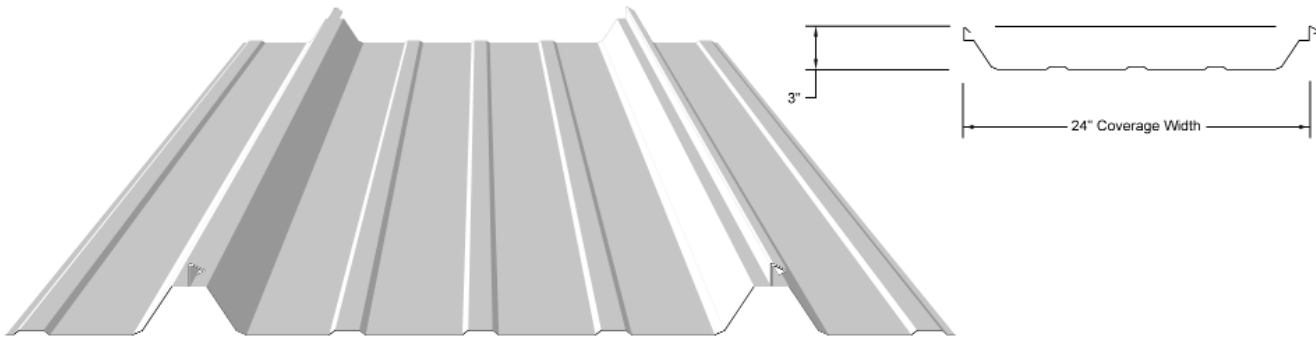


# IP Seam 3



INDUSTRIAL-COMMERCIAL ROOFING & SIDING

Effective September 2007



## Material Specifications

Steel Thickness: 22 & 24 Gauge  
 Substrate: Pre-Painted - GALVALUME® AZ-50  
 Bare - GALVALUME® AZ-50  
 Yield Strength: Grade 50  
 Paint Coating: Fabral' Flurobond (Kynar)

## Description

IP Seam 3 is 24" net coverage, 3" high standing seam panel with a factory applied mastic in the sidelap. IP Seam 3 is mechanically seamed and is the most efficient standing seam panel in the industry. IP Seam 3 is also available in snap-locked profile (IP Snap 3) and has excellent low slope capability.

## Section Properties/ Load Table

	Base Metal Thickness (Inches)	Total Thickness (Inches)	Panel Weight Square Ft.	Top In Compression		Bottom In Compression		Fb ksi
				Ix	Sx	Ix	Sx	
				In4/ft.	In3/ft.	In4/ft.	In3/ft.	
24 Gauge	0.0225	0.0242	1.20	0.121	0.076	0.122	0.077	30
22 Gauge	0.030	0.0318	1.59	0.165	0.105	0.178	0.107	30

	Number of Spans	Maximum Total Uniform Load in PSF				
		L = 3'-0"	3'-4"	4'-0"	4'-6"	5'-0"
24 Gauge Steel	1	169	137	95	75	61
	2	171	139	96	76	62
	3	214	173	120	95	77
	4	200	162	112	89	72
22 Gauge Steel	1	233	189	131	104	84
	2	238	193	134	106	86
	3	297	241	167	132	107
	4	278	225	156	123	100

Jackson, GA (800) 884-4484  
 Grapevine, TX (800) 477-9066  
 Salem, OR (800) 477-8028  
 Headquarters - Lancaster, PA (800) 477-2741

# IP Seam 3 Specifications

## 1. PRODUCT NAME

IP Seam 3 360 Roof System for new roofing or retrofit roofing.

## 2. MANUFACTURER

Fabral Engineered Products, Inc.  
1000 Northchase, Suite 203  
Goodlettsville, TN 37072  
Phone: 615-855-1885

## 3. PRODUCT DESCRIPTION

**Basic Use:** For roofing new buildings or reroofing existing ones of any construction type. Specially designed roof panels are secured to the structural system with concealed clips. An electric seaming machine rolls a 360 degree seam to insure against leaks. Sliding clips provide for thermal expansion along the slope. IP Seam 3 360 panels have 2" high (3" high with seam) by 4-3/4" wide ribs on 24" centers. Net width coverage of each panel is 2', and panels are available in standard lengths up to 45'. Longer lengths are available upon request.

