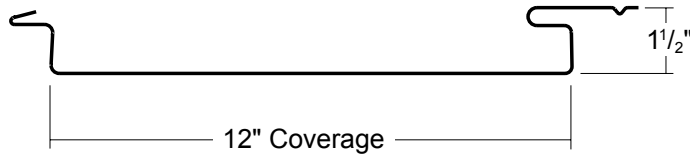


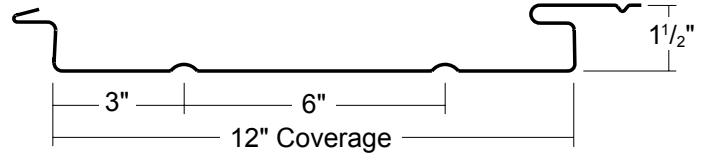
ALUMINUM TLC PANELS

Condensed
Technical
Reference

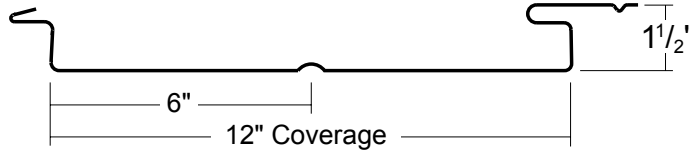
TLC-1 PANEL



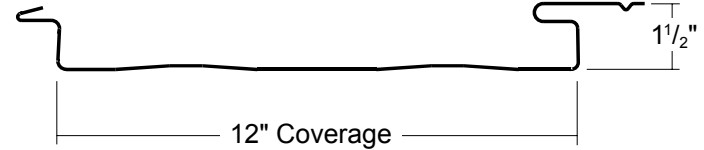
TLC-2 PANEL



TLC-3 PANEL



TLC-4 PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

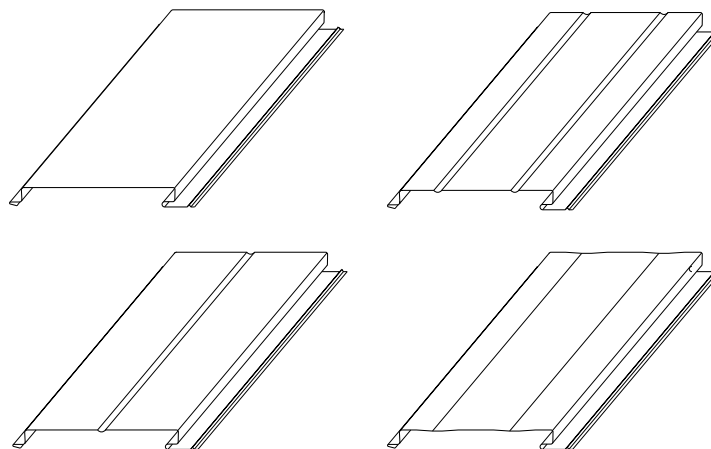
12"
COVERAGE

SOFFIT, FASCIA,
WALL OR LINER
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finish: PVDF
- ▶ Thickness: 0.032" standard
- ▶ Material: 3003-H14 Aluminum per ASTM B 209
- ▶ 12" panel coverage, 1 1/2" height
- ▶ Roll-formed panels
- ▶ Use on single skin or field-assembled wall system applications
- ▶ Concealed fastened system
- ▶ Panels can be installed Horizontal or Vertical and are interchangeable for accent effects



