



29 Gauge

Technical/Installation Information

IMPORTANT NOTICE

READ THIS MANUAL COMPLETELY PRIOR TO BEGINNING THE INSTALLATION OF THE 29 GAUGE LOW PROFILE PANELS PANELS. THE MANUFACTURER DETAILS MUST BE FOLLOWED AS A MINIMUM TO INSURE APPROPRIATE WARRANTIES WILL BE ISSUED.

ALWAYS INSPECT EACH AND EVERY PANEL AND ALL ACCESSORIES BEFORE INSTALLATION. NEVER INSTALL ANY PRODUCT IF ITS QUALITY IS IN QUESTION. NOTIFY ABC IMMEDIATELY IF ANY PRODUCT IS BELIEVED TO BE OUT OF TOLERANCE, SPECIFICATION OR HAS BEEN DAMAGED DURING SHIPMENT.

IF THERE IS A CONFLICT BETWEEN PROJECT INSTALLATION DRAWINGS PROVIDED OR APPROVED BY THE MANUFACTURER AND DETAILS IN THIS MANUAL, PROJECT INSTALLATION DRAWINGS WILL TAKE PRECEDENCE.

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The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. In a continuing effort to refine and improve products, ABC reserves the right to discontinue products at any time or change specifications and/or designs without incurring obligations. To ensure you have the latest information available, please inquire or visit our website at www.abcmetalroofing.com. Application details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs, or panel profiles. Projects should be engineered to conform to applicable building codes, regulations, and accepted industry practices. Insulation is not shown in these details for clarity.

For complete performance specifications, product limitations, and disclaimers, please consult ABC's Paint and Galvalume Plus® warranties. Upon receipt of payment in full, these warranties are available upon request for all painted or Galvalume Plus® prime products. Sample copies can be found at www.abcmetalroofing.com or contact your local ABC Sales Representative.

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PRODUCT INFORMATION

PANEL PRICING:

1. All 36" coverage panels are based on 38" sheet widths. All 24" coverage panels are based on 26" sheet widths. (Coverage width +/- 1/8" tolerance.
2. Add \$1.05 per sheet for lengths 4' - 0" and under.
3. Sheets may be ordered in 1/2" increments.

NOTE: Panels are cut and billed to the inch. Length tolerance is +/- 1/8".

PACKAGING COST:

1. Maximum 3,000 pounds or 75 panels per bundle.
2. Block and band only \$10.00
3. Block and band, waterproof paper wrap \$1.40/Linear foot
4. Block and band, waster sheet top only \$1.60/Linear foot
5. Block and band, waster sheet top and bottom..... \$2.80/Linear foot
6. LTL Package - block and band, waster sheet top and bottom, angle board sides and ends.....\$3.50/Linear foot
7. Export Package - block and band, waster sheet top and bottom, steel and wood boxed Special Order Only

FREIGHT: all prices are F.O.B. shipping point

FREIGHT CHARGES: Full T.L. or Pool T/L

1. Freight on LTL shipments will be charged at the applicable commercial rate.
2. Stopover charge (for unloading delay in excess of 1 1/2 hrs., charged in 1/2 hr. increments)... \$90.00 per hour.
3. Minimum charge for deliveries under \$250.00 in value \$50.00.
4. Job site delivery \$75.00 Minimum.
5. Spider delivery \$75.00 Minimum. Check for availability.
6. Refer to price sheets for freight charges.
7. UPS charge is based off of UPS rates plus a handling charge.
8. \$250.00 Transfer charge from producing plant.

NOTICE: ABC is pleased to provide job site delivery to our customers. Customers requesting this service must have mechanized means to off-load the material (i.e. - crane, forklift, gin pole). The job site location must be accessible to a vehicle 65' long and weighing up to 80,000 pounds. ABC reserves the right to refuse delivery at job sites where unsafe or impassible terrain or road conditions are present.

PRODUCT INFORMATION

APPLICATION, STORAGE AND HANDLING INFORMATION

SAFETY PRECAUTIONS

Improper unloading and handling of bundles and crates may cause bodily injury or material damage. Use extreme care in the operation of power lifting devices such as cranes and forklifts and follow the safety instructions provided by their manufacturer. Crates, boxes and bundles may be bulky, heavy, or both. The improper or unaided lifting of them may cause bodily injury. The manufacturer is not responsible for bodily injuries or material damage due to improper handling during unloading, storage, or job site placement.

Protective heavy duty gloves should be worn when handling metal panels and trim products. Safety goggles or face shield should be worn while cutting or drilling metal products with power tools. Follow the safety instructions provided by the manufacturer of the power tools.

Use extreme care when walking, sitting, standing, or kneeling on a metal roof to avoid a fall. Panels have a light coating of oil to protect the panels from moisture prior to erection. They can be extremely slippery, as are painted panels, when they are wet. If necessary, remove the oil coating with a non-abrasive detergent and water mixture followed by a clear water rinse. Insure the panels are dry prior to installation.

STORAGE AND HANDLING

To preserve and protect the attractive appearance of American Building Components' roofing and siding from damage caused by moisture, corrosive chemicals or improper handling, it is necessary that you take a few simple precautions. When material is received bundled, panels should be inspected for moisture. If there is moisture, the panels should be separated and dried. If shipping damage is found, the carrier should be advised and a notation made on the bill of lading.

On job sites, reasonable care should be taken when handling painted surfaces during installation in order to protect the finish. Although the paint coating is tough and provides impact resistance, dragging panels across the surface of one another will almost certainly mar the finish.

Prolonged storage of sheets in bundles is not recommended. If conditions do not permit immediate erection, extra care must be taken to protect the material from damage caused by moisture.

Store bundled sheets **ONLY IN A DRY PLACE**. Sheets should be unbundled, stood on end against an interior wall to allow for air circulation. If unable to store sheets in an upright position, strapping bands should be broken and sheets should be blocked off the floor with one end slightly elevated. Stacked sheets should then be completely protected from the elements while maintaining good airflow to prevent condensation. A properly draped canvas tarpaulin, that allows air flow, is an example of a good protective cover. Do not use plastic as it causes sweating or condensation to occur.

BUILDING DESIGN AND CONSTRUCTION It is important to protect metal panels from potentially corrosive situations and materials. This will insure the good performance and long life of the metal. If installing metal panels over green lumber, damp lumber, or treated lumber (CCA or ACQ), a barrier must be installed to separate the wood from the metal. A barrier may be formed with plastic, builders felt, or other suitable material. Avoid contact with, or water runoff from, dissimilar metals such as copper, lead or graphite. Dissimilar metals under the roof panels may be separated with asphalt, builders felt, caulking compounds or gasket material.

Metal panels must further be protected from contact with strong chemicals such as fertilizers, lime acids, animal waste and soil. All of these have the potential to initiate corrosion in metal panels. Metal panels should not be in permanent contact with soil.

Temperature variations (dew point) between the outside air and the interior building air mass can cause condensation to occur on the inside of the building on the panel's surfaces. Proper venting and air flow consideration and the use of a vapor barrier such as vinyl backed insulation can eliminate this problem. If left unattended, condensation can cause the premature degradation of the metal and void any applicable warranties.

The substructure, on which the panels are to be installed, must be "on plane" (1/4" tolerance) from eave to edge. Maximum recommended panel length is 36'; minimum panel length is 3'.

PRODUCT INFORMATION

VENTILATION

Sufficient air movement should be provided by means of a ridge or rotary vent, power operated fans, or other openings to minimize condensation. Contact the equipment manufacturer for specific information or a qualified mechanical engineer.

ROOFING INSTALLATION

THE MINIMUM roof slope recommended is 3 inches of rise per foot. This ensures that sufficient slope is present for adequate drainage. A quality sealant tape should also be applied at all sidelaps and endlaps to provide maximum weather protection.

The recommended industry standard endlap based on the roof slope is as follows:
UNDER 4 INCHES OF RISE... 9 INCHES OF LAP 4-6 INCHES OF RISE.. 6 INCHES OF LAP

To provide a drip edge at the eave, a minimum of three inches of overhang is recommended.

It is important to remember that in the installation of roof sheets, the sidelaps should face away from the direction of the prevailing wind. The first sheet should be installed square with the eave and at the down-wind end of the roof, (farthest from the prevailing direction of the wind).

NOTE: Panels are not symmetrical side to side; observe correct sidelap procedure for each panel profile.

For the proper application of nails and screws refer to our published guide.

Remember to sweep the roof clean of any metal filings created from fastener placement or cutting of panels to prevent rust marks on the surface of the panels.

CLOSURE AND SEALANTS To help protect the contents of any structure from moisture, regardless of building size or roof slope, closure strips should be used at the roof ridge and eave. Sealant tape should be applied to top and bottom of closure strips.

Closure strips are available to match all of our panel profiles. For maximum protection, all caulking used should be urethane. **Silicone caulks are not recommended for panels and trims.**

CUTTING METAL PANELS A portable profile shear is especially recommended for across-the-profile cutting of metal panels. ABC also recommends the use of power shears, nibblers or hand snips that can follow the contour of the panel's profile.

Never cut the exposed end of a metal panel with a metal or abrasive saw. This will melt the Galvalume® coating, causing premature rusting at the cut edge.

PANEL SELECTION

ABC's bare galvanized, bare Galvalume®, Galvalume Plus® and color coated products are produced from material that meets or exceeds the specifications outlined in ASTM-653 and ASTM-792.

If you choose a bare Galvalume®, Galvalume Plus® or galvanized panel for your applications, you should be aware that these products are recommended for applications where aesthetic appearance is not your prime concern. Unpainted products may not weather uniformly and while they may be shiny and bright when new, they will fade or "patina" with age. Acid rain and other corrosive atmospheres, as well as the accumulation of airborne debris and dirt, will affect this aging process and the products' appearance.

If aesthetic appearance is one of your concerns, ABC recommends you select one of our many color coated panel selections that carry a forty year limited warranty. Copies of ABC's color coated panel warranty are available at your point of purchase or from the ABC office located nearest to you.

Failure to comply with these precautions relieves the manufacturer of responsibility for any resultant damage to, or deteriorations of the product and may void any applicable warranties. Contact your local ABC facility for copies of our Limited Color Coated and Galvalume® warranties. Except as outlined in our published limited warranties, ABC makes no warranty, express or implied, limited or otherwise, as to the merchantability or fitness for any particular purpose, with respect to the product sold.

PRODUCT INFORMATION

CONDENSATION CONTROL WITH DRIPSTOP

When the temperature and humidity conditions reach the dew point, moisture can condense on the underside of metal roofing. This condensation has the potential to cause water damage and other problems inside your building.

PROTECT YOUR ASSETS ABC Metal Roofing now offers an internationally patented CCM (Condensation Control Membrane) that can be pre-applied to our industry leading Imperial Rib metal panel. This innovative product works by creating a medium for trapping moisture in the specially designed pockets formed within the felt's membrane. Holding moisture until conditions go back below the dew point, **Drip Stop** is then able to release the moisture back into the air in the form of normal humidity.



IMPORTANT INSTALLATION INSTRUCTIONS:

- Panel overhang at eave - panel overhang + 1"
- Panel end laps - length of lap minus ¼"
- Eave, rake and ridge trim laps - length of lap minus ¼"

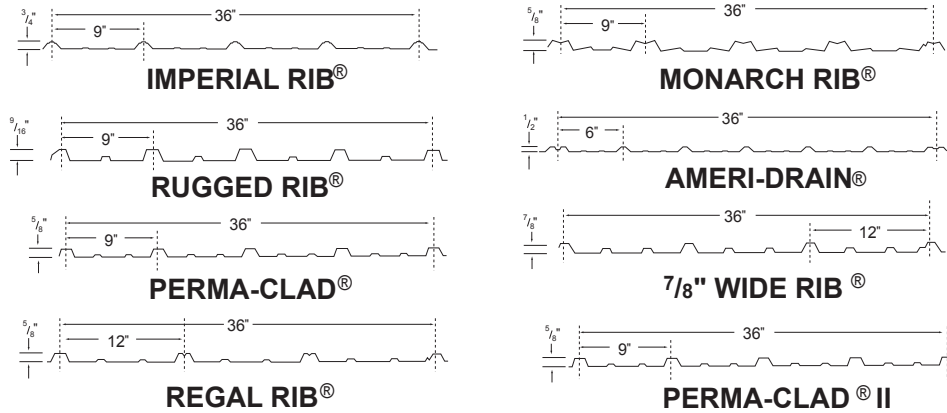
1. Lay panels or trim with Drip Stop Condensation Control material facing up.
2. Using a heat gun, move the gun along the exposed end lap or eave portion or trim of the end lap, heating/fusing the fibers of the Drip Stop.
 - Hold the heat gun approximately 1" away from the Drip Stop material.
 - Keep the heat gun in constant motion to avoid overheating one spot, potentially damaging the panel's finish on the exterior side.
 - Do not completely melt the Drip Stop material.
 - Do not extend fusing past the lap area of the panel or trim.
3. Allow panels/trim to cool.
4. Install panels/trim as normal.