**Materials:** IP Seam 3 360 roof panels are 24 or 22 gauge 50,000 psi steel. Exterior finish is AZ50 aluminum-zinc alloy-coated, prepainted G90 zinc-coated (galvanized). Pre-painted panels have Fabral Color Shield 500 (Kynar 500) finish.

The IP Seam 3 360 clip is a two part assembly. The tab portion is die formed of .031 thick aluminumzinc alloy-coated steel. The base shall be die formed 12 gauge zinccoated

(galvanized) material 2-1/4" or 3-1/4" (for thermal blocks) high. The expansion capability is 2-1/2".

IP Seam 3 360 sidelaps have factory applied mastic, Sika Caulk 501 or equal. Its composition is 91% solids by weight. Service temperature range is -60 degrees F to +250 degrees F. Material meets or surpasses requirements of Federal Specification TT-C-1796A, Type II, Class A.

Endlaps, ridges and eave closures are sealed with tape mastic, Sika Tape TC-95 or equal. The material is non-staining,

non-corrosive, non-toxic and non-volatile. Composition is 100% solid ethylene propylene copolymer tape. Service temperature is -60 degrees F to +212 degrees F.

The material meets or surpasses Federal Specification TT-C-1796A, Type II, Class B.

**Caulk:** All gutter and downspout joints, rake flashing laps, ridge flashing laps and roof accessories are sealed with white or bronze pigmented polyurethane caulk, Sika Flex 219LM or equal. It meets or exceeds Federal Specification TT-S-00230C, Type II, Class A.

All fasteners for panel to secondary framing and panel to panel will be one of the following EPDM washer head screws:

Premium roof fasteners shall be No. 14 x 1" self-drilling carbon steel screws with a molded zinc alloy or capped stainless steel cupped hex washer head.

Premium roof fasteners will be on all warranted roofs and all pre-finished roofs. Standard roof fasteners shall be No. 14 x 1" self-drilling carbon steel screws with an integral hex washer head. Standard roof fasteners shall have a corrosive resistant coating over zinc plating. Standard roof fasteners shall be used on unwarranted aluminum-zinc alloy-coated roofs only.

IP Seam 3 360 panel clips are attached to the purlins with the following fasteners: Self-drilling screws are carbon steel No. 12 x 1-1/4" hex head, cadmium or zinc plated.

## 4. TECHNICAL DATA

The IP Seam 3 360 panel has received a Class 90 Wind Uplift rating by Underwriters Laboratories when tested in accordance with test procedure UL 580. The IP Seam 3 360 roof panel has been Factory Mutual approved. This panel has also been tested in accordance with Wind Uplift ASTM E1592 and CECS 07416, Air Infiltration, ASTM E1680 and Water

Penetration, ASTM E1646. This panel has been approved for SREF (SSTD-97) Impact Testing. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

## 5. INSTALLATION

Panels are joined at the sidelap with an interlocking 360 degree seam standing one inch above the major rib. Panel sidelaps are seamed by a special electrical seaming machine. Sidelap sealer is factory applied. Installation may be incorporated with a light gauge structural system.

## 6. AVAILABILITY

For availability, contact Fabral Engineered Products, Inc. 1000 Northchase Drive, Suite 203, Goodlettsville, TN 37072. Phone: 615-855-1885

## 7. WARRANTY

Thirty five-year material and weathertightness warranties can be ordered.

## 8. MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

## 9. TECHNICAL SERVICES

For availability, contact: Fabral Engineered Products, Inc. 1000 Northchase Drive, Suite 203 Goodlettsville, TN 37072 Phone: 615-855-1885

## 10. PRODUCT NOTES

A certain amount of waviness called "oil canning" may exist in this panel. Minor waviness of the panel is not sufficient cause for rejection, because oil canning does not affect the structural integrity of the panel. IP Seam 3 Panels in general are known for their tendency to rumble in high winds if insulation is not used. Under no circumstances should IP Seam 3 be used without blanket insulation between the panel and the purlin/bar joist.

**Fabral, Inc. reserves the right to revise all standard specifications and information without notice.**