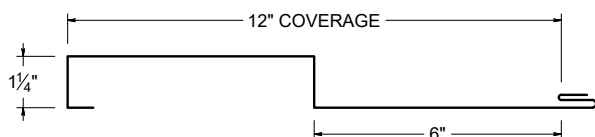




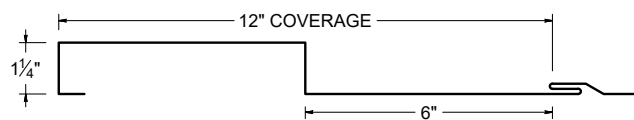
ICC
EVALUATION
SERVICE®

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

CLIP ATTACHMENT

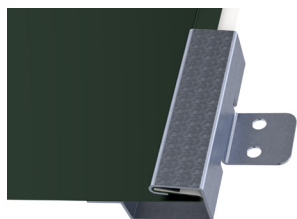


SCREW FLANGE ATTACHMENT

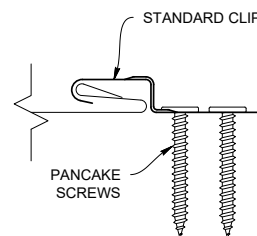
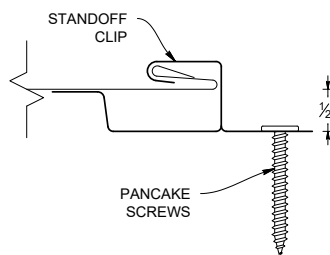
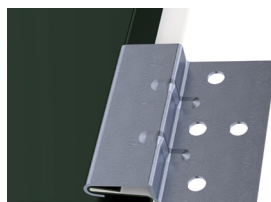


PANEL ATTACHMENT CLIP

STANDOFF CLIP



STANDARD CLIP



KEY FEATURES

- 12" panel coverage
- 24 Tru-Gauge™ steel and .032" aluminum are standard and attach with high-performance concealed clips (some profiles may be available with an integrated screw flange option -- please inquire)
- Screw flange is not available in heavier gauges:
 - 22 Tru-Gauge™ steel and .040" aluminum
 - Custom 20 & 18 Tru-Gauge™ steel and .050" & .063" aluminum
- Aluminum is recommended within 1000 ft of salt water (*not required*)
- 3' to 32'9" panel lengths (*Inquire for longer or shorter 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 A653/A924 - G-90 Galvanized
- ASTM A792 - ZINCALUME®/Galvalume® AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM D6578 - Anti-Graffiti
- ASTM E283 - Air infiltration (wall)
- ASTM E331 - Water infiltration (wall)
- ASTM E1592 - Structural uniform static air pressure
- ASTM E1646 - Water infiltration (roof)
- ASTM E1680 - Air infiltration (roof)

WEIGHT CHART

IC80-12	TYPE	24 GA STEEL	22 GA STEEL	.032 ALUM	.040 ALUM	ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
THICKNESS		0.0236"	0.0285"	0.032"	0.040"	12 PSF < 0.01 CFM/ft²-PASS	20.5 PSF - Pass
WEIGHT/LINFT	CLIP ATTACH	1.508 LBS	1.984 LBS	0.715 LBS	0.973 LBS	Intertek Test Result L5460.01-901-44 R1	Intertek Test Result L5461.01-901-44 R1
WEIGHT/LSQFT	CLIP ATTACH	1.508 LBS	1.984 LBS	0.715 LBS	0.973 LBS	STRUCTURAL TESTING ASTM E1592	Intertek Test Result: 1" Deep Q2599.13-301-44 R0
WEIGHT/LINFT	SCREW FLANGE	1.40 LBS	1.62 LBS	0.662 LBS	0.794 LBS	1-1/4" Deep M7269.02-301-44 R1	
WEIGHT/LSQFT	SCREW FLANGE	1.40 LBS	1.62 LBS	0.662 LBS	0.794 LBS		

NEGATIVE LOAD CHART WITH CLIP ATTACHMENT

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)								
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Negative Load								
				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	1.34	0.0316	0.0345	0.0407	0.0415	0.0386	0.0626	205.0	186.9	168.8	150.6	132.5	114.4	96.3	78.1	60.0
12	22	50	1.58	0.0402	0.0434	0.0526	0.0513	0.0481	0.0792	190.0	173.1	156.3	139.4	122.5	105.6	88.8	71.9	55.0
12	20	33	1.93	0.0591	0.0624	0.0814	0.0704	0.0671	0.1151	190.0	173.1	156.3	139.4	122.5	105.6	88.8	71.9	55.0
12	18	33	2.51	0.0860	0.0892	0.1237	0.0970	0.0938	0.1657	190.0	173.1	156.3	139.4	122.5	105.6	88.8	71.9	55.0

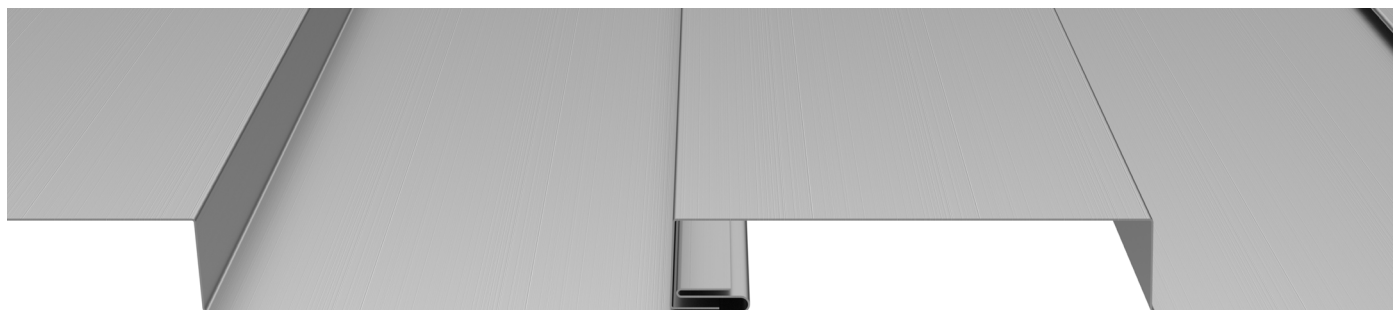
- Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek M7269.02-301-44 R0
- Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
 - Open-Framing (i.e. purlins)-16ga (design thickness 0.0566")
 - Plywood/OSB-15/32" or thicker is recommended to assure an effective degree of fastener thread engagement.
 - METAL DECK - 22ga (design thickness 0.0283")

POSITIVE LOAD CHART WITH CLIP ATTACHMENT

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Positive Load									
				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	1.34	0.0316	0.0345	0.0407	0.0415	0.0386	0.0626	270.0	135.0	90.0	63.6	40.7	28.3	20.8	15.9	12.6	10.2
12	22	50	1.58	0.0402	0.0434	0.0526	0.0513	0.0481	0.0792	383.6	191.82	127.88	82.2	52.6	36.5	26.84	20.6	16.2	13.2
12	20	33	1.93	0.0591	0.0624	0.0814	0.0704	0.0671	0.1151	385.5	192.73	128.48	83.9	53.7	37.3	27.41	21.0	16.6	13.4
12	18	33	2.51	0.0860	0.0892	0.1237	0.0970	0.0938	0.1657	664.6	332.3	221.5	127.57	81.64	56.7	41.65	31.89	25.2	20.4

- 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.
- 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.
- 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.