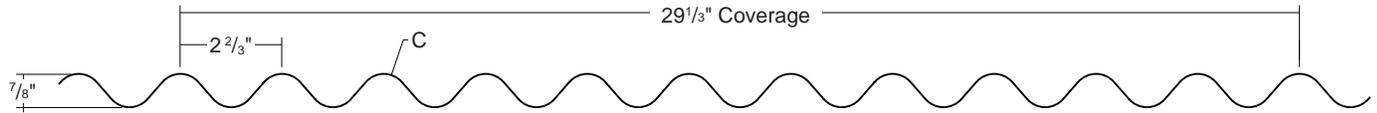


7/8" CORRUGATED

CONDENSED
TECHNICAL
REFERENCE

ROOF PANEL

PRODUCING BRANCH - LONGMONT, CO



COMMERCIAL
RESIDENTIAL
PANEL

DIRECT
FASTEN

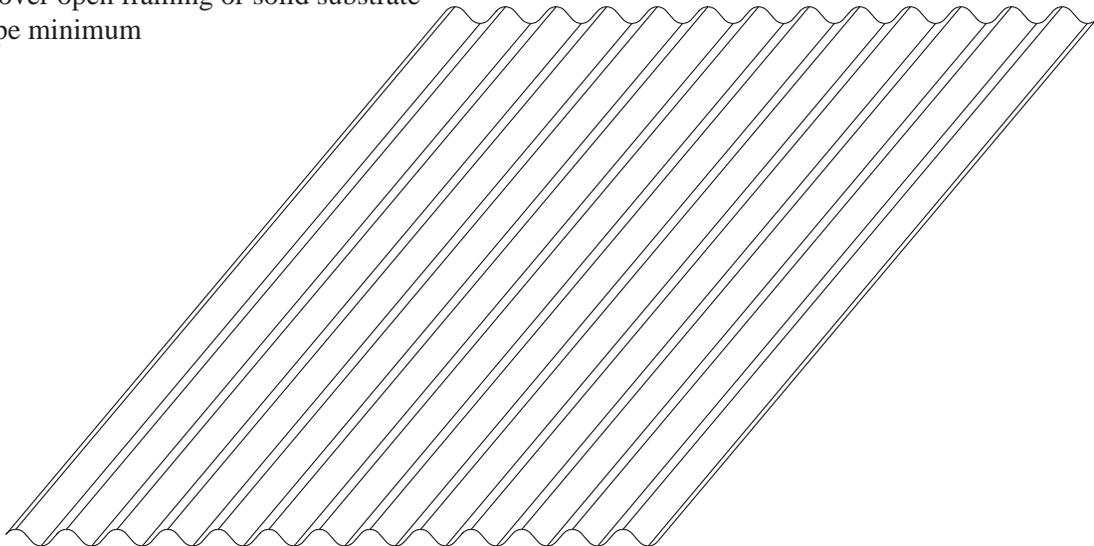
29 1/3"
COVERAGE

MINIMUM
1:12 SLOPE

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Bare galvanized, MS Colorfast45®, PVDF, Weathering Steel, and Acrylic Coated Galvalume®
- ▶ Gauges: 26, 24, and 20
- ▶ 32" panel coverage, 7/8" rib height
- ▶ Applies over open framing or solid substrate
- ▶ 1:12 slope minimum



