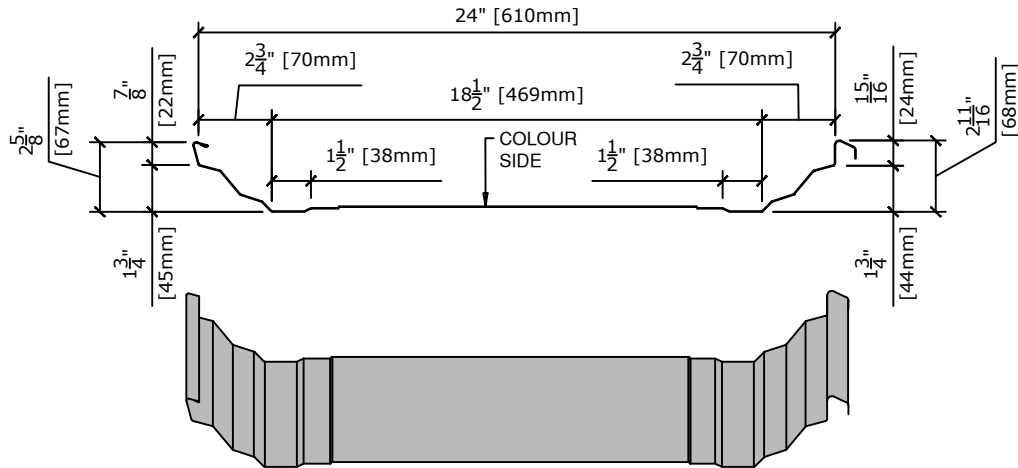


BEHLEN

STEEL BUILDINGS

PROFILE	APPLICATION		
SSR24 ROOF PANEL	SSR24 ROOF SYSTEM		
DETAIL	SHT.	DATE	REV.
SSR24 TECHNICAL PROPERTIES	SSR-100	AUG 27/24	B



MINIMUM 1/4:12 PITCH

SECTION PROPERTIES | PER FOOT OF WIDTH, IN ACCORDANCE WITH CSA STANDARD S136

BASE STEEL THICKNESS (inches)	WEIGHT [G90] (psf)	YIELD STRESS (ksi)	SECTION MODULUS		DEFLECTION MOMENT OF INERTIA (in ⁴)	SPECIFIED WEB CRIPPLING DATA			
			MIDSPAN (in ³)	SUPPORT (in ³)		Pe1 END (lb)	Pe2 END (lb)	Pi1 INT (lb)	Pi2 INT (lb)
0.0240	1.26	50	0.0997	0.0864	0.179				
0.0300	1.56	50	0.126	0.109	0.227				

LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

SECTION PROPERTIES | PER METRE OF WIDTH, IN ACCORDANCE WITH CSA STANDARD S136

BASE STEEL THICKNESS (mm)	MASS [Z275] (kg/m ²)	YIELD STRESS (MPa)	SECTION MODULUS		DEFLECTION MOMENT OF INERTIA (x10 ⁶ mm ⁴)	SPECIFIED WEB CRIPPLING DATA			
			MIDSPAN (x10 ³ mm ³)	SUPPORT (x10 ³ mm ³)		Pe1 END (kN)	Pe2 END (kN)	Pi1 INT (kN)	Pi2 INT (kN)
0.610	5.91	345	5.36	4.65	0.244				
0.762	7.35	345	6.76	5.87	0.310				

LLF = 1.50; IMPF = 0.90; NORMAL OCCUPANCY = 1.0

ASTM A792/A792M-10(2015)

GRADE	50 (345 Mpa)
GAUGES	24ga (0.61mm) & 22ga (0.76mm)
BASE STEEL	AZM 150 & AZM 165 (PLAIN)
MIN. PITCH	1/4:12
WIDTH	24" (610mm)
MIN. LENGTH	8'-0" (2440mm)
MAX. LENGTH	54'-0" (16.5m)

CERTIFICATION

TO ENSURE THAT THE SSR24 SYSTEM WILL MEET DESIGN APPLICATION, IT HAS BEEN TESTED BY BEHLEN INDUSTRIES AND CERTIFIED. THE SSR24 ROOF SYSTEM CARRIES UL 580 TEST FOR WIND UPLIFT CLASS 90. SEE UL CONSTRUCTION No. 685 FOR CONSTRUCTION INFORMATION. UL FILE: TGKX.685. SSR24 SYSTEM CARRIES FM 4471 APPROVAL STANDARD FOR CLASS 1 PANEL ROOFS FOR; CLASS 1 INTERNAL FIRE, WIND UPLIFT, CLASS A & C EXTERNAL FIRE, SH SEVERE HAIL & FOOT TRAFFIC. SEE FM RoofNav ASSEMBLY #'s; 344713-0-0, 12-0-0. TEST FILE: J.I. 1Z3A2.AM

SSR24 PANEL NOTES:

- STRUCTURAL SPANNING AND SELF SUPPORTING.
- SLIDING CLIP SYSTEM FOR THERMAL EXPANSION/CONTRACTION.
- THERMAL ROOF SYSTEM WITH VARIABLE DEPTH FLOATING CLIPS. MINIMUM 2" INSULATION RECOMMENDED.
- HAND / MECHANICAL SEAMING REQUIRED
- ATTACHMENT CLIP SYSTEM FOR; SOLAR PANELS, FALL ARREST, AND SNOW MANAGEMENT SYSTEMS AVAILABLE.
- AVAILABLE IN PLAIN 24ga & 22ga GALVALUME PLUS OR IN 24ga & 22ga PRE-PAINTED PERSPECTRA PLUS SMP PAINT.

NOTES:

- DO NOT SCALE. DETAILS ARE FOR GUIDELINES ONLY, AND MAY NOT BE SUITABLE FOR ALL BUILDING DESIGNS AND CONDITIONS.
- SCREW LENGTHS MAY VARY PER CUSTOMER REQUEST. #12-14x1", #12-14x1 1/2", #12-14x2", #12-14x3" ARE AVAILABLE.