



Maibec CanExel™

Engineered siding

Installation Guide

Maibec CanExel™ Ced'R-Vue

Prefinished Lap Siding

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INTRODUCTION

These instructions are in accordance with the standards of the National Building Code of Canada, section 9.27 and are intended to cover the normal building practices encountered in Canada and the United States.

In QC and coastal provinces (NFLD, NS, NB, PEI, BC) CANEXEL SIDINGS MUST BE APPLIED ON FURRING STRIPS ("STRAPPING"). We also recommend the use of a humidistat-controlled mechanical ventilation system, as specified in the N.B.C., in conjunction with strapping. This represents good building practice. Strapping is also required by certain manufacturers of breather-type building paper.

In all cases, consult your national and local building codes to ensure appropriate installation

Installation of the siding over furring strips allows ventilation behind the siding, thus reducing the damage that could occur should there be moisture accumulation in the walls due to exfiltration and infiltration. Automatically controlled mechanical ventilation also greatly

reduces the risk of condensation moisture problems occurring in the walls.

Canadian Construction Materials Centre (CCMC) recommends that ALL types of horizontal, vertical, and panel sidings for use on NHA housing in the Atlantic Provinces be installed over furring strips.

IN NON-TRADITIONAL ICF AND SIP ASSEMBLIES, THE ICF OR SIP MANUFACTURER MUST PRESCRIBE THE FASTENING SPECIFICATIONS. NOTE: MAIBEC CANEXEL DOES NOT RECOMMEND CANEXEL FOR USE IN THESE NON-TRADITIONAL ASSEMBLIES. IF USED, MAIBEC CANEXEL WILL NOT WARRANT FOR BUCKLING AND SHRINKAGE. HOWEVER, BALANCE OF WARRANTY DOES REMAIN INTACT.

At the time of manufacture, CanExel siding meets or exceeds the performance standards set forth in Composite Panel Association ANSI 135.6-2006 and conforms to "CAN/CGSB-11.5 M87."

STORAGE

Do not store CanExel Siding in heated buildings. Storage in heated buildings will dry out the siding and make it susceptible to buckling.

The siding must be kept on Maibec CanExel supplied pallets so that it remains flat, and must be covered with a water resistant shroud provided by Maibec CanExel.

Keep siding clean and dry. Inspect prior to application.

Allow siding to adjust to atmospheric conditions before application.

STUD SPACING

CanExel Siding may be installed over sheathing or unsheathed walls (single-skin application) and NAILED INTO STUDS SPACED NOT MORE THAN 16 in. (400 mm) O.C. Use a code approved breathable barrier between the siding and the studs or sheathing.

ALLOW AT LEAST 8 in. (203 mm) BETWEEN THE BOTTOM EDGE OF THE SIDING AND THE GROUND. SIDING SHOULD NOT

COME IN DIRECT CONTACT WITH CONCRETE. These measures will reduce moisture absorption by the siding. See Figure 1.

Siding may be applied over masonry construction as long as furring strips are utilized and securely attached to the masonry assembly on sixteen (16) inch (400 mm) centers.

Studs must be a minimum 1.5 in x 3.5 in (38 mm x 89 mm).

MOISTURE

Moisture control and moisture vapor control are critical elements of proper housing design. Check your local building codes for application procedures for handling moisture and moisture vapor in your area.

As with all wood products, do not apply engineered wood siding to a structure having excessive moisture conditions such as drying concrete or plaster. If such conditions exist, the building should

be well ventilated to allow it to dry prior to the applications of the siding.

Siding must not be applied to green or crooked structural framing members. Do not apply siding over rain-soaked or buckled sheathing materials.

Gutters are recommended for control of roof water run off.

Moisture (cont'd)

Dirt or gravel floors in basements or crawl spaces are major sources of moisture. It is therefore essential that such floors be sealed (by a layer of concrete, asphalt, polyethylene, etc.) to minimize the risk of moisture damage to the structure and siding.

New construction produces a lot of moisture as the concrete, lumber and drywall dry out. In colder weather it is recommended that windows be left partially open to dissipate this surge of moisture.

