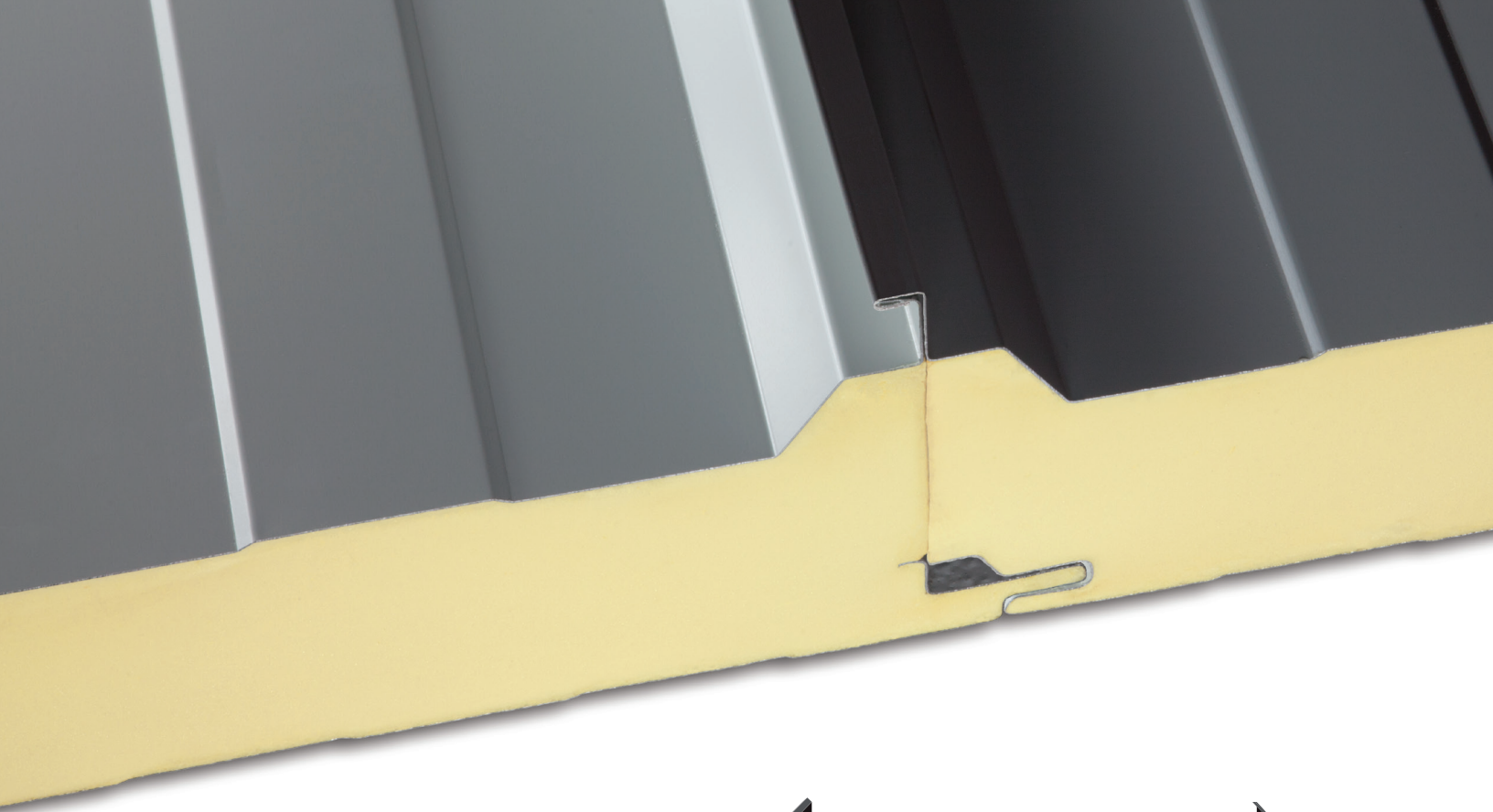


IMPower Series™ Insulated Metal Panels

SR2 Standing Seam Roof System

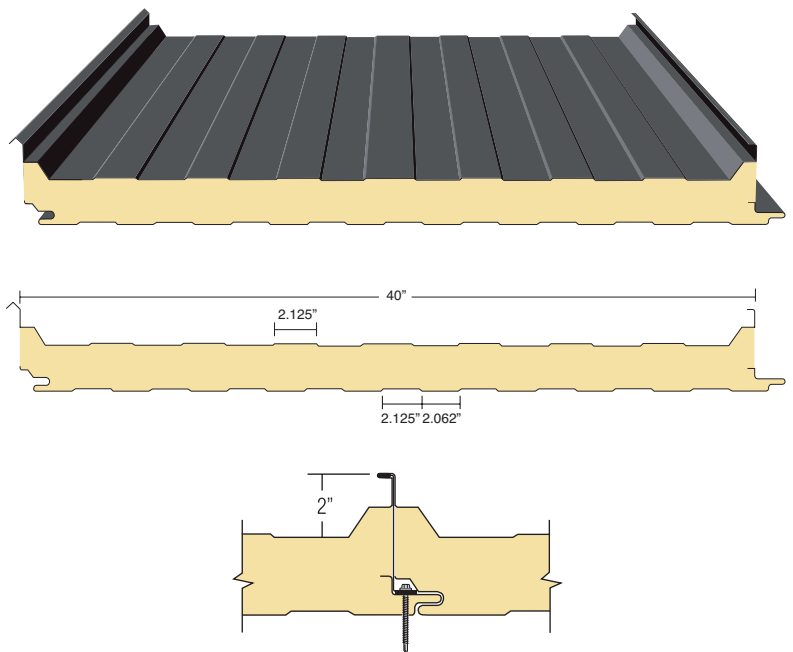


SR2 standing seam roof system provides the traditional look of a trapezoidal metal standing seam roof with a built-in insulated core. It's an efficient alternative to field-assembled roofing systems.

