



**Alura**  
**WOODGRAIN**

ARCHITECTURAL METAL PRODUCTS

# INSTALLATION GUIDE & BEST PRACTICES

PREFINISHED WOODGRAIN METAL  
PANELS



# ALURA PANEL INSTALLATION GUIDE & BEST PRACTICES

## INTRODUCTION

The following ALURA Panel Guide has been prepared and intended for persons with experience in the field of siding and soffit installation who have a fundamental knowledge of basic building practices.

The information provided in this document is offered in good faith and believed to be reliable, but is made without warranty, express or implied, as to merchantability or fitness for a particular purpose. Readers should review this document in conjunction with their design professional's advice, construction drawings, manufacturer's technical literature, building code, and fire code. ALURA Panel does not assume any responsibility for reader's compliance with applicable laws and regulations.

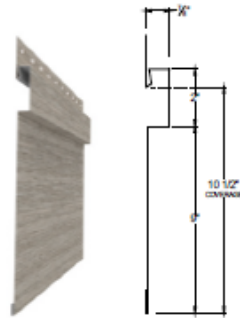
## PANEL FEATURES & CODE COMPLIANCE

ALURA Panel is a 24 gauge ASTM A792 55% Al-Zn Alloy Coated Steel that is prepainted in a PVDF high endurance paint. Unlike wood, it will never rot or support mold or mildew and is easy to clean and maintain.

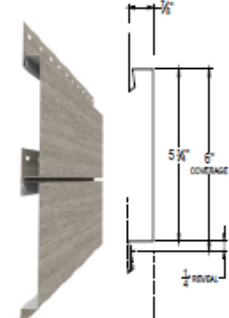
The applicable Building Code and Fire Code are determined based on the project site location as there can be various code changes per province, city and region. ALURA Panel cannot address all the various building codes. Project Designers, Builders, Architects and Engineers must understand the applicable code and install exterior cladding products within the guidelines of these codes.



# ALURA PANEL PROFILES



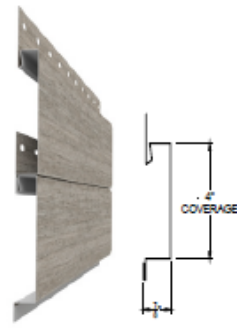
**BOARD & BATTEN (497)**



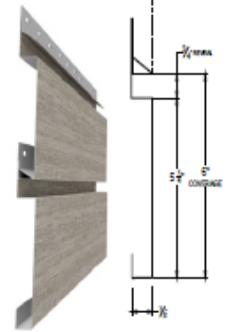
**SHIPLAP (498)**



**WIDE (499)**



**NARROW (500)**



**REVEAL (501)**

PART NO.	PROFILE	HEIGHT	FACE DIMENSION	TOTAL COVERAGE	SOFT. PER 10' LENGTH	10' PANEL (LBS)
497	Board & Batten	7/8"	-	10.5"	8.75	10.12
498	Shiplap	7/8"	5.75"	6"	5.00	5.78
499	Wide	7/8"	-	6.4"	5.33	6.16
500	Narrow	7/8"	-	4"	3.33	3.85
501	Reveal	7/8"	5.25"	6"	5.00	5.78

\* All profiles are 24 gauge material and come in 8', 10', and 12' lengths.

14440-123 Avenue  
Edmonton, AB Canada

1.780.448.8997  
info@imarkmetal.com

[imarkmetal.com](http://imarkmetal.com)

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## SAFETY CONSIDERATIONS

Always wear and use appropriate Personal Protective Equipment (PPE), taking all precautions to protect eyes during installation and cutting. Gloves are recommended as there are sharp corners and edges. When cutting or being exposed to airborne particles always wear an appropriate dust mask. Refer to the local OHS Code for further requirements and safety measures for jobsite siding installations.

## TRANSPORTATION

ALURA Panel securely packages and crates each order. In order to maintain integrity of the product precautions must be used when loading and unloading the product. When the products arrive immediately check for any crate or product damage. Do not install damaged products.

