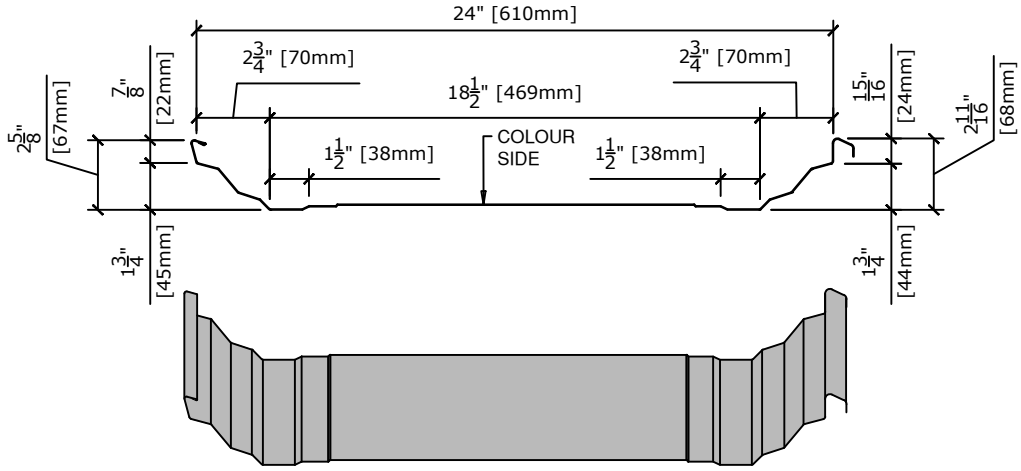


BEHLEN

STEEL BUILDINGS

PROFILE	SSR24 ROOF PANEL			APPLICATION	SSR24 ROOF SYSTEM				
DETAIL	SSR24 TECHNICAL PROPERTIES			SHT.	SSR-100	DATE	AUG 17/20	REV.	A



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 THE DEMANDS OF ITS APPLICATION REQUIREMENTS, IT HAS BEEN TESTED BY BEHLEN INDUSTRIES AND CERTIFIED BY FACTORY MUTUAL. THE BEHLEN SSR24 ROOF SYSTEM CARRIES A FM CLASS 1-SH HAIL RATING AND 1-60 FIRE RESISTANCE. SEE FM RoofNav FOR CONSTRUCTION INFORMATION. SYSTEM CARRIES A WIND UPLIFT CLASS 90 IN ACCORDANCE TO UL 580 TEST FOR WIND UPLIFT. SEE UL CONSTRUCTION No. 685 FOR CONSTRUCTION INFORMATION. TEST FILE: J.I. 1Z3A2.AM PER FMRC STANDARD 4471 UL FILE: TGKX.685

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