Installation Tips & Techniques

Tools
• **Safety glasses and power miter saw:** carbide saw blade with 80 teeth or more recommended.
• **Miter box and hand saw:** Limited angle adjustment (not recommended for crown).
• **Coping saw:** Only needed if you choose the coping technique to install the moulding.
• **Angle gage:** To create the correct miter, you must determine the wall corner angle.
• **Glue:** To adhere the miter joints, Royal Mouldings strongly recommend gluing all joints with PVC or “Pipe Cement.”
• **Hammer & nails** or a pneumatic nail gun.
Other tools may include a tape measure, pencil, C-clamp, putty and caulk.

Nailing
Install Never Rot® mouldings using 6d and 8d galvanized nails and/or recommended adhesives (see chart on this page). Place nails 12” on center. Nails should be approximately 3/4” from each edge. If nailing product at 40ºF or below, pre-drilling is required. Pneumatic nailing is also recommended.

Fastening Trim Board
Use fasteners designed for wood trim and wood siding (thinner shank, blunt head, full round head) with trim board. Use only fasteners intended for exterior use such as stainless steel or hot-dipped galvanized.
DO NOT USE staples, small brads and wire nails. The fasteners should be long enough to penetrate the solid wood substrate a minimum of 1-1/2”.
Use two fasteners per every framing member for trim board applications. Trim boards 12” or wider as well as sheets will require additional fasteners. Fasteners must be installed no more than 2” from the end of each board.
Trim boards should be fastened into a flat, solid substrate. Fastening trim boards into hollow or uneven areas must be avoided. Unless product is installed in lower temperatures (< 40ºF) pre-drilling is typically not required. Thinner trim products (3/8” and 1/2”) are not intended to be ripped into trim pieces. They are to be glued to a substrate and mechanically fastened.

Gluing
Gluing Miter Joints
Royal Mouldings strongly recommend gluing all miter joints on PVC or styrene mouldings using a quality instant glue and/or PVC cement. It may seem unconventional, but the benefits outweigh the inconvenience. When assembling splice and return miters try gluing the mouldings together before installation. This will allow you to fit the joints uninhibited, and fasten the trim to the wall as one unit. Fitting these joints on the wall can be difficult and possibly jeopardize the integrity of the miter joint.

Installation
**Brick Mould & Jamb**
1. Remove old jamb, brick mould and garage door stop with a pry bar or hammer.
2. Measure the top opening from side to side and cut jamb to fit with a fine tooth power- or hand saw.
3. Install top jamb piece using 8d galvanized finishing nails to 2x4 or 2x6 structural frame members. Alternate nailing from side to side, nailing every 12” and approximately 3/4” from each edge. Note: If nailing product at 40ºF or below, pre-drilling is required.
4. Measure and cut jamb side pieces to fit from top jamb to floor. Nail as directed.
5. Measure top brick mould to overlap the jamb material by 1/2”. This will allow for a 1/8”–1/4” reveal around the jamb. Reveal should be both on top and sides. Cut 45º angle on ends, butt or angle joint middle seam if needed. *Note: Reveal may vary depending on siding, siding J-channel, brick or block installation.
6. Install brick mould using 10d or 3” galvanized finishing nails, spaced 12” on center. Use PVC cement in the mitered joint for optimum fit. * Note: nails should penetrate structural frame at least one inch.
7. Measure and cut side brick mould trim to fit. Install as directed.

**Garage Door Thermo*Stop® II**
1. When installing Garage Door Thermo*Stop® II alone, open the garage door and remove old door stop with standard claw hammer.
2. Close garage door. Begin Garage Door Thermo*Stop® installation by measuring and marking 1/2” from outside of garage door several places around the jamb. Connect the marks with a straight edge, then open door again.
3. Measure top opening from side to side and cut Garage Door Thermo*Stop® ends square with fine tooth power- or hand saw.
4. Place grooved side against jamb and inner edge, (where hard vinyl joins weatherstrip) along marked lines. Nail in place with 6d galvanized finishing nails in the pre-punched nail guides or 8” on center.
5. Measure and cut each piece to fit, from top piece to floor. With grooved side against jamb, position nail as directed.
6. For a good drainage and overlap, trim side stop pieces at a 45° angle with scissors where the soft vinyl weather stripping meets the top.