## STORAGE

Pre-painted building panels have been successfully used for many years. In general, properly installed building panels under normal service conditions have excellent corrosion resistance. However, pre-painted building panels are subject to premature corrosion failures prior to installation if they are not handled and stored properly on the job site. Excessive storage periods or poor storage conditions often result in water intrusion into panel bundles. Prolonged exposure of bundled panels to wet conditions can cause paint blistering and substrate corrosion. Wet Stack Corrosion in the right conditions can manifest itself in as little as 2 weeks, but typically after 4 weeks early stages of adhesion failure can be detected on panels.

The best prevention is to minimize the storage time. Under roof storage is always preferred. If panel bundles have to be stored outdoors, a number of precautions must be taken to prevent storage corrosion. Store panel crates sloped from end to end to allow any water to drain off. The panel bundles should be stored in an area out of the way of other construction activities to minimize the number of bundle movements required at the job site. If the bundles are stored on the ground, a plastic ground cover must be put down under the bundle to minimize condensation of water from the ground onto the panels. The bundles must then be raised off the plastic ground cover to avoid contact with water puddles, and allow for air circulation around the bundle to promote drying of condensed water. Wet, uncured or pretreated lumber should not come in contact with the panel bundles.



# INSTALLATION PROCEDURES

## OVERVIEW

ALURA panel steel cladding is designed to be installed vertically, horizontally and under overhangs as a soffit installation to interior or exterior surfaces. This installation guide is intended to assist with both vertical, horizontal and soffit applications.

ALURA panel is a premium metal cladding product with a high level of finish and engineering detail so it is recommended that ALURA panel be installed by an experienced professional who can reflect these qualities. Importantly, the overall quality of the final ALURA installation is dependent on the installer's experience, skill and attention to detail, so in order to ensure a beautiful and long-lasting finished product, professional installation is highly recommended.

## TOOLS REQUIRED

- Power drill
- Level
- Metal snips
- Power nibbler
- Tape measure
- Chalk line
- Skills saw, mitre saw or radial arm saw with ferrous blade

## CUTTING

A metal cutting blade such as Freud Diablo Steel Demon 48 tooth TCG Ferrous Metal Cutting Blade is recommended. \*NEVER use a grinder to cut. It will damage the material. If using a sliding compound miter saw the panel will cut better if the saw is pulled across the panel toward the operator and not down onto the panel.

## WALL PREPARATION

Alura Panel is designed to be installed as a rainscreen façade system. It is **not** a water tight system. All walls must be prepared with proper rainscreen and/or underlayment that meet local building codes to achieve the desired wall performance prior to installation of Alura Panel.

Before beginning, check the integrity of the substrate wall and make sure the surface is level and plum. Utilize shims or furring bar in metal (Z or Hat bar) or wood to minimize the risks of deformation of panels that can be caused by imperfections of level and plumness of the backup wall. Furring bar must be properly aligned and perpendicular to the sidings direction.

With exterior insulation applications, ensure rigid board insulation or mineral fibre insulation is attached to the wall according to manufacturer specifications.



