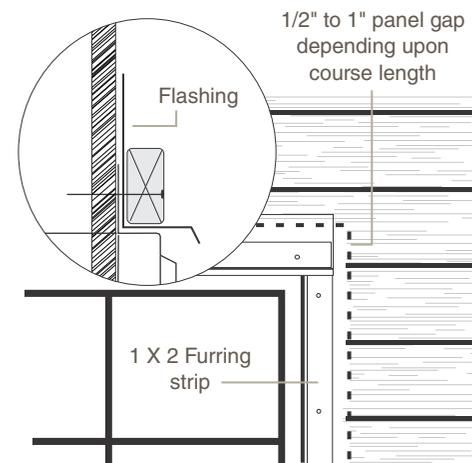


Fig. 2

INSIDE CORNER POSTS

Install any inside corners. Fasten the inside corners using weather resistant screws placed inside the pocket of the corner no more than 16" apart (Fig. 4). Unlike the other finished trim, inside corners are applied before the siding.

NOTE: Make sure not to draw the pocket in when fastening to the wall.

The pocket width must remain 3/4". Use a scrap piece of siding as a spacer in the pocket. The inside of the corner post should not lay against the siding.

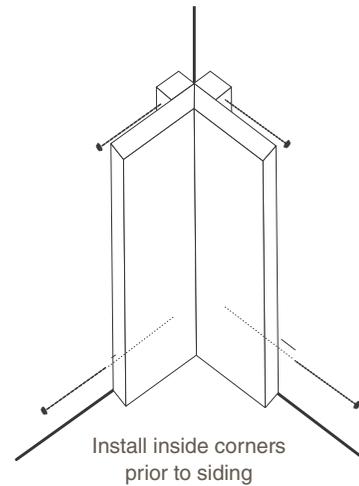


Fig. 4

EXPANSION GAP

- Install the Celect® Siding panels keeping the ends of the panels 1" away from the furring strips if the course is over 12' long, 1/2" away if the course is less than 12' long.
- Fasten the panels by placing a fastener in the center of the slot approximately every 16" leaving about 1/32" between the head of the fastener and the nailing hem of the panel. Celect Panels expand and contract through temperature changes. (Fig. 5).
- If the course is longer than 12' pin the center of the course (not each panel) by placing a fastener in each side of one slot keeping in mind that the "center" of each course will change as you work around windows, doors, etc. (Fig. 6).

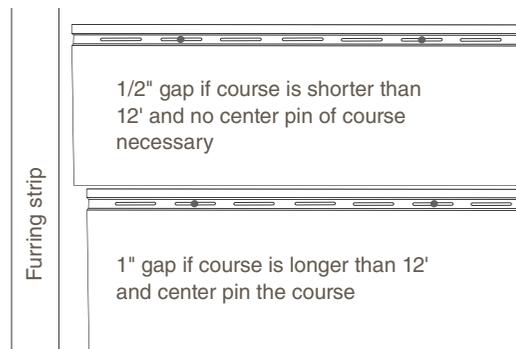


Fig. 5

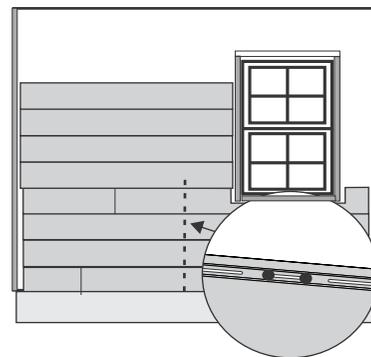


Fig. 6

Center pin or box nail
center of each course over 12'
NOT each panel

ROOF LINES

- When installing over roof lines, use the same 30' rule. If the longest panel will be under 30', there is no need for a trim board. The panels can be installed within 1/2" from the roof line and pinned there to hold the panel edges even, letting them expand and contract away from the pinned area.
- If the longest panels will be over 30' in length, there must be a furring installed, a 1" gap between the furring and the end of the panel(s) and a trim board installed to hide the ends of the panel(s). (Fig. 7-8)

