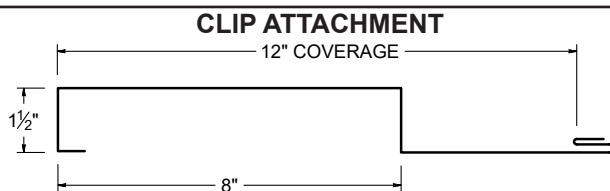




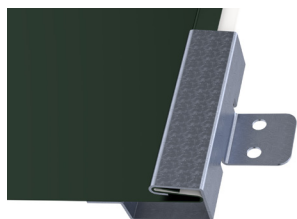
ICC
EVALUATION
SERVICE®

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

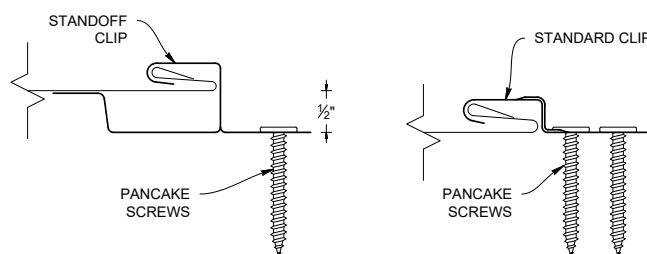
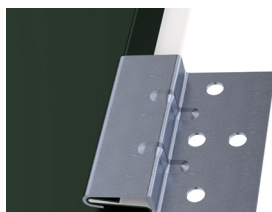


PANEL ATTACHMENT CLIP

STANDOFF CLIP



STANDARD CLIP



KEY FEATURES

- Manufactured in Salem, OR, Sacramento, CA and Riverside, CA
- 12" panel coverage
- 1-1/2" rib height
- 24 Tru-Gauge™ steel & .032" aluminum are standard and attached 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*)
- Seamless runs, fewer runs and less labor
- 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 D66578 - Anti-Graffiti
- ASTM E283 - Air infiltration (wall)
- ASTM E331 - Water infiltration (wall)
- ASTM E1592 - Negative structural uniform static air pressure
- ASTM E1646 - Water infiltration (roof)
- ASTM E1680 - Air infiltration (roof)

WEIGHT CHART

NX-9	WIDTH	24 GA STEEL	22 GA STEEL	20 GA STEEL	18 GA STEEL	.032 ALUM	.040 ALUM	.063 ALUM	.050 ALUM
THICKNESS		0.0236"	0.0285"	0.0356"	0.0466"	0.032"	0.040"	0.063"	0.050"
WEIGHT/LINFT	CLIP ATTACH	1.439 LBS	1.671 LBS	2.171 LBS	2.733 LBS	0.682 LBS	0.820 LBS	1.291 LBS	1.065 LBS
WEIGHT/LSQFT	CLIP ATTACH	1.439 LBS	1.671 LBS	2.171 LBS	2.733 LBS	0.682 LBS	0.820 LBS	1.291 LBS	1.065 LBS

ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
12 PSF<0.01 CFM/ft ² -PASS	20.5 PSF - Pass
Intertek Test Result L5461.01-901-44 R1	
STRUCTURAL TESTING ASTM E1592 AND E330	
Intertek Test Result: 1-1/2" Deep Q2599.14-301-44 R0	

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	1.42	0.0742	0.0864	0.0681	0.1162	0.1040	0.1117	125.0	115.6	106.3	96.9	87.5	78.1	68.8	59.4	50.0
12	22	50	1.68	0.0934	0.1080	0.0874	0.1434	0.1289	0.1404	130.0	120.6	111.3	101.9	92.5	83.1	73.8	64.4	55.0
12	20	33	2.05	0.1349	0.1524	0.1333	0.1954	0.1778	0.2006	130.0	120.6	111.3	101.9	92.5	83.1	73.8	64.4	55.0
12	18	33	2.67	0.1950	0.2164	0.2021	0.2690	0.2475	0.2847	130.0	120.6	111.3	101.9	92.5	83.1	73.8	64.4	55.0
12	0.032"	19	0.79	0.2001	0.2001	0.3603	0.2001	0.2001	0.2118	150.0	135.3	120.6	105.9	91.3	76.6	61.9	41.2	32.5
12	0.040"	19	0.96	0.2465	0.2465	0.4442	0.2465	0.2465	0.2609	150.0	135.3	120.6	105.9	91.3	76.6	61.9	41.2	32.5
12	0.050"	19	1.20	0.3030	0.3030	0.5455	0.3030	0.3030	0.3203	190.0	167.8	145.6	123.4	101.3	79.1	56.9	34.7	12.5
12	0.063"	19	1.29	0.3700	0.3700	0.6674	0.3700	0.3700	0.3908	190.0	167.8	145.6	123.4	101.3	79.1	56.9	34.7	12.5

