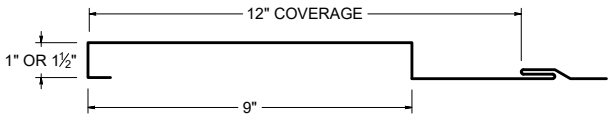
TAYLOR METAL PRODUCTS

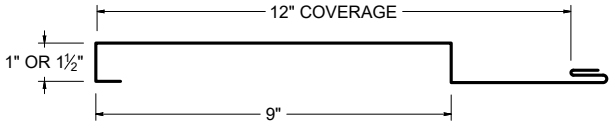
Contour™ Wall/Soffit
Reveal Series CR-D
Technical Data Resource

ICC-ES EVALUATION REPORT #5045 with CBC-CRC Supplement

SCREW FLANGE ATTACHMENT



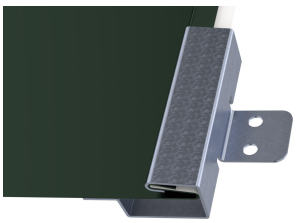
CLIP ATTACHMENT



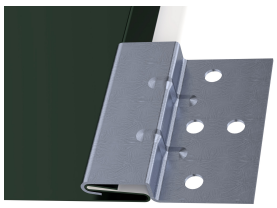
Screw Flange panels in this profile require additional material (drop/waste) and must be slit to a custom size. Inquire for custom pricing and availability.

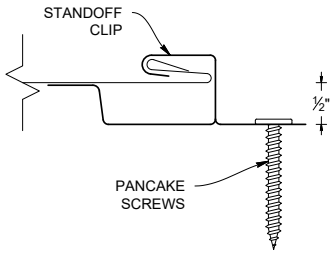
PANEL ATTACHMENT CLIP

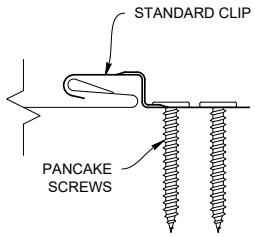
STANDOFF CLIP



STANDARD CLIP







KEY FEATURES

- 12” panel coverage
- 24 and 22 Tru-Gauge™ and .032 Aluminum. Screw Flange and Clip attachment available
- Seamless runs, fewer runs and less labor
- 1” or 1-1/2” deep panel
- 2’ to 20’10” panel lengths
- Custom profiles available
- Vertical or Horizontal Wall Application
- Acceptable for use as a soffit panel
- Interchangeable panel widths and configurations
- Perforated options available (please inquire)

TESTING

- ICC-ESR #5045 with CBC-CRC Supplement
- ASTM E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM E1592 - Negative structural uniform static air pressure
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zincalume/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate

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

CR-D	TYPE	24 GA STEEL	22 GA STEEL	.032 ALUM
THICKNESS		0.0236”	0.0285”	0.032”
WEIGHT/LINFT	CLIP ATTACH	1.364 LBS	1.577 LBS	0.646 LBS
WEIGHT/LSQFT	CLIP ATTACH	1.364 LBS	1.577 LBS	0.646 LBS
WEIGHT/LINFT	SCREW FLANGE	1.509 LBS	1.944 LBS	0.715 LBS
WEIGHT/LSQFT	SCREW FLANGE	1.509 LBS	1.944 LBS	0.715 LBS

ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
12 PSF<0.01 CFM/ft²-PASS	20.5 PSF - Pass
Intertek Test Result L5460.01-901-44 R1	
Intertek Test Result L5461.01-901-44 R1	
STRUCTURAL TESTING ASTM E1592 AND E330	
Intertek Test Result 1” Panel N3050.05-301-44 R0	
Intertek Test Result 1.5” Panel Q2599.15-301-44 R0	

1” PANEL DEPTH NEGATIVE LOAD CHART WITH CLIP ATTACHMENT

				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'	4.5'	5'
12	24	50	1.30	0.0270	0.0311	0.0373	0.0410	0.0369	0.0530	187.5	171.9	156.3	140.6	125.0	109.9	93.8	78.1	62.5
12	22	50	1.53	0.0348	0.0402	0.0501	0.0535	0.0481	0.0713	212.5	192.2	171.9	151.6	131.3	110.9	90.6	70.3	50.0
12	20	33	1.87	0.0511	0.0586	0.0788	0.0771	0.0695	0.1088	212.5	192.2	171.9	151.6	131.3	110.9	90.6	70.3	50.0
12	18	33	2.43	0.0740	0.0838	0.1213	0.1080	0.0981	0.1591	212.5	192.2	171.9	151.6	131.3	110.9	90.6	70.3	50.0