A vapor barrier with a perm rating less than 1 (e.g. polyethylene or foil) must be installed on the WARM SIDE or interior surface of the wall, and extend behind partition walls to form continuous protection of exterior walls. This is necessary to prevent condensation from damaging the components of the wall system. (Note that exterior building paper is not a vapor barrier.)

SECONDARY WEATHER RESISTANT BARRIER

A properly installed breathable water-resistive barrier is required behind the siding. Special care must be taken to completely seal all openings for electrical boxes, conduits, pipes, wiring, and joints or tears in the water-resistive barrier to prevent moisture from entering the wall cavity.

Consult your local building code for details. Maibec CanExel will assume no responsibility for water penetration.

GAPS & SEALANTS

Seal all gaps with a high quality, non-hardening, paintable sealant. Follow the sealant manufacturer's instructions for application.

FLASHING, WINDOWS, DOORS & OPENINGS

All openings must be properly sealed or flashed in a manner that prevents moisture intrusion or buildup. Several examples that accomplish this are shown on the following pages. (See Figures 1-3).

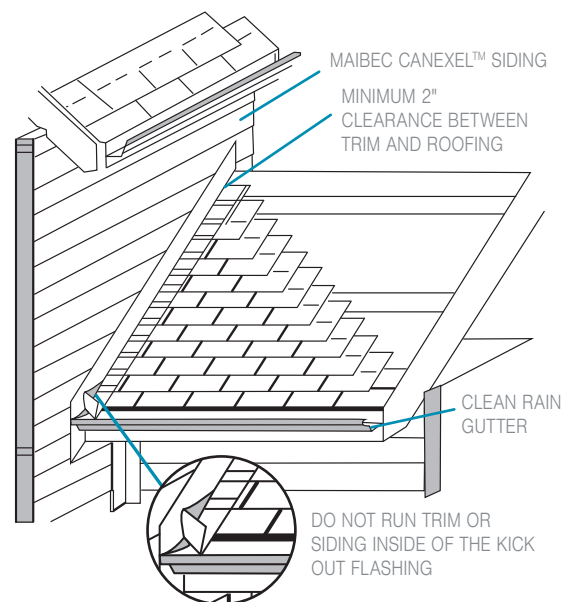
Siding applied adjacent to porches, patios, walks, etc. must have a clearance of at least 2 in. above any surface. The surface must be sloped or otherwise designed to provide proper drainage so the siding is at no time directly exposed to standing water.

Space nails 8 in. (200 mm) O.C. along edge of siding under windows: shim where necessary. **DO NOT FORCE OR SPRING SIDING INTO PLACE** as this will cause buckling.

ALWAYS LEAVE A 3/16 in. (4 mm) SPACE WHEREVER SIDING BUTTS AGAINST TRIM OR OTHER MATERIALS to allow for expansion. Use J-mould or sealant.

KICK-OUT FLASHING

- Install kick-out flashing to direct the water into the gutter
- Install step flashing with minimum 4-inch upper leg
- Properly integrate flashing with the secondary water-resistive barrier. Use housewrap, flashing tape, z-flashing, or other items as needed to maintain the counterflashing principle.
- **DO NOT** extend the siding or trim into the kick-out flashing or gutter
- Maintain a clearance between the end of the gutter and the adjoining wall to allow for proper maintenance of the siding
- Paint ALL exposed cut edges



FURRING STRIPS (STRAPPING)

When furring strips are required, they must be installed VERTICALLY and nailed into wall studs, 16 in. (400 mm) O.C., over the full height of the wall. Furring strips must not be less than 1/4 in. (6 mm) thick:

TO ENSURE VENTILATION, BOTH THE TOP AND BOTTOM OF THE SPACE BETWEEN FURRING STRIPS MUST BE LEFT OPEN. At the top, this gap can be behind the soffit. In walls that are vented to the soffit, the soffit must be vented to allow air flow. The opening at the bottom should be open to the outside except for the insect screen. Under and above windows and above doors maintain spacing of 2 in. between furring strip and horizontal framing (see diagram).

At the bottom, a short furring strip about 12 in. (300 mm) long should be installed VERTICALLY, centered between each main furring. This will provide better support and will ensure that the insect screen fills the opening.

