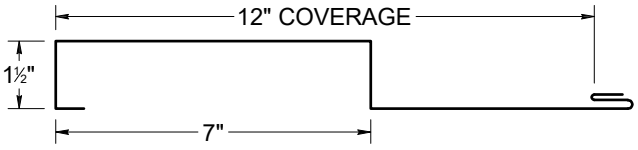
TAYLOR METAL PRODUCTS

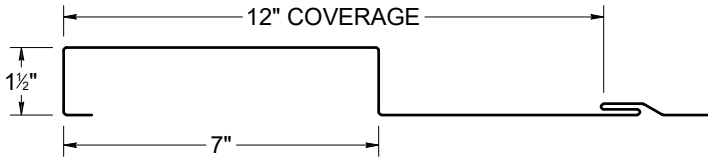
Contour™ Wall Panel System
Trinity Series CT-5
Technical Data Resource

ICC EVALUATION SERVICE® **ICC-ES EVALUATION REPORT #5045 with CBC-CRC Supplement**

SCREW FLANGE ATTACHMENT

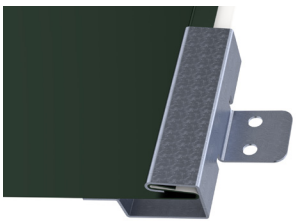


CLIP ATTACHMENT

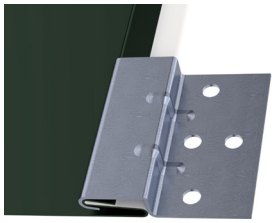


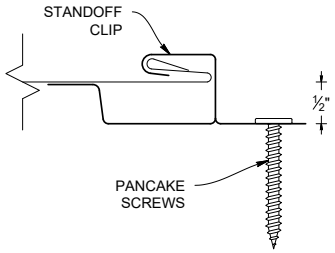
PANEL ATTACHMENT CLIP

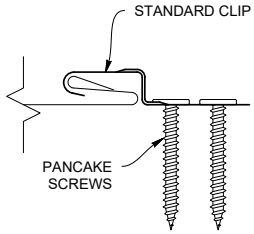
STANDOFF CLIP



STANDARD CLIP







KEY FEATURES

- 12” panel coverage
- 24 ga. Tru-Gauge™ steel and .032” aluminum panels are standard (Attached with a high-performance concealed clip and may be available with an integrated screw flange -- please inquire)
- High performance clips must be used for the following options:
  - 22 ga. steel and .040” aluminum
  - Custom 20 ga. & 18 ga. and 0.50” & .063” aluminum
- 3’ to 20’10” panel lengths. *For longer lengths- Inquire*
- Vertical or Horizontal Wall Application
- Acceptable for use as a soffit panel
- Interchangeable panel widths and configurations
- Manufactured in Salem, OR, Sacramento, CA and Riverside, CA
- 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

CT-5	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	
Intertek Test Result 1” Panel N3050.07-301-44 R0	

NEGATIVE LOAD CHART

				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	0.0297	0.0323	0.0381	0.0387	0.0361	0.0528	175.0	159.4	143.8	128.1	112.5	96.9	81.3	65.6	50.0
12	22	50	1.53	0.0385	0.0419	0.0512	0.0503	0.0469	0.0714	167.5	152.8	138.1	123.4	108.8	94.1	79.4	64.7	50.0
12	20	33	1.87	0.0569	0.0614	0.0801	0.0723	0.0678	0.1100	167.5	152.8	138.1	123.4	108.8	94.1	79.4	64.7	50.0
12	18	33	2.43	0.0830	0.0885	0.1227	0.1018	0.0963	0.1624	167.5	152.8	138.1	123.4	108.8	94.1	79.4	64.7	50.0

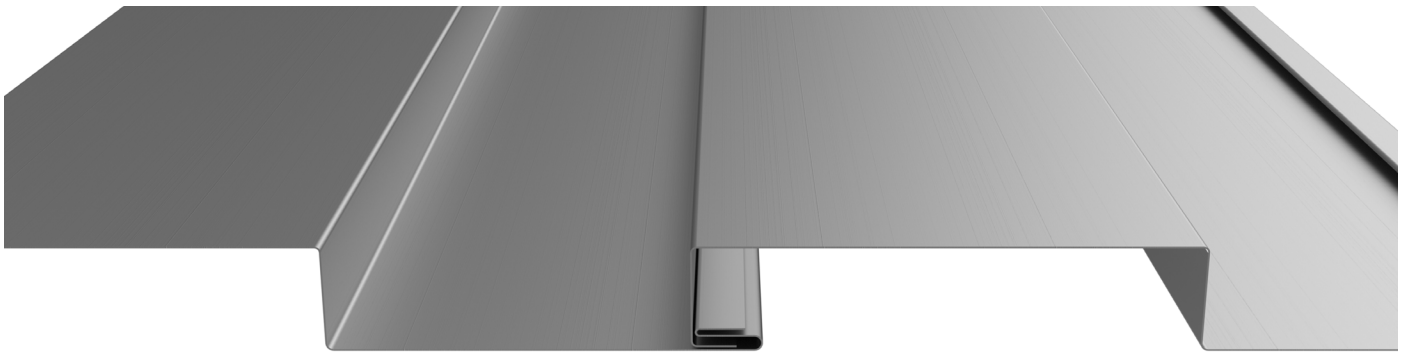
1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek 1" Panel N3050.07-301-44 R0
2. Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
3. Minimum recommended 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

				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	0.0297	0.0323	0.0381	0.0387	0.0361	0.0528	358.2	179.1	105.9	59.6	38.1	26.5	19.5	14.9	11.8	
12	22	50	1.53	0.0385	0.0419	0.0512	0.0503	0.0469	0.0714	388.2	194.1	129.4	80.0	51.2	35.5	26.1	20.0	15.8	12.8
12	20	33	1.87	0.0569	0.0614	0.0801	0.0723	0.0678	0.1100	386.4	193.2	128.8	83.4	53.4	37.1	27.2	20.9	16.5	13.4
12	18	33	2.43	0.0830	0.0885	0.1227	0.1018	0.0963	0.1624	665.5	332.7	221.8	127.8	81.8	56.8	41.7	32.0	25.3	20.5

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.

Rev. Date 12-25