Failure to properly prepare panels and/or trim may result in the Drip Stop material attracting water from outside, resulting in possible leaks, mold and/or mildew —ultimately voiding your panel warranty.

- Money saving (up to 25% versus traditional solutions)
- Durability (Isn't susceptible to ripping, tearing or deterioration like standard insulation and vapor barriers)
- Easy to clean (with hose or pressure washers)
- Time saving (no need to roll a vapor barrier over the purlins, then seal and rollout insulation on top of that)
- Easy handling Approved for use in animal confinement
- UL 723 Approved for flame spread and smoke generation for insurance
- 20 year adhesion warranty
- Reduces exterior noise

FOR ALL POINTS OF EXPOSURE TO OUTSIDE ENVIRONMENT, THE PANELS AND/OR TRIM SHOULD BE PREPARED AS NOTED BELOW:

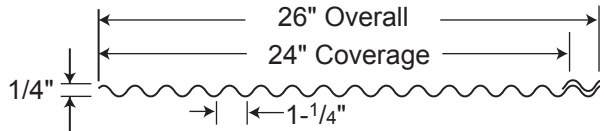
PRODUCT INFORMATION



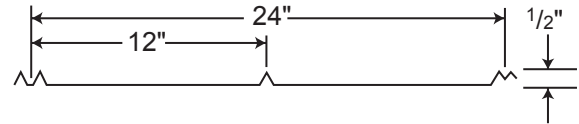
NUMBER OF SQUARE FEET PER PANEL

	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
1 FT.	3.17	3.43	3.69	3.96	4.22	4.49	4.75	5.01	5.28	5.54	5.81	6.07
2 FT.	6.33	6.60	6.86	7.12	7.39	7.65	7.92	8.18	8.44	8.71	8.97	9.24
3 FT.	9.50	9.76	10.03	10.29	10.56	10.82	11.08	11.35	11.61	11.87	12.14	12.40
4 FT.	12.67	12.93	13.19	13.46	13.72	13.99	14.25	14.51	14.78	15.04	15.31	15.57
5 FT.	15.83	16.10	16.36	16.62	16.89	17.15	17.42	17.68	17.94	18.21	18.47	18.74
6 FT.	19.00	19.26	19.53	19.79	20.06	20.32	20.58	20.85	21.11	21.37	21.64	21.90
7 FT.	22.17	22.43	22.69	22.96	23.22	23.49	23.75	24.01	24.28	24.54	24.81	25.07
8 FT.	25.33	25.60	25.86	26.12	26.39	26.65	26.92	27.18	27.44	27.71	27.97	28.24
9 FT.	28.50	28.76	29.03	29.29	29.56	29.82	30.08	30.35	30.61	30.87	31.14	31.40
10 FT.	31.67	31.93	32.19	32.46	32.72	32.99	33.25	33.51	33.78	34.04	34.31	34.57
11 FT.	34.83	35.10	35.36	35.62	35.89	36.15	36.42	36.68	36.94	37.21	37.47	37.74
12 FT.	38.00	38.26	38.53	38.79	39.06	39.32	39.58	39.85	40.11	40.37	40.64	40.90
13 FT.	41.17	41.43	41.69	41.96	42.22	42.49	42.75	43.01	43.28	43.54	43.81	44.07
14 FT.	44.33	44.60	44.86	45.12	45.39	45.65	45.92	46.18	46.44	46.71	46.97	47.24
15 FT.	47.50	47.76	48.03	48.29	48.56	48.82	49.08	49.35	49.61	49.87	50.14	50.40
16 FT.	50.67	50.93	51.19	51.46	51.72	51.99	52.25	52.51	52.78	53.04	53.31	53.57
17 FT.	53.83	54.10	54.36	54.62	54.89	55.15	55.42	55.68	55.94	56.21	56.47	56.74
18 FT.	57.00	57.26	57.53	57.79	58.06	58.32	58.58	58.85	59.11	59.37	59.64	59.90
19 FT.	60.17	60.43	60.69	60.96	61.22	61.49	61.75	62.01	62.28	62.54	62.81	63.07
20 FT.	63.33	63.60	63.86	64.12	64.39	64.65	64.92	65.18	65.44	65.71	65.97	66.24
21 FT.	66.50	66.76	67.03	67.29	67.56	67.82	68.08	68.35	68.61	68.87	69.14	69.40
22 FT.	69.67	69.93	70.19	70.46	70.72	70.99	71.25	71.51	71.78	72.04	72.31	72.57
23 FT.	72.83	73.10	73.36	73.62	73.89	74.15	74.42	74.68	74.94	75.21	75.47	75.74
24 FT.	76.00	76.26	76.53	76.79	77.06	77.32	77.58	77.85	78.11	78.37	78.64	78.90
25 FT.	79.17	79.43	79.69	79.96	80.22	80.49	80.75	81.01	81.28	81.54	81.81	82.07
26 FT.	82.33	82.60	82.86	83.12	83.39	83.65	83.92	84.18	84.44	84.71	84.97	85.24
27 FT.	85.50	85.76	86.03	86.29	86.56	86.82	87.08	87.35	87.61	87.87	88.14	88.40
28 FT.	88.67	88.93	89.19	89.46	89.72	89.99	90.25	90.51	90.78	91.04	91.31	91.57
29 FT.	91.83	92.10	92.36	92.62	92.89	93.15	93.42	93.68	93.94	94.21	94.47	94.74
30 FT.	95.00	95.26	95.53	95.79	96.06	96.32	96.58	96.85	97.11	97.37	97.64	97.90
31 FT.	98.17	98.43	98.69	98.96	99.22	99.49	99.75	100.01	100.28	100.54	100.81	101.07
32 FT.	101.33	101.60	101.86	102.12	102.39	102.65	102.92	103.18	103.44	103.71	103.99	104.24
33 FT.	104.50	104.76	105.03	105.29	105.56	105.82	106.08	106.35	106.61	106.87	107.14	107.40
34 FT.	107.67	107.93	108.19	108.46	108.72	108.99	109.25	109.51	109.78	110.04	110.31	110.57
35 FT.	110.83	111.10	111.36	111.62	111.89	112.15	112.42	112.68	112.94	113.21	113.47	113.74
36 FT.	114.00	114.26	114.53	114.79	115.06	115.32	115.58	115.85	116.11	116.37	116.64	116.90
37 FT.	117.17	117.43	117.69	117.96	118.22	118.49	118.75	119.01	119.28	119.54	119.81	120.07
38 FT.	120.33	120.60	120.86	121.12	121.39	121.65	121.92	122.18	122.44	122.71	122.97	123.24
39 FT.	123.50	123.76	124.03	124.29	124.56	124.82	125.08	125.35	125.61	125.87	126.14	126.40
40 FT.	126.67	126.93	127.19	127.46	127.72	127.99	128.25	128.51	128.78	129.04	129.31	129.57

PRODUCT INFORMATION



1-1/4" CORRUGATED
(Not recommended for roofing)



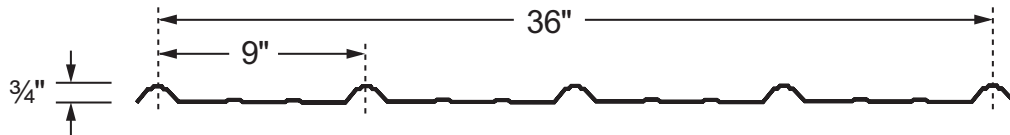
5V CRIMP

NUMBER OF SQUARE FEET PER PANEL

	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
1 FT.	2.17	2.35	2.53	2.71	2.89	3.07	3.26	3.44	3.62	3.80	3.98	4.16
2 FT.	4.34	4.52	4.70	4.88	5.06	5.24	5.43	5.61	5.79	5.97	6.15	6.33
3 FT.	6.51	6.69	6.87	7.05	7.23	7.41	7.60	7.78	7.96	8.14	8.32	8.50
4 FT.	8.68	8.86	9.04	9.22	9.40	9.58	9.77	9.95	10.13	10.31	10.49	10.67
5 FT.	10.85	11.03	11.21	11.39	11.57	11.75	11.94	12.12	12.30	12.48	12.66	12.84
6 FT.	13.02	13.20	13.38	13.56	13.74	13.92	14.11	14.29	14.47	14.65	14.83	15.01
7 FT.	15.19	15.37	15.55	15.73	15.91	16.09	16.28	16.46	16.64	16.82	17.00	17.18
8 FT.	17.36	17.54	17.72	17.90	18.08	18.26	18.45	18.63	18.81	18.99	19.17	19.35
9 FT.	19.53	19.71	19.89	20.07	20.25	20.43	20.62	20.80	20.98	21.16	21.34	21.52
10 FT.	21.70	21.88	22.06	22.24	22.42	22.60	22.79	22.97	23.15	23.33	23.51	23.69
11 FT.	23.87	24.05	24.23	24.41	24.59	24.77	24.96	25.14	25.32	25.50	25.68	25.86
12 FT.	26.04	26.22	26.40	26.58	26.76	26.94	27.13	27.31	27.49	27.67	27.85	28.03
13 FT.	28.21	28.39	28.57	28.75	28.93	29.11	29.30	29.48	29.66	29.84	30.02	30.20
14 FT.	30.38	30.56	30.74	30.92	31.10	31.28	31.47	31.65	31.83	32.01	32.19	32.37
15 FT.	32.55	32.73	32.91	33.09	33.27	33.45	33.64	33.82	34.00	34.18	34.36	34.54
16 FT.	34.72	34.90	35.08	35.26	35.44	35.62	35.81	35.99	36.17	36.35	36.53	36.71
17 FT.	36.89	37.07	37.25	37.43	37.61	37.79	37.98	38.16	38.34	38.52	38.70	38.88
18 FT.	39.06	39.24	39.42	39.60	39.78	39.96	40.15	40.33	40.51	40.69	40.87	41.05
19 FT.	41.23	41.41	41.59	41.77	41.95	42.13	42.32	42.50	42.68	42.86	43.04	43.22
20 FT.	43.40	43.58	43.76	43.94	44.12	44.30	44.49	44.67	44.85	45.03	45.21	45.39
21 FT.	45.57	45.75	45.93	46.11	46.29	46.47	46.66	46.84	47.02	47.20	47.38	47.56
22 FT.	47.74	47.92	48.10	48.28	48.46	48.64	48.83	49.00	49.19	49.37	49.55	49.73
23 FT.	49.91	50.09	50.27	50.45	50.63	50.81	51.00	51.18	51.36	51.54	51.72	51.90
24 FT.	52.08	52.26	52.44	52.62	52.80	52.98	53.17	53.35	53.53	53.71	53.89	54.07
25 FT.	54.25	54.43	54.61	54.79	54.97	55.15	55.34	55.52	55.70	55.88	56.06	56.24
26 FT.	56.42	56.60	56.78	56.96	57.14	57.32	57.51	57.69	57.87	58.05	58.23	58.41
27 FT.	58.59	58.77	58.95	59.13	59.31	59.49	59.68	59.86	60.04	60.22	60.40	60.58
28 FT.	60.76	60.94	61.12	61.30	61.48	61.66	61.85	62.03	62.21	62.39	62.57	62.75
29 FT.	62.93	63.11	63.29	63.47	63.65	63.83	64.02	64.20	64.38	64.56	64.74	64.92
30 FT.	65.10	65.28	65.46	65.64	65.82	66.00	66.19	66.37	66.55	66.73	66.91	67.09
31 FT.	67.27	67.45	67.63	67.81	67.99	68.17	68.36	68.54	68.72	68.90	69.08	69.26
32 FT.	69.44	69.62	69.80	69.98	70.16	70.34	70.53	70.71	70.89	71.07	71.25	71.43
33 FT.	71.61	71.79	71.97	72.15	72.33	72.51	72.70	72.88	73.06	73.24	73.42	73.60
34 FT.	73.78	73.96	74.14	74.32	74.50	74.68	74.87	75.05	75.23	75.41	75.59	75.77
35 FT.	75.95	76.13	76.31	76.49	76.67	76.85	77.04	77.22	77.40	77.58	77.76	77.94
36 FT.	78.12	78.30	78.48	78.66	78.84	79.02	79.21	79.39	79.57	79.75	79.93	80.11
37 FT.	80.29	80.47	80.65	80.83	81.01	81.19	81.38	81.56	81.74	81.92	82.10	82.28
38 FT.	82.46	82.64	82.82	83.00	83.18	83.36	83.55	83.73	83.91	84.09	84.27	84.45
39 FT.	84.63	84.81	84.99	85.17	85.35	85.53	85.72	85.90	86.08	86.26	86.44	86.62
40 FT.	86.80	86.98	87.16	87.34	87.52	87.70	87.89	88.07	88.25	88.43	88.61	88.79

