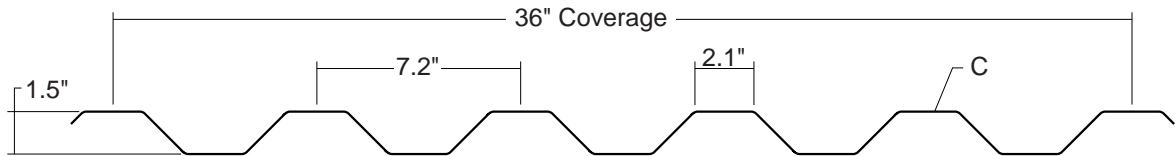


IC72-PANEL ROOF

CONDENSED
TECHNICAL
REFERENCE

ROOF PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT
FASTEN

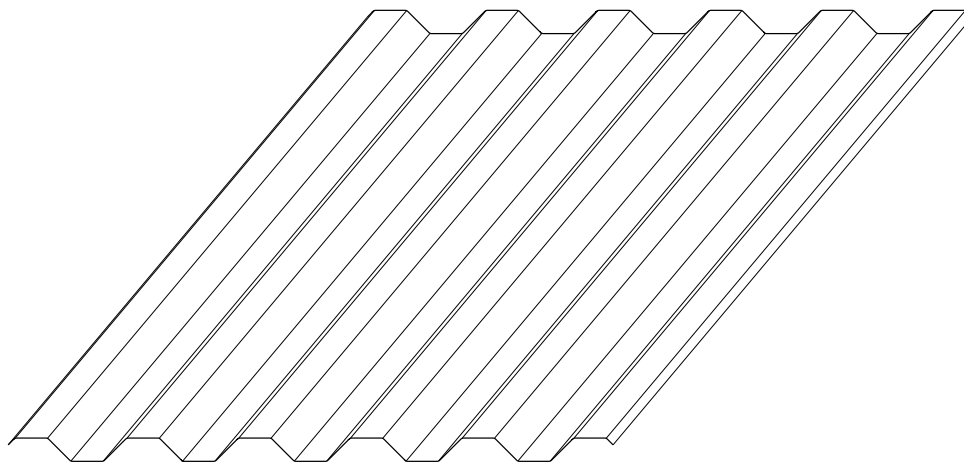
36"
COVERAGE

MINIMUM
SLOPE
1:12

SOLID SUBSTRATE
OR OPEN FRAMING

PANEL OVERVIEW

- ▶ Finishes: Kynar 500 (PVDF) and Acrylic Coated Galvalume®
- ▶ Gauges: 24ga standard, 22ga and 20ga optional
- ▶ 36" panel coverage, 1½" rib height
- ▶ Applies over open framing or solid substrate
- ▶ Exposed fastened metal building panel
- ▶ Trapezoidal ribs on 7.2" centers
- ▶ Minimum roof slope: 1:12



TESTING

- ▶ UL-580 Class 90
- ▶ UL-790 Class A
- ▶ UL-2218 Class 4

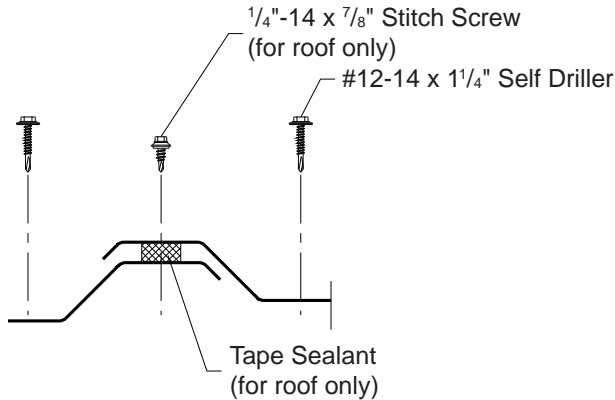
metal sales
manufacturing corporation



IC72-PANEL ROOF

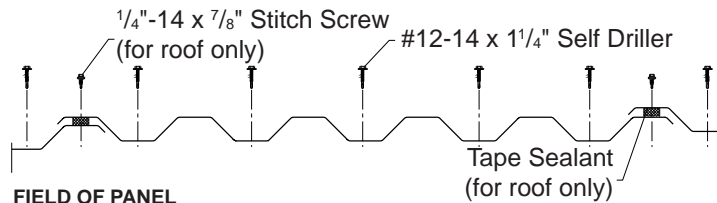
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

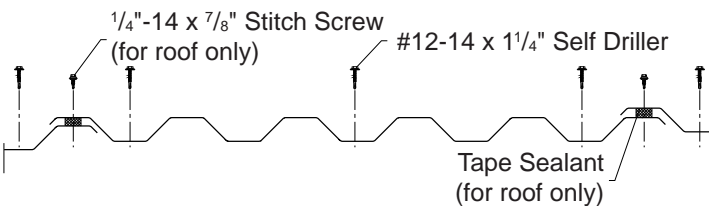


FASTENING PATTERNS

ENDS OF PANEL



FIELD OF PANEL



GENERAL INFORMATION

► Slope

The minimum recommended slope for IC72-Panel is 1:12. Metal Sales recommends that in all roof applications sealants be used on all sidelaps with stitch screw 1'-0" on center.

► Substructure

IC72-Panel is designed to be utilized over open structural framing or a solid substrate. To avoid panel distortion use a properly aligned and uniform substructure.

► Coverage

IC72-Panel is available in a 1 1/2" rib height with a 36" width coverage.

► Length

Minimum factory cut length is 5'-0". Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

► Fasteners

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: Acrylic Coated Galvalume® or various Kynar 500 (PVDF) colors.

Gauges: 24ga standard, 22ga and 20ga optional

SECTION PROPERTIES

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		ALLOWABLE UNIFORM LOADS PSF (3 or More Equal Spans)											
				Ixx In ² /ft	Sxx In ³ /ft	Ixx In ² /ft	Sxx In ³ /ft	Inward Load			Outward Load								
								5'	6'	7'	8'	9'	10'	5'	6'	7'	8'	9'	10'
26	36"	60	0.87	0.0650	0.0711	0.0600	0.0586	61	43	32	25	20	16	72	51	38	30	22	16
24	36"	50	1.15	0.1013	0.1216	0.0997	0.1084	98	69	51	39	29	21	109	77	57	42	29	21
22	36"	50	1.50	0.1433	0.1761	0.1400	0.1560	143	100	74	54	38	27	160	112	80	54	38	27
20	36"	50	1.77	0.1733	0.2205	0.1733	0.1951	179	125	92	63	44	32	202	141	95	63	44	32

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and panel weight is not considered.
- 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.

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) 328-9316
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

©MS1280ICR/12-2008