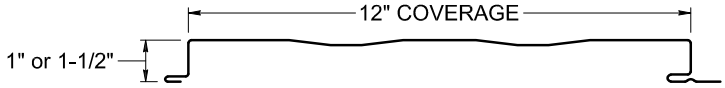
TAYLOR METAL PRODUCTS

Lifetime Soffit™ (SmoothWall™) Flush Seam Series Wall and Soffit

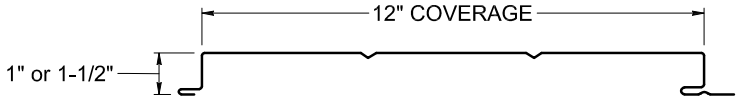
ICC EVALUATION SERVICE® ICC-ESR #5046 with CBC-CRC Supplement

PANEL PROFILES



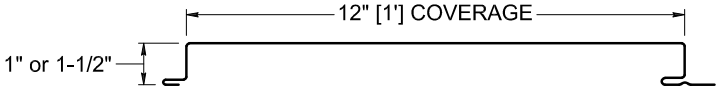
Now Available: STRIATIONS

Striations offer the best solution to help minimize oil canning



DOUBLE V-GROOVE (shown)

or Single V-Groove available



FLAT PAN

KEY FEATURES

- 12" coverage option
- 24 & 22 gauge Tru-gauge™ and .032 & .040 Aluminum
- Substrate: ASTM A653 / A792
- Aluminum reccomended within 1000 ft of salt water (*not required*)
- Custom Lengths 3' to 35' *(Inquire for longer or shorter lengths)*
- For panels over 14 ft. in length, please inquire with a TMP Representative. Consider thermal movement, points of attachment, and substrate. Longer panel lengths are more difficult to install as they can change shape, cause distortion (“oil canning”), and are vulnerable to “folding” or other damage.
- 2' Shortcut capability *(Fee applicable)*
- Concealed Fasteners: fasteners cannot leak
- 6.16 sq. inch (4.2%) free air flow per lineal foot of perforated panel
- Versatile in wall and soffit applications
- Panels being installed on open frame building, inquire
- Panel options: Vented, Striations, Single V-Groove, Double V-Groove, and Flat Pan

TESTING

- ICC EVALUATION SERVICE® ICC-ESR #5046 with CBC-CRC Supplement
- ASTM E1592 - Structural uniform static air pressure
- ASTM E283 Air Infiltratuon Siding
- ASTM E331 Water Infiltration Siding
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - ZINCALUME®/Glavalume AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM E2886 - Ember Penetration (Vented Soffit)

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”)

SMOOTHWALL	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

1" PANEL NEGATIVE LOAD CHART WITH #14 STITCH SCREW 24" O.C.

				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	2'	2.5'	3'	3.5'	4'
12 5/8"	24	50	1.89	0.0204	0.0241	0.0354	0.0332	0.0295	0.0388	62.1	59.6	57.1	54.6	52.1
12	22	50	2.21	0.0279	0.0322	0.0507	0.0429	0.0385	0.0502	78.1	72.9	67.7	62.5	57.3
12	20	33	2.69	0.0372	0.0418	0.0742	0.0531	0.0485	0.0633	78.1	72.9	67.7	62.5	57.3
12	18	33	3.48	0.0540	0.0586	0.0957	0.0700	0.0653	0.0853	78.1	72.9	67.7	62.5	57.3

- Charted Load/Span values are based on ASTM E1592-02 / ASTM E1592-05 testing protocol. Intertek Test Result M0874.01-901-44
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
  - o Open-framing (i.e.purlins) -16ga (design thickness=0.0566")
  - o Plywood/OSB - 15/32" or thicker is recommend to assure an effective degree of fastener thread engagement.
  - o Metal deck - 22 ga. (design thickness=0.0283")

1" PANEL POSITIVE LOAD CHART WITH #14 STITCH SCREW 24" O.C.

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip 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'
12-5/8"	24	50	1.89	0.0204	0.0241	0.0354	0.0332	0.0295	0.0388	263.6	131.8	87.9	55.3	35.4	24.6	18.1	13.8	10.9	
12	24	50	1.89	0.0204	0.0241	0.0354	0.0332	0.0295	0.0388	263.6	131.8	87.9	55.3	35.4	24.6	18.1	13.8	10.9	
12	22	50	2.21	0.0279	0.0322	0.0507	0.0429	0.0385	0.0502	391.8	195.9	130.6	78.44	50.2	34.86	25.61	19.61	15.5	12.6
12	20	33	2.69	0.0372	0.0418	0.0742	0.0531	0.0485	0.0633	400.9	200.5	117.2	65.9	42.2	29.3	21.53	16.5	13.0	10.6
12	18	33	3.48	0.0540	0.0586	0.0957	0.0700	0.0653	0.0853	664.6	332.3	158.0	88.85	56.87	39.49	29.01	22.21	17.6	14.2
12	0.032"	19	0.52	0.0640	0.0640	0.0310	0.0640	0.0640	0.0786	47.3	23.6	15.8	11.8						
12	0.040"	19	1.14	0.0790	0.0790	0.3788	0.0790	0.0790	0.0966	73.6	36.8	24.6	18.4	14.7	12.3	10.52			