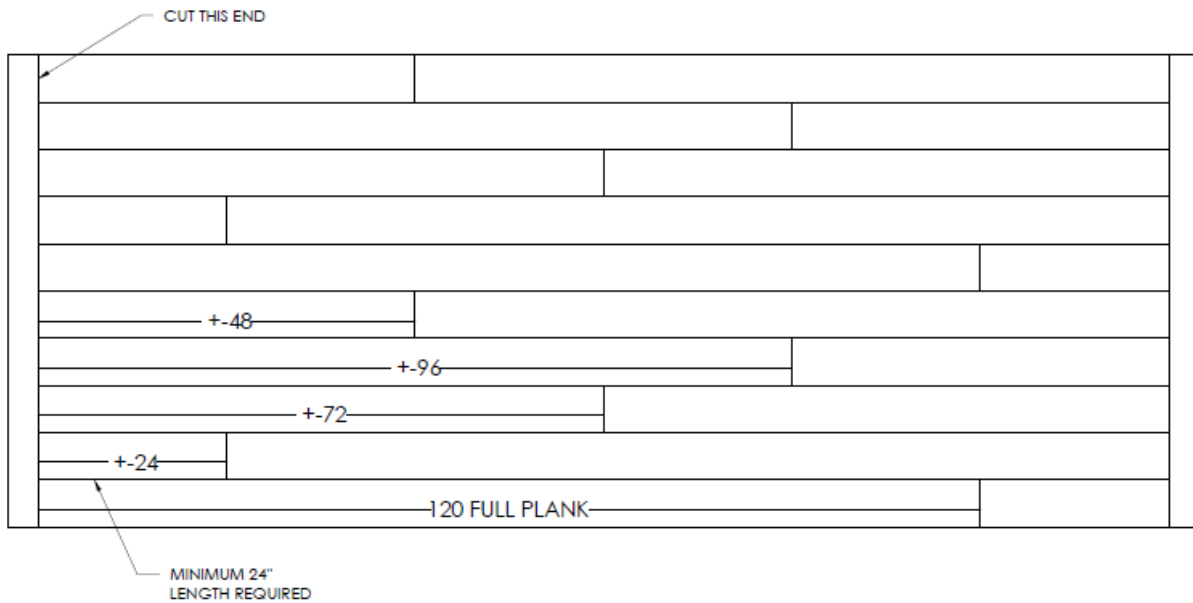
## Supported Substrates Systems

1. Direct - For installation on substrates including plywood, OSB or exterior grade gypsum board, apply Alura Panel directly overtop of substrate onto building wrap or air/vapor barrier membrane.
2. Rainscreen – For installation on substrates including exterior grade gypsum such as DensGlass, Alura Panel can be installed as a rainscreen system utilizing wood or metal furring (Z, Hat) over building paper or air/vapor barrier membrane.

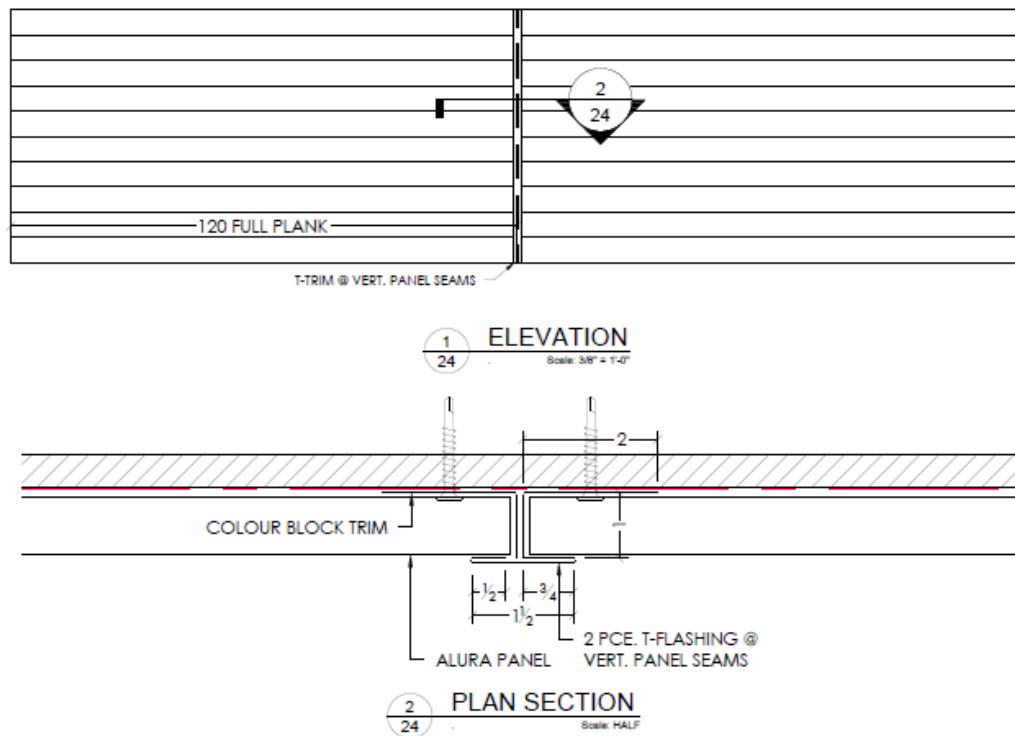
## WALL LAYOUT

### 1. Lapping Panel System

Alura Panel can be installed horizontally or vertically utilizing the built in panel lap connection. When using the lap connection system, it is advised to stagger the joints as per the detail below. The left side of panels should be cut to utilize the overlap joint feature on the right end of each panel.



## 2. T-Trim Joint Layout



## FASTENING

### Fastenening Interval

The following load table can be used as a guide for fastening intervals.

