



INSTALLATION GUIDE



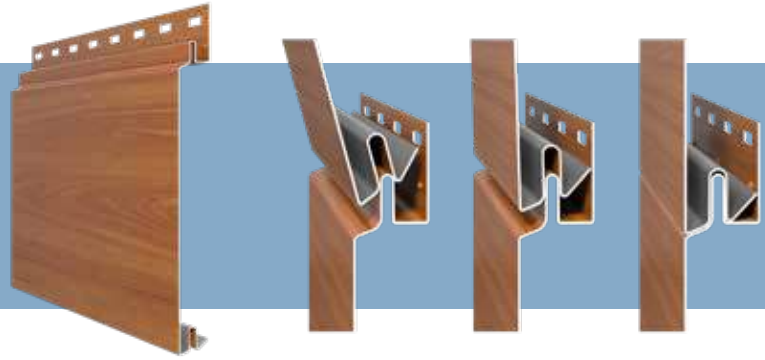


DISCLAIMER

The information provided in this manual is presented in good faith and with the expectation that the reader is familiar with general construction practices, basic code requirements and experienced in the installation of siding and related materials. Please note that this manual is general in scope with its focus on installation of ALUZION products, not framing or other construction elements. Before beginning, insure you are familiar with and follow all applicable building code and local requirements, including those related to safety. By proceeding you are assuming the contractor role and attesting to your familiarity with the aforementioned.

If there is an issue with the product, (e.g., colour), immediately notify your local ALUZION representative. ALUZION will not be responsible for issues that should be detectable within the first 100 square feet of installation. ALUZION Architectural Products assumes no liability, expressed or implied as to the project architecture, engineering (if an where applicable) or workmanship. To ensure you are using the most up to date information, please visit www.aluzion.ca, or contact your local ALUZION distributor.

REVOLUTIONARY ALUZION INO-CLIP TECHNOLOGY



You have chosen a solution that goes beyond the use of everyday materials—the inspired woodgrain finishes add to a unique composition that make it the right choice for timeless designs. Lightweight, easy-to-install, minimal upkeep, ALUZION panels boast exceptional resistance to North America's challenging climate zones.

KEY BENEFITS



**Exceptional
Quality**



**Weather-
Resistant
Design**



**Ease of
Installation**



**Low
Maintenance**



**Environmentally
Sustainable**

WARRANTY

ALUZION Siding is backed by an industry leading and fully transferable 25- year warranty. For more information on our warranty, please visit www.aluzion.ca, or contact your ALUZION representative for terms and conditions.



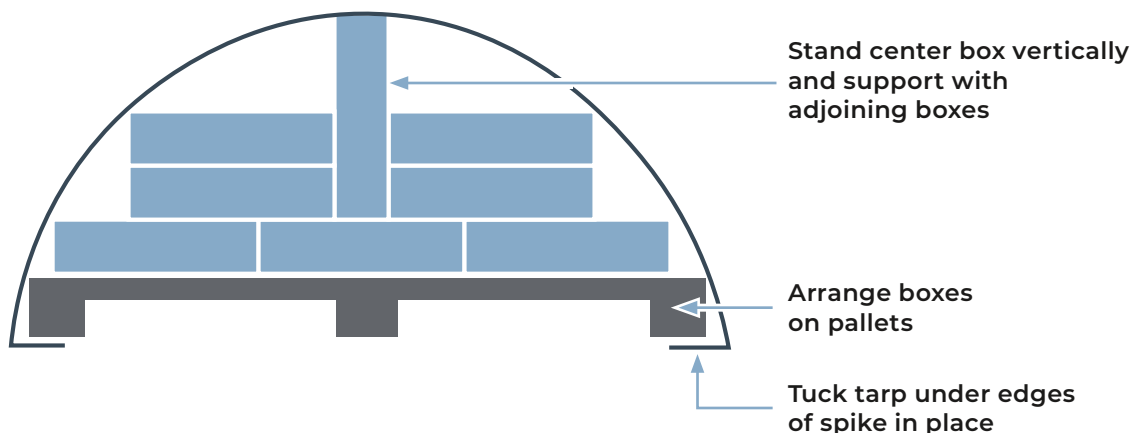
ALUZION HANDLING, STORAGE AND TRANSPORTATION

To prevent incidental damage, the products must be properly handled, transported and stored.



STORAGE

Protect the product from the elements, other workers and site activity. Ideally, boxes are stored indoors out of direct sunlight and protected from rain. Where not possible, store boxes on flat high ground (not in location that could pool during rain events). Place boxes on pallets, or other barrier to avoid direct contact with the ground. Boxes should be fully supported along their length and under protective cover (vented tarp). Tarp should be white to limit heat gain. Slope tarp so that it sheds rain (i.e. tent).



PERSONAL PROTECTIVE EQUIPMENT (PPE)



Please refer to your local OSHA/safety regulations for complete list of personal protective equipment requirements for your region. We recommend the following items which may vary depending on the activity:

TOOLS

Installation of ALUZION materials can be completed with limited tools, but for more accurate and productive installations, power and/or larger scale tools are available. You should have the following:

Basic Installation

- Tape Measure
- Utility Knife
- Mitre or Circular Saw (with appropriate blade)
- Pliers
- Level
- Power Drill
- Metal Shears/Snips
- Claw Hammer
- Plumb Line
- Bending Pliers + Seamer Profile
- Marking Tools
- Screw Drivers

Commercial Installers

- Power Nibblers or Shears
- Coil Cradle
- 10-12' Brake
- J-Cutter
- Wheeled Cutter/Slitter
- Edge Roller

FASTENERS

We recommend screws a minimum #8 - 29 mm (1.125"). **Screws are to be stainless steel** with a minimum load rating of at least 76 N (17 lbf) after 2,000 hours exposure per ASTM B117 Test Method. Screws to have a minimum 6 mm (1/4") smooth shank. **Note: Screws incompatible with aluminum will void the warranty.** Insure aluminum compatibility before purchasing.

Example of approved screws :

COURSE THREAD

Ideal for trims where a screw head may be tight against the item being fastened.



FINE THREAD

Fine thread allows greater control of fastener depth. Ideal where connection requires allowance for expansion and should be used to fasten the siding.



POWER DRILL SETTINGS

Impact drivers and drills without an adjustable clutch should not be used. An adjustable depth setter may be beneficial. When used in combination with the appropriate clutch setting, helps to avoid over-tightening. A variable speed screw-gun with a low speed setting can also be used.

PRE-CONSTRUCTION ACTIVITIES

PRE-INSTALLATION WALL CHECK

Depending on your location, code requirements for water resistive barriers, presence of a “drainage gap”, etc. will vary. Review your local requirements and ensure they have been complied with before beginning the siding installation. While regional requirements may vary, **at no time is installation to proceed without a secondary barrier, meeting local material and installation requirements.**

This guide depicts application over 19 mm (3/4”) furring spaced a maximum 406 mm (16”) on center. Where a drainage gap is neither required nor desired, furring is not required. The impact on installation steps shown in this guide are marginal and should be obvious. There is no need to increase fastener frequency or reduce its spacing.

Certain substrates are not appropriate for direct application and furring is to be installed. In some cases, additional bracing (e.g., Noggins) may be required to prevent buckling. Examples of substrates not suitable for direct siding application include, but is not limited to:

- Insulated Concrete Forms (ICF)
- Insulated Sheathings (XPS, polyisocyanurate, Type I Cellulosic Fibreboard (CFB), < Class 3 Type II CFB)
- Zip Composite Sheathing System

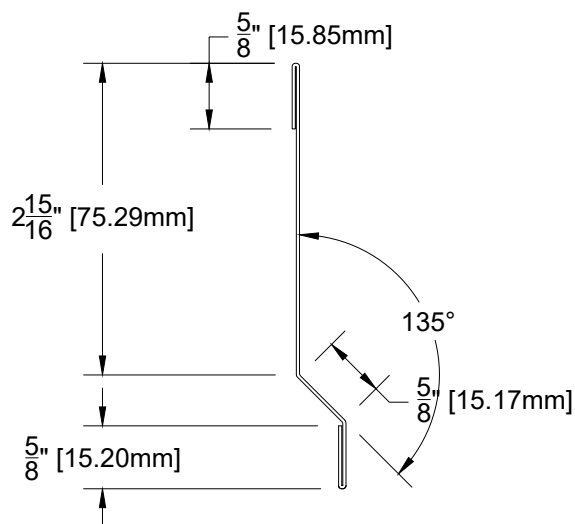
You should also check to ensure that your installation will have the minimum required clearance from finished grade. Where the foundation wall does not sufficiently extend above grade to provide required clearance from grade, advise the responsible party (e.g., builder) for correction before proceeding.