Smart Space System Organizer
Mount the system by screwing directly into the studs. Screws should be #8, minimum, in size and long enough to penetrate studs by 1/2 their length. Length may vary depending on wall construction. Join panel ends over studs to maximize load capacity.

Wainscot
1. Cut pieces to the desired length.
2. Apply construction adhesive to the back of one piece of wainscot.
3. Starting in a corner of the room and making sure the nailing fin faces away from the corner, press the first piece into place.
4. Nail through the fin into the wall.
5. Continue gluing and nailing until you come to the corner. At this point, it may be necessary to rip the last corner piece so that it will fit.
6. Repeat along each wall.

Painting
Painting Cellular Vinyl PVC
Royal’s factory applied Readi-Finish® requires no painting for protection. Desired custom finishes can be achieved using oil based or latex paints. To maintain warranty for custom colors in darker shades, use of paints with VinylSafe™ Technology from Sherwin Williams is recommended. (Dark colors are considered any color that falls within the lightness (L) value of 56 to 0 noting that 100 is white and 0 is black.)

Royal Trim Board® may be painted to achieve a color other than that supplied.
1. Scuff Sand using 220 grit sandpaper to remove any foreign matter and to promote adhesion. Clean sanding residue and paint with a latex acrylic paint. For darker colors refer to Sherwin Williams VinylSafe™ Color Technology. Allow to dry per manufacturer’s directions.
2. Apply a second coat (if required to achieve desired color).

Touch-Up for Exterior Mouldings
A complete line of touch-up products is available from Royal Mouldings for pre-finished woodgrain colors, painted colors and Clearwood® ready to stain finishes. Also recommended:
- Dap® “All Purpose” Painter’s Putty®
- Minwax High Performance Wood Filler®
- Elmer’s Fill-N-Finish Light Wood Filler®
- Sherwin Williams Shrink Free Spackling®
After installation is complete, caulk and/or putty all gaps and nail holes.

Cleaning
Exterior Mouldings
Cleaning Royal Mouldings is easy and fast with most major household cleaners. There are many cleaners on the market and the glass cleaners seem to be the best candidate for keeping the finish intact. The cleaning solution should be applied and immediately wiped dry. With any cleaning material, the cleaning solution should not be left to stand on the components for an extended period of time. Royal Mouldings recommends the following cleaners:

Windex®, 409 Glass and Surface Cleaner®
Spic & Span Cinch®, Fantastik All-Purpose®
Clorox Clean-Up®, Regency® (Glass and Surface)
Glass Plus®, Fantastik Orange Action®
Fantastik Oxy Power Multi-Purpose Cleaner®

What to Avoid
Harsh cleaners with glycol ethers or ethanol type solvents and/or isopropyl alcohol soften the coating if left on for several minutes and are not recommended. Examples of these harmful cleaners are Goof Off®, Wal-Mart “Great Value All Purpose Cleaner®” (glycol ether), 409 General Purpose® (2-Butoxyethanol) and Greased Lightning® (glycol ether), citrus cleaners, abrasive cleaners, and solvents such as acetone, paint remover and lacquer.

Adhesive Selection for Cellular Vinyl
The following brands have been laboratory tested and approved for use with Royal Cellular Vinyl; however, individual conditions may vary and these adhesives may not perform under every circumstance. Other brands may also be suitable, but always test before using.

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<th>Int/Ext Adhesive</th>
<th>Wood</th>
<th>Steel</th>
<th>Sheetrock</th>
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<td>Dow 100% Silicone®</td>
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<td>Dap 230 Latex®</td>
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<td>TruTest® (Tru Value®)</td>
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<td>Contech PL-400®</td>
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<td>Better Than Nails®</td>
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<td>Heavy Duty®</td>
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<td>For Interior Use Only</td>
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<td>G.E. Silicone®</td>
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<td>USG Cove Base Adh.®</td>
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<td>OSI Quick Bond®</td>
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Expansion & Contraction: Royal Mouldings exterior PVC products, as manufactured, will expand and contract due to temperature variations. To reduce or eliminate open joints, the preferred method is the use of adhesive commonly called “pipe glue” or PVC pipe cement.” When bonded correctly with this adhesive, the joint becomes an integral part of the system to which it is being applied.