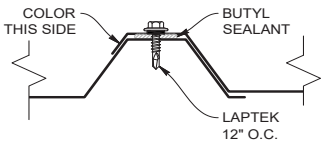
TAYLOR METAL PRODUCTS

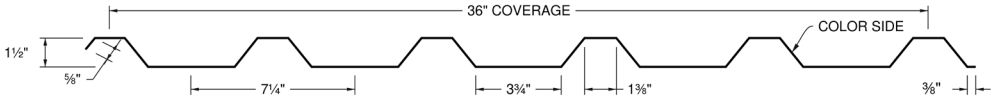
BR-36™ Roof & Wall Panel Technical Data Resource

ICC EVALUATION SERVICE® **ICC-ES EVALUATION REPORT #5045 AND #5046 with CBC-CRC Supplement**

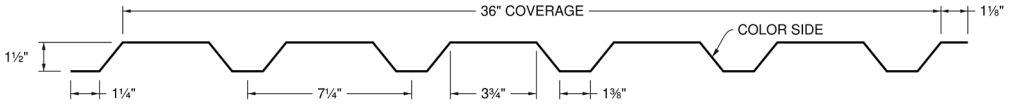
LAP DETAIL



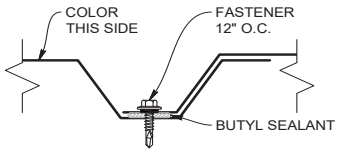
Roof Profile



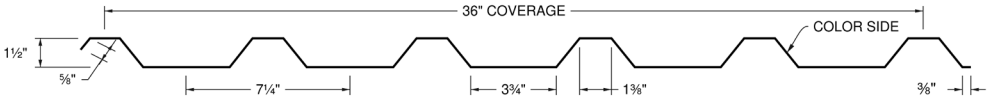
Wall Profile Option A



LAP DETAIL



Wall Profile Option B



KEY FEATURES

- Manufactured in Salem OR, Sacramento CA, and Riverside CA
- 36'' Coverage option
- 24 & 22 Tru-Gauge™ and .032" & .040" aluminum (*Inquire about aluminum*)
- Aluminum recommended within 1000 ft of salt water (*not required*)
- 1:12 minimum pitch recommended when installed with butyl sealant
- Custom lengths 4' to 20' 6" (*For longer length panels, please inquire*)
- Long length flashings available up to 20' 11"
- Standard trim, custom trim and accessory packages available
- Color matched neoprene washered screws
- Roof and Vertical or Horizontal Wall application
- Stuctural panel that will span up to 5'
- OverEZee™ Retro-fit systems available

TESTING

- ICC-ESR #5045 & #5046 with CBC-CRC Supplement
- Code compliance UL Evaluation Report UL ER #25913-01. Construction No. 726, 727
- UL 580 Class 90 - Wind Uplift
- UL 790 Class A (ASTM E108) - Fire rated
- UL 2218 Class 4 - Impact (hail) rated
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM E1592 - Negative structural uniform static air pressure
- ASTM E330 - Positive structural uniform static air pressure
- ASTM E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - ZINCALUME®/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate

WEIGHT CHART

BR-36	WIDTH	24 GA STEEL	22 GA STEEL	.032 ALUM	.040 ALUM
THICKNESS		0.0236"	0.0285"	0.032"	0.040"
WEIGHT/LINFT	36"	3.851 LBS.	4.651 LBS	1.825 LBS	2.281 LBS
WEIGHT/LSQFT	36"	1.284 LBS	1.550 LBS	0.608 LBS	0.760 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 M3025.01-901-44	
Intertek Test Result M3025.01-901-44	
STRUCTURAL TESTING ASTM E1592 AND E330	
Intertek Test Result M2748.01-301-44 R1	

TAYLOR METAL PRODUCTS

NEGATIVE LOAD CHART WITH 3 SCREWS

				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'
36	24	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	137.5	122.1	106.7	91.3	75.8	60.4	45.0
36	22	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	100.0	90.0	80.0	70.0	60.0	50.0	40.0
36	20	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	100.0	89.8	79.7	69.5	59.3	49.2	39.0
36	18	33	2.11	0.2600	0.2474	0.2770	0.2167	0.2293	0.3083	100.0	89.8	79.7	69.5	59.3	49.2	39.0
36	0.032"	19	0.52	0.1867	0.1867	0.2000	0.1867	0.1867	0.3250	55.0	51.7	48.3	45.0	41.7	38.3	35.0
36	0.040"	19	0.65	0.2330	0.2330	0.2490	0.2330	0.2330	0.4037	75.0	69.2	63.3	57.5	51.7	45.8	40.0
36	0.050"	19	0.78	0.3093	0.3093	0.5000	0.3093	0.3093	0.4263	75.0	69.2	63.3	57.5	51.7	45.8	40.0