INVENTORY CHECK

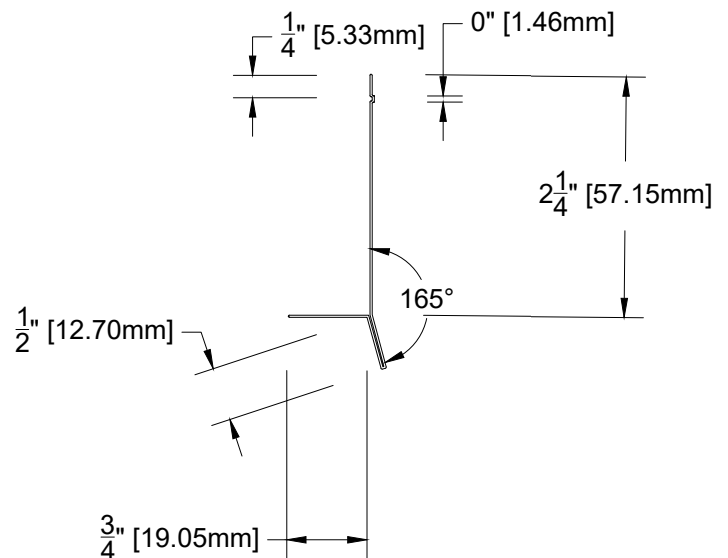
Before you begin your installation, it is worth while and generally saves time to conduct a pre-construction inventory check to ensure you have enough material, required tools and accessories. The tools and accessories required depend on the scope of your project and the conditions you will be dealing with (e.g., inside or outside corners, window, existing roof, etc.). For other accessories, check the ALUZION catalogue.

ALUZION ACCESSORIES AND FUNCTION

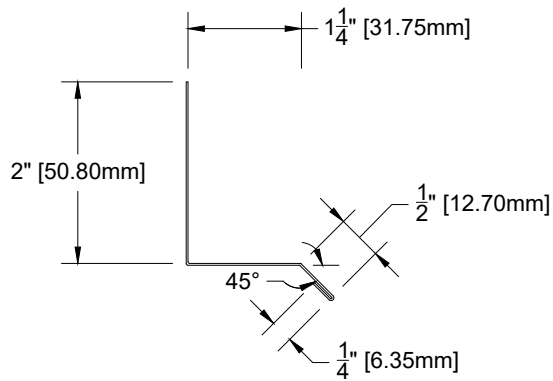
UNVENTED STARTER



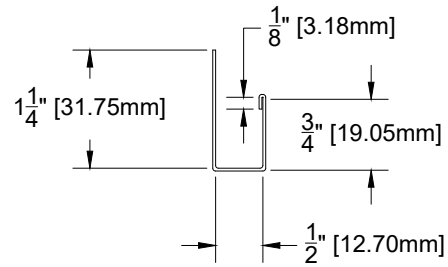
VENTED STARTER



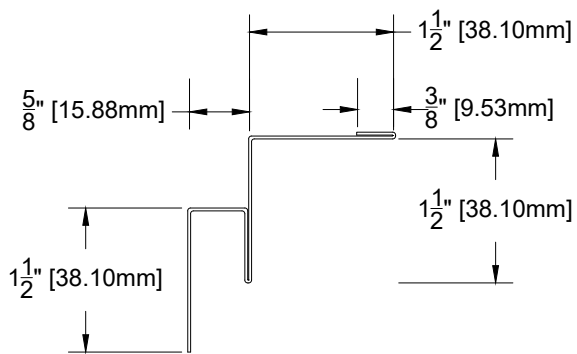
DRIP FLASHING



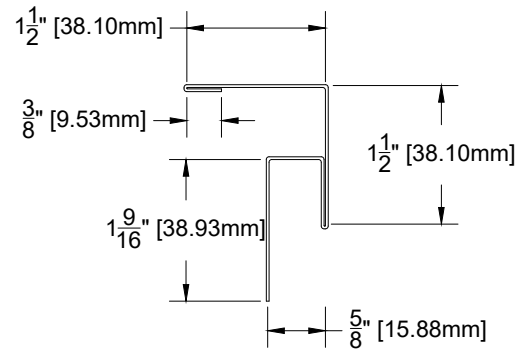
J-TRIM



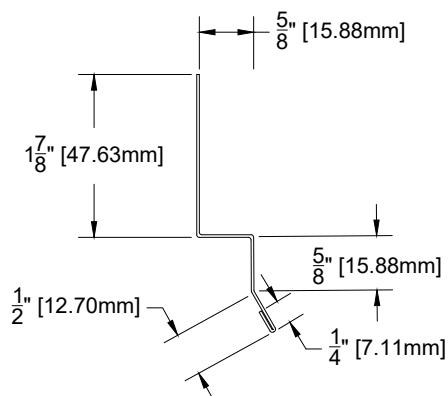
INSIDE CORNER



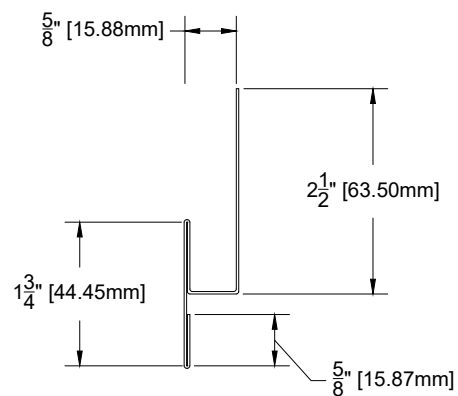
OUTSIDE CORNER



HORIZONTAL TRANSITION



VERTICAL TRANSITION



BASIC LAYOUT, PANEL SORTING AND RACKING

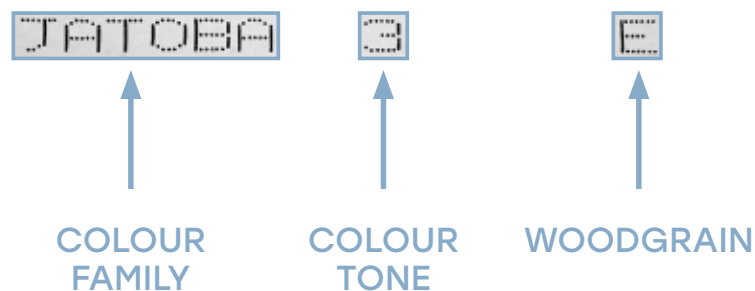
Plan your layout before beginning the installation. Depending on your project there may be conditions not covered by the basic parameters outlined in this guide. In such scenarios, it is important to apply the principles covered to your particular/unique condition.

LAYOUT CONSIDERATIONS (SORTING AND RACKING OUT YOUR WALL)

ALUZION Siding comes in range of colours and colour variations. All woodgrain finished siding must be “sorted and racked”

- Sorting = mix your installation sequence by drawing panels from across the supplied/purchased boxes.
- Racking = arranging your sorted panels on the wall to achieve a balanced range of colour, woodgrain pattern and panel length.

In addition to visible differences on the outside of the panels, the back of ALUZION panels are labeled and coded.



Depending on the colour family, there may be as many as 4 colour tones (light to dark) included, and no less than 3 different woodgrain patterns and as many as 6. Some colours are available in Single-Tones to minimize variability. Be advised that Single-Tone options have woodgrain variations and installations require sorting and racking as defined above.

LAYOUT

The overall height of your wall, distance between your starting point and windowsills, window height and so on, will influence the height dimension of your starter row.

