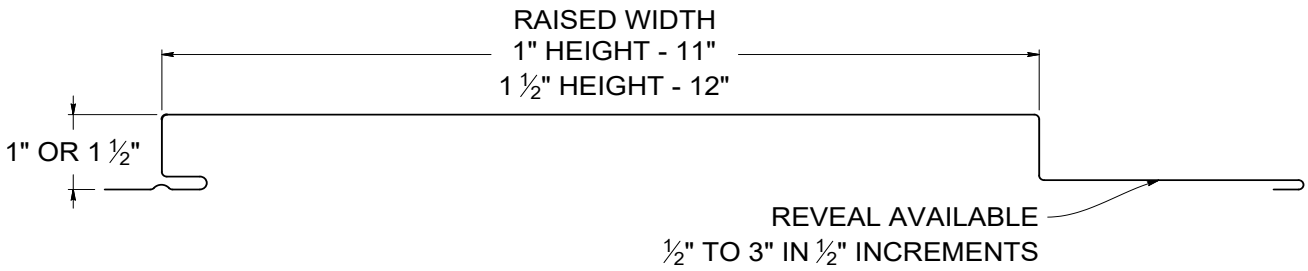
TAYLOR METAL PRODUCTS

ShadowLine™
Flush Seam Series
Technical Data Resource

ICC EVALUATION SERVICE®

ICC-ER EVALUATION REPORT #5045 with CBC-CRC Supplement (Coming 2024)

PANEL PROFILE



KEY FEATURES

- 11-1/2" to 15" coverage 1" height
  12-1/2" to 15" coverage 1-1/2" height
- 24, 22, 20 & 18 gauge Tru-Gauge™
- .032 & .040 Aluminum
- Custom Lengths 3' to 35'
  (Inquire on longer or shorter lengths)
- 2' Shortcut capability *(Fee applicable)*
- Concealed Fasteners: fasteners cannot leak
- Versatile in wall and soffit applications
- Panel options: Vented, Striations, Single V-Groove, Double V-Groove, and Flat Pan
- ShadowLine™ can be perforated for soffit applications
- "Oil canning" is an inherent characteristic of roof and wall products, and not a defect, which is not a cause for panel rejection

TESTING

- ICC-ESR #5045 with CBC-CRC Supplement Coming 2024
- ASTM E1592 - Structural uniform static air pressure
- ASTM E1680 Air Infiltratuon Roofing
- ASTM E283 Air Infiltratuon Siding
- ASTM E1646 Water Infiltration Roofing
- ASTM E331 Water Infiltration Siding
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zincalume/Glavalume AZ-50/55
- ASTM B209 - Aluminum Substrate

ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
25 PSF<0.01 CFM/ft²-PASS	25 PSF - Pass
Intertek Test Result M0877.01-901-44 R0	
Intertek Test Result M0877.01-901-44 R0	
STRUCTURAL TESTING ASTM E1592 AND E330	
Force Engineering 696-0-83T-19A, B	

WEIGHT CHART (Values based on 1" panels, inquire for 1-1/2")

LIFETIME SOFFIT	WIDTH	24 GA STEEL	22 GA STEEL	.032 ALUM	.040 ALUM
THICKNESS		0.0236"	0.0285"	0.032"	0.040"
WEIGHT/LINFT	12"	1.324 LBS	1.598LBS	0627 LBS	0.784 LBS
WEIGHT/LSQFT	12"	1.324 LBS	1.598LBS	0627 LBS	0.784 LBS

NEGATIVE LOAD CHART WITH HIGH WIND CLIP

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)						
				Top in Compression			Bottom in Compression			Negative Load						
Width, in.	Gauge	Yield ksi	Weight psf	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	1'	1.5'	2'	2.5'	3'	3.5'	4'
15	24	50	1.58	0.0424	0.0530	0.0466	0.0790	0.0684	0.0654	119.7	104.5	89.3	74.1	59.0	43.8	28.6
15	22	50	1.87	0.0528	0.0662	0.0594	0.0992	0.0857	0.0835	119.7	104.5	89.3	74.1	59.0	43.8	28.6
15	20	33	2.29	0.0760	0.0966	0.0914	0.1472	0.1265	0.1306	119.7	104.5	89.3	74.1	59.0	43.8	28.6
15	18	33	2.97	0.1096	0.0947	0.1393	0.2008	0.1743	0.1844	119.7	104.5	89.3	74.1	59.0	43.8	28.6

1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek M1352.01-301-44 R0
2. Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
3. Minimum recommended substrate (structure) recommendations:
   A. Open-Framing (i.e. purlins)-16ga (design thickness 0.0566")
   B. Plywood/OSB-15/32" or thicker is recommended to assure an effective degree of fastener thread engagement.
   C. METAL DECK - 22ga (design thickness 0.0283")

POSITIVE LOAD CHART WITH HIGH WIND CLIP

				SECTION PROPERTIES						ALLOWABLEUNIFORM LOADS, psf For various fastener spacings (i.e. span values)									
				Top in Compression			Bottom in Compression			Positive Load									
Width, in.	Gauge	Yield ksi	Weight psf	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
15	24	50	1.58	0.0424	0.0530	0.0466	0.0790	0.0684	0.0654	306.4	153.2	102.1	72.8	46.6	32.3	23.8	18.2	14.4	11.6
15	22	50	1.87	0.0528	0.0662	0.0594	0.0992	0.0857	0.0835	500.9	250.5	164.9	92.8	59.4	41.2	30.3	23.2	18.3	14.8
15	20	33	2.29	0.0760	0.0966	0.0914	0.1472	0.1265	0.1306	469.1	234.6	156.4	94.3	60.3	41.9	30.8	23.6	18.6	15.1
15	18	33	2.97	0.1096	0.0947	0.1393	0.2008	0.1743	0.1844	810.0	405.0	255.4	143.7	91.9	63.9	46.9	35.9	28.4	23.0

1. Theoretical section properties for Steel panel shave been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
2. Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending , shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
3. When panels are installed over solid or closely fitted sheathing, the capacity is limited to the capacity of the underlying sheathing.

HIGH WIND PANEL ATTACHMENT