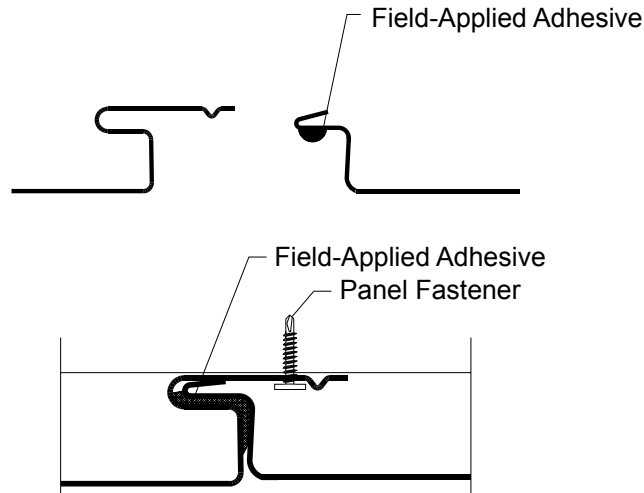
TESTING

- ▶ ASTM E 283, Air Leakage, 0.00 cfm/ft² at 6.24 psf
- ▶ ASTM E 331, Water Penetration, None at 12 psf
- ▶ ASTM E 330, Wall Load Test with SM7108 adhesive in joints
- ▶ ASTM E 1592, Wall Load Test with SM7108 adhesive in joints

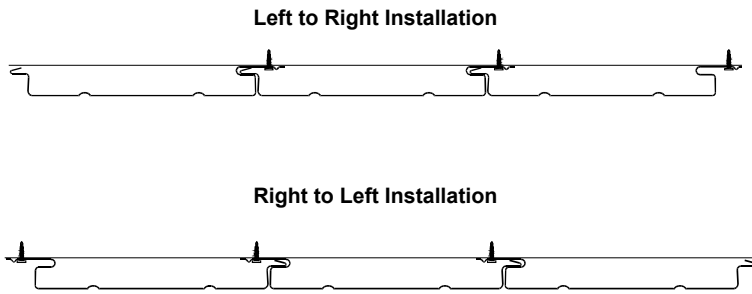
ALUMINUM TLC PANELS

Condensed
Technical
Reference

FASTENING PATTERN



DIRECTIONAL DETAILS



GENERAL INFORMATION

- ▶ **Length**
Available in 1" increments.
Minimum factory cut length is 5'-0".
Maximum recommended panel length is 40'-0".
Please inquire about longer panels.
- ▶ **Fasteners**
Overdriven fasteners will cause panel distortions.

Panel fasteners should extend 1/2" or more past the inside face of the support material.

Type 304 Stainless Steel fasteners are recommended for any fastener that penetrates Aluminum.

Type of fastener material is shown in parenthesis.

Panel Fasteners:
Attaching to Wood:
 #10-12 Pancake Head Wood Screw (Stainless Steel)
 #10-12 Pancake Head Wood Screw (Carbon Steel)

Attaching to Steel Framing (18 ga to 12 ga):
 #10-16 BiMetal Torx Head Driller (Stainless Steel)
 #10-16 Pancake Head Driller (Carbon Steel)

Trim Fasteners:
 1/8" x 3/16" Pop Rivets (Stainless Steel)
 #14-11 x 1" Stitch Screw (Stainless Steel)
 1/4"-14 x 7/8" Stitch Screw (Carbon Steel)

Field-Applied Adhesive:
 1/4" diameter bead of SM7108

SECTION PROPERTIES

Thick in	Width in	Yield ksi	Weight psf	I in ⁴ /ft	S _{Top} in ³ /ft	S _{Bottom} in ³ /ft
0.032	12	20	0.71	0.2370	0.5149	0.2086
0.040	12	20	0.88	0.2870	0.6310	0.2525

ALLOWABLE UNIFORM LOADS, psf (3 or More Equal Spans)

							Inward and Outward Load					
							2'	3'	4'	5'	6'	8'
							39	25	19	15	12	-
							70	61	52	43	34	16

- Theoretical section properties have been calculated per 2010 Aluminum Design Manual. I_{xx} and S_{xx} are section properties for deflection and bending.
- Allowable load is calculated in accordance with 2010 Aluminum Design Manual specifications considering bending, shear, combined bending and shear, deflection and uplift load testing per ASTM E 330 over 16 ga supports. For 0.040" panels, values at 2' and 8' are based on tested values. For 0.032" panels, values at 2' and 6' are based on tested values. Other values are determined by interpolation. Allowable loads do not address web crippling or fasteners / supports for other assemblies.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase in uplift.

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