The objective is to minimize waste and avoid conditions where a top row, sections below or above windows are significantly thinner/shorter than adjoining rows. You may also have conditions where the ALUZION Siding System is being installed immediately above an alternative

cladding material (e.g. masonry veneer) on one elevation but not on others. To keep rows aligned around corners while preserving row height above the stone sill requires careful layout planning. In some cases you will not be able to accommodate all variables and a narrow portion is required somewhere. In these cases, pick the location that is the least noticeable, while providing for the least amount of waste.

POINTS

- 1 At inside and outside corners or at opposing sides of vertical interruptions, layout rows so that horizontal joints are in alignment.
- 2 Balance the layout to avoid very narrow strips, keeping in mind that a soffit may reduce the exposed area even more. To balance layout, use the center distance between the base of your planned installation and the line of the soffit. Depending on the number of rows, this center point will be a joint or center of panel. The same applies in vertical applications bearing in mind that at an outside corner, the corner cap is going to reduce the visible area.
- 3 Avoid conditions where adjoining pieces are too short in length. E.g., using a 10' length in an enclosed area 10' 6" wide resulting in one piece being < 6 inches long/wide. Divide distance more evenly.
- 4 To give good colour variation and joint off sets, plan your layout to avoid situations such as H-joints and repeating row by row colour variations.



Properly randomized colour and woodgrain and joints. **TIP: Step back every 3-4 rows to visually check colour and woodgrain variation**

GOOD WORK



Good overall mix, level and clean.
Areas to improve:

- 1 Layer cake colour variations - no horizontal changes in colour options.
Narrow strips below top flashing and above the soffit.
- 2 Horizontal joints either side of masonry not aligned.

IMPROVED/ ADVANCED WORK



- 1 Balanced width beside window and outside corner, good colour mix and joint layout.
- 2 Alignment of horizontal joints on each wall.
- 3 Good “Sorting and Racking” of colour mix and joint layout,.
- 4 Adjusted starter row height to balance row height below window and at the soffit.

INSTALLATION OF THE ALUZION SIDING SYSTEM

Before starting, the secondary plane of protection should be complete, including all required flashings. Where required, strapping/furring should also be installed and appropriately spaced - maximum 406 mm for horizontal and 305 mm for vertical applications. Refer to local codes for water resistive barrier requirements and ensure the installation is compliant.

Create reference line to position the ALUZION Starter Strips on all elevations. If only completing a single elevation and the foundation is flat and level, it may be a usable reference. Where cladding more than a single elevation, use a water-level

or other reference point (e.g., soffit framing) to align rows. Use the reference point/line to find the lowest framing point and use as the starting row location.

Use this as your base line/starting point and mark starter rows. Mark the top for the starter strip or the top of the first row of siding where not using a full height starter row.

Apply the principles described under the “Layout Considerations” to balance the installation and minimize waste.

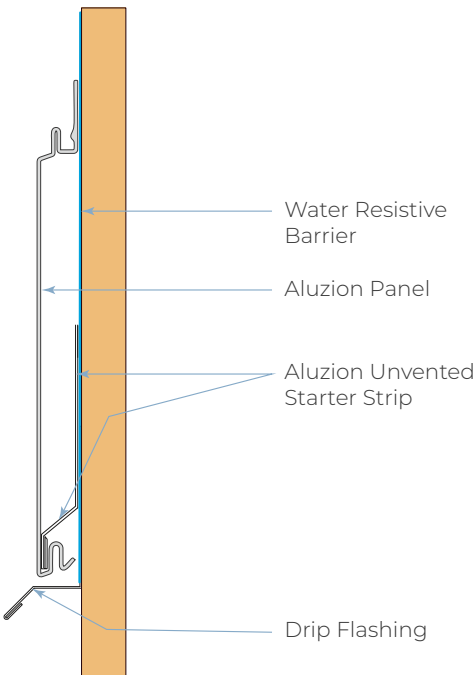
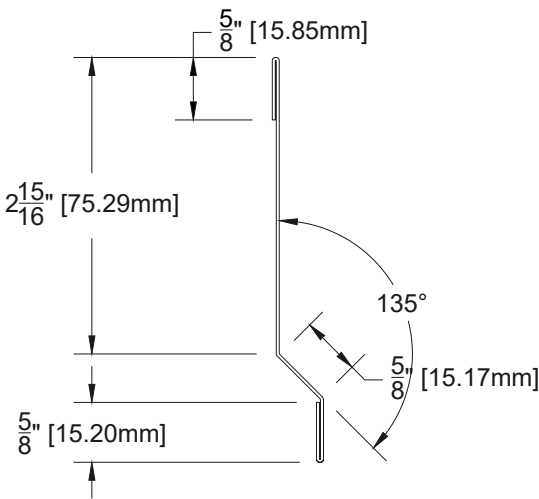


ALUZION STARTER STRIPS

UNVENTED STARTER

Use where siding is being installed on flat/unstrapped walls.

Use in locations where vented configuration prevents use of Vented Starter or where siding is being installed vertically.

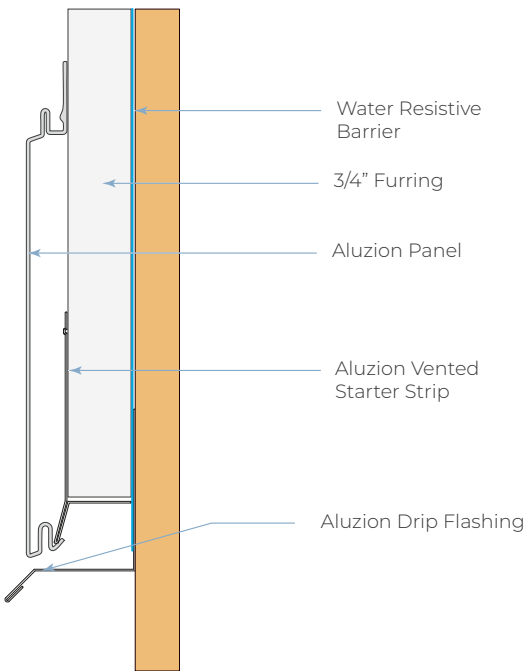
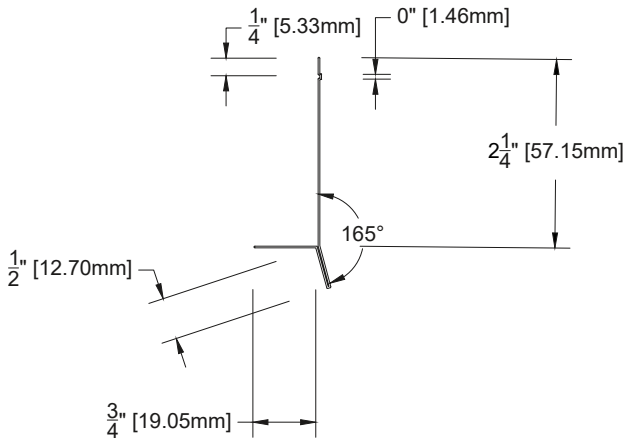


VENTED STARTER

Use where siding is being installed over 19 mm ($\frac{3}{4}$ ") furring.

Horizontal leg of starter

Should be flush or just below the end of the furring.



PANEL INSTALLATION

Hook the first row into the starter and screw fasten (Figures 1-3). Do not over-tighten. Leave a gap about the thickness of a dime between the screw head and connection strip. **Fasteners to be installed every 406 mm (16"). Locate the screw in the center of the screw slots and periodically check that you can shift your first panel from side to side.** If you cannot move it, you are not leaving a large enough gap and need to increase it. A depth stop on your drill is helpful.

If not using a full height panel in your first row, you will need to incorporate or create a stand-off and use in combination with perforated J-Trim (Figures 4, 5). You can fabricate stand-offs using trim coil, or by adding a half inch to the required panel height and folding at 90 degrees. Use a stand-off wherever a panel cannot be connected to another row of siding along its top or bottom, or where a starter strip cannot be used. Note: where the siding is installed over furring, insect screen should be installed wherever there's a path for nesting insects to enter.

Double check for level before starting next row.

For vertical applications, use the same principles covered in this guide and simply rotate 90 degrees. The final screw at the top of a panel should not be gapped but installed tight. All other screws should be gapped as describe in this guide. Additional requirements for vertical applications will be noted as they apply to the condition being covered.