PRODUCT INFORMATION

IMPERIAL RIB® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.361	0.139	0.191	0.0042	0.0115	0.459	0.0079	0.0138	0.596
26	60 *	0.82	0.494	0.249	0.352	0.0061	0.0162	0.664	0.0110	0.0193	0.854

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

- All calculations for the properties of Imperial Rib panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Va = allowable transverse shear per foot of panel width.
- Pa,end = allowable web crippling load at the panel end support per foot of panel width.
- Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
- Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
- Sxe = effective section modulus per foot of panel width at nominal moment capacity.
- Maxo = allowable bending moment based on initiation of yielding.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

IMPERIAL RIB®

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	89.63	57.36	39.83	29.27	22.41	17.70	14.34
	LIVE LOAD/DEFLECTION - L/60	86.43	63.01	43.76	32.15	24.61	19.45	15.75
	LIVE LOAD/DEFLECTION - L/180	86.43	55.19	31.94	20.11	13.47	9.46	6.90
	LIVE LOAD/DEFLECTION - L/240	80.84	41.39	23.95	15.08	10.11	7.10	5.17
2-span	NEGATIVE WIND LOAD	87.64	58.31	41.41	30.86	23.85	18.96	15.43
	LIVE LOAD/DEFLECTION - L/60	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/180	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/240	53.12	42.49	35.41	28.28	21.82	17.34	14.10
3-span	NEGATIVE WIND LOAD	104.87	70.69	50.62	37.92	29.41	23.45	19.12
	LIVE LOAD/DEFLECTION - L/60	60.36	48.29	40.24	34.49	26.97	21.48	17.49
	LIVE LOAD/DEFLECTION - L/180	60.36	48.29	40.24	34.49	26.97	21.48	16.16
	LIVE LOAD/DEFLECTION - L/240	60.36	48.29	40.24	34.49	23.67	16.63	12.12
4-span	NEGATIVE WIND LOAD	99.36	66.68	47.61	35.60	27.58	21.97	17.90
	LIVE LOAD/DEFLECTION - L/60	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/180	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/240	58.10	46.48	38.73	32.69	25.28	17.82	12.99

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	130.57	83.56	58.03	42.63	32.64	25.79	20.89
	LIVE LOAD/DEFLECTION - L/60	156.54	107.62	74.74	54.91	42.04	33.22	26.91
	LIVE LOAD/DEFLECTION - L/180	156.54	87.33	50.54	31.83	21.32	14.97	10.92
	LIVE LOAD/DEFLECTION - L/240	127.92	65.50	37.90	23.87	15.99	11.23	8.19
2-span	NEGATIVE WIND LOAD	156.29	102.57	72.25	53.55	41.24	32.71	26.57
	LIVE LOAD/DEFLECTION - L/60	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/180	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/240	124.77	81.13	56.84	41.99	32.26	25.55	20.73
3-span	NEGATIVE WIND LOAD	189.76	125.71	89.04	66.23	51.00	40.30	32.64
	LIVE LOAD/DEFLECTION - L/60	153.07	100.16	70.43	52.14	40.12	31.81	25.83
	LIVE LOAD/DEFLECTION - L/180	153.07	100.16	70.43	52.14	40.12	31.40	22.89
	LIVE LOAD/DEFLECTION - L/240	153.07	100.16	70.43	50.05	33.53	23.55	17.17
4-span	NEGATIVE WIND LOAD	178.91	118.14	83.52	62.04	47.85	38.00	30.89
	LIVE LOAD/DEFLECTION - L/60	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/180	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/240	143.80	93.89	65.94	48.78	35.72	25.09	18.29

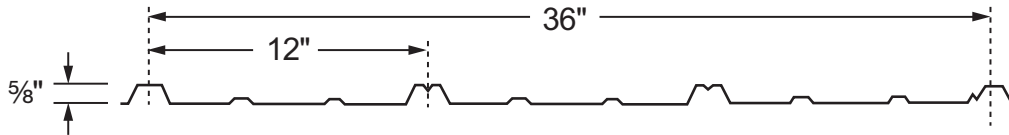
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice. Please contact ABC for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

REGAL RIB® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.217	0.118	0.157	0.0024	0.0087	0.333	0.0040	0.0096	0.397
26	60 *	0.84	0.298	0.209	0.290	0.0035	0.0129	0.511	0.0062	0.0148	0.632

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

- All calculations for the properties of Regal Rib panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Va = allowable transverse shear per foot of panel width.
- Pa,end = allowable web crippling load at the panel end support per foot of panel width.
- Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
- Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
- Sxe = effective section modulus per foot of panel width at nominal moment capacity.
- Maxo = allowable bending moment based on initiation of yielding.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

REGAL RIB® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	55.47	35.50	24.65	18.11	13.87	9.98	7.28
	LIVE LOAD/DEFLECTION - L/60	66.23	42.38	29.43	21.62	16.44	11.55	8.42
	LIVE LOAD/DEFLECTION - L/180	43.85	22.45	12.99	8.18	5.48	3.85	2.81
	LIVE LOAD/DEFLECTION - L/240	32.89	16.84	9.74	6.14	4.11	2.89	2.10
2-span	NEGATIVE WIND LOAD	61.88	40.54	28.53	21.13	16.26	12.90	10.47
	LIVE LOAD/DEFLECTION - L/60	52.84	34.40	24.11	17.82	13.69	10.85	8.80
	LIVE LOAD/DEFLECTION - L/180	52.84	34.40	24.11	17.82	13.69	10.85	8.28
	LIVE LOAD/DEFLECTION - L/240	52.84	34.40	24.11	17.82	12.12	8.51	6.21
3-span	NEGATIVE WIND LOAD	75.28	49.75	35.19	26.15	20.17	16.02	13.03
	LIVE LOAD/DEFLECTION - L/60	64.75	42.43	29.86	22.12	17.03	13.50	10.97
	LIVE LOAD/DEFLECTION - L/180	64.75	42.43	29.24	18.41	12.33	8.66	6.32
	LIVE LOAD/DEFLECTION - L/240	64.75	37.89	21.93	13.81	9.25	6.50	4.74
4-span	NEGATIVE WIND LOAD	70.93	46.74	33.00	24.49	18.88	14.99	12.18
	LIVE LOAD/DEFLECTION - L/60	60.86	39.79	27.96	20.69	15.92	12.62	10.25
	LIVE LOAD/DEFLECTION - L/180	60.86	39.79	27.96	19.73	13.22	9.28	6.77
	LIVE LOAD/DEFLECTION - L/240	60.86	39.79	23.50	14.80	9.92	6.96	5.08

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	85.17	54.51	37.85	27.81	20.64	14.50	10.57
	LIVE LOAD/DEFLECTION - L/60	105.27	67.37	46.79	34.37	25.23	17.72	12.92
	LIVE LOAD/DEFLECTION - L/180	67.29	34.45	19.94	12.56	8.41	5.91	4.31
	LIVE LOAD/DEFLECTION - L/240	50.47	25.84	14.95	9.42	6.31	4.43	3.23
2-span	NEGATIVE WIND LOAD	96.30	63.53	44.88	33.33	25.70	20.40	16.59
	LIVE LOAD/DEFLECTION - L/60	80.21	52.41	36.82	27.25	20.96	16.62	13.49
	LIVE LOAD/DEFLECTION - L/180	80.21	52.41	36.82	27.25	20.96	16.12	11.75
	LIVE LOAD/DEFLECTION - L/240	80.21	52.41	36.82	25.69	17.21	12.09	8.81
3-span	NEGATIVE WIND LOAD	116.28	77.54	55.14	41.12	31.80	25.30	20.60
	LIVE LOAD/DEFLECTION - L/60	97.86	64.45	45.50	33.77	26.03	20.66	16.79
	LIVE LOAD/DEFLECTION - L/180	97.86	64.45	41.76	26.30	17.62	12.37	9.02
	LIVE LOAD/DEFLECTION - L/240	97.86	54.13	31.32	19.72	13.21	9.28	6.77
4-span	NEGATIVE WIND LOAD	109.83	72.97	51.78	38.56	29.78	23.68	19.27
	LIVE LOAD/DEFLECTION - L/60	92.11	60.50	42.64	31.61	24.35	19.32	15.69
	LIVE LOAD/DEFLECTION - L/180	92.11	60.50	42.64	28.10	18.83	13.22	9.64
	LIVE LOAD/DEFLECTION - L/240	92.11	57.83	33.47	21.08	14.12	9.92	7.23

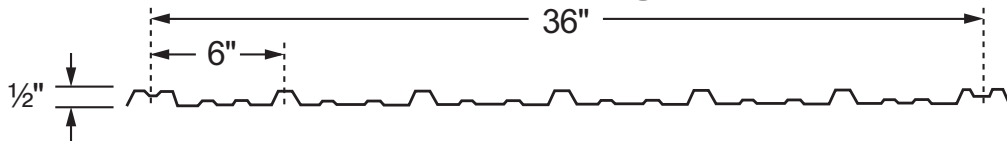
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
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PRODUCT INFORMATION

AMERI-DRAIN® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.453	0.177	0.242	0.0021	0.0084	0.352	0.0039	0.0107	0.511
26	60 *	0.84	0.624	0.316	0.447	0.0030	0.0123	0.528	0.0054	0.0148	0.710

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

- All calculations for the properties of Ameri-Drain panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Va = allowable transverse shear per foot of panel width.
- Pa,end = allowable web crippling load at the panel end support per foot of panel width.
- Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
- Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
- Sxe = effective section modulus per foot of panel width at nominal moment capacity.
- Maxo = allowable bending moment based on initiation of yielding.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

AMERI-DRAIN® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	58.71	37.58	26.09	18.04	12.09	8.49	6.19
	LIVE LOAD/DEFLECTION - L/60	85.23	54.55	37.82	23.82	15.95	11.21	8.17
	LIVE LOAD/DEFLECTION - L/180	42.54	21.78	12.61	7.94	5.32	3.74	2.72
	LIVE LOAD/DEFLECTION - L/240	31.91	16.34	9.45	5.95	3.99	2.80	2.04
2-span	NEGATIVE WIND LOAD	82.97	53.61	37.42	27.58	21.16	16.74	13.58
	LIVE LOAD/DEFLECTION - L/60	57.96	37.26	25.94	19.09	14.63	11.57	9.37
	LIVE LOAD/DEFLECTION - L/180	57.96	37.26	25.94	19.09	13.16	9.24	6.74
	LIVE LOAD/DEFLECTION - L/240	57.96	37.26	23.39	14.73	9.87	6.93	5.05
3-span	NEGATIVE WIND LOAD	91.74	58.71	40.77	29.96	22.93	17.53	12.78
	LIVE LOAD/DEFLECTION - L/60	72.04	46.41	32.35	23.82	18.26	14.44	11.71
	LIVE LOAD/DEFLECTION - L/180	72.04	41.90	24.25	15.27	10.23	7.18	5.24
	LIVE LOAD/DEFLECTION - L/240	61.37	31.42	18.18	11.45	7.67	5.39	3.93
4-span	NEGATIVE WIND LOAD	95.10	60.87	42.27	31.05	23.78	18.61	13.57
	LIVE LOAD/DEFLECTION - L/60	67.37	43.37	30.22	22.24	17.05	13.49	10.93
	LIVE LOAD/DEFLECTION - L/180	67.37	43.37	25.78	16.24	10.88	7.64	5.57
	LIVE LOAD/DEFLECTION - L/240	65.26	33.41	19.34	12.18	8.16	5.73	4.18

