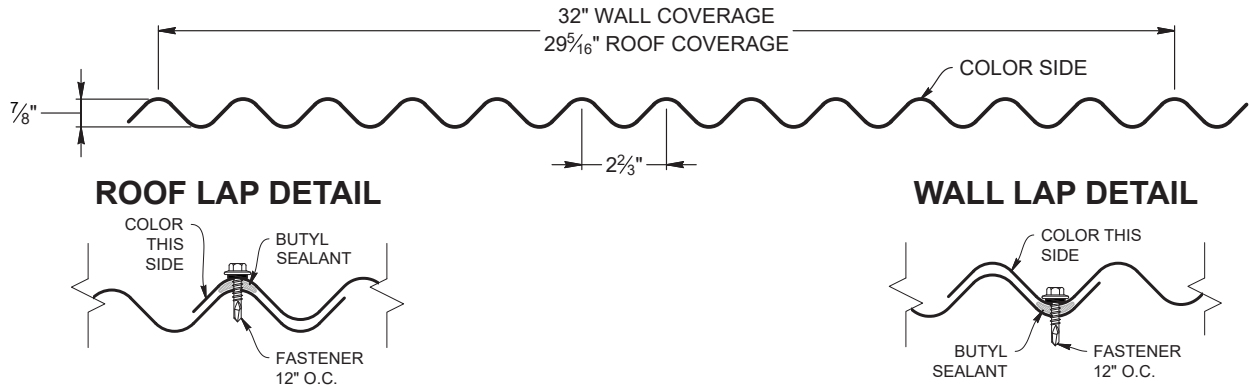




ICC-ES EVALUATION REPORT #5045 AND #5046 with CBC-CRC Supplement



### ROOF & WALL PROFILE



### KEY FEATURES

- 29, 26 and 24 Tru-Gauge™
- 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 Spokane WA
- 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® Plus/Galvalume® AZ-50/55
- ASTM B209 - Aluminum Substrate

### WEIGHT CHART

7/8 Classic Corr	WIDTH	29 GA STEEL	26 GA STEEL	24 GA STEEL
THICKNESS		0.0136"	0.019"	0.0236"
WEIGHT/LINFT	32"	2.018 LBS	2.777 LBS	3.502 LBS
WEIGHT/LSQFT	32"	0.757 LBS	1.042 LBS	1.313 LBS
WEIGHT/LINFT	29-5/16"	2.018 LBS	2.968 LBS	3.502 LBS
WEIGHT/LSQFT	29-5/16"	0.826 LBS	1.215 LBS	1.434 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 M3027.01-901-44	
Intertek Test Result M3027.01-901-44	
STRUCTURAL TESTING ASTM E1592 AND E330	
Intertek Test Result M2748.03-301-44 R1	

## 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							
				$I_{xx}$ in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /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")

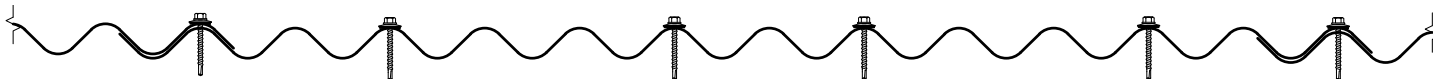
## POSITIVE LOAD CHART WITH 5 SCREWS

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 <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /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				

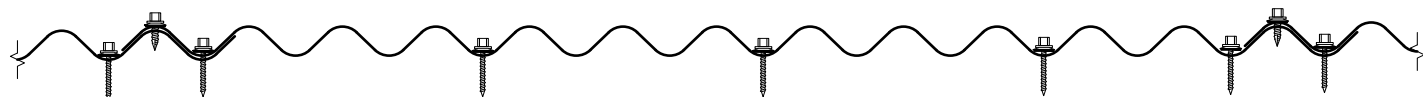
- Theoretical section properties for Steel panel have been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined 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

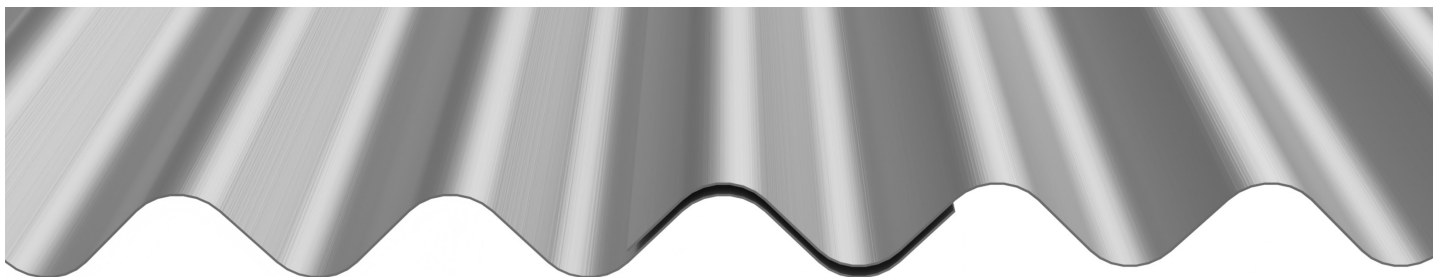
### FASTENER DIAGRAM



### 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 <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /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
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")
  - 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 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 <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /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			

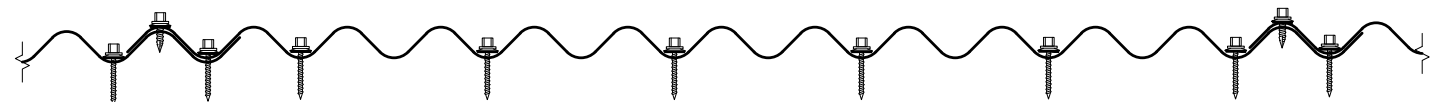
- Theoretical section properties for Steel panel shave been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending , shear, 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.

### ROOFING INSTALL

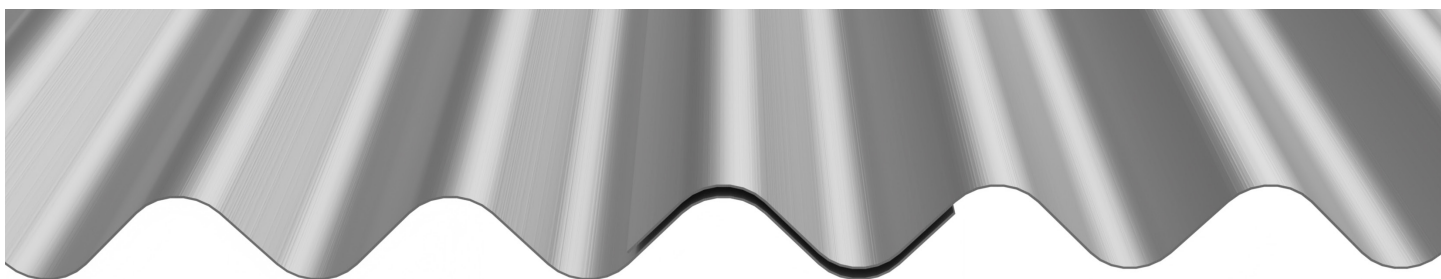
### FASTENER DIAGRAM



### 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.

Rev. Date 04-26