1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek M2748.03-301-44 R1
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 WITH 3 SCREWS

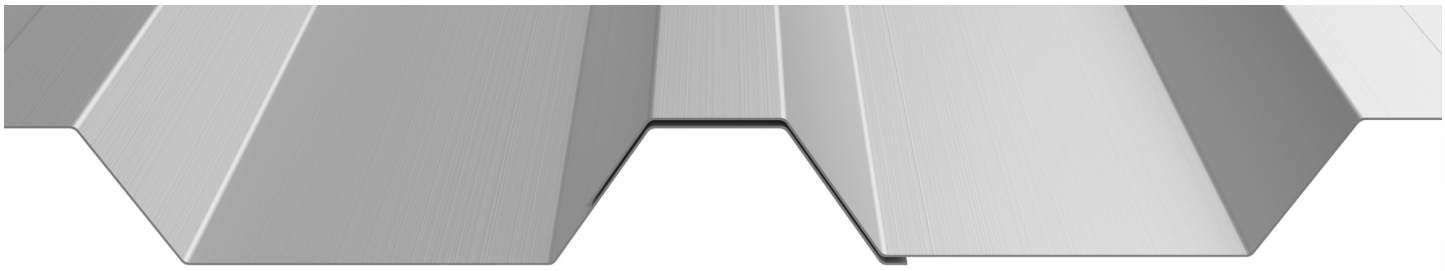
				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
				Topin Compression			Bottom in Compression			Positive Load									
Width, in.	Gauge	Yield ksi	Weight psf	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'	8'
36	24	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	490.0	392.0	280.6	206.1	157.8	124.7	101.0	83.5	70.1	39.5
36	22	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	676.8	520.0	361.1	265.3	203.1	160.5	130.0	107.4	90.3	50.8
36	20	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	656.8	514.8	357.5	262.7	201.1	158.9	128.7	106.4	89.4	50.3
36	18	33	2.11	0.2600	0.2474	0.2770	0.2167	0.2293	0.3083	1086.4	731.3	507.8	373.1	285.7	225.7	182.8	151.1	127.0	71.4
36	0.032"	19	0.52	0.1867	0.1867	0.2000	0.1867	0.1867	0.3250	106.7	68.3	47.4	34.8	26.7	21.1	17.1	14.1	11.9	6.7
36	0.040"	19	0.65	0.2330	0.2330	0.2490	0.2330	0.2330	0.4037	128.2	102.6	73.8	54.2	41.5	32.8	26.6	22.0	18.4	10.4
36	0.050"	19	0.78	0.3093	0.3093	0.5000	0.3093	0.3093	0.4263	200.0	160.0	114.4	84.1	64.4	50.9	41.2	34.1	28.6	16.1

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.

FASTENER DIAGRAM



PANEL ATTACHMENT



Fastener Notes:

- When possible, lap panels away from prevailing wind direction.
- 15/32" OSB: #14 GP Neoprene Washered fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".
- 15/32" Plywood: #14 GP Neoprene Washered 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: #12 Fastener with DP-1
- Sidelaps fasten with #14 LapTek screws.
- All trim screws used for roof or wall applications should have EPDM sealing washers.
- Fastener spacing is based on project specific structural requirements. Consulant a licensed engineer.

NEGATIVE LOAD CHART WITH 5 SCREWS

				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'
36	24	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	200.0	179.2	158.3	137.5	116.7	95.8	75.0
36	22	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	200.0	180.0	160.0	140.0	120.0	100.0	80.0
36	20	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	170.0	153.1	136.2	119.3	102.3	85.4	68.5
36	18	33	2.11	0.2600	0.2474	0.2770	0.2167	0.2293	0.3083	170.0	153.1	136.2	119.3	102.3	85.4	68.5
36	0.032"	19	0.52	0.1867	0.1867	0.2000	0.1867	0.1867	0.3250	135.0	122.7	110.3	98.0	85.7	73.3	61.0
36	0.040"	19	0.65	0.2330	0.2330	0.2490	0.2330	0.2330	0.4037	171.0	150.8	130.7	110.5	90.3	70.2	50.0
36	0.050"	19	0.78	0.3093	0.3093	0.5000	0.3093	0.3093	0.4263	171.0	150.8	130.7	110.5	90.3	70.2	50.0