Click links below

- [6.4" Wide Alura](#)
- [4" Narrow Alura](#)
- [6" Ship Lap Alura](#)
- [5.25" Reveal Alura](#)

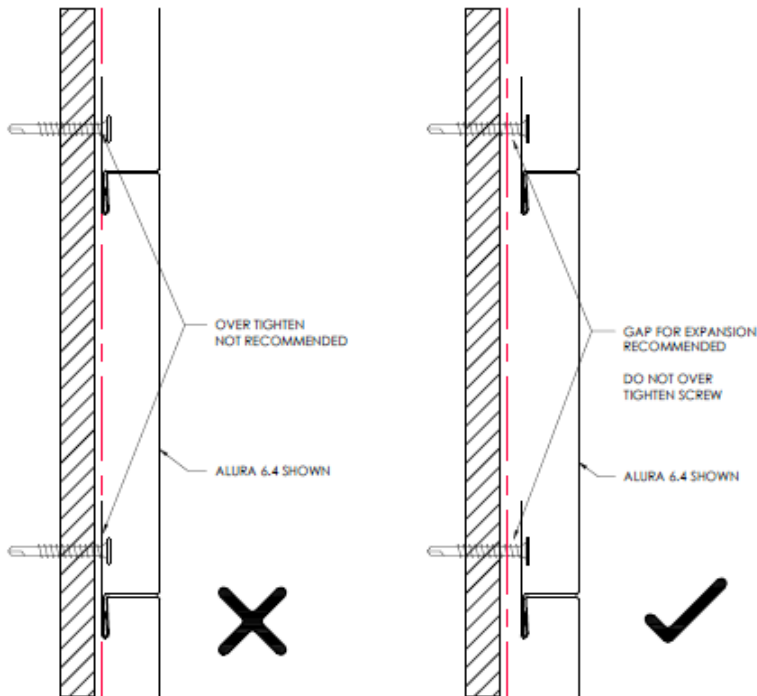


## Recommended Fasteners



## Fastening Tightness

The panel should be hung on the wall using recommended screws and should not be nailed. Do not overtighten fastener as panel should be able to float on the wall. A 1/16" - 1/8" gap between wall and panel should be achieved.

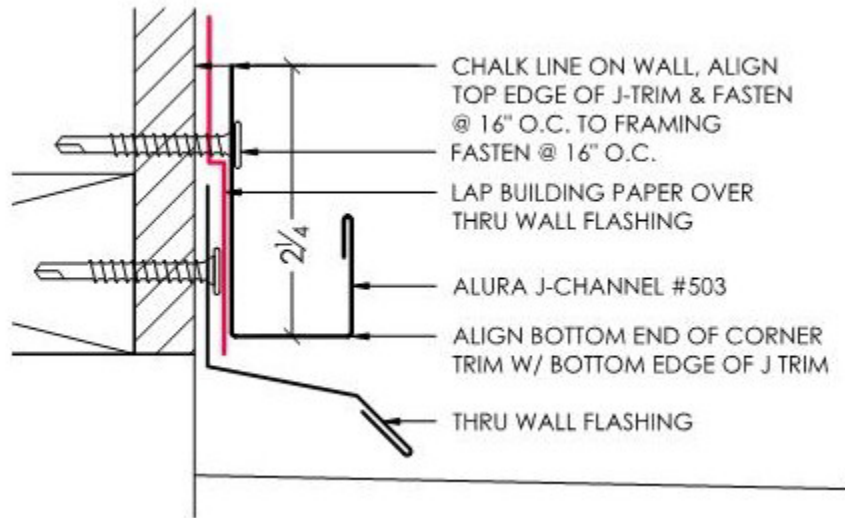


1. Use a level chalk line and pull a line along the bottom of the wall where your siding will start. Apply a Starter Trim (517) with its bottom edge being flush to the bottom of the wall or chalk line.

