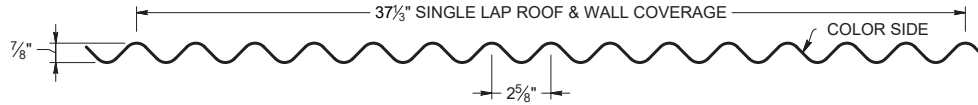




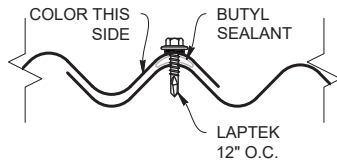
ICC
EVALUATION
SERVICE®

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

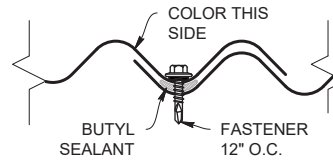
ROOF & WALL PROFILE



ROOF LAP DETAIL





WALL LAP DETAIL



KEY FEATURES

- 24 and 22 Tru-Gauge™ and .032" and .040" Aluminum
- 1:12 minimum pitch recommended when installed with butyl sealant
- Custom lengths 1' to 45' (*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
- Fiberglass panels available to match profile
- Manufactured in Riverside CA
- 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. 649
- 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

CA 7/8 CORR	WIDTH	24 GA STEEL	22 GA STEEL	.032 ALUM	.040 ALUM
THICKNESS		0.0236"	0.0285"	0.032"	0.040"
WEIGHT/LINFT	37 1/3"	3.851 LBS.	4.651 LBS	1.825 LBS	2.281 LBS
WEIGHT/LSQFT	37 1/3"	1.238 LBS	1.495 LBS	0.587 LBS	0.733 LBS

ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
25 PSF<0.01 CFM/ft²-PASS	50 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 M1352.01-301-44 R0	

NEGATIVE LOAD CHART WITH 5 SCREWS

Width, in. Gauge Yield ksi Weight psf				SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)						
				Top in Compression		Bottom in Compression		Negative Load						
				I_{xx} in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5'	4'	4.5'	5'
36	26	80	1.02	0.0250	0.0570	0.0250	0.0570	110.0	100.4	90.8	81.3	71.7	62.1	52.5
36	24	50	1.33	0.0240	0.0777	0.0240	0.0777	117.5	108.3	99.2	90.0	80.8	71.7	62.5
36	22	50	1.73	0.0400	0.0914	0.0400	0.0914	150.0	135.4	120.8	106.3	91.7	77.1	62.5
36	0.032"	19	0.451	0.0450	0.1030	0.0450	0.1030	55.0	50.8	46.7	42.5	38.3	34.2	30.0

- 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
- 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 5 SCREWS

Width, in. Gauge Yield ksi Weight psf				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)								
				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.	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'
36	26	80	1.02	0.0250	0.0250	0.0570	0.0250	0.0250	0.0570	356.3	228.0	158.3	116.3	89.1	70.4	57.0		
36	24	50	1.33	0.0240	0.0240	0.0777	0.0240	0.0240	0.0777	485.6	310.8	215.8	158.6	121.4	95.9	77.7	64.2	54.0
36	22	50	1.73	0.0400	0.0400	0.0914	0.0400	0.0400	0.0914	571.3	365.6	253.9	186.5	142.8	112.8	91.4	75.5	63.5
36	0.032"	19	0.451	0.0450	0.0450	0.1030	0.0450	0.0450	0.1030	244.6	156.6	108.7	79.9	61.2	48.3			

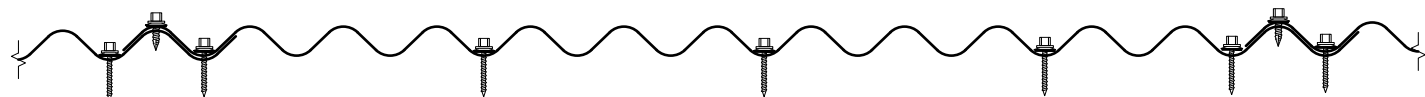
- Theoretical section properties for Steel panel have been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- When panels are installed over solid or closely fitted sheathing, the capacity is limited to the capacity of the underlying sheathing.