See pages 33 and 34 for strapping configuration options.



Note: Remove protective film as you install. If you leave in place, it can fuse to the siding when exposed to direct sunlight and cause damage. Remove film when ambient temperatures are between -15°C and 32°C (5°F and 90°F)



Figure 1
Hooking ALUZION Base Profile into Vented Starter Strip



Figure 2
Properly gapped screw set evenly, level and square to the panel - see "Additional Considerations" section for more detail on fastening



Figure 3
Hooking ALUZION Base Profile and applying even vertical pressure to set panel evenly into the starter strip.

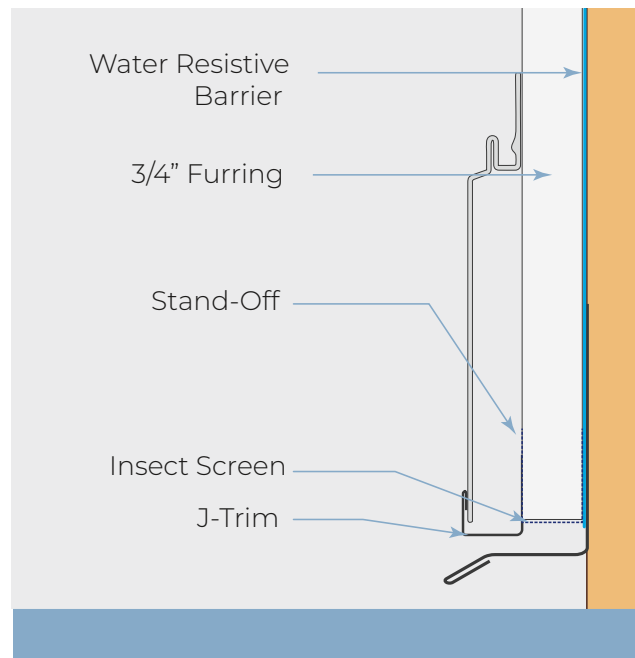


Figure 4
Cut panel with stand-off

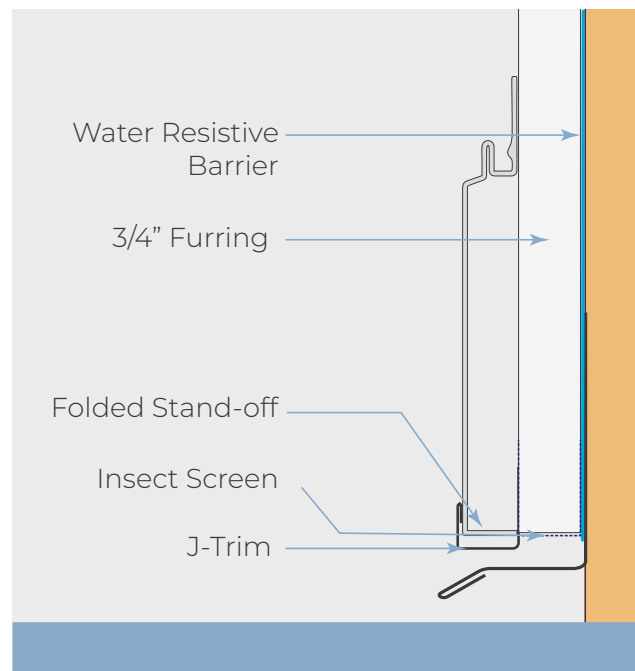
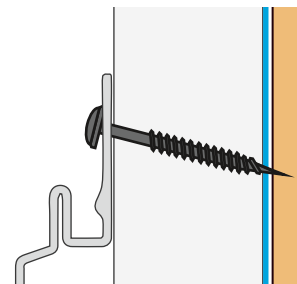
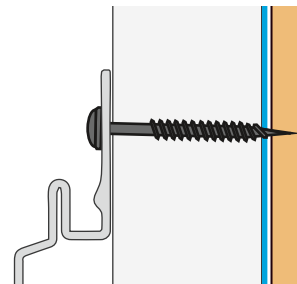
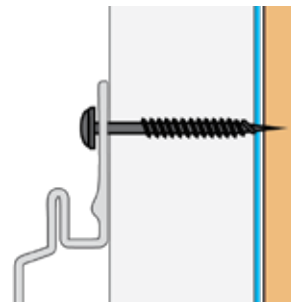


Figure 5
Cut panel with bent stand-off

ADDITIONAL CONSIDERATIONS



When setting screws make sure to hold the drill level and square to the wall so that screws are installed straight and evenly gapped. Avoid screwing too tight or at any angle that can apply directional force upward or downward to the panel .



When transitioning around a corner, cut and fold the vent screen, insert Starter into the corner trim and fasten through both. This screw can be installed tight to the face.



Aluminum expands when temperatures increase, and contract during colder periods. Joints must allow for expansion and contraction to avoid buckling and gapping. Leave a minimum gap of 19 mm (3/4") in the fastening strips at joints. Wherever possible use the pre-cut factory ends at panel to panel joints. Where not possible, trim 19 mm from the concealed top and bottom portions of the Ino-Clip (as shown) and create a min. 6 mm (1/4") overlap on the face of the siding. A factory edge should always be used for the overlapping panel.

ALUZION'S patented Ino-Clip technology allows joints to occur in between strapping (unsupported) if your layout requires, however, you should plan your layout to minimize this occurring with the majority of joints occurring at the strapping.

You can also add a small section of strapping at the joint in increase joint strength. Remember to off-set joints and randomize colours as described in the layout section of this guide.

Tip: Use the factory cut ends for the overlapping panel at joints. If required, touch-up any exposed aluminum on the edges with touch-up paint.



Tip: Use the factory cut ends for the overlapping panel at joints. If required, touch-up any exposed aluminum on the edges with touch-up paint.



DOORS AND WINDOWS

- 1 Double check local codes for head flashing requirements.
- 2 Install J-Trim as shown starting with the trim at the sill location. Exposed edge should be flush with outside of vertical J-trim, add 19 mm (3/4") on each side. If sill flashing is installed, it should extend the outer plane of the siding and not be directed behind the ALUZION siding.
- 3 Cut vertical sections so that the top and bottom edges are flush with the exposed J-Trim. The top piece should be an additional 38 mm (1.5") so the ends are flush with vertical pieces.
- 4 Create the illustrated drip and connection tabs at corners insuring positive overlaps (i.e., higher pieces/tabs lap over the lower with tabs visible).
- 5 Where head flashing is required, the top J-Trim should be perforated to allow drainage of any incidental water to the exterior. Top J-Trim should be spaced at least 6 mm above the head flashing. Insect scree should be installed across the window head.
- 6 Cut siding to fit. Where the height is less than full height, a stand-off will be needed in combination with the J-Trim. Create a fold per Figure 5 the width of the cut section to keep the panel flat and straight. Alternatively, use a stand-off per Figure 4. (See page 17)
- 7 A 6 mm (1/4") space should be left between the edge of the siding and inside wall of all trim accessories.





INSIDE AND OUTSIDE CORNERS

- 1 ALUZION corner trims are designed for installation efficiency and are installed as you complete each elevation.
- 2 Once you've completed one side of the wall, install the required trim for the type of corner. ALUZION corner trims only require fastening on the unfinished side. On outside corners use a level and ensure trims are plumb and square to the corner.
- 3 Fasteners are to be spaced every 200 - 300 mm (8 -12 inches). Where siding is installed vertically, fasten into every row of strapping.
- 4 Where the length of the corner requires a joint in the trim, remove 20 mm (3/4") of the nailing hem to allow for a 9.5 mm (3/8") overlap (higher over the lower). Joint is shown here at lower section, but should always occur above the 12' section where a joint is required.
- 5 ALUZION panels should be inserted into trims leaving a 6 mm gap (deepest edge of panel to inside base of trim). Where used at the base of the wall, the J-Trim is to be perforated. In vertical applications where cut ends are inserted into the base J-Trim, insure panel is wiped clean before inserting.