RE-SIDING OF EXISTING BUILDINGS

The new siding MUST be installed on furring strips (strapping) after the weather resistive barrier (building paper or housewrap) has been replaced. The old siding must be removed.

INSULATED SHEATHINGS

Maibec CanExel™ Sidings may be installed over low-compression rigid foam or fiberglass sheathings. The following precautions must be followed:

- Adequate bracing of the wall in accordance with the National Building Code or other ruling building code is required.
- For rigid foam sheathing up to 1" (25.4 mm) thick, siding may be nailed directly to the foam sheathing unless a drainage plane is required by the local building code. Nail length must be increased to ensure a minimum 1-1/4" fastener penetration into the structural framing.

- For rigid foam sheathing greater than 1" (25.4 mm) or for fiberglass sheathings, a minimum 1-1/4" (31.75 mm) thick by 4" (101.6 mm) wide strapping must be installed over the sheathing to provide a solid, level nailing base for the siding. The strapping must be securely fastened to structural framing spaced no greater than 16" OC (406 mm) with a minimum nail penetration of 1-1/4 inches (31.75 mm) and a maximum nail spacing no greater than the width of the siding.

Maibec CanExel will assume no responsibility for any damage or condition arising from the use of foam sheathing.

NAILS/FASTENING

Maintain a minimum 1-1/4 in. fastener penetration into the stud, strapping, or combination thereof

- Nailable sheathing may be included in the penetration requirement
- 1.125 in. minimum stud penetration for spiral shank

Increase nail penetration if code requires.

Blind nailing is required except around windows and other wall openings

Use corrosion-resistant nails with a minimum 0.113 in. diameter shank and a 0.240 in. head

Fasten along the nail-line no greater than 16 in. OC

DO NOT USE STAPLES!

CONDITION

Snug

Flush

Visible fiber

Countersunk
1/16 in. - 1/8 in.

Countersunk
more than 1/8 in.

CORRECTION

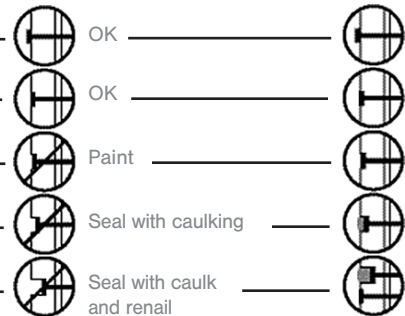
OK

OK

Paint

Seal with caulking

Seal with caulk
and renail



HORIZONTAL LAP FASTENING SPECIFICATION OVER INSULATED CONCRETE FORM (ICF) ASSEMBLIES

THE FOLLOWING FASTENING SPECIFICATIONS ARE STRICTLY LIMITED TO HORIZONTAL APPLICATIONS.

- Use a minimum #8 corrosion resistant screw with minimum penetration of 3/8" past the nailing flange

- Larger screws may be required by the ICF manufacturer based on the following minimum withdrawal requirements

- Minimum withdrawal value of the ICF nailing flange must be 50.0 lbs with maximum 12" OC screw spacing
- Minimum withdrawal value of the ICF flange may be 31.0 lbs with maximum 6" OC screw spacing

Nails/Fastening (cont'd)

- The minimum head diameter of screw shall be 0.297"
- When strapping or furring strips are required, they must be installed VERTICALLY and fastened securely over the full height of the wall. The strapping must be a minimum 1/4" (6 mm) thick by 3" (7.6 mm) wide.
 - TO ENSURE VENTILATION, BOTH THE TOP AND BOTTOM OF THE SPACE BETWEEN THE STRAPPING MUST BE LEFT OPEN. The opening at the bottom should be open to the outside and protected with insect screen. Locations above and below windows and above doors must maintain a 2" space between the furring strips and horizontal framework, trim or moulding.
 - The strapping must be parallel with and attached to the nailing flange and may be spaced up to 12" OC if the minimum with-drawal value of the nailing flange is 50.0 lbs using a #8 screw.
- The strapping must be parallel with and attached to the nailing flange and may be spaced up to 6" OC if the minimum with-drawal value of the nailing flange is 31.0 lbs using a #8 screw.
- Fasten the strapping to the nailing flange such that the strapping will remain centrally located over the nailing flange while the siding is installed.
- Increase the length of the screw by the thickness of the strapping such that the screw penetrates the siding, strapping, and 3/8" beyond the center of nailing flange.
- Space the strapping at the bottom of all ICF walls no greater than 6" OC so the first two courses of siding are supported over strapping no greater than 6" OC apart. This will require shorter strapping inserted between the primary strapping if the primary strapping is spaced 12" OC. This narrower spacing at the bottom of the wall provides uniform support to the siding and the insect screen.