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	88.07	56.37	39.14	26.07	17.47	12.27	8.94
	LIVE LOAD/DEFLECTION - L/60	118.25	75.68	52.56	33.21	22.25	15.62	11.39
	LIVE LOAD/DEFLECTION - L/180	59.32	30.37	17.58	11.07	7.42	5.21	3.80
	LIVE LOAD/DEFLECTION - L/240	44.49	22.78	13.18	8.30	5.56	3.91	2.85
2-span	NEGATIVE WIND LOAD	115.07	74.36	51.91	38.26	29.36	23.23	18.84
	LIVE LOAD/DEFLECTION - L/60	86.73	55.81	38.88	28.61	21.93	17.34	14.06
	LIVE LOAD/DEFLECTION - L/180	86.73	55.81	38.88	27.52	18.44	12.95	9.44
	LIVE LOAD/DEFLECTION - L/240	86.73	55.81	32.78	20.64	13.83	9.71	7.08
3-span	NEGATIVE WIND LOAD	137.61	88.07	61.16	44.94	34.40	25.43	18.54
	LIVE LOAD/DEFLECTION - L/60	107.71	69.47	48.45	35.69	27.37	21.65	17.55
	LIVE LOAD/DEFLECTION - L/180	107.71	58.59	33.91	21.35	14.30	10.05	7.32
	LIVE LOAD/DEFLECTION - L/240	85.83	43.94	25.43	16.01	10.73	7.53	5.49
4-span	NEGATIVE WIND LOAD	133.24	86.33	60.36	44.53	34.18	27.06	19.82
	LIVE LOAD/DEFLECTION - L/60	100.76	64.94	45.27	33.33	25.56	20.22	16.39
	LIVE LOAD/DEFLECTION - L/180	100.76	62.36	36.09	22.73	15.22	10.69	7.79
	LIVE LOAD/DEFLECTION - L/240	91.35	46.77	27.07	17.04	11.42	8.02	5.85

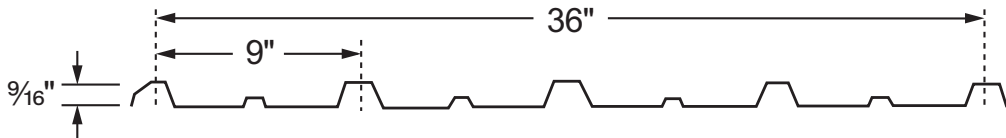
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice. Please contact ABC for most current data.

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PRODUCT INFORMATION

RUGGED RIB® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.307	0.164	0.219	0.0036	0.0114	0.433	0.0050	0.0110	0.463
26	60 *	0.84	0.422	0.292	0.405	0.0052	0.0171	0.673	0.0077	0.0172	0.743

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

1. All calculations for the properties of Rugged Rib panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Va = allowable transverse shear per foot of panel width.
3. Pa,end = allowable web crippling load at the panel end support per foot of panel width.
4. Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
5. Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
6. Sxe = effective section modulus per foot of panel width at nominal moment capacity.
7. Maxo = allowable bending moment based on initiation of yielding.

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PRODUCT INFORMATION

RUGGED RIB® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	72.19	46.20	32.08	23.57	18.05	14.26	10.66
	LIVE LOAD/DEFLECTION - L/60	77.18	49.40	34.30	25.20	19.30	14.40	10.50
	LIVE LOAD/DEFLECTION - L/180	54.67	27.99	16.20	10.20	6.83	4.80	3.50
	LIVE LOAD/DEFLECTION - L/240	41.00	20.99	12.15	7.65	5.12	3.60	2.62
2-span	NEGATIVE WIND LOAD	73.64	47.91	33.58	24.81	19.06	15.10	12.25
	LIVE LOAD/DEFLECTION - L/60	69.26	44.98	31.49	23.25	17.86	14.14	11.47
	LIVE LOAD/DEFLECTION - L/180	69.26	44.98	31.49	23.25	17.86	14.14	11.05
	LIVE LOAD/DEFLECTION - L/240	69.26	44.98	31.49	23.25	16.18	11.36	8.28
3-span	NEGATIVE WIND LOAD	90.29	59.12	41.59	30.80	23.70	18.80	15.26
	LIVE LOAD/DEFLECTION - L/60	85.11	55.58	39.04	28.88	22.22	17.61	14.30
	LIVE LOAD/DEFLECTION - L/180	85.11	55.58	36.82	23.18	15.53	10.91	7.95
	LIVE LOAD/DEFLECTION - L/240	85.11	47.71	27.61	17.39	11.65	8.18	5.96
4-span	NEGATIVE WIND LOAD	84.84	55.43	38.94	28.81	22.16	17.57	14.26
	LIVE LOAD/DEFLECTION - L/60	79.91	52.09	36.54	27.02	20.77	16.46	13.36
	LIVE LOAD/DEFLECTION - L/180	79.91	52.09	36.54	25.30	16.95	11.90	8.68
	LIVE LOAD/DEFLECTION - L/240	79.91	52.06	30.13	18.97	12.71	8.93	6.51

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	112.17	71.79	49.85	36.63	28.04	21.37	15.58
	LIVE LOAD/DEFLECTION - L/60	123.81	79.24	55.03	40.43	30.95	22.23	16.21
	LIVE LOAD/DEFLECTION - L/180	84.41	43.22	25.01	15.75	10.55	7.41	5.40
	LIVE LOAD/DEFLECTION - L/240	63.31	32.41	18.76	11.81	7.91	5.56	4.05
2-span	NEGATIVE WIND LOAD	116.23	76.03	53.45	39.57	30.45	24.14	19.60
	LIVE LOAD/DEFLECTION - L/60	106.44	69.38	48.67	35.98	27.66	21.92	17.79
	LIVE LOAD/DEFLECTION - L/180	106.44	69.38	48.67	35.98	27.66	21.92	16.49
	LIVE LOAD/DEFLECTION - L/240	106.44	69.38	48.67	35.98	24.15	16.96	12.36
3-span	NEGATIVE WIND LOAD	141.63	93.42	66.00	49.01	37.79	30.00	24.39
	LIVE LOAD/DEFLECTION - L/60	130.23	85.49	60.22	44.64	34.38	27.27	22.15
	LIVE LOAD/DEFLECTION - L/180	130.23	85.49	56.90	35.83	24.00	16.86	12.29
	LIVE LOAD/DEFLECTION - L/240	130.23	73.74	42.68	26.87	18.00	12.64	9.22
4-span	NEGATIVE WIND LOAD	133.37	87.72	61.86	45.89	35.36	28.06	22.80
	LIVE LOAD/DEFLECTION - L/60	122.46	80.19	56.41	41.77	32.15	25.49	20.70
	LIVE LOAD/DEFLECTION - L/180	122.46	80.19	56.41	38.71	25.94	18.21	13.28
	LIVE LOAD/DEFLECTION - L/240	122.46	79.67	46.11	29.04	19.45	13.66	9.96

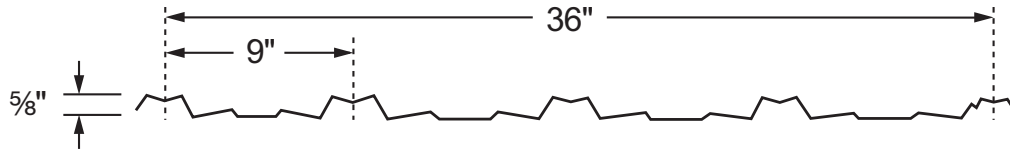
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
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PRODUCT INFORMATION

MONARCH RIB® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.397	0.075	0.184	0.0046	0.0132	0.516	0.0064	0.0141	0.581
26	60 *	0.84	0.546	0.135	0.341	0.0067	0.0199	0.803	0.0097	0.0216	0.918

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
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PRODUCT INFORMATION

MONARCH RIB® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	86.06	55.08	38.25	28.10	21.51	17.00	13.66
	LIVE LOAD/DEFLECTION - L/60	75.39	60.31	43.01	31.60	24.20	18.40	13.41
	LIVE LOAD/DEFLECTION - L/180	69.86	35.77	20.70	13.04	8.73	6.13	4.47
	LIVE LOAD/DEFLECTION - L/240	52.40	26.83	15.53	9.78	6.55	4.60	3.35
2-span	NEGATIVE WIND LOAD	92.57	60.18	42.15	31.13	23.92	18.94	15.37
	LIVE LOAD/DEFLECTION - L/60	73.78	53.82	37.64	27.77	21.32	16.88	13.69
	LIVE LOAD/DEFLECTION - L/180	73.78	53.82	37.64	27.77	21.32	16.88	13.34
	LIVE LOAD/DEFLECTION - L/240	73.78	53.82	37.64	27.77	19.54	13.73	10.01
3-span	NEGATIVE WIND LOAD	113.61	74.31	52.24	38.67	29.75	23.59	19.15
	LIVE LOAD/DEFLECTION - L/60	83.84	66.63	46.72	34.53	26.54	21.03	17.07
	LIVE LOAD/DEFLECTION - L/180	83.84	66.63	46.62	29.36	19.67	13.81	10.07
	LIVE LOAD/DEFLECTION - L/240	83.84	60.42	34.97	22.02	14.75	10.36	7.55
4-span	NEGATIVE WIND LOAD	106.72	69.65	48.90	36.17	27.82	22.04	17.90
	LIVE LOAD/DEFLECTION - L/60	80.69	62.40	43.71	32.29	24.81	19.65	15.94
	LIVE LOAD/DEFLECTION - L/180	80.69	62.40	43.71	31.58	21.16	14.86	10.83
	LIVE LOAD/DEFLECTION - L/240	80.69	62.40	37.62	23.69	15.87	11.15	8.12

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	133.89	85.69	59.51	43.72	33.47	26.45	20.09
	LIVE LOAD/DEFLECTION - L/60	135.14	97.93	68.01	49.96	38.25	27.87	20.32
	LIVE LOAD/DEFLECTION - L/180	105.81	54.17	31.35	19.74	13.23	9.29	6.77
	LIVE LOAD/DEFLECTION - L/240	79.36	40.63	23.51	14.81	9.92	6.97	5.08
2-span	NEGATIVE WIND LOAD	144.41	94.30	66.22	48.99	37.68	29.87	24.25
	LIVE LOAD/DEFLECTION - L/60	128.01	83.22	58.30	43.06	33.09	26.20	21.26
	LIVE LOAD/DEFLECTION - L/180	128.01	83.22	58.30	43.06	33.09	26.16	19.07
	LIVE LOAD/DEFLECTION - L/240	128.01	83.22	58.30	41.69	27.93	19.62	14.30
3-span	NEGATIVE WIND LOAD	176.33	116.03	81.86	60.73	46.79	37.14	30.18
	LIVE LOAD/DEFLECTION - L/60	154.84	102.76	72.24	53.48	41.15	32.63	26.49
	LIVE LOAD/DEFLECTION - L/180	154.84	102.76	67.56	42.54	28.50	20.02	14.59
	LIVE LOAD/DEFLECTION - L/240	154.84	87.56	50.67	31.91	21.38	15.01	10.94
4-span	NEGATIVE WIND LOAD	165.93	108.89	76.70	56.85	43.78	34.73	28.21
	LIVE LOAD/DEFLECTION - L/60	147.56	96.32	67.63	50.03	38.47	30.49	24.75
	LIVE LOAD/DEFLECTION - L/180	147.56	96.32	67.63	45.54	30.51	21.42	15.62
	LIVE LOAD/DEFLECTION - L/240	147.56	93.71	54.23	34.15	22.88	16.07	11.71