VERTICAL TRANSITIONS

Vertical transitions are transition that happen within the plane of a wall and commonly at wall to gables. Where transitions are meant to be flat, careful planning is required where the installation is over furring as vertical installations required two layers of strapping to conform with most codes where an unobstructed drainage path is prescribed. In order for the horizontal siding to be flush with the vertical, a doubling up of furring or thicker dimensioned lumber will be required.

At wall to gable transitions and floor-lines where the cavity created by your selected furring configuration exceeds 25 mm, fire blocking may be required. Check with local authority having jurisdiction for location and acceptable materials.

USING ALUZION TRANSITION TRIM

- 1 Follow the same procedure as described for inside and outside corners, Finishing one side of the transition and then installing the transition trim straight and plumb.
- 2 Where transition involves a change in colour, use a trim colour matching the most dominant colour of siding used.
- 3 Transition trim should lap over the J-Trim and extend just below the bottom edge.
- 4 This transition as shown requires that the furring configurations for the vertical and horizontal sections be of equal depth. As such, the installer should determine what furring configuration(s) will best suit the project, while respecting local code requirements as applicable.

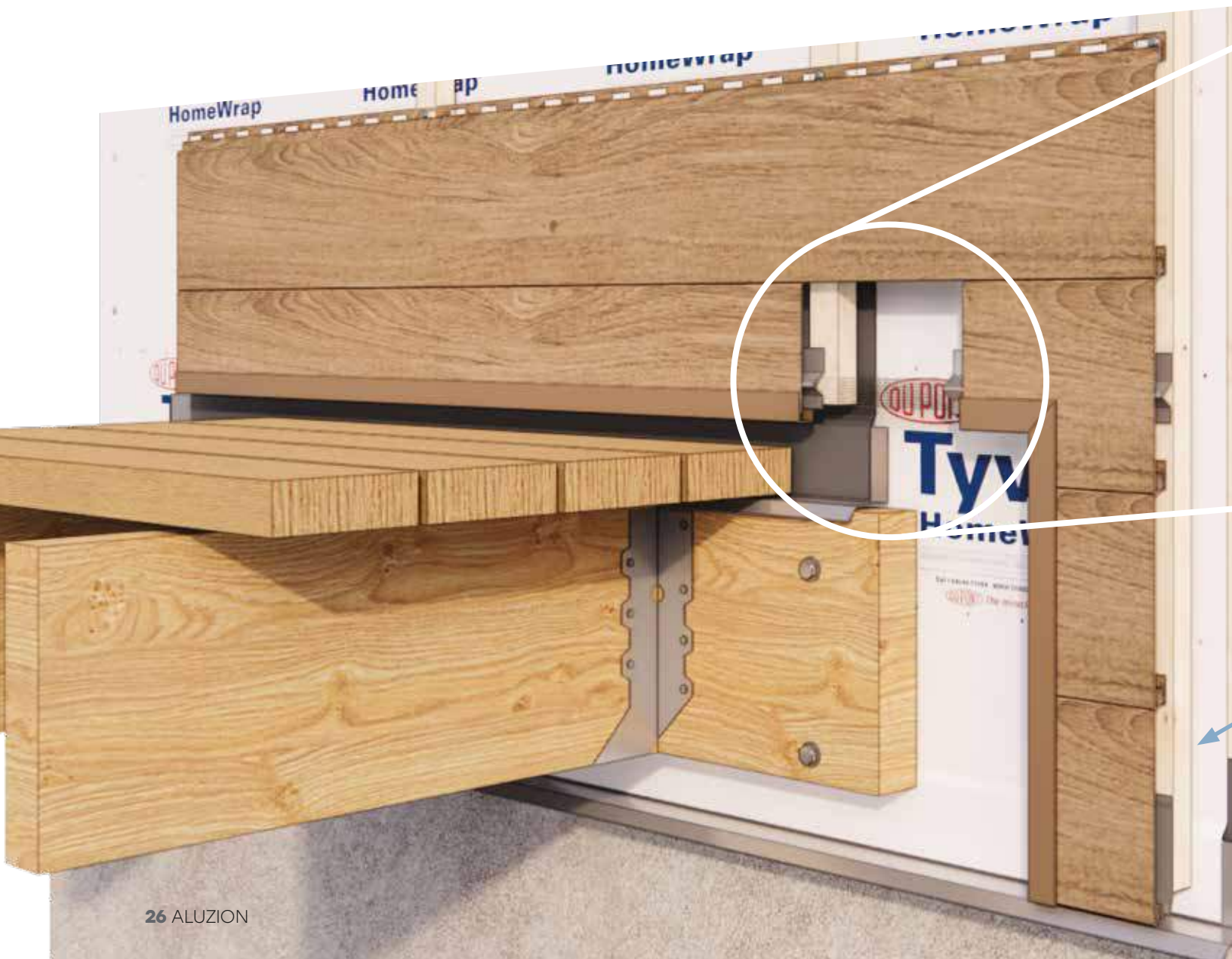




DECK PENETRATIONS

Deck penetrations require coordination between persons completing the deck, the siding installer and persons responsible for completion of the water resistive barrier. **This guide addresses the siding and is not providing instructions for deck connection, its construction or related code requirements which are the responsibility of others.**

Insure the secondary barrier is in place prior to installing the siding including behind the ledger board. If not present contact responsible party for correction.



INSECT SCREEN

TRANSITION MEMBRANE

STAND-OFF

LEDGER FLASHING



WRB OVER
BASE FLASHING

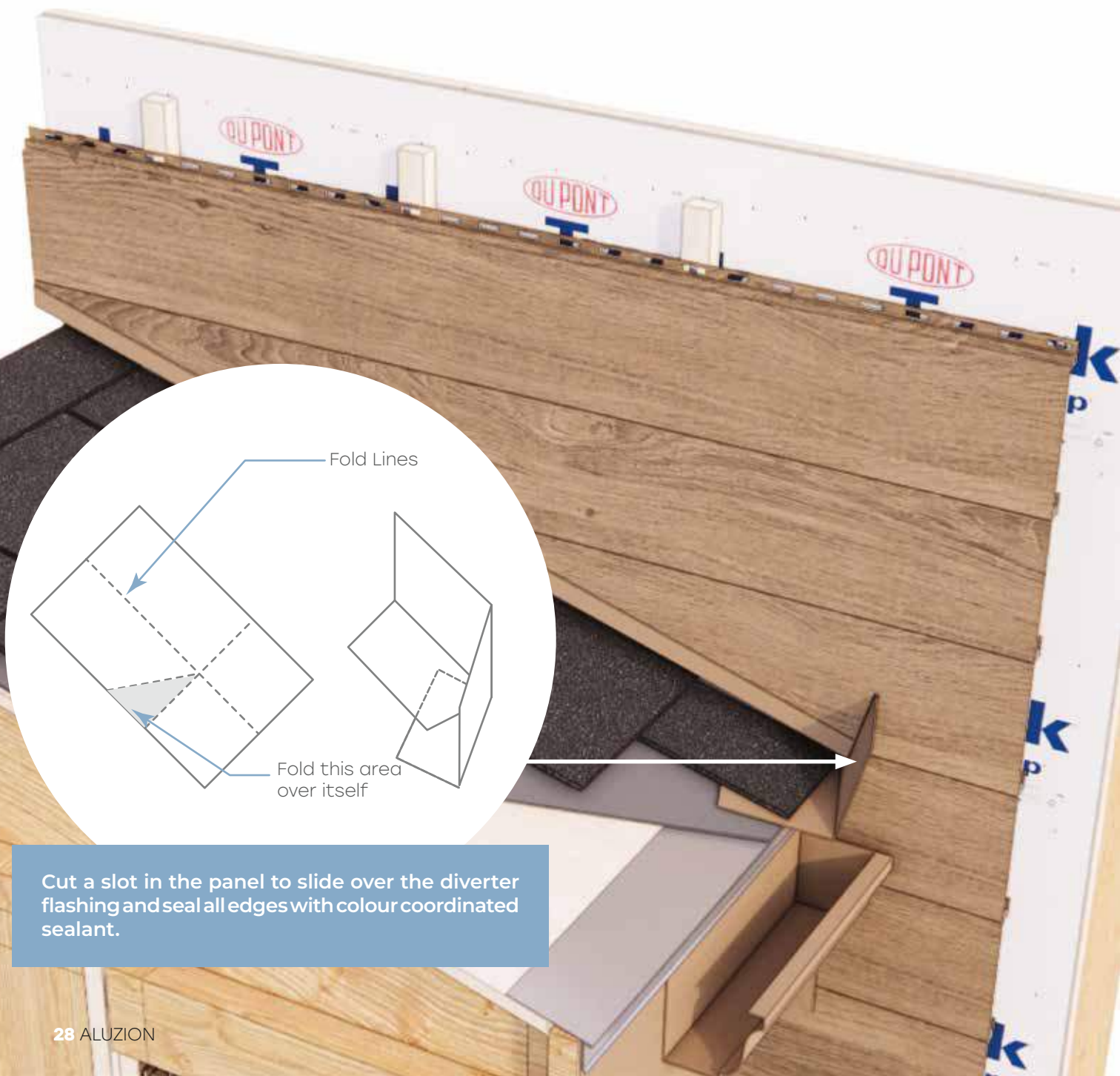
TRANSITION
MEMBRANE

Note: Components are exploded/spaced for clarity of placement and installation sequence. **Leave 6 mm (1/4") gap between panels and inside wall of all trim accessories.**