ROOFING INSTALL

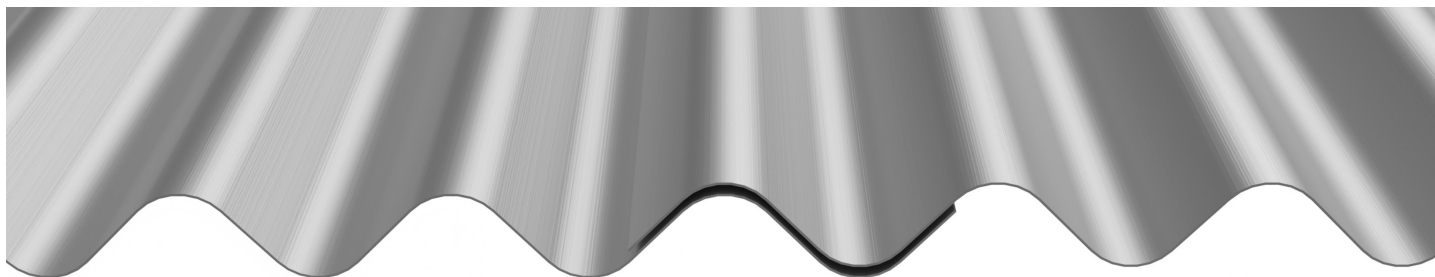
FASTENER DIAGRAM



SIDING INSTALL



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. Consult a licensed engineer.

NEGATIVE LOAD CHART WITH 7 SCREWS

Width, in. Gauge Yield ksi Weight psf				SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)							
				Top in Compression		Bottom in Compression		Negative Load							
				I_{xx} in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5'	4'	4.5'	5'	
36	26	80	1.02	0.0250	0.0570	0.0250	0.0570	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5
36	24	50	1.33	0.0240	0.0777	0.0240	0.0777	162.5	108.3	99.2	90.0	80.8	71.7	75.0	
36	22	50	1.73	0.0400	0.0914	0.0400	0.0914	175.0	159.2	143.3	127.5	111.7	95.8	80.0	
36	0.032"	19	0.451	0.0450	0.1030	0.0450	0.1030	175.0	155.0	135.0	115.0	95.0	75.0	55.0	

- 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
- 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")
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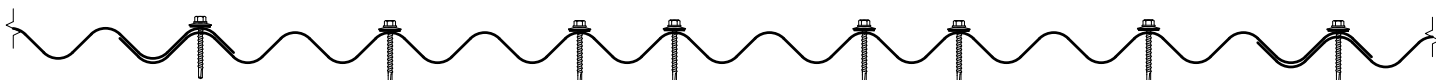
POSITIVE LOAD CHART WITH 7 SCREWS

Width, in. Gauge Yield ksi Weight psf				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)								
				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.	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'
36	26	80	1.02	0.0250	0.0250	0.0570	0.0250	0.0250	0.0570	356.3	228.0	158.3	116.3	89.1	70.4	57.0		
36	24	50	1.33	0.0240	0.0240	0.0777	0.0240	0.0240	0.0777	485.6	310.8	215.8	158.6	121.4	95.9	77.7	64.2	54.0
36	22	50	1.73	0.0400	0.0400	0.0914	0.0400	0.0400	0.0914	571.3	365.6	253.9	186.5	142.8	112.8	91.4	75.5	63.5
36	0.032"	19	0.451	0.0450	0.0450	0.1030	0.0450	0.0450	0.1030	244.6	156.6	108.7	79.9	61.2	48.3			

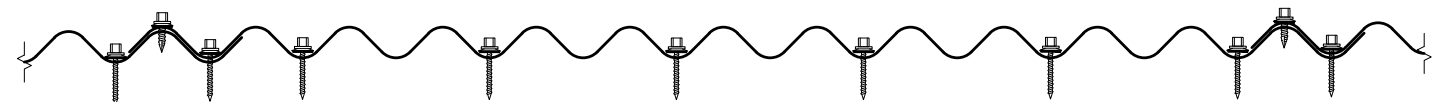
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ROOFING INSTALL

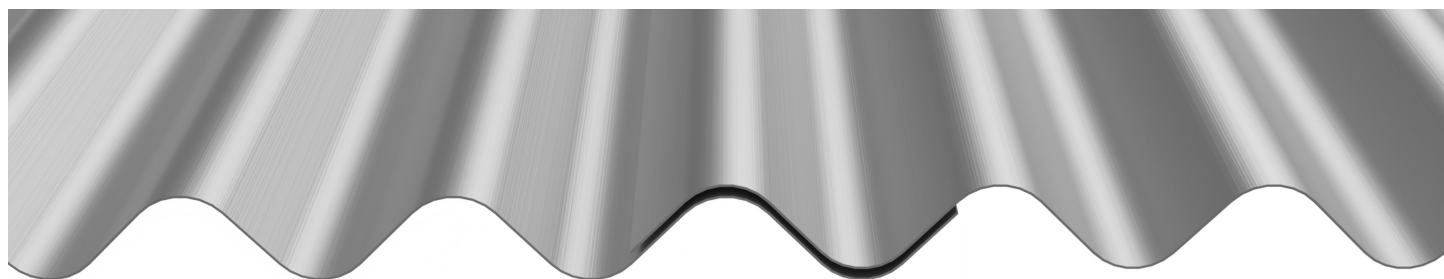
FASTENER DIAGRAM



SIDING INSTALL



PANEL ATTACHMENT



Fastener Notes:

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- 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. Consult a licensed engineer.

Rev. Date 09-24