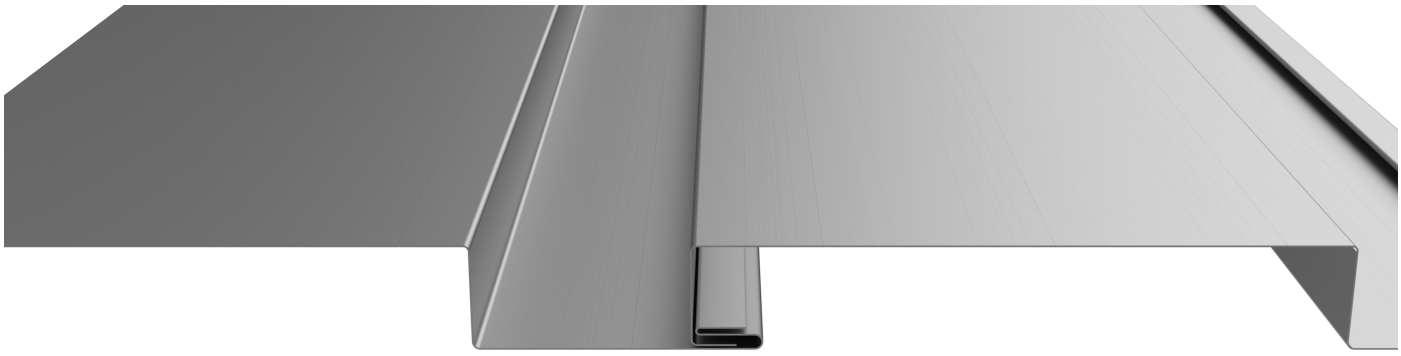
1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek 1” Panel N3050.05-301-44 R0
2. Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
3. Minimum recommended 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”)

1” PANEL DEPTH POSITIVE LOAD CHART WITH CLIP ATTACHMENT

				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	1.30	0.0270	0.0311	0.0373	0.0410	0.0369	0.0530	358.2	179.1	103.6	58.3	37.3	25.9	19.0	14.6	11.5	
12	22	50	1.53	0.0348	0.0402	0.0501	0.0535	0.0481	0.0713	383.6	191.8	127.9	78.3	50.1	34.8	25.6	19.6	15.5	12.5
12	20	33	1.87	0.0511	0.0586	0.0788	0.0771	0.0695	0.1088	386.4	193.2	128.8	82.1	52.5	36.5	26.8	20.5	16.2	13.1
12	18	33	2.43	0.0740	0.0838	0.1213	0.1080	0.0981	0.1591	665.5	332.7	221.8	126.4	80.9	56.2	41.3	31.6	25.0	20.2

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.

PANEL ATTACHMENT



Fastener Notes:

- When possible, lap panels away from prevailing wind direction.
- 15/32” OSB: #10 Burr Buster fasteners.
- 15/32” Plywood: #10 GP Fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8”.
- Dimensional lumber: #10 GP. Screws should penetrate the lumber 1”.
- 16ga (or less) Steel furring: #10 or #12 Fastener with DP-1
- All trim screws used for roof or wall applications should have EPDM sealing washers.

1.5” PANEL DEPTH NEGATIVE LOAD CHART WITH SCREW FLANGE

				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'	4.5'	5'
12	24	50	1.42	0.0701	0.0846	0.0669	0.1202	0.1057	0.1121	165.0	151.9	138.8	125.6	112.5	99.4	86.3	73.1	60.0
12	22	50	1.68	0.0881	0.1056	0.0859	0.1484	0.1309	0.1408	175.0	158.8	142.5	126.3	110.0	93.8	77.5	61.3	45.0
12	20	33	2.05	0.1269	0.1486	0.1314	0.2020	0.1802	0.1999	175.0	158.8	142.5	126.3	110.0	93.8	77.5	61.3	45.0
12	18	33	2.67	0.1830	0.2103	0.1996	0.2770	0.2497	0.2818	175.0	158.8	142.5	126.3	110.0	93.8	77.5	61.3	45.0

1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek 1.5” Panel Q2599.15-301-44 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”)

1.5” PANEL DEPTH POSITIVE LOAD CHART WITH SCREW FLANGE

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
				Topin 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	1.42	0.0701	0.0846	0.0669	0.1202	0.1057	0.1121	265.5	132.7	88.5	66.4	53.1	44.2	34.1	26.1	20.7	16.7
12	22	50	1.68	0.0881	0.1056	0.0859	0.1484	0.1309	0.1408	378.2	189.09	126.06	94.6	75.6	59.7	43.83	33.6	26.5	21.5
12	20	33	2.05	0.1269	0.1486	0.1314	0.2020	0.1802	0.1999	380.9	190.45	126.97	95.2	76.2	60.2	44.3	33.9	26.8	21.7
12	18	33	2.67	0.1830	0.2103	0.1996	0.2770	0.2497	0.2818	658.2	329.1	219.4	164.6	131.64	91.5	67.21	51.46	40.7	32.9

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Rev. Date 06-24