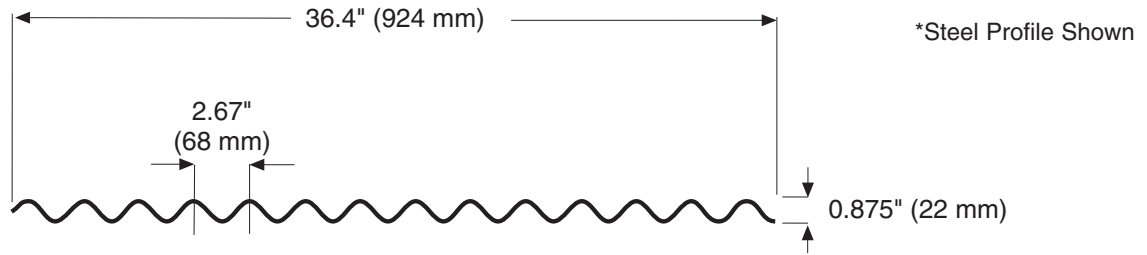


TECHNICAL DATA SHEET



FOR PRICING AND AVAILABILITY - CONTACT
 ALLSTATE INSULATION
 516-932-9170 888-881-4822 516-932-9171
 allstateinsulation@yahoo.com

7/8" Corrugated Roofing and Siding



Profile Dimensions

	Overall Width	Coverage Width	Rib Pitch	Profile Depth
Aluminum	48.333"	45.333"	2.667"	0.875"
Steel	36.38"	34.67"	2.667"	0.875"

Load Span Table

7/8" CORRUGATED	NO. SPANS	LOAD (PSF)								
		20	25	30	35	40	45	50	55	60
Siding Allowable Span										
.024" Aluminum	1	5'-1"	4'-8"	4'-5"	4'-2"	4'-0"	3'-11"	3'-8"	3'-7"	3'-6"
	2	6'-10"	6'-4"	5'-10"	5'-4"	5'-0"	4'-8"	4'-6"	4'-4"	4'-1"
.032" Aluminum	1	5'-7"	5'-2"	4'-11"	4'-7"	4'-5"	4'-4"	4'-1"	4'-0"	3'-11"
	2	7'-6"	7'-0"	6'-7"	6'-2"	5'-10"	5'-6"	5'-2"	5'-0"	4'-10"
.040" Aluminum	1	6'-0"	5'-7"	5'-4"	5'-0"	4'-10"	4'-7"	4'-5"	4'-4"	4'-2"
	2	8'-1"	7'-6"	7'-0"	6'-8"	6'-5"	6'-1"	5'-10"	5'-7"	5'-4"
.050" Aluminum	1	6'-6"	6'-0"	5'-8"	5'-5"	5'-2"	4'-11"	4'-9"	4'-8"	4'-6"
	2	8'-9"	8'-1"	7'-7"	7'-3"	6'-10"	6'-8"	6'-5"	6'-3"	6'-0"
24 GA. Steel	1	5'-1"	4'-9"	4'-6"	4'-3"	4'-1"	3'-11"	3'-9"	3'-7"	3'-6"
	2	6'-7"	6'-4"	6'-0"	5'-8"	5'-4"	5'-2"	5'-0"	4'-8"	4'-6"
22 GA. Steel	1	5'-6"	5'-1"	4'-9"	4'-7"	4'-4"	4'-2"	4'-1"	3'-11"	3'-9"
	2	7'-5"	6'-10"	6'-6"	6'-1"	5'-8"	5'-5"	5'-4"	5'-3"	5'-1"
20 GA. Steel	1	5'-10"	5'-5"	5'-0"	4'-9"	4'-7"	4'-6"	4'-4"	4'-2"	4'-0"
	2	7'-8"	7'-3"	6'-10"	6'-6"	6'-2"	6'-0"	5'-9"	5'-7"	5'-5"
18 GA. Steel	1	6'-4"	5'-10"	5'-6"	5'-3"	5'-0"	4'-10"	4'-8"	4'-6"	4'-5"
	2	8'-6"	7'-10"	7'-5"	7'-0"	6'-9"	6'-6"	6'-3"	6'-0"	5'-10"