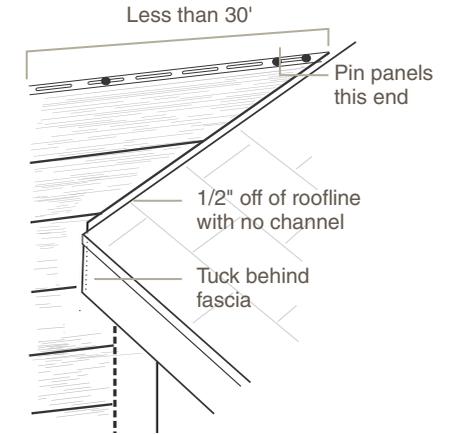


Fig. 7

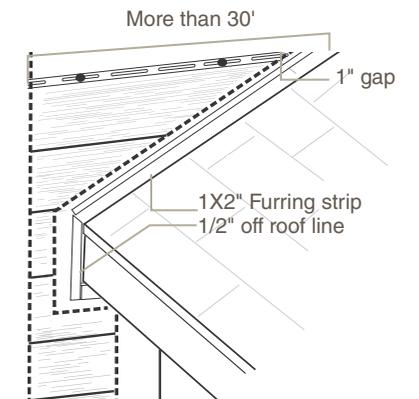


Fig. 8

FIXTURE MOUNTS

- Celect Fixture Mounts are available for obstructions such as lighting, dryer vents, water faucets, etc. Begin by installing the base "ring." Install the siding panels allowing for the appropriate expansion gap depending upon the length of the siding course. Center and secure the face plate with two Celect Cortex® Trim Screws and Plugs (Fig. 9).
- Fixture mounts can also be field constructed using cellular PVC, wood, etc. The pocket depth must be 2" for courses over 12' and 3/4" for courses under 12' to allow for the appropriate expansion gap.
- For courses under 12' preformed vinyl siding fixture mounts can be used. In this case, the expansion gap should be 3/8".

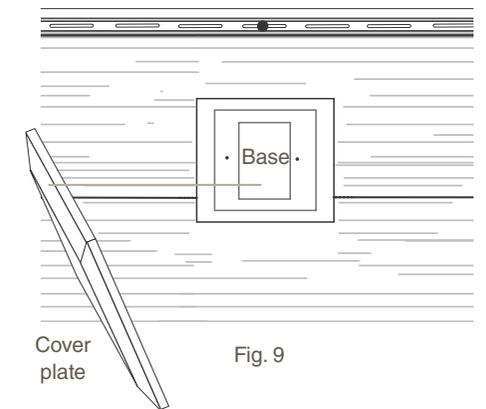


Fig. 9

TRIM INSTALLATION

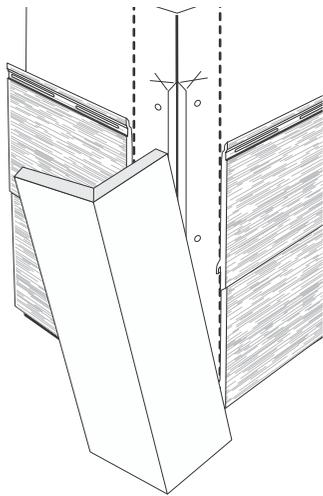


Fig. 10

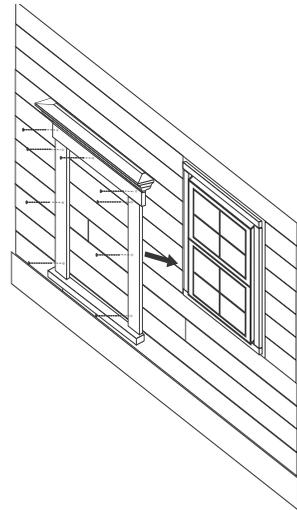
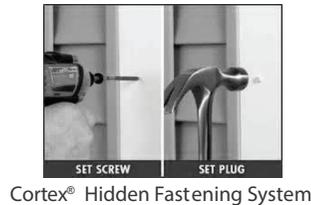


Fig. 11

- Install trim over furring strips (Fig. 10-11). It is easiest to assemble window and door trims before applying them to the wall. When using Celect® Trim, be sure to build the trim slightly larger (1/8" each side) than the window or door to give the finished frame room to expand and contract through temperature changes.
- Cortex® or Pro Plug® screws and matching plugs should be used when installing Celect Trim. Space the fasteners no more than 16" apart and no closer than 2" from the end of the trim. Make sure not to fasten through the siding or into the expansion pocket.

NOTE: See trim assembly models section for more.



Cortex® Hidden Fastening System

BOARD & BATTEN PANEL INSTALLATION

- The length of the panel should be 1" from the top furring and a minimum of 1/2" over the foundation at the bottom (Fig. 12).
- Install the first panel by placing the cut edge along the chalk line.
- Hold the panel in place by placing the first fastener at the top of a nailing slot no more than 12" from the bottom edge of the panel. Do not drive tight. Leave approximately 1/32" between the head and the panel.
- Make sure the panel is plumb and continue fastening it placing the fasteners in the center of the slots at 8"-12" intervals (Fig. 13).