SYSTEM HIGHLIGHTS

- ▶ Achieves a continuous air barrier and continuous insulation up to R-49*
- ▶ Seamed, concealed fastener joinery provides maximum protection against the elements
- ▶ Factory Mutual approved for fire and wind resistance
- ▶ Accommodates long span and severe loading requirements
- ▶ Utilizes a one piece clip with thermal break
- ▶ Available in seven highly durable stocked colors, designed for long term weathering performance
- ▶ Can be installed on minimum slope of 1/2:12

*Contingent on panel thickness



ms metal sales™
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IMPower Series™ Insulated Metal Panels

SR2 Standing Seam Roof System

SIMPLY SUSTAINABLE

- ▶ Made from minimum 30% recycled steel
- ▶ Steel facings and insulation core 100% recyclable
- ▶ No CFCs (Chlorofluorocarbons)
- ▶ No VOCs (Volatile Organic Compounds)
- ▶ No ODPs (Ozone Depleting Potential)
- ▶ Meets EPA blowing agent requirements for the reduction of global warming potential
- ▶ SRI Values that meet steep and/or low-slope requirements for ENERGY STAR® and LEED®
- ▶ Effective platform for renewable energy systems

TESTING/APPROVALS

Thermal Resistance	ASTM C 518 / C 1363
Structural Strength	ASTM E 72
Fire Rating - Class 1 IMP Walls and Ceilings	FM 4880
Flame Spread	ASTM E 84
Fire, Wind, Foot Traffic, and Hail Rating	FM 4471
Air Infiltration (0.01 cfm @ 12 psf)	ASTM E 1680
Water Infiltration - None	ASTM E 1646
Florida Building Code	Approved

PANEL CHARACTERISTICS

Panel Thickness:	3.25" 4" 5" 6"
Insulating Value:	R-26 R-32 R-41 R-49
Panel Width:	40"
Panel Length:	8'-0" minimum – 50'-0" maximum*
Application:	Roof
Insulation Material:	Factory-foamed polyisocyanurate (2.1 to 2.5 pcf density)
Joint Configuration:	180° field-seamed – Must be seamed during installation
Exterior Gauge:	26 ga. galvanized steel standard, 22 ga. and 24 ga. optional
Interior Gauge:	26 ga. standard
Exterior Coating:	PVDF and SMP
Exterior Colors:	Sandstone, Surrey Beige, Regal White, Royal Blue, Natural Green, Pearl Gray, Imperial White Non-stock PVDF color options available
Interior Color:	Imperial White (SMP)
Exterior Finish:	Smooth
Interior Finish:	Light Embossed
Accessories:	Fasteners, concealed fastened clip, sealants, trims and flashing

*May be available in longer lengths. Contact Metal Sales for more information.

STRUCTURAL LOAD TABLE – THREE OR MORE SPANS

PANEL THICKNESS	PANEL WEIGHT	DESIGN CRITERIA	SPAN (ft)								
			2.5	3	3.5	4	4.5	5	5.5	6	7
3.25"	2.48	Panel/Deflection Limit	149	123	104	90	79	70	62	56	46
4"	2.65	Panel/Deflection Limit	185	153	130	112	98	87	78	71	59
5"	2.86	Panel/Deflection Limit	233	192	164	142	125	111	100	90	75
6"	3.12	Panel/Deflection Limit	262	233	198	172	151	135	121	110	92

FASTENING PATTERN	CONNECTION STRENGTH	SPAN (ft)								
		2.5	3	3.5	4	4.5	5	5.5	6	7
(2) fasteners per clip	16 gauge purlins	70	59	50	44	39	35	32	29	25
	12 gauge purlins	149	124	106	93	83	75	68	62	53
	3/16" thick purlins	294	247	213	186	165	148	136	124	106
(3) fasteners per clip	16 gauge purlins	105	88	76	66	59	53	48	44	38
	12 gauge purlins	223	186	160	140	124	112	102	93	80

Notes:

- Spans shown are based on transverse load testing per ASTM E 72 and strength of fastening patterns.
- Spans calculated with 26 gauge exterior and interior facings.
- The lowest allowable load between panel design and connection strength must be used to determine maximum span.

- Fastening calculated with 1/4-14 Tek 3 for 16 gauge and 12 gauge purlins and 1/4-20 Tek 5 for 3/16" thick purlins.
- Deflection Limit: L/240
- Safety factor = 2.5 for buckling, 3.0 for shear, 3.0 for fastening
- Structural capacity of purlins have not been considered.
- Thermal effect due to temperature differentials have not been considered.

Be inspired.



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