- 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.
- The Versa-Span Panel when installed as a three-span condition with spans of 5 ft. on-center for Steel and 3.0 ft. on-center for Aluminum are capable of withstanding the minimum uniform distributed load of 20 psf (0.958 kPa) noted in Table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN).
- When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.

STITCH SCREW PANEL ATTACHMENT



STEEL - 1.5" PANEL NEGATIVE LOAD CHART WITH #14 STITCH SCREW 24" O.C.

STEEL				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	2'	2.5'	3'	3.5'	4'	4.5'	5'
12	24	50	1.32	0.0629	0.0741	0.0648	0.1015	0.0903	0.0808	78.1	74.6	71.1	67.7	64.2	60.8	57.3
12	22	50	1.60	0.0786	0.0916	0.0835	0.1235	0.1105	0.0993	101.5	98.5	95.4	92.4	89.4	86.3	83.3
12	20	33	1.94	0.1112	0.1264	0.1288	0.1635	0.1483	0.1346	101.5	98.5	95.4	92.4	89.4	86.3	83.3
12	18	33	2.35	0.1550	0.1724	0.1953	0.2150	0.1976	0.1796	101.5	98.5	95.4	92.4	89.4	86.3	83.3

ALUMINNUM - 1.5" PANEL NEGATIVE LOAD CHART WITH #14 STITCH SCREW 24" O.C.

Aluminum				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various support 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'	4.5'	5'
12	0.040"	19	0.78	0.2550	0.2550	0.6398	0.2550	0.2550	0.2233	180.0	163.2	146.3	129.4	112.5	95.6	78.8	61.9	45.0

- Charted Load/Span values are based on ASTM E1592-05 (2017) testing protocol.
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by 2.00 Factor-of-Safety.
- Panel substrate (structure) may include: open-framing, plywood/OSB/ or metal deck.
- Deflection limit consideration for positive (downward) loading is limited to a deflection ratio of L/180 of the span...where "L" is the span in inches.
- Tested assembly for steel used stitch screws at 24" o/c. Steel panel was tested at 2ft. and 5ft. spans
- Tested assembly for aluminum used stitch screws at 24" o/c for 5ft. span and 12" o/c for 1ft. span. Aluminum panel was tested at 1ft. and 5ft. spans.

1.5" PANEL POSITIVE LOAD CHART WITH #14 STITCH SCREW 24" O.C.

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip 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'
12	24	50	1.32	0.0629	0.0741	0.0648	0.1015	0.0903	0.0808	705.5	352.7	180.0	101.3	64.8	45.0	33.1	25.3	20.0	16.2
12	22	50	1.60	0.0786	0.0916	0.0835	0.1235	0.1105	0.0993	949.1	474.6	231.9	130.5	83.5	58.0	42.6	32.6	25.8	20.9
12	20	33	1.94	0.1112	0.1264	0.1288	0.1635	0.1483	0.1346	891.8	445.9	238.5	134.2	85.9	59.6	43.8	33.5	26.5	21.5
12	18	33	2.35	0.1550	0.1724	0.1953	0.2150	0.1976	0.1796	1425.5	712.7	332.6	187.1	119.7	83.2	61.1	46.8	37.0	29.9
12	0.032"	19	0.63	0.2060	0.2060	0.5184	0.2060	0.2060	0.1817	108.2	54.1	36.1	27.1	21.6	18.0	15.5	13.5	10.8	
12	0.040"	19	0.78	0.2550	0.2550	0.6398	0.2550	0.2550	0.2233	166.4	83.2	55.5	41.6	33.3	27.7	23.8	19.9	15.7	12.7

- Theoretical section properties for steel panels have been calculated per 2020 AISI S100 specification for the design of cold-formed steel structural members.
- Allowable load is 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.
- Allowable load does not address panel weight, fasteners, connection strength or support material.
- Allowable load includes web crippling.
- Allowable loads do not include a 1/3 stress increase for wind.
- When panels are installed over solid or closely fitted sheathing, the capacity is limited to the capacity of the underlying sheathing.

STITCH SCREW PANEL ATTACHMENT