TESTING

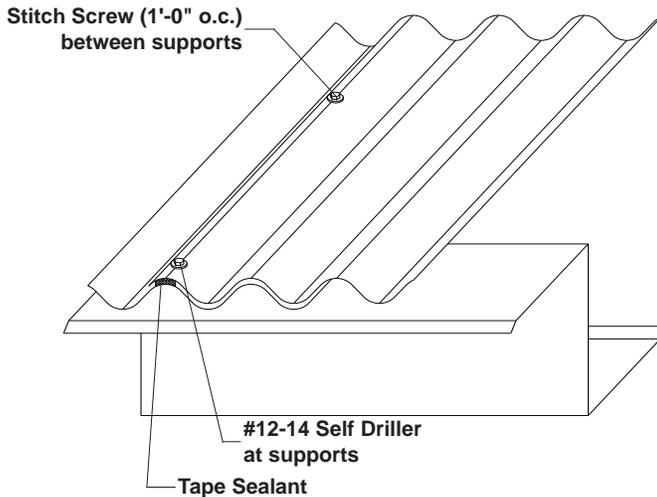
- ▶ UL 2218 Class 4 Impact Rating
- ▶ UL 790 Class A Fire resistance rating
- ▶ ASTM E 1592 Roof Uplift
- ▶ UL 580 Class 90 Wind Uplift, Construction number 649
- ▶ ASTM E 1646 Water Infiltration
- ▶ ASTM E 1680 Air Infiltration
- ▶ ASTM E 283 Air Infiltration
- ▶ ASTM E 331 Water Infiltration

ms metal sales
manufacturing corporation

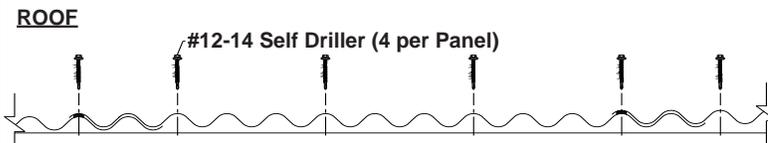
7/8" CORRUGATED

CONDENSED TECHNICAL REFERENCE

ROOF ATTACHMENT



FASTENING PATTERN



GENERAL INFORMATION

- ▶ **Slope**
The minimum recommended slope for 7/8" Corrugated roofing panel is 1:12.
- ▶ **Substructure**
7/8" Corrugated panel is designed to be utilized over open structural framing but can easily be used with a solid substrate. To avoid panel distortion use a properly aligned and uniform substructure.
- ▶ **Coverage**
7/8" Corrugated panel has a coverage width of 29¹/₃"
- ▶ **Length**
Minimum factory cut length is 3'-0". Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.
- ▶ **Fastener**
The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements
NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.
- ▶ **Availability**
Finishes: Bare galvanized, MS Colorfast45[®], PVDF, Weathering Steel, and Acrylic Coated Galvalume[®]
Gauges: 26ga, 24ga, 22ga, and 20ga

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward Load						Outward Load					
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	29.33"	80	1.02	0.0278	0.0624	0.0278	0.0624	418	272	170	107	72	37	418	272	170	107	72	37
24	29.33"	50	1.33	0.0338	0.0801	0.0338	0.0801	156	143	131	113	99	80	156	143	131	113	99	80
22	29.33"	50	1.73	0.0450	0.1029	0.0450	0.1029	574	373	262	173	116	59	574	373	262	173	116	59
20	29.33"	33	2.11	0.0525	0.1234	0.0525	0.1234	454	295	207	153	117	69	454	295	207	153	117	69

1. Section properties and allowable loads are calculated per AISI 2001 including 2004 Supplement.
2. Ixx and Sxx are effective section properties for deflection and bending
3. Allowable loads/spans are calculated considering bending, shear, combined bending and shear and deflection.
4. Allowable loads/spans calculations do not include consideration for web crippling, fastener / connection limitations or uplift testing.
5. Allowable loads/spans do not include a 1/3 stress increase.
6. Allowable loads for 24ga on 16ga pulins are based on ASTM E1592 test results.

metal sales
manufacturing corporation



Kent, WA 800.431.3470
Temple, TX 800.543.4415
Longmont, CO 800.289.7663
Antioch, TN 800.251.8508
Woodland, CA 800.759.6019
Rogers, MN 800.3289316
Spokane, WA 800.572.6565

Jefferson, OH 800.321.5833
Rock Island, IL 800.747.1206
Sellersburg, IN 800.999.7777
Jacksonville, FL 800.394.4419
Orwigsburg, PA 800.544.2577
Independence, MO 800.747.0012
Fontana, CA 800.782.7953

Anchorage, AK 866.640.7663
Bay City, MI 888.777.7640
Detroit Lakes, MN 888.594.1394
Mocksville, NC 800.228.6119
Fort Smith, AR 877.452.3915

www.metalsales.us.com