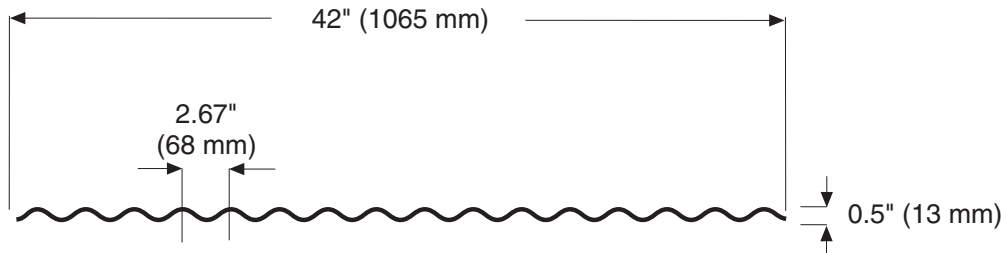


TECHNICAL DATA SHEET



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1/2" Corrugated Roofing and Siding



*Steel Profile Shown

Profile Dimensions

	Overall Width	Coverage Width	Rib Pitch	Profile Depth
Aluminum	51.33"	48"	2.67"	0.5"
Steel	42"	40.25"	2.67"	0.5"

Load Span Table

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

NOTES:

1. Allowable deflection for aluminum is L/60.
2. Steel siding spans are based on stress governing with no deflection limit.
3. Roof spans are based on live load with stress governing. Actual deflection may exceed L/180 for steel and L/60 for aluminum.

TECHNICAL DATA SHEET

1/2" 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"	0.0091	0.0364	47.1	24 ga	0.0089	0.0354	106.6
.040"	0.0112	0.0444	59.4	22 ga	0.0111	0.0444	131.5
.050"	0.0143	0.0553	73.8	20 ga	0.0133	0.0536	156.6
				18 ga	0.0138	0.0532	208.2

Tolerances

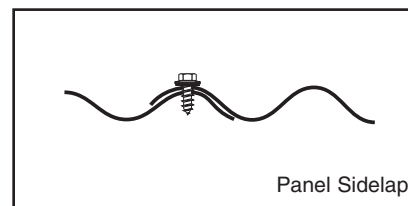
- Standard Lengths: 5'0" to 40'0"
Length Tolerance: +1/2" - 0
- Overall Width: ± 1/4"
- Coverage Width: ± 5/32"
- Squareness:

<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 2-1/2" x 1/2" 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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