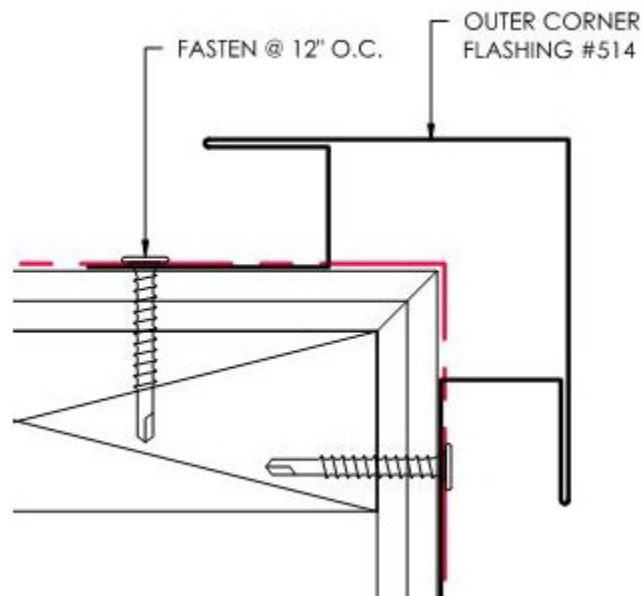




OPTION: When using a J-Trim (503) at the base, install the bottom of the J-Trim flush to the top of the chalk line, insert the J-Trim into the reveal cavity of the vertical corner trim. Drill weep holes  $\frac{1}{4}$ " in diameter at 2' on center for drainage when using a J-Trim.

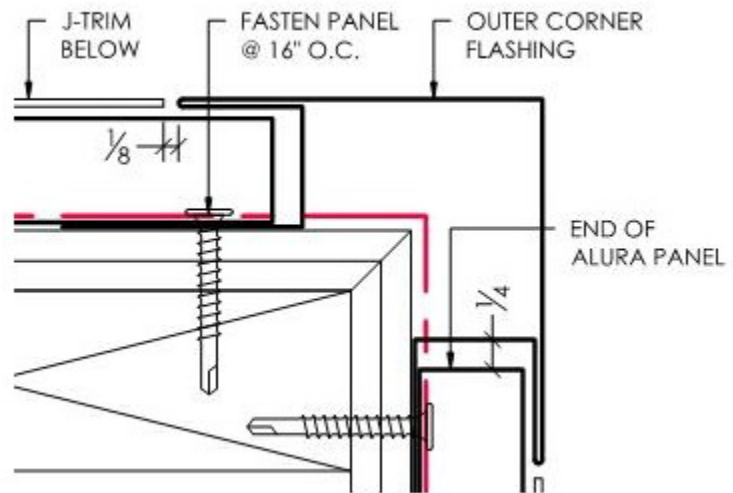
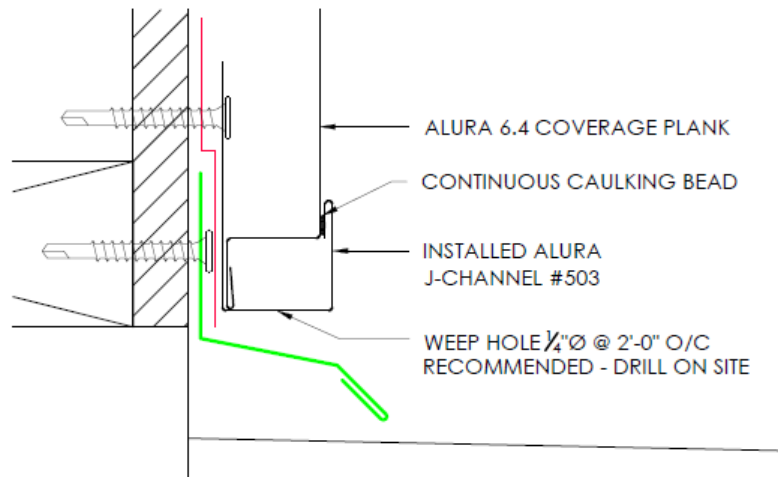


2. Install the inside/outside corners flush to the bottom chalk line. Keep a  $\frac{1}{8}$ " gap between any of the fastening flanges of the corner trims and the Starter Trim/J-Trim being used. The required cut length should allow  $\frac{1}{4}$ " gap at top of wall. Fasten the corners along the fastening leg at every 12".