TRIM

Trim should be thick enough so the siding does not extend beyond the face of the trim.

Trim and fascia must be applied in a manner that will not allow moisture intrusion or water buildup.

ACCESSORIES

A complete range of accessories are available to complement your siding including:

- a) Metal starter strips
- b) Color-matched mouldings for joints, inside and outside corners, J-mouldings, drip caps and Z flashings
- c) Color-matched touch-up paint or stain
- d) Color-coordinated caulk/sealant
Available at www.aluminiumdepotinc.com

SIDING APPLICATOR INSTRUCTIONS

Use a fine-toothed saw or a power saw with a combination blade. Ensure that the cutting action is toward, or into the finished side of the product; this will prevent the paint surface from chipping.

FASTENING WITH STAPLES IS NOT ALLOWED.

- a) Level and install metal starter strips along bottom edge of sheathing or sill plate, or up to 1 in. (25 mm) below these, as required by course layout.
- b) Install continuous outside corners, if these are used in lieu of individual outside corners. Install continuous inside corners. See Figures 3, 3A, 3B, & 3C.
- c) Use drip caps above windows and doors and J-moulds on each side of windows and doors. See Figure 3H. Extend drip cap past J-moulds, cut at angle and bend down over J-mould to prevent water entry at junction.
- d) Install first course of siding so that the plastic spline fastened to the back of the siding fits over the edge of the starter strip as shown in starter strip detail (Figure 3F). Fasten the siding by nailing into the nailing line (about 1/2 in. (12 mm) from top edge of siding) at EACH STUD OR FURRING STRIP LOCATED OVER THE STUD, LEAVING NO MORE THAN 16 in. (400 mm) BETWEEN NAILS. Begin nailing at one end of the siding and work toward the other end to prevent rippling of the siding. Do not countersink nail heads. Ensure that strips are aligned at corners of the building.
- e) The vertical joint between adjacent siding pieces must be located over the middle of a stud or furring strip that is also located over a stud. Leave a 3/16 in. (5 mm) gap between siding pieces and nail both pieces into the stud or furring strip. When joint mouldings are used, add the thickness of the joint mould spline to the 3/16" gap. Insert a joint moulding into the gap or seal using a high quality paintable non-hardening sealant.

Siding Applicator Instructions (cont'd)

- When sealing, avoid overlapping the sealant onto the face of the siding. LEAVE A 3/16 in. (4 mm) GAP WHERE SIDING BUTTS AGAINST TRIM TO ALLOW FOR EXPANSION. See Figure 3E. These joints can be sealed or covered with a color-matched J-moulding. See Figures 3A & 3B.
- f) Install subsequent courses of siding so that the plastic spline fastened to the back of the siding fits over the top edge of the previously installed piece of siding. Install individual outside corners with each lap if used in lieu of continuous outside corners. Stagger joints from one course to the next.

- g) Color matched touch-up paint can be used to repair scratches and paint chips. Dab the touch-up with a Q-tip, do not brush or rub.
- h) The Ced'R-Vue 6" "Snap Lap" must be separated («snap») on a flat surface, otherwise the sacrificial horizontal groove will not snap easily. For best results, snap the siding on a flat surface 12' in length, same as the siding. You will get a sharp separation between the two boards.