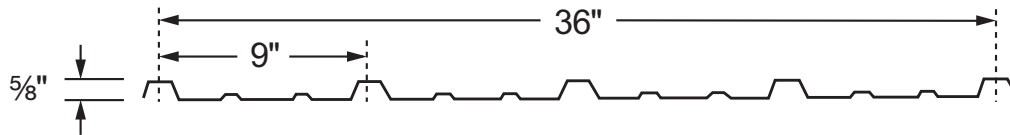
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
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PRODUCT INFORMATION

PERMA-CLAD® 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.398	0.133	0.184	0.0037	0.0120	0.490	0.0061	0.0124	0.543
26	60 *	0.84	0.548	0.239	0.341	0.0055	0.0168	0.702	0.0091	0.0187	0.843

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

- All calculations for the properties of Perma-Clad panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Va = allowable transverse shear per foot of panel width.
- Pa,end = allowable web crippling load at the panel end support per foot of panel width.
- Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
- Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
- Sxe = effective section modulus per foot of panel width at nominal moment capacity.
- Maxo = allowable bending moment based on initiation of yielding.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

PERMA-CLAD® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	81.63	52.24	36.28	26.65	20.41	15.41	11.24
	LIVE LOAD/DEFLECTION - L/60	90.48	57.91	40.21	29.54	22.62	17.45	12.72
	LIVE LOAD/DEFLECTION - L/180	66.27	33.93	19.63	12.36	8.28	5.82	4.24
	LIVE LOAD/DEFLECTION - L/240	49.70	25.45	14.73	9.27	6.21	4.36	3.18
2-span	NEGATIVE WIND LOAD	87.03	56.46	39.51	29.16	22.39	17.73	14.38
	LIVE LOAD/DEFLECTION - L/60	73.77	51.18	35.76	26.37	20.24	16.02	12.99
	LIVE LOAD/DEFLECTION - L/180	73.77	51.18	35.76	26.37	20.24	16.02	11.77
	LIVE LOAD/DEFLECTION - L/240	73.77	51.18	35.76	25.74	17.24	12.11	8.83
3-span	NEGATIVE WIND LOAD	107.04	69.83	49.01	36.25	27.87	22.09	17.93
	LIVE LOAD/DEFLECTION - L/60	83.83	63.41	44.42	32.81	25.21	19.97	16.20
	LIVE LOAD/DEFLECTION - L/180	83.83	63.41	41.93	26.40	17.69	12.42	9.06
	LIVE LOAD/DEFLECTION - L/240	83.83	54.34	31.45	19.80	13.27	9.32	6.79
4-span	NEGATIVE WIND LOAD	100.47	65.42	45.87	33.90	26.05	20.64	16.75
	LIVE LOAD/DEFLECTION - L/60	80.69	59.36	41.55	30.68	23.56	18.66	15.14
	LIVE LOAD/DEFLECTION - L/180	80.69	59.36	41.55	28.24	18.92	13.29	9.69
	LIVE LOAD/DEFLECTION - L/240	80.69	58.12	33.63	21.18	14.19	9.97	7.27

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	117.01	74.89	52.01	38.21	29.25	22.53	16.42
	LIVE LOAD/DEFLECTION - L/60	140.46	89.89	62.43	45.86	35.11	26.17	19.08
	LIVE LOAD/DEFLECTION - L/180	99.36	50.87	29.44	18.54	12.42	8.72	6.36
	LIVE LOAD/DEFLECTION - L/240	74.52	38.15	22.08	13.90	9.31	6.54	4.77
2-span	NEGATIVE WIND LOAD	133.75	87.08	61.05	45.11	34.67	27.47	22.29
	LIVE LOAD/DEFLECTION - L/60	113.05	73.24	51.20	37.77	29.00	22.95	18.62
	LIVE LOAD/DEFLECTION - L/180	113.05	73.24	51.20	37.77	29.00	22.35	16.29
	LIVE LOAD/DEFLECTION - L/240	113.05	73.24	51.20	35.62	23.86	16.76	12.22
3-span	NEGATIVE WIND LOAD	163.86	107.40	75.59	55.99	43.10	34.19	27.77
	LIVE LOAD/DEFLECTION - L/60	139.29	90.68	63.57	46.98	36.11	28.60	23.21
	LIVE LOAD/DEFLECTION - L/180	139.29	90.68	59.13	37.24	24.95	17.52	12.77
	LIVE LOAD/DEFLECTION - L/240	139.29	76.64	44.35	27.93	18.71	13.14	9.58
4-span	NEGATIVE WIND LOAD	154.02	100.71	70.78	52.39	40.31	31.96	25.95
	LIVE LOAD/DEFLECTION - L/60	130.66	84.92	59.47	43.92	33.74	26.73	21.68
	LIVE LOAD/DEFLECTION - L/180	130.66	84.92	59.47	39.53	26.48	18.60	13.56
	LIVE LOAD/DEFLECTION - L/240	130.66	81.35	47.08	29.65	19.86	13.95	10.17

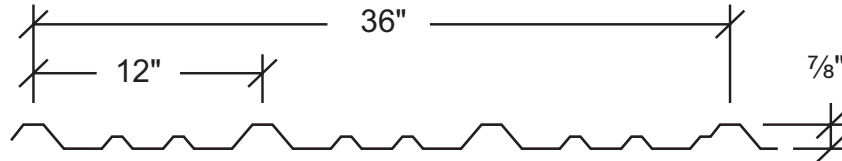
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice. Please contact ABC for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.

PRODUCT INFORMATION

7/8" WIDE RIB 36" Coverage



Panel Section Properties											
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	Negative Bending			Positive Bending		
						Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)	Ixe (In. ⁴ /Ft.)	Sxe (In. ³ /Ft.)	Maxo (Kip-In./Ft.)
29	60 *	0.63	0.240	0.086	0.133	0.0065	0.0139	0.538	0.0099	0.0130	0.591
26	60 *	0.82	0.529	0.157	0.446	0.0095	0.0195	0.783	0.0156	0.0211	1.009

* Panels are made from 80 ksi yield material. Flexural effective yield strengths vary by direction of bending. Shear and web crippling capacities have been determined using an effective yield strength of 60 ksi.

NOTES:

- All calculations for the properties of 7/8" Wide Rib panels are calculated in accordance with the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Va = allowable transverse shear per foot of panel width.
- Pa,end = allowable web crippling load at the panel end support per foot of panel width.
- Pa,int = allowable web crippling load at interior panel supports per foot of panel width.
- Ixe = effective moment of inertia per foot of panel width at nominal moment capacity.
- Sxe = effective section modulus per foot of panel width at nominal moment capacity.
- Maxo = allowable bending moment based on initiation of yielding.

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PRODUCT INFORMATION

7/8" WIDE RIB® 36" Coverage

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	89.63	57.36	39.83	29.27	22.41	17.70	14.34
	LIVE LOAD/DEFLECTION - L/60	86.43	63.01	43.76	32.15	24.61	19.45	15.75
	LIVE LOAD/DEFLECTION - L/180	86.43	55.19	31.94	20.11	13.47	9.46	6.90
	LIVE LOAD/DEFLECTION - L/240	80.84	41.39	23.95	15.08	10.11	7.10	5.17
2-span	NEGATIVE WIND LOAD	87.64	58.31	41.41	30.86	23.85	18.96	15.43
	LIVE LOAD/DEFLECTION - L/60	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/180	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/240	53.12	42.49	35.41	28.28	21.82	17.34	14.10
3-span	NEGATIVE WIND LOAD	104.87	70.69	50.62	37.92	29.41	23.45	19.12
	LIVE LOAD/DEFLECTION - L/60	60.36	48.29	40.24	34.49	26.97	21.48	17.49
	LIVE LOAD/DEFLECTION - L/180	60.36	48.29	40.24	34.49	26.97	21.48	16.16
	LIVE LOAD/DEFLECTION - L/240	60.36	48.29	40.24	34.49	23.67	16.63	12.12
4-span	NEGATIVE WIND LOAD	99.36	66.68	47.61	35.60	27.58	21.97	17.90
	LIVE LOAD/DEFLECTION - L/60	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/180	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/240	58.10	46.48	38.73	32.69	25.28	17.82	12.99

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	130.57	83.56	58.03	42.63	32.64	25.79	20.89
	LIVE LOAD/DEFLECTION - L/60	156.54	107.62	74.74	54.91	42.04	33.22	26.91
	LIVE LOAD/DEFLECTION - L/180	156.54	87.33	50.54	31.83	21.32	14.97	10.92
	LIVE LOAD/DEFLECTION - L/240	127.92	65.50	37.90	23.87	15.99	11.23	8.19
2-span	NEGATIVE WIND LOAD	156.29	102.57	72.25	53.55	41.24	32.71	26.57
	LIVE LOAD/DEFLECTION - L/60	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/180	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/240	124.77	81.13	56.84	41.99	32.26	25.55	20.73
3-span	NEGATIVE WIND LOAD	189.76	125.71	89.04	66.23	51.00	40.30	32.64
	LIVE LOAD/DEFLECTION - L/60	153.07	100.16	70.43	52.14	40.12	31.81	25.83
	LIVE LOAD/DEFLECTION - L/180	153.07	100.16	70.43	52.14	40.12	31.40	22.89
	LIVE LOAD/DEFLECTION - L/240	153.07	100.16	70.43	50.05	33.53	23.55	17.17
4-span	NEGATIVE WIND LOAD	178.91	118.14	83.52	62.04	47.85	38.00	30.89
	LIVE LOAD/DEFLECTION - L/60	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/180	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/240	143.80	93.89	65.94	48.78	35.72	25.09	18.29

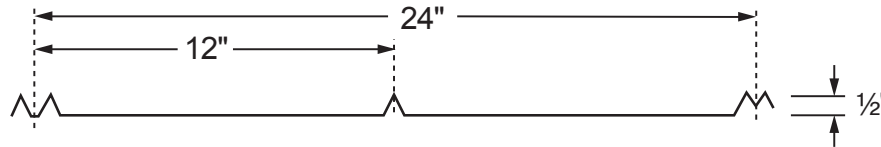
Notes:

- Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
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PRODUCT INFORMATION

5V CRIMP 24" Coverage



PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE BENDING		
			lxe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	lxe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
29	60*	0.75	0.0014	0.0074	0.2662	0.0028	0.0061	0.2204
26	60*	0.95	0.0018	0.0112	0.4018	0.0032	0.0079	0.2826

* Fy is 80 ksi reduced to 60 ksi in accordance with the 2001 edition of the *North American Specification For Design of Cold-Formed Steel Structural Members* - A2.3.2.

NOTES:

- All calculations for the properties of 5V Crimp panels are calculated in accordance with the 2001 edition of the *North American Specification For Design of Cold-Formed Steel Structural Members*.
- lxe is for deflection determination.
- Sxe is for Bending.
- Maxo is allowable bending moment.
- All values are for the one foot of panel width.

		ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT						
		SPAN IN FEET						
SPAN TYPE	LOAD TYPE	1.0	1.5	2.0	2.5	3.0	3.5	4.0
SINGLE	Negative Wind Load	177.5	78.9	44.4	28.4	19.7	14.5	11.1
	Live Load/Deflection	146.9	65.3	30.2	15.4	8.9	5.6	3.8
2 SPAN	Negative Wind Load	146.9	65.3	36.7	23.5	16.3	12.0	9.2
	Live Load/Deflection	142.1	64.3	36.4	23.4	16.3	12.0	9.1
3 SPAN	Negative Wind Load	183.7	81.6	45.9	29.4	20.4	15.0	11.5
	Live Load/Deflection	172.5	79.9	45.4	29.1	16.9	10.6	7.1
4 SPAN	Negative Wind Load	171.5	76.2	42.9	27.4	19.1	14.0	10.7
	Live Load/Deflection	164.4	74.8	42.4	27.2	17.9	11.3	7.6

		SPAN IN FEET						
SPAN TYPE	LOAD TYPE	1.0	1.5	2.0	2.5	3.0	3.5	4.0
SINGLE	Negative Wind Load	267.9	119.1	67.0	42.9	29.8	21.9	16.7
	Live Load/Deflection	188.4	83.4	35.2	18.0	10.4	6.6	4.4
2 SPAN	Negative Wind Load	188.4	83.7	47.1	30.1	20.9	15.4	11.8
	Live Load/Deflection	182.4	82.5	46.7	30.0	20.9	15.3	10.6
3 SPAN	Negative Wind Load	235.5	104.7	58.9	37.7	26.2	19.2	14.7
	Live Load/Deflection	224.9	102.5	58.2	34.0	19.7	12.4	8.3
4 SPAN	Negative Wind Load	219.9	97.7	55.0	35.2	24.4	18.0	13.7
	Live Load/Deflection	211.0	95.9	54.4	34.9	20.9	13.2	8.8

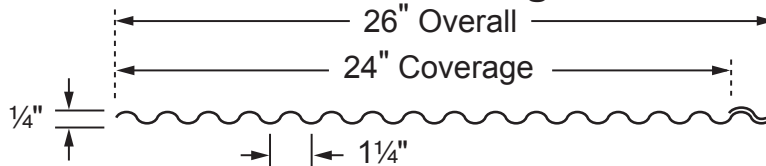
NOTES:

- Allowable loads are based on uniform span lengths and Fy = 60ksi.
- LIVE LOAD is limited by bending, shear, combined shear & bending, or web crippling.
- NEGATIVE WIND LOAD does not contain a 33.333% increase and does not consider fastener pullout or pullover.**
- Above loads consider a maximum deflection ratio of L/180.
- The weight of the panel has not been deducted from the allowable loads.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice.
- See www.americanbuildingcomponents.com for most current information.

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PRODUCT INFORMATION

CORRUGATED 24" Coverage



SECTION PROPERTIES								
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE BENDING		
			lxe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	lxe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
29	60*	0.61	0.0014	0.0093	0.3356	0.0014	0.0093	0.3356
26	60*	0.79	0.0014	0.0119	0.4271	0.0014	0.0119	0.4271

* Fy is 80 ksi reduced to 60 ksi in accordance with the 2001 edition of the *North American Specification For Design of Cold-Formed Steel Structural Members* - A2.3.2.

NOTES:

- All calculations for the properties of Corrugated panels are calculated in accordance with the 2001 edition of the *North American Specification For Design of Cold-Formed Steel Structural Members*.
- lxe is for deflection determination.
- Sxe is for Bending.
- Maxo is allowable bending moment.
- All values are for the one foot of panel width.

29 Gauge		ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT						
(Fy = 60ksi)		SPAN IN FEET						
SPAN TYPE	LOAD TYPE	2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	Negative Wind Load	55.9	35.8	24.9	18.3	14.0	11.0	8.9
	Live Load/Deflection	15.3	7.8	4.5	2.9	1.9	1.3	1.0
2 SPAN	Negative Wind Load	55.9	35.8	24.9	18.3	14.0	11.0	8.9
	Live Load/Deflection	36.8	18.9	10.9	6.9	4.6	3.2	2.4
3 SPAN	Negative Wind Load	69.9	44.7	31.1	22.8	17.5	13.8	11.2
	Live Load/Deflection	28.9	14.8	8.6	5.4	3.6	2.5	1.8
4 SPAN	Negative Wind Load	65.3	41.8	29.0	21.3	16.3	12.9	10.4
	Live Load/Deflection	30.6	15.7	9.1	5.7	3.8	2.7	2.0

26 Gauge		ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT						
(Fy = 60ksi)		SPAN IN FEET						
SPAN TYPE	LOAD TYPE	2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	Negative Wind Load	71.2	45.6	31.6	23.2	17.8	14.1	11.4
	Live Load/Deflection	15.3	7.8	4.5	2.9	1.9	1.3	1.0
2 SPAN	Negative Wind Load	71.2	45.6	31.6	23.2	17.8	14.1	11.4
	Live Load/Deflection	36.8	18.9	10.9	6.9	4.6	3.2	2.4
3 SPAN	Negative Wind Load	89.0	56.9	39.5	29.1	22.2	17.6	14.2
	Live Load/Deflection	28.9	14.8	8.6	5.4	3.6	2.5	1.8
4 SPAN	Negative Wind Load	83.1	53.2	36.9	27.1	20.8	16.4	13.3
	Live Load/Deflection	30.6	15.7	9.1	5.7	3.8	2.7	2.0

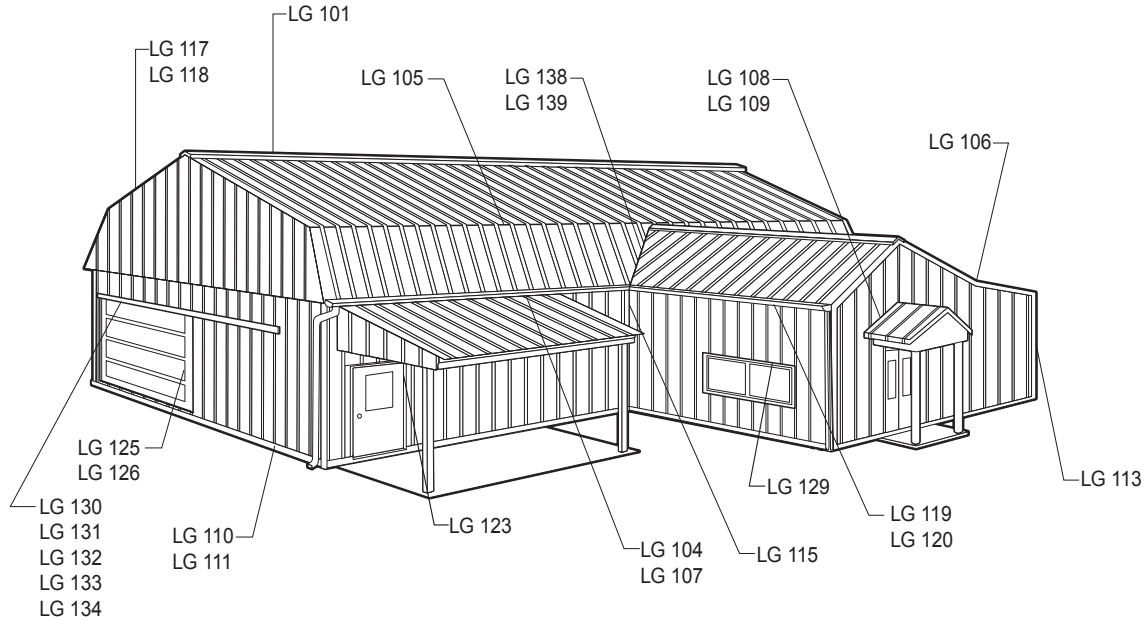
NOTES:

- Allowable loads are based on uniform span lengths and Fy = 60ksi.
- LIVE LOAD is limited by bending, shear, combined shear & bending, or web crippling.
- NEGATIVE WIND LOAD does not contain a 33.333% increase and does not consider fastener pullout or pullover.**
- Above loads consider a maximum deflection ratio of L/180.
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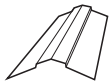
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PRODUCT INFORMATION

APPLICATIONS GUIDE



LG 101
PLAIN RIDGE CAP



LG 104
NOTCHED ENDWALL FLASHING



LG 105
NOTCHED UPPER GAMBREL FLASHING



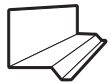
LG 106
NOTCHED LOWER GAMBREL FLASHING



LG 107
DENVER ENDWALL FLASHING



LG 108
SIDEWALL FLASHING



LG 109
DENVER SIDEWALL FLASHING



LG 110
BASE GUARD



LG 111
SQUARE BASE TRIM



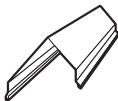
LG 113
CORNER TRIM



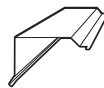
LG 115
INSIDE CORNER



LG 117
RAKE TRIM



LG 118
DENVER GABLE



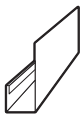
LG 119
EAVE FLASHING



LG 120
DENVER EAVE TRIM



LG 123
"J" CHANNEL



LG 125
9 1/4" DOOR JAMB



LG 126
DOOR POST TRIM



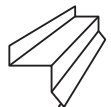
LG 129
WINDOW DRIP CAP



LG 130
SLIDING DOOR DRIP CAP



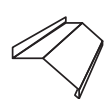
LG 131
NATIONAL DOOR TRACK COVER



LG 132
COMBO TRACK COVER



LG 133
TOP MOUNT TRACK COVER



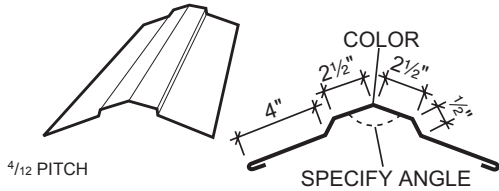
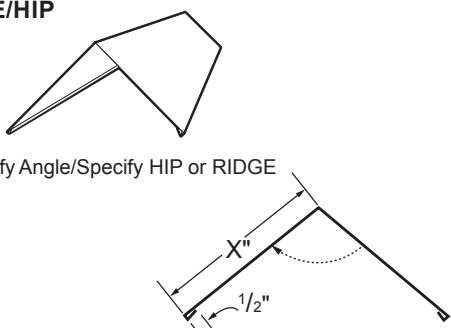
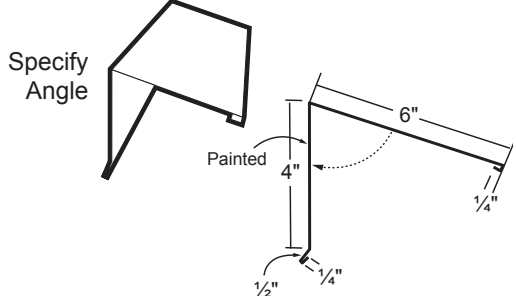
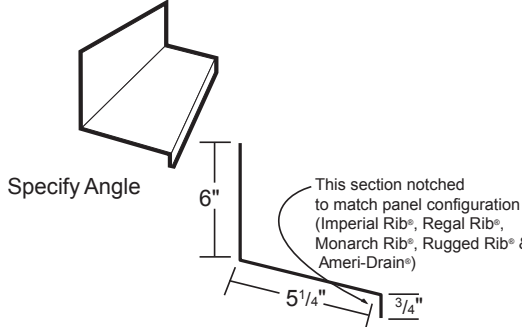
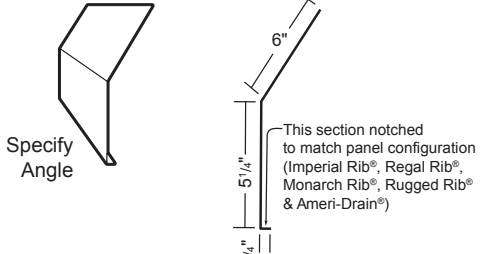
LG 134
TRACK DOOR JAMB TRIM



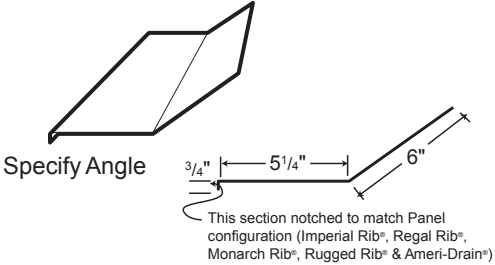
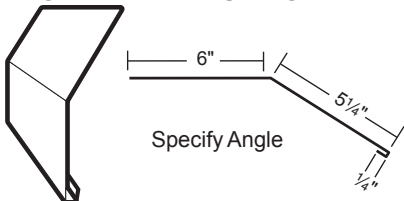
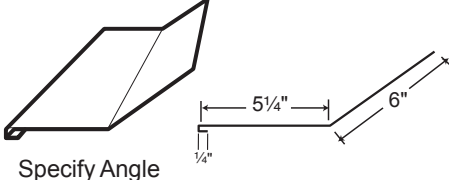
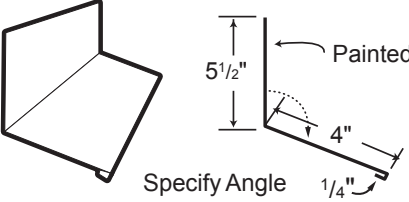
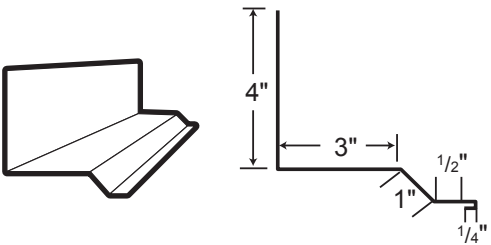
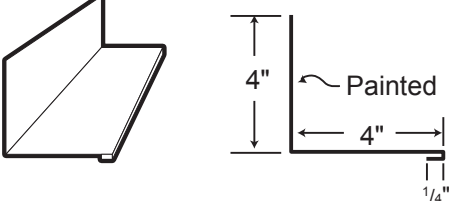
LG 138
"W" FORMED VALLEY
LG 139