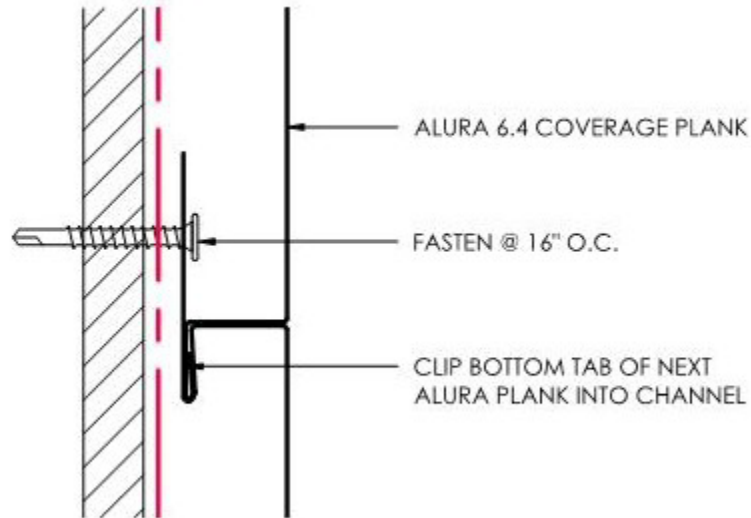


3. Lock the first panel into the chosen starter base. It is recommended to leave a  $\frac{1}{8}$ " space at the end of the panel that is within the reveal cavity of the trims.

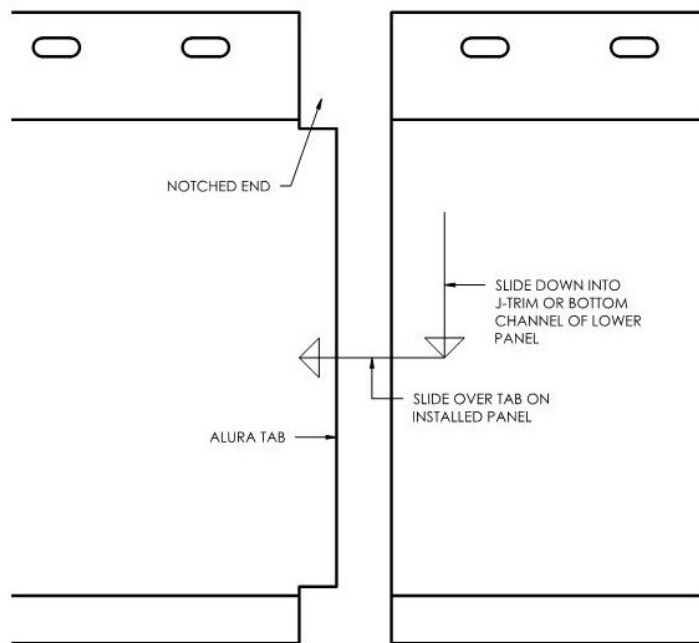


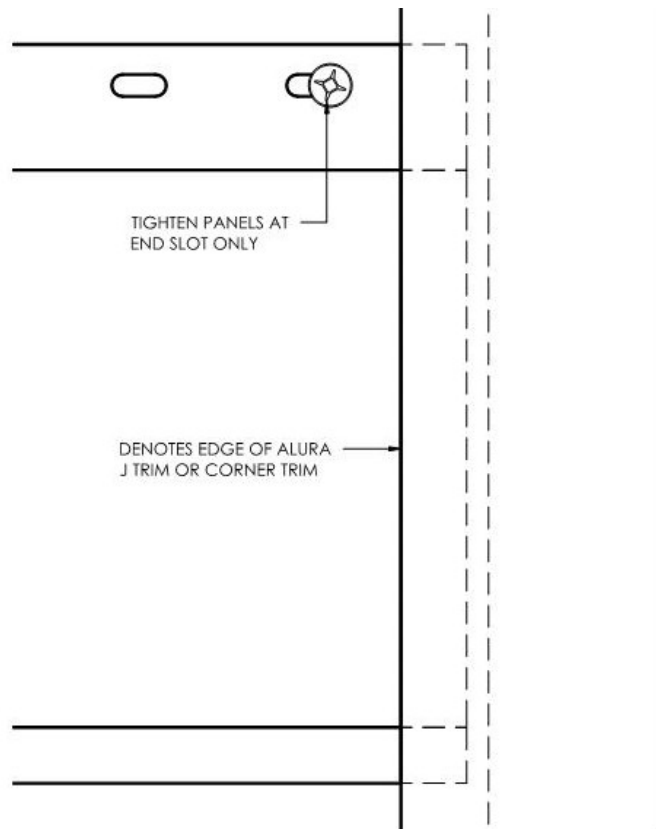
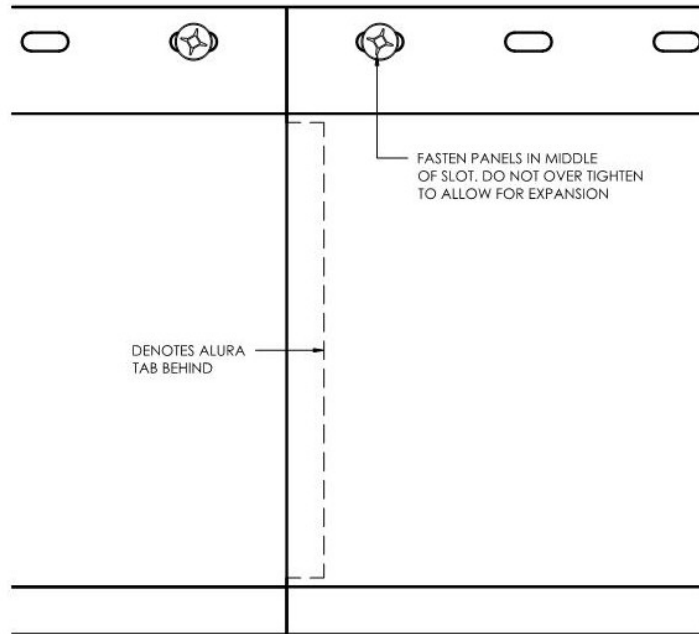