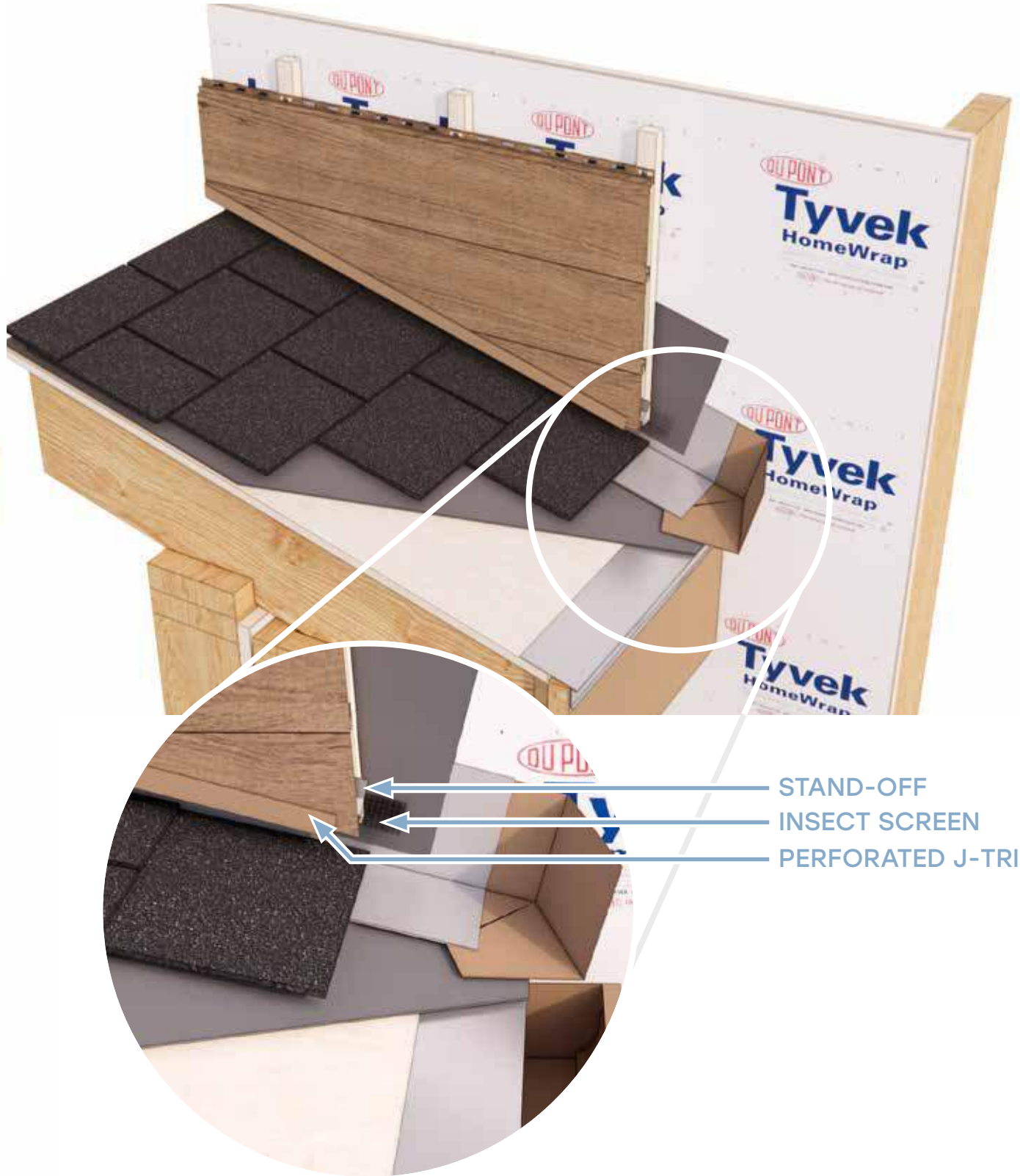
ROOF/WALL DIVERTER FLASHING

Diverter flashings are a critical component of a successful installation and should not be omitted for aesthetic concerns. Over time, they are generally not noticed.

These flashings can be purchased already fabricated or can be formed using colour coordinated trim coil in a few simple steps as shown below.



Cut a slot in the panel to slide over the diverter flashing and seal all edges with colour coordinated sealant.

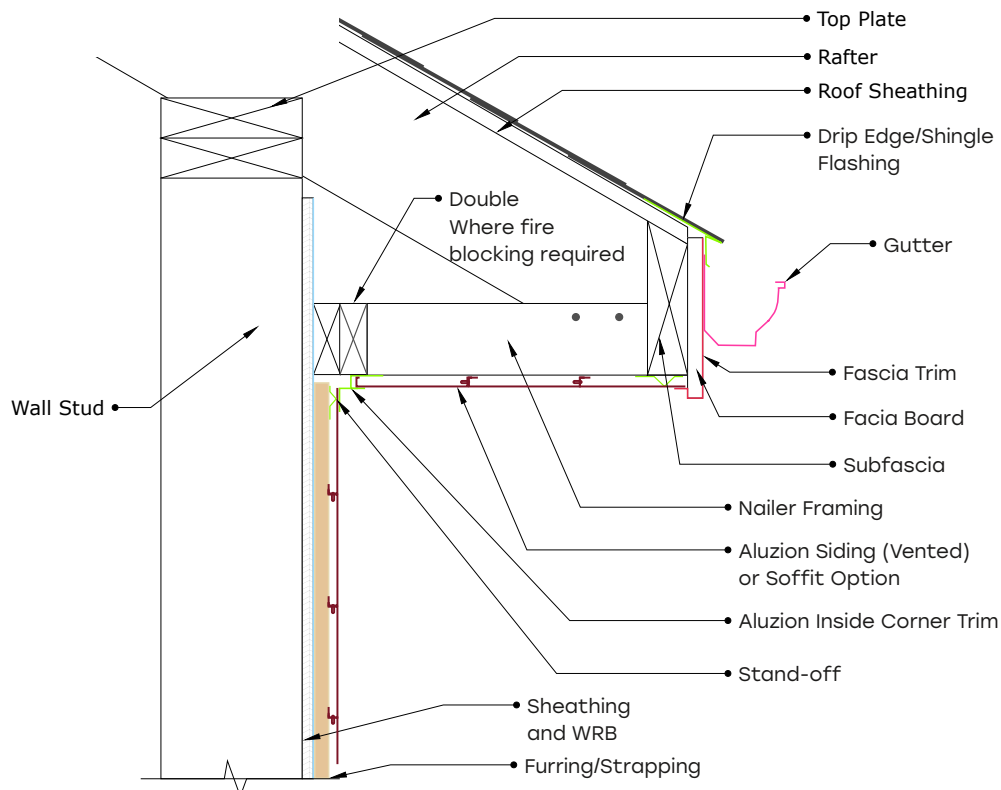


WALL AND SOFFIT INTERFACE

The orientation of the ALUZION panels, the height of the final/top row and the type of soffit being installed will influence how this intersection is to be handled. There are more combinations than can be illustrated/described here. Some key considerations:

- 1 Insure the top of the wall is closed to nesting insects such as wasps.
- 2 **You cannot fasten receiving J-Trim directly to the ALUZION siding without backing or a modified stand-off where J-Trim location is more than 12.7 mm (1/2") from the top of a panel.**
- 3 Applications on buildings or parts of buildings required to be of noncombustible construction may required integration of a fire break between the vented cladding and the soffit.
- 4 Traditional soffit profiles can be used and installed using J-Trim receiving channel fastened as shown in alternative options.
- 5 Where mechanical system, clothes dryers, bathrooms, etc. are exhausted through the soffit, unvented soffit should be used. Vented soffit should not be used within 1800 mm of vents exhausting moisture laden air.
- 6 Soffits are to provide for no less than 25% roof venting regardless of required vent area ratio. Typically 1/300 of insulated ceiling area. This should be distributed uniformly on opposite sides of the building. Where not using continuous vented soffit, coordinate with insulator for location of attic rafter vents.