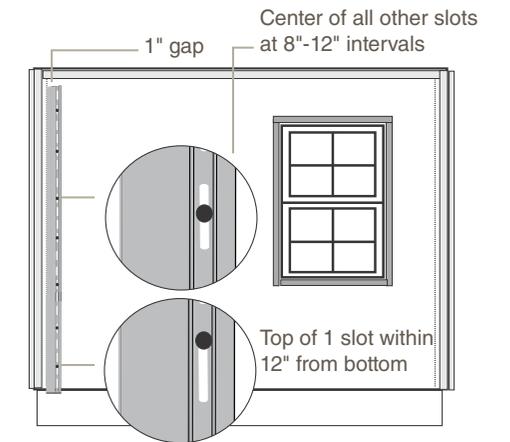


Fig. 12

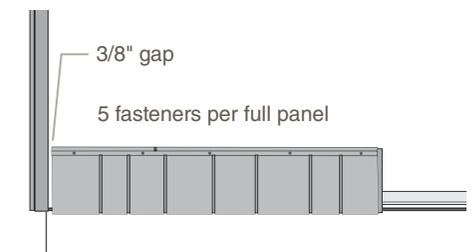


Fig. 13

SHAKE PANEL INSTALLATION

- Panels install left to right.
- Install the first panel locking it down onto the starter strip and keeping the left end of the panel 3/8" away from the furring strip.
- Fasten the panels by placing fasteners in the nailing flange; one in the center of the panel and two on either side, evenly placed. Keep fasteners approximately 2" in from both ends. (Fig. 13).
- Install the remainder of the course overlapping the seams and leaving the necessary space between the shakes. If the temperature is above 70°F, leave 1/8". If the temperature is below 70°F, leave 1/4" (Fig. 14).

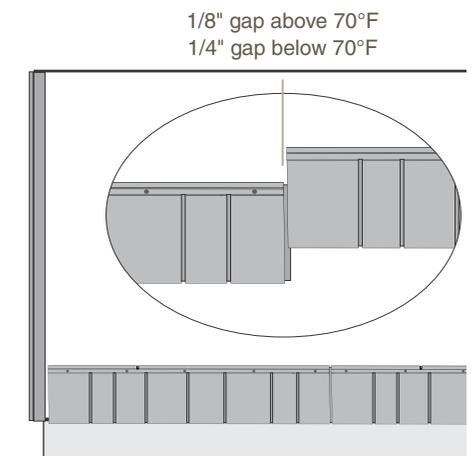


Fig. 14

TRIM ASSEMBLY MODELS

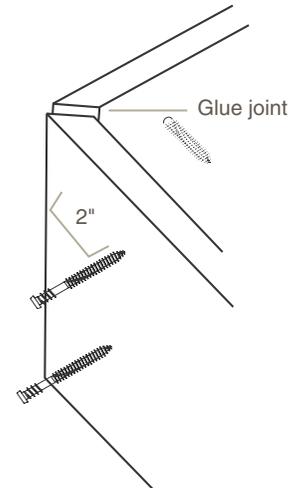
Trim Board/Fascia Joints

When joining boards in areas such as under eaves or on fascia, a shiplap joint is recommended with the exception of corners; a mitered corner will give the best appearance.