- Using the recommended screw fasteners, fasten both ends of the panel, in the centre of the provided slots. Continue fastening along the fastening track every 16" (max.). Do not overtighten fastener as panel should be able to float on the wall.

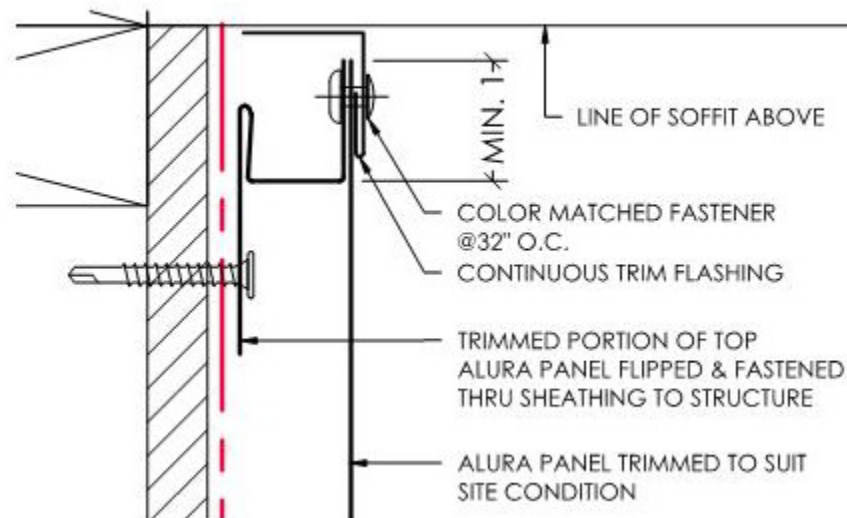


- Overlap the panels at the factory notch side (right). It is recommended that you leave a 1/16" to 1/8" gap at the overlap to accommodate panel movement from expansion/contraction of the wall.





6. Continue the installation by inserting the next panel's tongue snugly into the groove of the previous panel, ensuring that it is fully seated. Continue the run of Alura Panel until you reach the last piece, which may be trimmed to fit if necessary.
7. After applying your first row of panels, continue applying courses of panels, staggering them as you move up the wall, ensuring that the panel joints do not line up directly over each other when moving upwards (See recommended panel layout under Wall Preparation and Panel Layout).
8. When using the 6.4" or 4" Alura Panel, insert the bottom leg of the next panel into the installed panels. When using the 5-1/4" Reveal Alura Panel, insert the bottom leg of the next panel into the installed panel reveal and raise the panel upwards until the small return leg engages the top of the lock. 3/8" shims may assist in holding the Reveal panel in place during fixturing.
9. Install J channels at the top under the eaves or flashing as required. OPTION: Use a Top Wall Trim (515) for ease of final panel insertion after step 13.
10. The last course of Alura Panel generally needs to be cut along the length of the panel to fit the width of the space remaining. Measure from the last panel into inside edge of finishing trim, subtracting 1/16" from the measurement, then use measurement to cut panel through its full length. After cutting the panel, you will have the finished cut piece and the surplus off-cut.
11. Use the off-cut as an inside support for the trimmed panel. Install the off-cut piece into J-Trim at top of eave with the cut portion against the inside edge of the J-Trim piece and fasten using the fastening track on the off-cut.