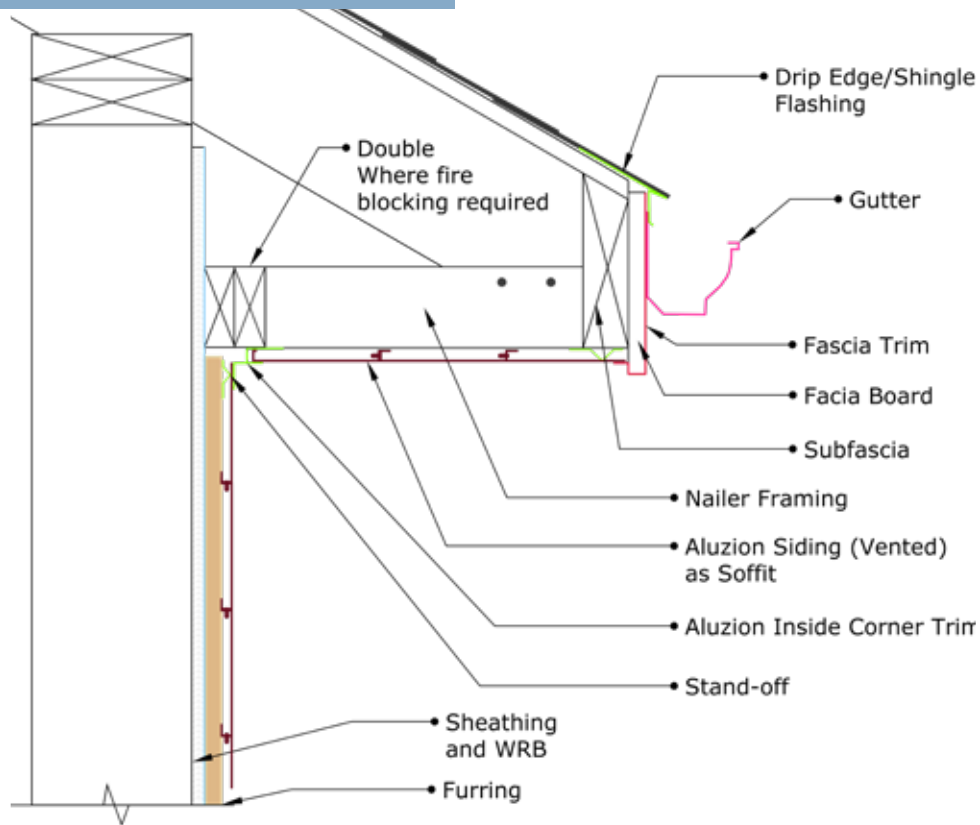
SOFFIT ANATOMY



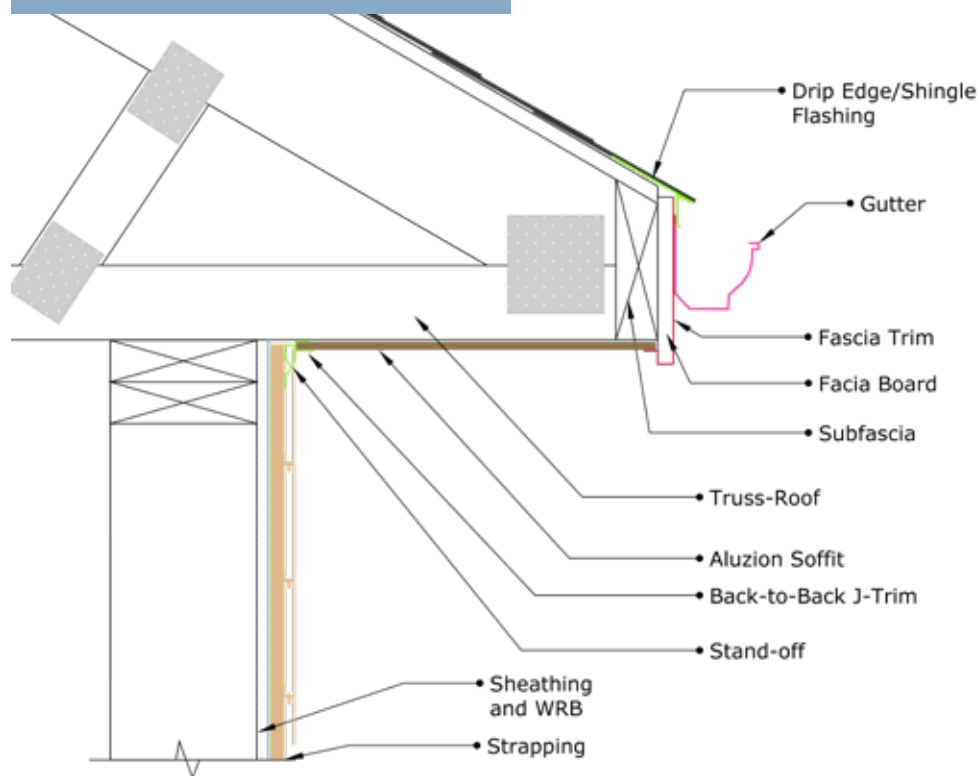


ALUZION Siding Panels are available vented for use in soffit applications, creating a stunning soffit detail. Complete the wall and use ALUZION Modern corner trim for efficient, attractive installation.