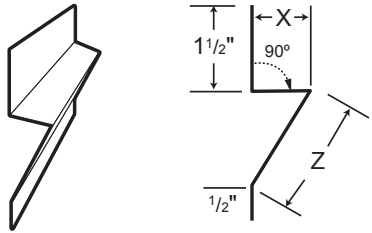
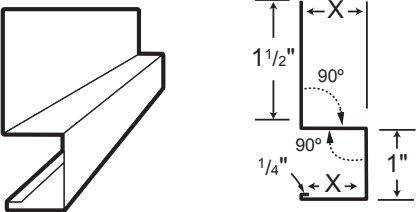
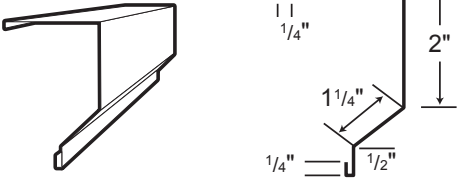
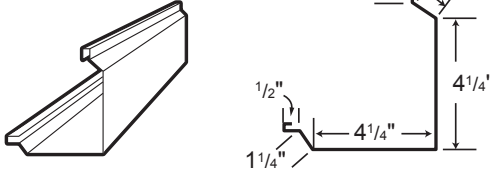
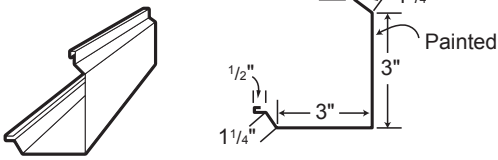
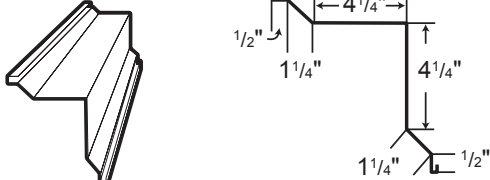
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
PLAIN RIDGE CAP 	X=4" X=5" X=6" X=7"	LG-101 LG-101A LG-101B LG-101C	10'-6" 10'-6" 10'-6" 10'-6"	14 1/2" 16 1/2" 18 1/2" 20 1/2"	7.39 # 8.20 # 9.30 # 10.33 #
RIDGE/HIP 	X=6" X=7" X=8"	CF-101 CF-101A CF-101B	10'-6" 10'-6" 10'-6"	13" 15" 17"	6.44 # 7.46 # 7.73 #
DENVER PEAK TRIM 		LG-103	10'-6"	11"	5.25 #
NOTCHED ENDWALL FLASHING 	Imp Rib Reg Rib Am-Dr Rug Rib Mon Rib	LG-104 LG-104A LG-104B LG-104C LG-104D	3' 3' 3' 3' 3'	12" 12" 12" 12" 12"	1.84 # 1.84 # 1.84 # 1.84 # 1.84 #
NOTCHED UPPER GAMBREL FLASHING 	Imp Rib Reg Rib Am-Dr Rug Rib Mon Rib	LG-105 LG-105A LG-105B LG-105C LG-105D	3' 3' 3' 3' 3'	12" 12" 12" 12" 12"	1.84 # 1.84 # 1.84 # 1.84 # 1.84 #

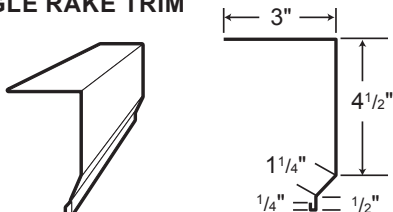
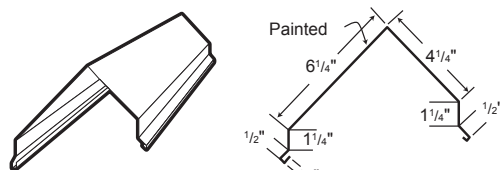
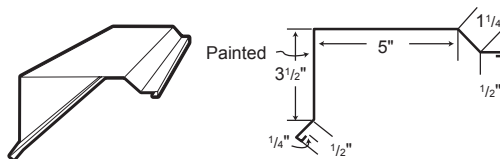
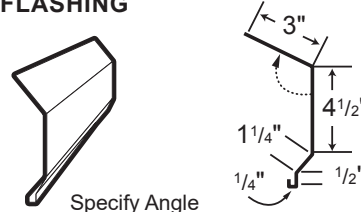
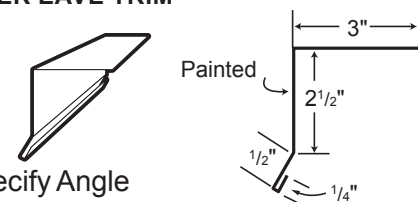
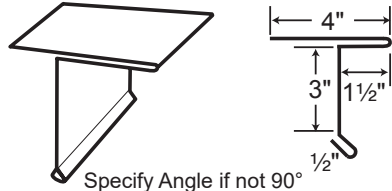
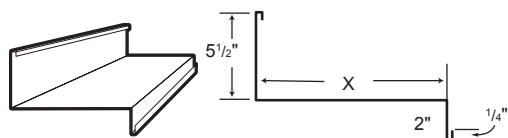
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
NOTCHED LOWER GAMBREL FLASHING 	Imp Rib Reg Rib Am-Dr Rug Rib Mon Rib	LG-106 LG-106A LG-106B LG-106C LG-106D	3' 3' 3' 3' 3'	12" 12" 12" 12" 12"	1.84 # 1.84 # 1.84 # 1.84 # 1.84 #
UPPER GAMBREL FLASHING 		LG-184	10'-6"	11 1/2"	6.16 #
TRANSITION FLASHING 		LG-185	10'-6"	11 1/2"	6.16 #
DENVER ENDWALL FLASHING 		LG-107	10'-6"	9 3/4"	4.41 #
SIDEWALL FLASHING 		LG-108	10'-6"	8 3/4"	4.02 #
DENVER SIDEWALL FLASHING 		LG-109	10'-6"	8 1/4"	4.41 #

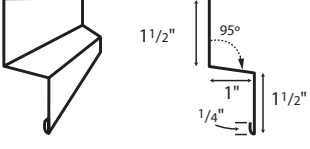
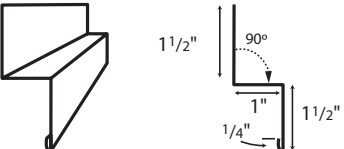
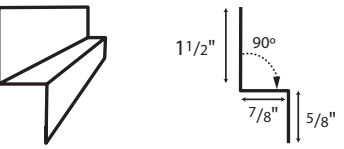
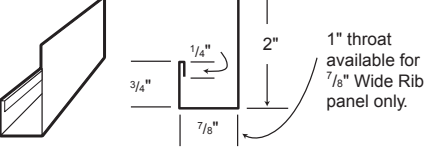
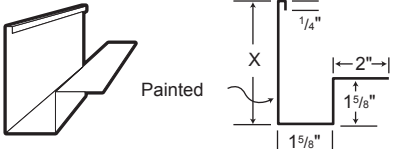
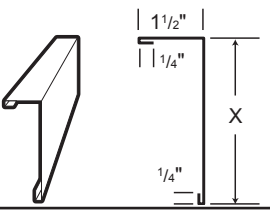
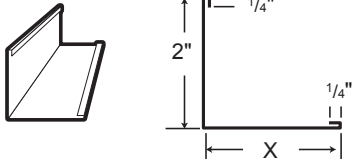
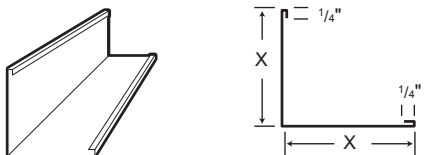
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
BASE GUARD 	X=1" Z=1 13/16" X=1 1/2" Z=2 1/4"	LG-110 LG-110A	10'-6" 10'-6"	4 13/16" 5 3/4"	2.46 # 2.98 #
SQUARE BASE GUARD 	X=1" X=1 1/2"	LG-111 LG-111A	10'-6" 10'-6"	4 3/4" 5 3/4"	2.46 # 2.98 #
DOOR & EDGE CAP 		LG-112	10'-6"	6 1/2"	3.49 #
CORNER TRIM 		LG-113 LG-113A LG-113B LG-113C LG-113D	10'-6" 12'-6" 14'-6" 16'-0" 18'-0"	12 1/2" 12 1/2" 12 1/2" 12 1/2" 12 1/2"	6.73 # 8.06 # 9.41 # 10.75 # 12.10#
3" X 3" CORNER TRIM 		LG-114	10'-6"	10"	5.36 #
INSIDE CORNER 		LG-115	10'-6"	12 1/2"	6.70 #

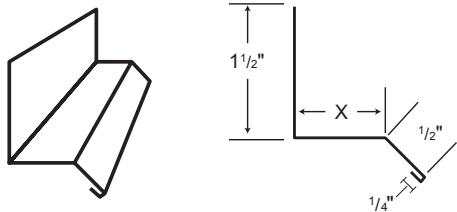
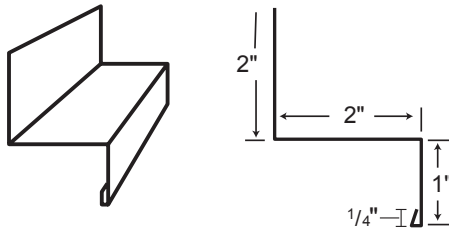
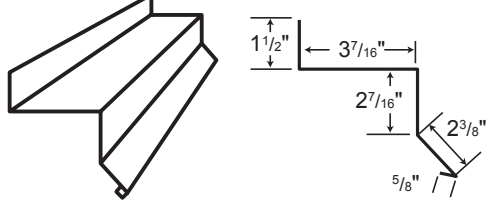
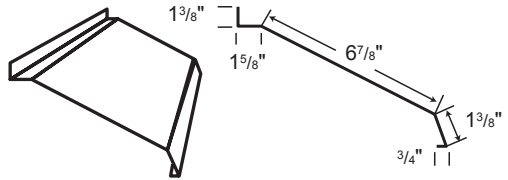
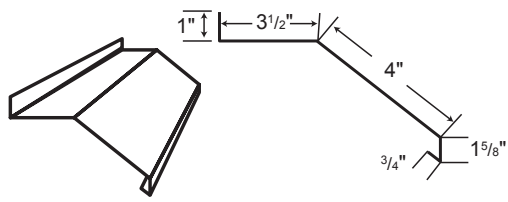
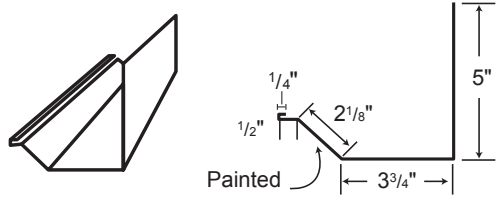
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
SHINGLE RAKE TRIM 		LG-116	10'-6"	9 1/2"	5.23 #
RAKE TRIM 		LG-117 LG-117A	10'-6" 16'	14 1/2" 14 1/2"	7.89 # 12.64 #
DENVER GABLE 		LG-118	10'-6"	11 1/4"	6.03 #
EAVE FLASHING 		LG-119	10'-6"	9 1/2"	5.23 #
DENVER EAVE TRIM 		LG-120	10'-6"	6 1/4"	3.50 #
SQUARE EAVE TRIM WITH DRIP EDGE 		CF-126	10'-6"	6 5/8"	5.30 #
CUSTOM SOFFIT 	X=12" X=14" X=16"	LG-121 LG-121A LG-121B	10'-6" 10'-6" 10'-6"	20" 22" 24"	10.71 # 11.75 # 12.85 #