Roofing Allowable Span

.024" Aluminum	2	6'-1"	5'-6"	5'-0"	4'-7"	4'-4"	4'-1"	3'-11"	3'-8"	3'-6"
.032" Aluminum	2	7'-2"	6'-5"	5'-10"	5'-5"	5'-1"	4'-10"	4'-6"	4'-4"	4'-1"
.040" Aluminum	2	8'-0"	7'-1"	6'-6"	6'-0"	5'-7"	5'-4"	5'-0"	4'-10"	4'-7"
.050" Aluminum	2	8'-9"	8'-1"	7'-4"	6'-10"	6'-5"	6'-0"	5'-8"	5'-5"	5'-3"
24 GA. Steel	2	6'-8"	6'-1"	5'-7"	5'-1"	4'-10"	4'-7"	4'-4"	4'-1"	3'-10"
22 GA. Steel	2	7'-5"	6'-10"	6'-1"	5'-7"	5'-4"	5'-1"	4'-8"	4'-6"	4'-4"
20 GA. Steel	2	7'-11"	7'-5"	6'-8"	6'-5"	5'-11"	5'-7"	5'-2"	5'-0"	4'-8"

NOTES:

1. Allowable deflection for aluminum is L/60.
2. Allowable deflection for steel is L/180.
3. Allowable spans for roofing are based on live load.

TECHNICAL DATA SHEET

7/8" Corrugated Roofing and Siding



Material Specifications

Aluminum

Alloy 3004 in compliance with the Aluminum Association Composition Specifications and conforming to ASTM B209-96 is standard. Alloy 3004 Alclad (Alloy 7072 cladding is used) is also available. Available smooth or stucco embossed.

Steel

Grade 33 structural quality conforming to ASTM A653, galvanized to ASTM A924, G90 Class is standard. Available smooth or stucco embossed.

Engineering Properties

Aluminum	I ± (in ⁴ /ft)	S ± (in ³ /ft)	Lbs/Sq Painted	Steel	I ± (in ⁴ /ft)	S ± (in ³ /ft)	Lbs/Sq Painted
.032"	0.0392	0.0895	53.7	24 ga	0.0306	0.0700	123.0
.040"	0.0484	0.1096	67.5	22 ga	0.0384	0.0878	151.7
.050"	0.0616	0.1380	83.9	20 ga	0.0461	0.1058	180.4
				18 ga	0.0576	0.1316	240.0

Tolerances

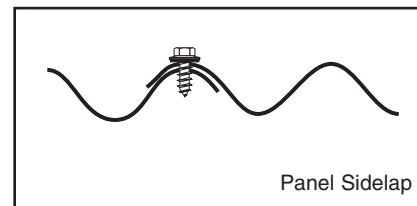
- Standard Lengths: 5'0" to 40'0"
Length Tolerance: +1/2" - 0
- Overall Width: ± 1/4"
- Coverage Width: ± 5/32"
- Squareness:

<u>Length</u>	<u>Squareness Tolerance</u>
0" - 20'0"	3/16"
20'1" - 26'8"	5/16"
26'9" - 40'0"	3/8"

Installation & Fastening Guidelines

- Minimum recommended roof slope: 3:12
- Minimum end laps:
 - Siding: 4"
 - Roofing 3:12 or greater slope: 6"
 - Roofing 2:12 to 3:12 slope: 9"
(requires sealant at side and end laps)
- Fastening Patterns for 20psf loading*:

Panel field:	8" o. c.
Panel end laps:	8" o. c.
Panel sidelaps:	16" o. c.



It is recommended that when 7/8" Corrugated is used in a roofing application, attachment screw fasteners should be applied in the rib crowns.

* Consult Alcoa for attachment guidelines for greater load conditions.

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