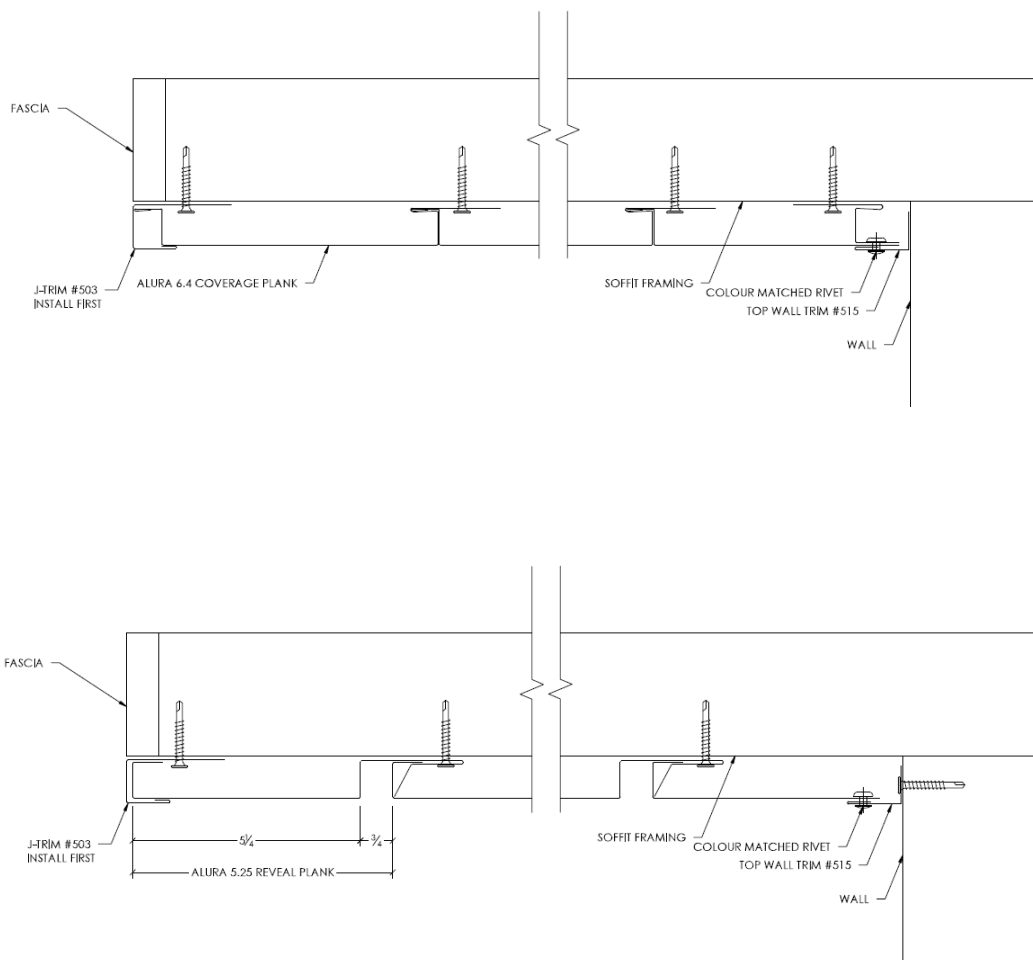
12. Begin the finished cut piece panel installation by fitting the panel into the J-Trim then pushing the bottom into the groove of the lower panel.



- Using the recommended fastener or pop rivet, fasten through the J-Trim and panel securing it into the offcut piece along the J-Trim face, approximately every 36".

## SPECIAL INSTALLATIONS – SOFFIT

Soffit installations should be fastened to the soffit supports at an ideal interval of 24" on center and no greater than 3' on center, or as per specifications from the project architect.



2 PLAN SECTION  
20 Scale: 3" = 1'-0"