SECTION VIEW

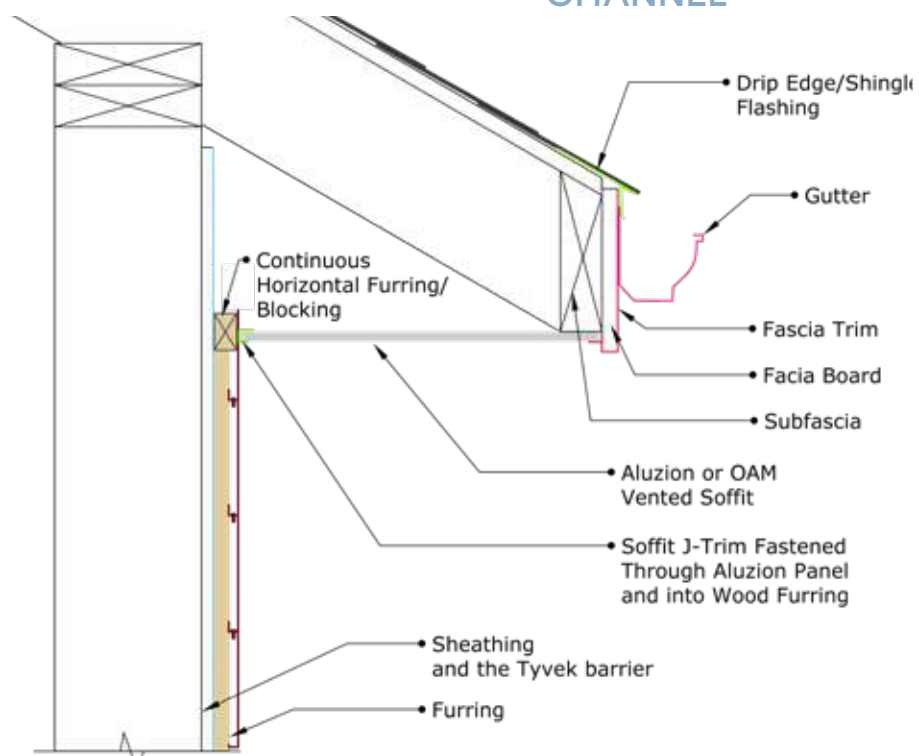


ALTERNATIVES



TRUSS ROOF

J-TRIM RECEIVING CHANNEL



WALL FURRING/ STRAPPING

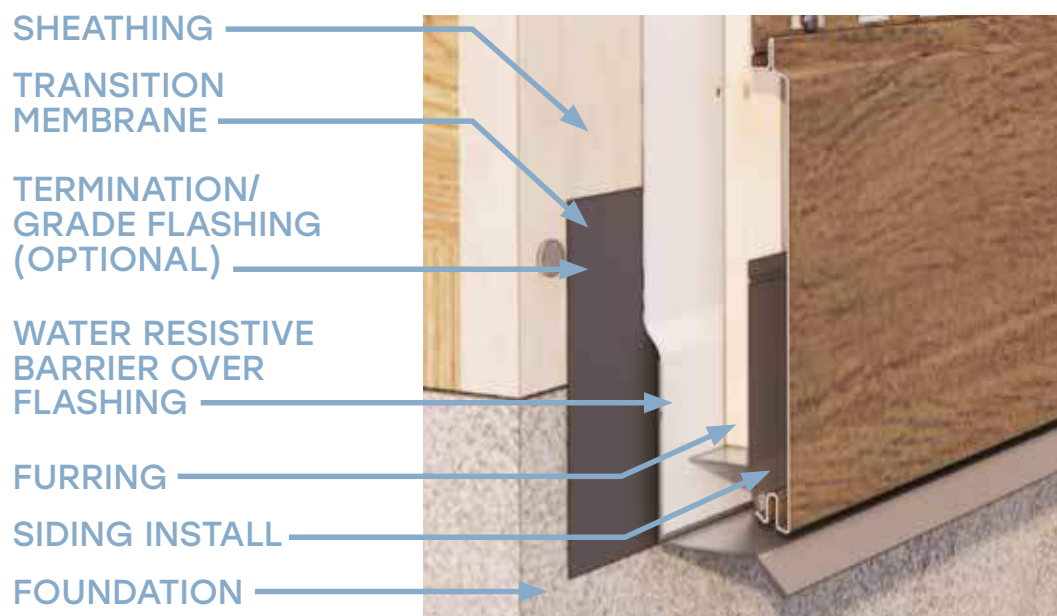
Furring (sometimes referred to as strapping) is required in some locations in Canada and the US. Regardless of location, it is considered good practice to install sidings over furring for improved moisture management. The depth of cavity varies between 10 mm and 20 mm depending on location and/or minimum furring requirements. The below is included for information purposes only. You should always refer to your local code for installation requirements for your area.

1 Furring should only be fastened to framing members. While some sheathings may be robust enough for nailing, the contractor should not determine suitability.

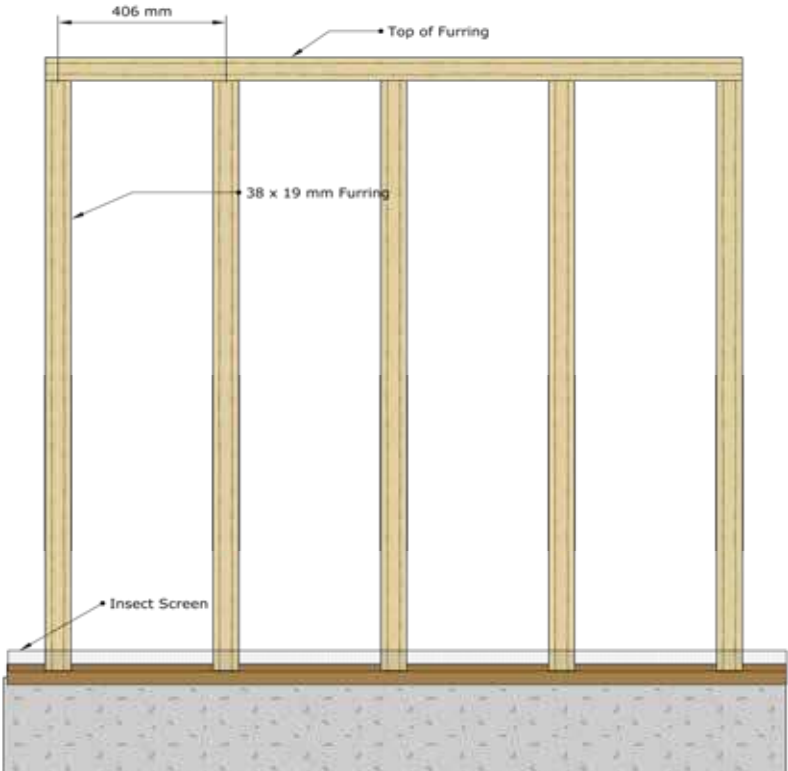
2 Furring strips/strapping is not to be pressure treated. Pressure treated woods should not come into contact with aluminum.

3 Where installing over exterior insulation, the insulation should be applied continuously over the secondary barrier material and strapping over top of the insulation. Nails should be long enough to maintain a min. 25 mm (1") penetration into framing. Flashings are still required to terminate at the outside face of the cladding.

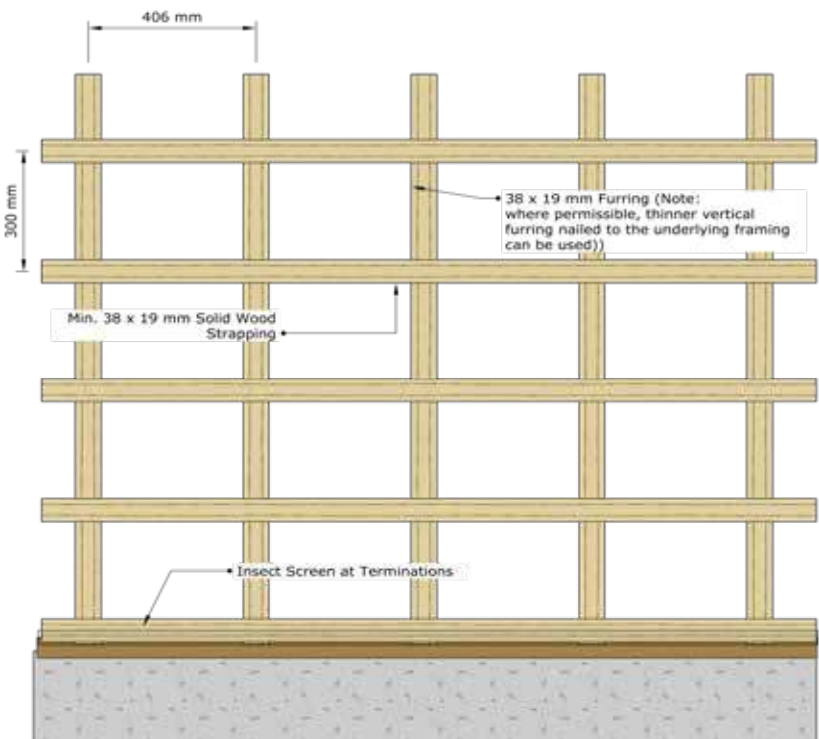
4 As integration of furring makes access to the secondary barrier challenging. Always confirm that the secondary barrier is complete (e.g., transition membranes, flashing, etc. are in place) before installing furring/strapping. See inset example below.



TYPICAL FURRING FOR HORIZONTAL SIDING APPLICATIONS



TYPICAL FURRING FOR VERTICAL SIDING APPLICATIONS



ALUZION 25 YEAR TRANSFERABLE WARRANTY



ALUZION siding comes with a fully transferable 25 year limited warranty.

To apply for a warranty, please visit: aluzion.ca/warranty
or write ALUZION Inc. for a copy of the warranty request form at:

ALUZION Inc.
4 rue du Moulin, Saint-André d'Argenteuil, QC, J0V 1X0

Attn: Warranty Services



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