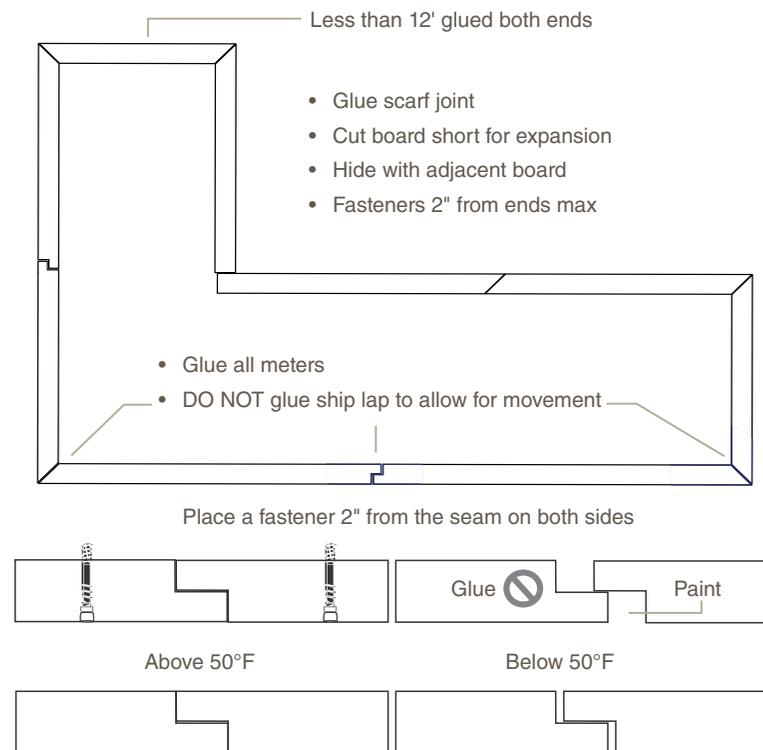
Inside Corner Posts

When mitering a corner, the following rules apply:

- The trim board with a mitered end should be no longer than 4'.
- Always glue the ends of the boards with PVC cement.
- Place a fastener 2" from the seam on both sides.



Managing Expansion/Contraction on Longer Runs



CLEANING & MAINTENANCE

Always test a small area of the wall in an inconspicuous location first, prior to attempting to use any cleaning solution or method to ensure no damage occurs.

Use a clean soft cotton cloth when necessary, taking care to frequently replace the cloth to avoid scratching the coating finish.

- For regular general washing, mild detergents such as 1/32 diluted TSP (Tri Sodium Phosphate), Dawn, Murphy's Oil Soap or vinegar and water are recommended.
- For small spot cleaning, it is acceptable to use Windex or isopropyl alcohol, but avoid scrubbing the same spot repeatedly, as this could soften or damage the coating finish.
- It is recommended to apply any acceptable cleaning solutions to the surface of the siding using a standard pump spray bottle, followed by rinsing the surface of the siding with a garden hose.
- The finish on Celect is resistant to mildew. However, should this occur, standard laundry bleach can be added to the cleaning solution at a ratio of 1 part bleach to 10 parts water (13 ounces per gallon).
- Avoid using solvents such as nail polish remover, acetone, MEK, butyl carbitol, etc., as these chemicals will damage the coating finish.
- Avoid using bleach or cleaners which contain bleach such as Clorox Cleanup, as these cleaners may permanently discolor the coating finish.
- Avoid using any cleaners containing abrasives of any sort such as soft scrub, as these abrasives may scratch the coating finish.
- Avoid using scrub brushes.
- Avoid pressure washing the siding at high pressure as this may damage the siding and or coating finish.

ROYAL® SPEC SERIES™ TRIM

Spec Series Outside Corner Post

Place the corner post in position, allowing a 1/4" (6.4mm) gap between the top of the post and the eave or soffit. Position a nail at the top of the upper slot on both sides of the corner post, leaving a gap of approximately 1/32" (0.8mm) between the nail heads and the corner posts. The corner post hangs from these nails. The balance of the nailing should be in the center of the slot, 8" to 12" (203mm to 305mm) apart, again leaving 1/32" (0.8mm) between the nail head and the corner post. This allows for the expansion and contraction to occur at the bottom. The corner post should extend 1 1/2" (38. mm) below the bottom of the starter strip. Make sure the posts are plumb (i.e., vertically straight) and square to the wall. Cut away any exposed nail hems.

Inside Corner Posts

- Inside corner posts are installed in the same manner as the outside posts.

Wide Faced J Channel

- Wide-faced J channels can be used as a siding receiver around areas such as windows, doors and anywhere the panels terminate and the panel expansion gap needs to be concealed.
- Fasten the channel every 8" to 12" (203mm to 305mm), placing the fastener in the center of the nailing slot(s) leaving approx. 1/32" (.8mm) space between the head of the fastener and the vinyl. Leave 1/4" where the channel terminates at corners, etc. to allow for expansion.

FREQUENTLY ASKED QUESTIONS

What is the best method for cutting Celect®?

Celect siding panels are most easily cut using standard wood cutting tools such as a miter saw or circular saw for straight cuts and jig saw around obstacles. The best tool for Celect Trim is a power miter saw.

Do the cut ends need to be sealed?

No, not necessarily. The only reason to coat them is if the ends are going to be visible. This way the finish color will match the adjacent sides of the part.

