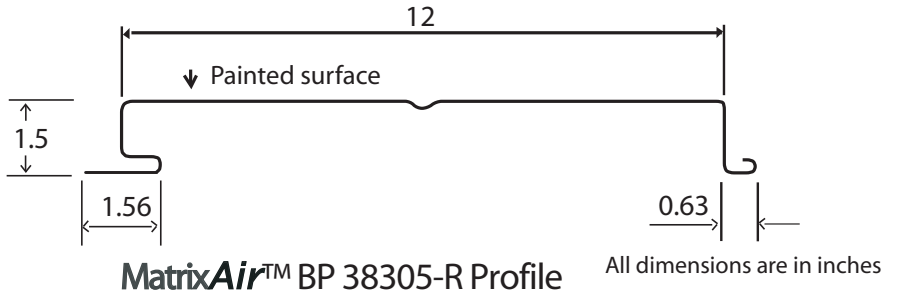


Cladding Specifications

MatrixAir™ BP Solar Air Heating Collector - imperial

38305-R

38305-R is available in base steel nominal thicknesses of 0.030".



Physical Properties (per foot width) In accordance with CSA Specification S136-07									
Base steel nominal thickness (inches)	Weight G90 (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia Mid Span (inches ⁴)	Specified Web Crippling Data (lb)			
			Midspan (inches ³)	Support (inches ³)		End	End	Interior	Interior
						Pe1	Pe2	PI1	PI2
0.03	1.87	33	0.0903	0.132	0.0817	195	48.7	376	63.9

Live Load Factor= 1.4; Importance Factor=0.75, Importance Category=1.0

NOTES - LIMIT STATES DESIGN:

1. Values in row "S" are based on strength.
2. Values in row "D" are based on a deflection limit of 1/180 of the span.
3. Web crippling not included in strength values.
4. Oil canning may be present due to thickness and coverage. Oil canning is not a valid reason for rejection of this product.
5. Steel conforms to ASTM A653

Span (in.)		Load Table			Maximum Specified Uniformly Distributed Load in psf		
		1-Span	2-Span	3-Span	1-Span	2-Span	3-Span
		Base steel nominal thickness (inches)	Base steel nominal thickness (inches)	Base steel nominal thickness (inches)			
		0.030	0.030	0.030			
48	S	80	117	125			
	D	149	356	281			
54	S	63	92	99			
	D	104	250	197			
60	S	51	75	80			
	D	76	182	144			
66	S	42	62	66			
	D	57	137	108			
72	S	35	52	55			
	D	44	106	83			
78	S	30	44	47			
	D	35	83	65			
84	S	26	38	41			
	D	28	67	52			
90	S	23	33	35			
	D	23	54	43			
96	S	20	29	31			
	D	19	45	35			
102	S	18	26	28			
	D	15	37	29			
108	S	16	23	25			
	D	13	31	25			