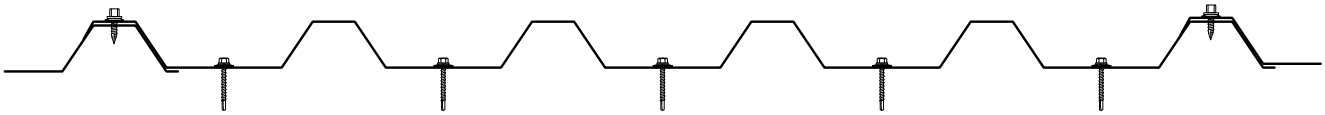
1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek M2748.01-301-44 R1
2. Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
3. Minimum recommended substrate (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 WITH 5 SCREWS

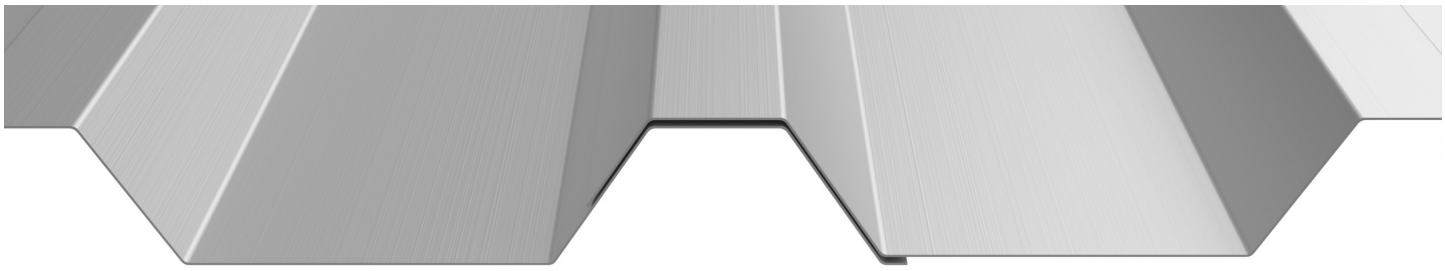
				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
				Topin Compression			Bottom in Compression			Positive Load									
Width, in.	Gauge	Yield ksi	Weight psf	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	I_{xx} $in^4/ft.$	$I_{xx\ (eff)}$ $in^4/ft.$	S_{xx} in^3/ft	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'	8'
36	24	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	490.0	392.0	280.6	206.1	157.8	124.7	101.0	83.5	70.1	39.5
36	22	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	676.8	520.0	361.1	265.3	203.1	160.5	130.0	107.4	90.3	50.8
36	20	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	656.8	514.8	357.5	262.7	201.1	158.9	128.7	106.4	89.4	50.3
36	18	33	2.11	0.2600	0.2474	0.2770	0.2167	0.2293	0.3083	1086.4	731.3	507.8	373.1	285.7	225.7	182.8	151.1	127.0	71.4
36	0.032"	19	0.52	0.1867	0.1867	0.2000	0.1867	0.1867	0.3250	106.7	68.3	47.4	34.8	26.7	21.1	17.1	14.1	11.9	6.7
36	0.040"	19	0.65	0.2330	0.2330	0.2490	0.2330	0.2330	0.4037	128.2	102.6	73.8	54.2	41.5	32.8	26.6	22.0	18.4	10.4
36	0.050"	19	0.78	0.3093	0.3093	0.5000	0.3093	0.3093	0.4263	200.0	160.0	114.4	84.1	64.4	50.9	41.2	34.1	28.6	16.1

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.

FASTENER DIAGRAM



PANEL ATTACHMENT



Fastener Notes:

- When possible, lap panels away from prevailing wind direction.
- 15/32" OSB: #14 GP Neoprene Washered fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".
- 15/32" Plywood: #14 GP Neoprene Washered 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: #12 Fastener with DP-1
- Sidelaps fasten with #14 LapTek screws.
- All trim screws used for roof or wall applications should have EPDM sealing washers.
- Fastener spacing is based on project specific structural requirements. Consulant a licensed engineer.