Where and when can I use caulking?

The use of caulking should be held at a minimum. If it is desired for aesthetic reasons, caulking can be used around window and door trim, etc. Never caulk at any expansion gaps, such as in trim pockets or at the top of corners.

My existing windows have a built-in J channel. Do I still need additional trim around the window?

Typically yes. Celect horizontal profiles require 1/2" to 1" expansion gaps along the jams of windows and most built-in channels are only 3/4" deep. This means that the end of the panel could contract to the point that it would be visible outside the pocket of the channel. The same holds true for Celect Board and Batten panels, only not at the jams but above and below windows for the same reason. Unless the built-in trim is at least 1" in depth, additional trim should be installed.

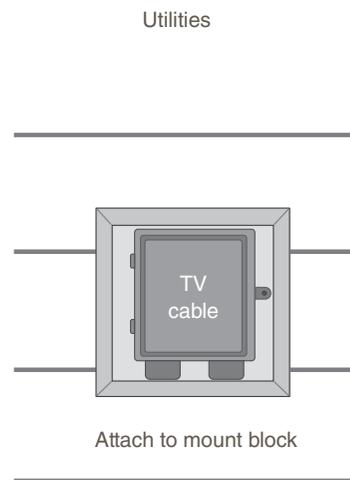
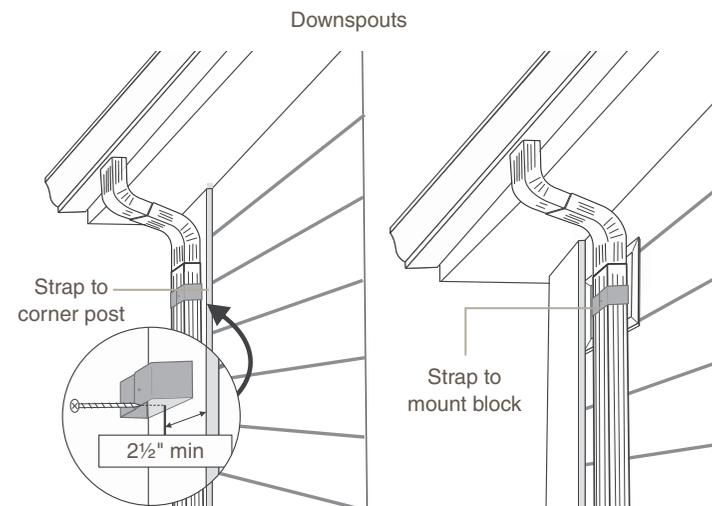
Can Celect Siding and Trim be repainted?

Yes. We recommend 100% acrylic latex paint. If you're going to paint the product a darker color, consult the paint manufacturer for the LRV (Light Reflectance Value). Painting Celect products with paint darker than 50% on the LRV scale voids the product warranty. There are paint manufacturers that sell coatings specifically designed for PVC. These paints are typically referred to as "vinyl-safe" paints or "heat reflective" coatings.

IMPORTANT INFO

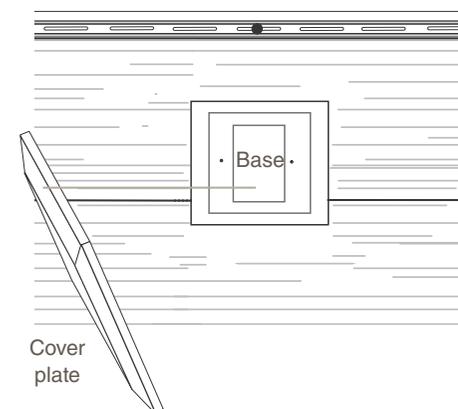
Attaching Products to Celect® Siding

Celect Cellular Composite Siding expands and contracts as the temperature changes. Allowing for this movement is critical to the success of the siding installation. Following the guidelines below will help ensure this success.



Mount Block Installation

- Celect Fixture Mounts are available for obstructions such as lighting, dryer vents, water faucets, etc. Begin by installing the base "ring." (If the siding has been previously installed, cut a rectangle out of the siding 2" wider and 3/4" higher than the mount base.) Install the siding panels, allowing for the appropriate expansion gap. Center and secure the face plate with two Celect Cortex® trim screws and plugs.
- Fixture mounts can also be field constructed using cellular PVC, wood, etc. The pocket depth must be 2" along the sides and 3/4" top and bottom to allow for the appropriate expansion gap.



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For product warranty details, please visit CelectWarranty.com

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