CARE OF CANEXEL PREFINISHED SIDING

All Canexel Siding finishes are long wearing and require simple maintenance. For best results, siding must be washed annually using non-abrasive household cleaners according to the manufacturer's recommendations. Test cleaners on a small area to ensure they do not damage the finish. Rinse siding surface thoroughly after cleaning. DO NOT USE PRESSURE WASHER.

For further product information in the US and Canada, please call 1 800 363-1930 or write to: Maibec CanExel, 202 - 1984, 5^e Rue, Lévis, Québec G6W 5M6, Canada.

See the maintenance guide at maibec.com for more details.

FIGURE 1
ESTABLISH STRAIGHT REFERENCE LINES

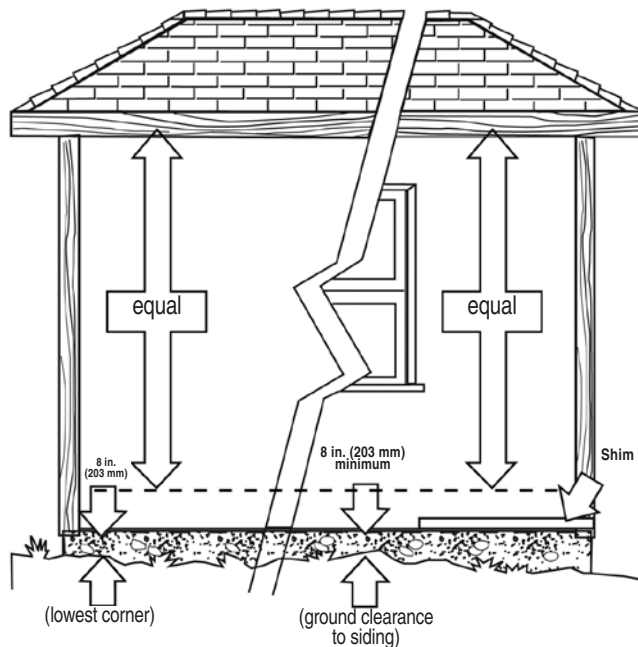


FIGURE 2
ROOF FLASHING DETAIL

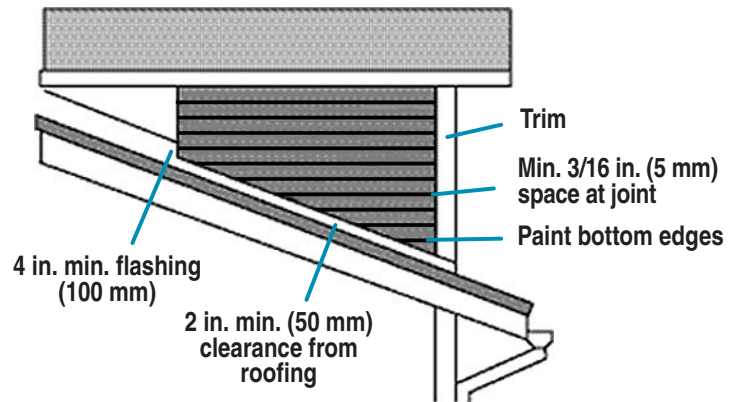


FIGURE 3

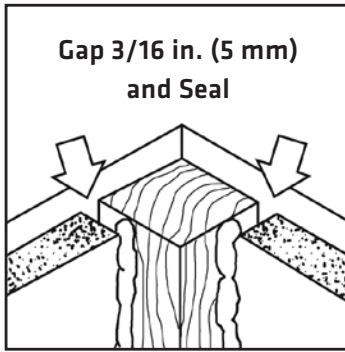


FIGURE 3A

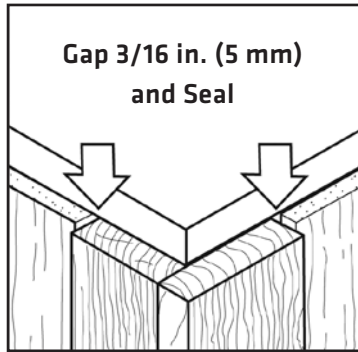
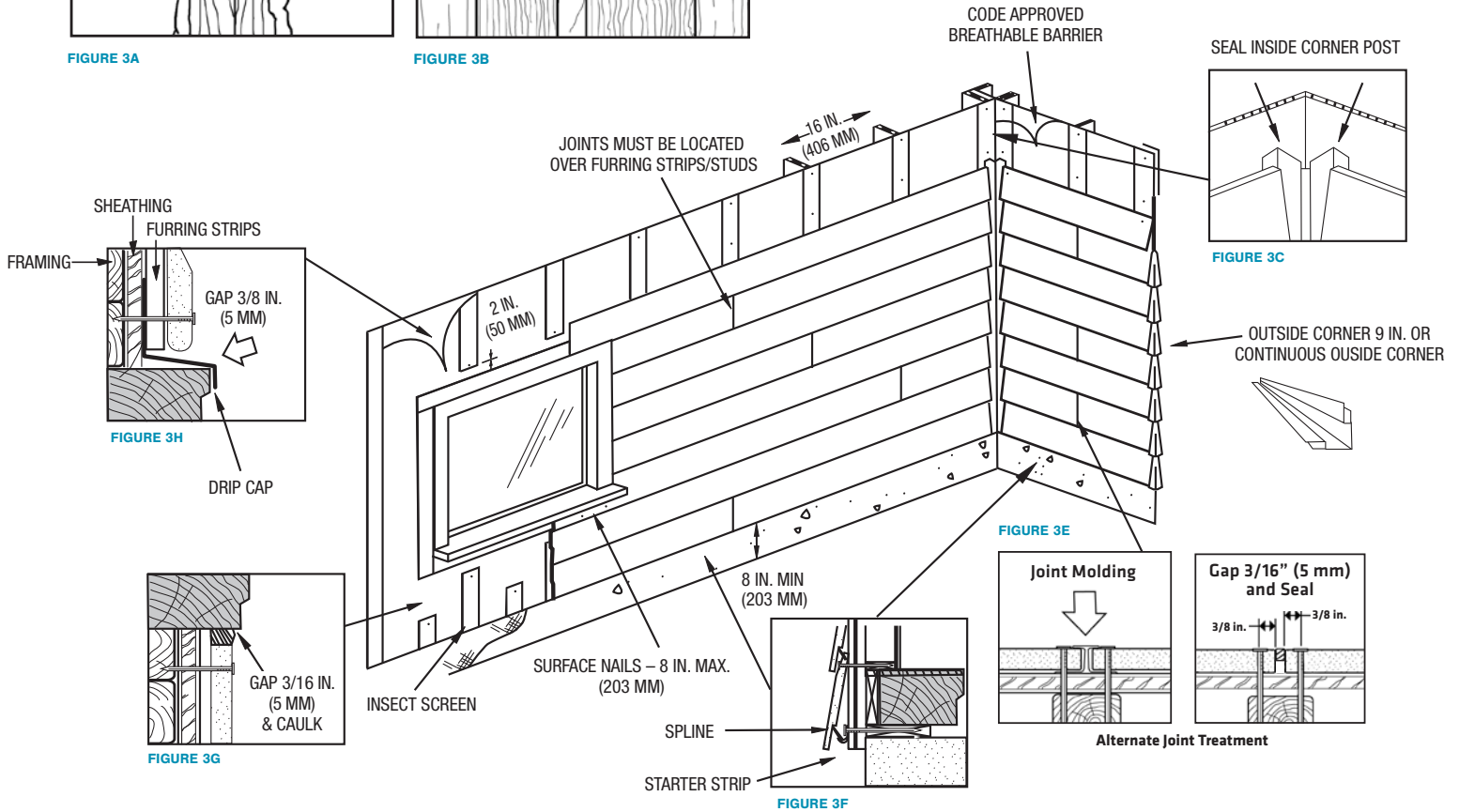


FIGURE 3B



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COMPLIANCE WITH MAIBEC CANEXEL'S INSTALLATION, STORAGE AND MAINTENANCE REQUIREMENTS, AND WITH ALL APPLICABLE BUILDING CODES IS MANDATORY. PROBLEMS CAUSED BY FAILURE TO COMPLY WITH THESE REQUIREMENTS AND CODES MAY NOT BE COVERED BY THE APPLICABLE WARRANTIES.

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