



LISTING INFORMATION OF Alucoil - larsen® by Alucoil® PE 3 mm, 4 mm and 6 mm ACM

SPEC ID: 29075

Alucoil North America LLC
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larson® by Alucoil® PE 3 mm, 4 mm and 6 mm ACM consist of 0.5 mm aluminum skins on both sides with a proprietary, Polyethylene (PE) core with a total panel thickness of 3 mm, 4 mm or 6 mm

RATINGS

ASTM E84	FLAME SPREAD INDEX	SMOKE DEVELOPMENT INDEX
larson® by Alucoil® PE ACM	0	0

AC25 Sec. 4.5 ASTM D1781	Average Peel Torque > 22.5 in-lb/in
AC25 Sec. 4.6 ASTM D1781	Average Freeze-Thaw Peel Torque 33.0 in-lb/in

AC25 Sec. 4.1.4	ASTM E72	MCM Panels with 60 inch Adhered Stiffeners 24 in o.c. 60 inch Span w/ S.F. = 2 Strength
	POS.	NEG.
3 mm	33.75 PSF	37.65 PSF
4 mm	37.50 PSF	29.00 PSF
6 mm	45.00 PSF	37.50 PSF

AC25 Sec 4.1.5	ASTM E72 Serviceability	MCM Panels with 60 inch Adhered Stiffeners 24 in o.c. 60 inch Span
	POS. L/60	NEG. L/60
3 mm	30 PSF	40 PSF
4 mm	30 PSF	40 PSF
6 mm	40 PSF	50 PSF

AC25 Sec 4.3 Fastener Pull Through	Maximum Test Load
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larson® by Alucoil® PE ACM	Pull Through
1/8" Pop Rivet	305 lbf
#12 x 1" Self-Tapping Screw	425 lbf

AC25 Sec 4.3 Fastener Shear larson® by Alucoil® PE ACM	Maximum Test Load Shear
1/8" Pop Rivet	356 lbf
#12 x 1" Self-Tapping Screw	740 lbf

larson® by Alucoil® PE 3 mm, 4 mm, and 6 mm ACM panels have met the requirements of ASTM E331-09 (300 Pa pressure differential, 2 hour duration) using the following assembly details:

- 19 mm deep aluminum Z-bar fastened into the bottom of the wall using 45 mm long tapcon screws, and a panel starter extrusion fastened into the Z-bar to support the bottom of the larson® by Alucoil® ACM Panels using 19 mm pan head fasteners.
- 19 mm deep aluminum hat-bar fastened into the wall using 45 mm long tapcon, spaced to line up with the top of the larson® by Alucoil® ACM Panels.
- Support panel clips fastened into the top side of the larson® by Alucoil® FR 3mm ACM Panels using 19 mm pan head fasteners. This enables the larson® by Alucoil® ACM Panels to be fastened into the hat-bar.
- The larson® by Alucoil® ACM Panels are friction fitted into the panel starter extrusion and then the top of the panels fastened through the support panel clips into the hat-bar using two 19 mm pan head fasteners per support panel clip.
- A spline (same material as core) friction fitted into the sides of the larson® by Alucoil® ACM Panels through built-in metal channels, so that it fills both the horizontal and vertical joints.
- This process is followed to complete one row of panels. The second row above is friction fitted into the support panel clips and another hat-bar installed in line with the top of the larson® by Alucoil® ACM Panels.
- Windows openings are covered on the sides with aluminum flashing using 127 mm tapcon screws.
- The gap between flashing and window frames are filled with 5/8 in. backer rod, topped with Dow 795 sealant, and then tooled.

<u>Attribute</u>	<u>Value</u>
CSI Code	07 42 13 Metal Wall Panels
Listed or Inspected	LISTED
Report Number	100800917COQ001, 100757812MID-007a
Criteria	ASTM E72 (2005)
Criteria	ASTM E331 (2009)
Criteria	ASTM E84 (2012)

Criteria	ICC-ES AC25 (2010)
Intertek Services	Certification
Classification - Flame Spread Index	0
Classification - Smoke Developed Index	0
Listing Section	WALL ASSEMBLIES
Test Original Issue Date	July 23, 2012
Verification Testing	YES
Verification Test Type	FTIR