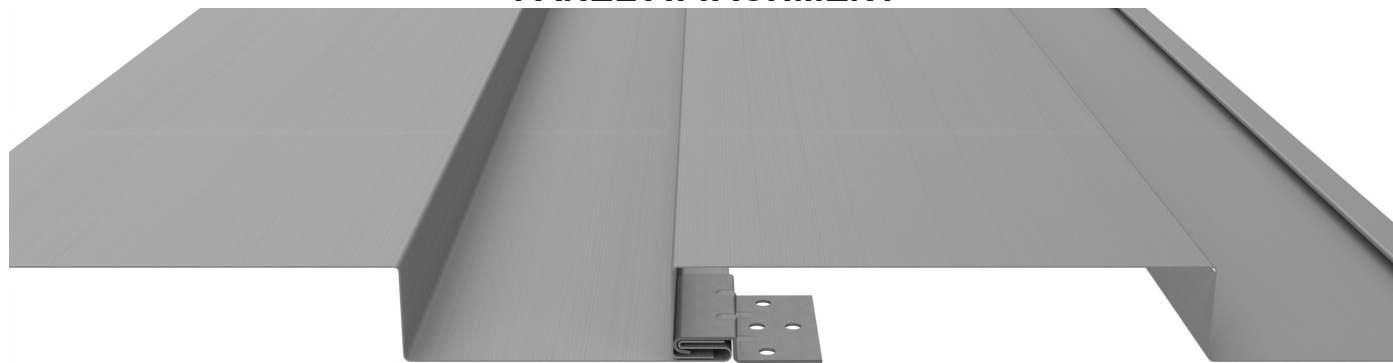
- Theoretical section properties for steel panels have been calculated per AISI S100 Specifications for the design of Cold-Formed Steel Structural Members.
- Charted allowable uniform loads are based on the ultimate uniform load (per ASTM E1592-05 testing) divided by a 2.00 factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
 - Open-Framing (i.e. girts) - 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	1.42	0.0742	0.0864	0.0681	0.1162	0.1040	0.1117	265.5	132.7	88.5	66.4	53.1	44.2	34.7	26.6	21.0	17.0
12	22	50	1.68	0.0934	0.1080	0.0874	0.1434	0.1289	0.1404	378.2	189.09	126.06	94.6	75.6	60.7	44.59	34.1	27.0	21.9
12	20	33	2.05	0.1349	0.1524	0.1333	0.1954	0.1778	0.2006	380.9	190.45	127.0	95.2	76.2	61.1	44.9	34.4	27.2	22.0
12	18	33	2.67	0.1950	0.2164	0.2021	0.2690	0.2475	0.2847	658.2	329.1	219.4	164.6	131.64	92.6	68.05	52.1	41.2	33.4
12	0.032"	19	0.68	0.2001	0.2001	0.3603	0.2001	0.2001	0.2118	89.1	44.6	29.7	22.3	17.8	14.9	12.7	10.4		
12	0.040"	19	0.82	0.2465	0.2465	0.4442	0.2465	0.2465	0.2609	139.1	69.6	46.4	34.8	27.8	23.2	19.9	16.0	12.6	10.2
12	0.050"	19	1.03	0.3030	0.3030	0.5455	0.3030	0.3030	0.3203	217.3	108.6	72.4	54.3	43.5	36.2	31.0	25.0	19.8	16.0
12	0.063"	19	1.29	0.3700	0.3700	0.6674	0.3700	0.3700	0.3908	345.5	172.7	115.2	86.4	69.1	57.6	46.6	35.7	28.2	22.8

- Theoretical section properties for Steel panels have 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.
- The NX-9 panel when installed as a three-span condition with spans of 8ft. on-center for steel and 4ft. on-center for aluminum are capable of withstanding the minimum uniform distributed load of 20psf (0.958 kPa) noted in table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN)

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.

Rev. Date 07-26