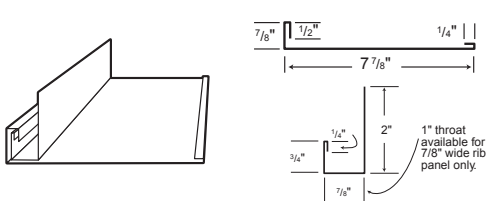
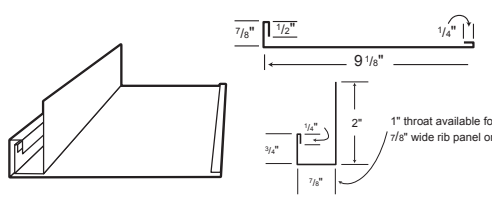
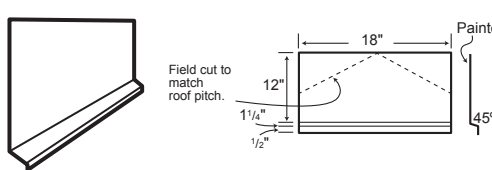
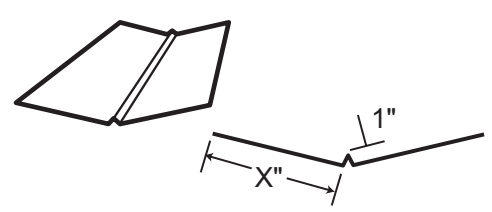
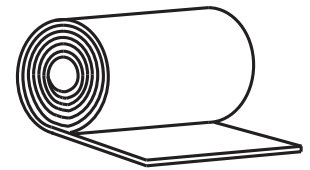
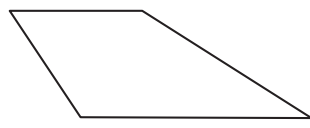
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT	
WAINSCOTE  95° angle used for drainage		LG-170	10'-6"	4 1/4"	2.15 #	
Z FLASHING 		LG-122	10'-6"	4 1/4"	2.20 #	
DOUBLE ANGLE 		DBLA	10'-6"	3"	1.55 #	
"J" CHANNEL  1" throat available for 7/8" Wide Rib panel only.		LG-123 LG-123A LG-124 LG-124A	10'-6" 16' 10'-6" 16'	3 7/8" 3 7/8" 4" 4"	2.32 # 4.20 # 2.35 # 4.28 #	
DOOR JAMB  Painted	X=4" X=7 1/4"	LG-125 LG-125A	10'-6" 10'-6"	9 1/2" 12 3/4"	5.09 # 6.69#	
DOOR POST TRIM 		X=3 1/2" X=5 1/2" X=7 1/4" X=3 1/2" X=5 1/2" X=7 1/4"	LG-126 LG-126A LG-126B LG-126C LG-126D LG-126E	10'-6" 10'-6" 10'-6" 16' 16' 16'	5 1/2" 7 1/2" 9 1/4" 5 1/2" 7 1/2" 9 1/4"	2.95 # 4.02 # 4.96 # 4.50 # 6.13 # 7.56#
"L" CHANNEL 		X=1" X=1 1/2" X=2" X=3"	LG-127 LG-127A LG-127B LG-127C	10'-6" 10'-6" 10'-6" 10'-6"	3 1/2" 4" 4 1/2" 5 1/2"	1.88 # 2.14 # 2.43 # 2.95 #
"L" CHANNEL 		X=1 1/2" X=3"	LG-128 LG-128A	10'-6" 10'-6"	3 1/2" 6 1/2"	1.88 # 3.76 #

PRODUCT INFORMATION

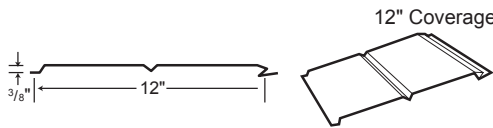
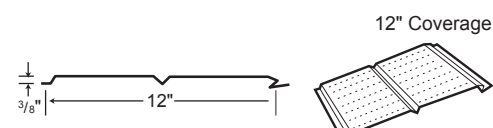
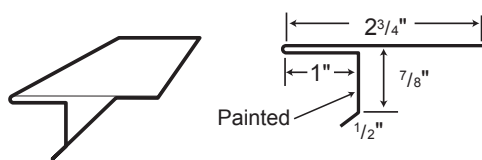
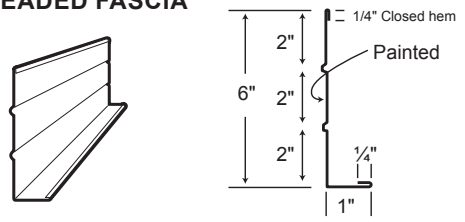
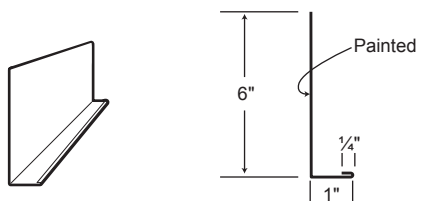
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
WINDOW DRIP CAP 	X=1" X=1 1/2"	LG-129 LG-129A	10'-6" 10'-6"	3 1/4" 3 3/4"	1.60 # 1.88 #
SLIDING DOOR DRIP CAP 		LG-130	10'-6"	5 1/4"	4.42 #
NATIONAL DOOR TRACK COVER 		LG-131 LG-131A	10'-6" 16'	10 3/8" 10 3/8"	5.48 # 8.35 #
COMBO TRACK COVER 		LG-132 LG-132A	10'-6" 16'	12" 12"	6.30 # 9.60 #
TOP MOUNT TRACK COVER 		LG-133 LG-133A	10'-6" 16'	10 7/8" 10 7/8"	5.57 # 8.50 #
TRACK DOOR JAMB TRIM 	Painted	LG-134	10'-6"	11 5/8"	6.30 #

PRODUCT INFORMATION

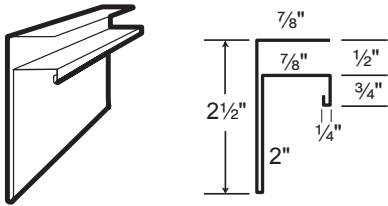
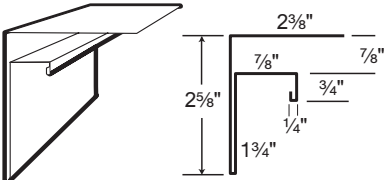
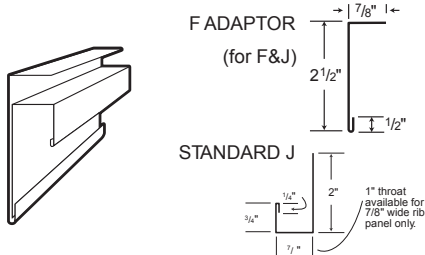
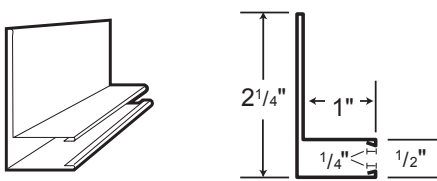
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
OVERHEAD DOOR OVERHEAD DOOR ADAPTOR (7 7/8") 	Two Piece Assembly	LG-235	10'-6"	9 1/2"	6.50 #
	One Piece Assembly	LG-135	10'-6"	12 3/4"	6.69#
OVERHEAD DOOR OVERHEAD DOOR ADAPTOR (9 1/8") 	Two Piece Assembly	LG-236	10'-6"	10 3/4"	7.65 #
	One Piece Assembly	LG-136	10'-6"	14"	7.35#
KEYSTONE PIECE 		LG-137	13 3/4" X 18"	N/A	1.00 #
"W" FORMED VALLEY 	X=9"	LG-138	10'-6"	20"	10.30 #
	X=14"	LG-139	10'-6"	30"	15.45 #
ROLL VALLEY 	29 Gauge	Roll Valley	50'-0"	20 3/16"	65 #
FLAT SHEET 	40 7/8" X 126" Galvanized & Color	Flat Sheet			22.89 #
	44 1/2" X 126" Galvalume Plus®	Flat Sheet			24.03 #

*Skidding charge of \$42.00 will be added

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
V GROOVE SOFFIT 	Available-All Colors	LG-140	12'-6"	13 3/4"	8.75 #
		LG-140A	11-3/4"	13-3/4"	.7 #
		LG-140B	23-3/4"	13-3/4"	1.4 #
	Custom sheared lengths are available. Recommended for applications under 4'				
V GROOVE PERFORATED SOFFIT 	Available-All Colors	LG-142	12'-6"	13 3/4"	8.75 #
		LG-142A	11-3/4"	13 3/4"	.65 #
		LG-142B	23-3/4"	13 3/4"	1.3 #
	Custom sheared lengths are available. Recommended for applications under 4'				
*Perforation voids finish warranties					
STYLE "D" 	LG-144	10'-6"	5 1/8"	3 #	
29 Gauge steel available in all colors					
BEADED FASCIA 	LG-145	10'-6"	7 1/2"	4.02 #	
29 Gauge steel available in all colors					
FASCIA 	29 Gauge Steel	LG-146S	10'-6"	7 1/4"	3.67 #
Not available w/ beads					

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
<p>F & J SOFFIT</p> 	<p>Longer Lead times may apply - Inquire</p>	<p>LG-147</p>	<p>10'-6"</p>	<p>7 1/4"</p>	<p>3.67 #</p>
<p>F & J PANEL</p> 	<p>Longer Lead times may apply - Inquire</p>	<p>LG-182</p>	<p>10'-6"</p>	<p>8 5/8"</p>	<p>4.75 #</p>
<p>F&J ASSEMBLY</p>  <p>Two piece trim</p>	<p>Non-Exposed Assorted Material</p> <p>Order Separate</p>	<p>LG-147F</p> <p>LG-123</p>	<p>10'-6"</p> <p>10'-6"</p>	<p>3 7/8"</p> <p>3 7/8"</p>	<p>2.32 #</p> <p>2.32 #</p>
<p>"F" CHANNEL</p> 	<p>29 Gauge Steel</p>	<p>LG-148S</p>	<p>10'-6"</p>	<p>6 1/2"</p>	<p>3.29 #</p>

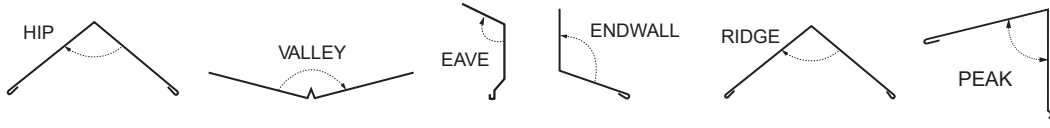
PRODUCT INFORMATION

HOW TO ORDER SPECIAL TRIM

NOTE:

1. Always indicate the dimension of each segment.
2. Always indicate each angle in degrees
3. Indicate the number of hemmed edges
4. Always indicate the exposed or colored side of each trim piece.
5. Calculate girth, which is the total width of trim piece.

DEGREES BASED ON ROOF PITCH



	ROOF SLOPE											
	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	12:12
HIP AND VALLEY	173°	166°	160°	154°	148°	143°	138°	133°	129°	126°	123°	120°
EAVE AND ENDWALL	94°	99°	104°	108°	112°	116°	120°	123°	126°	129°	132°	135°
RIDGE	170°	161°	152°	143°	135°	127°	120°	113°	106°	100°	95°	90°
PEAK	85°	81°	76°	72°	67°	63°	60°	56°	53°	50°	47°	45°

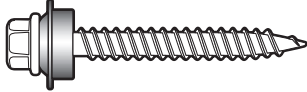
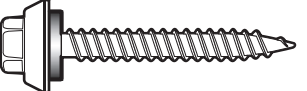
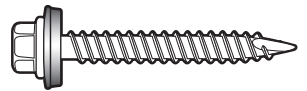
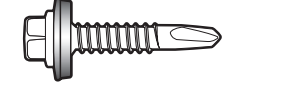




TRANSITION/LOWER GAMBREL FLASHING

		FROM											
		12:12	11:12	10:12	9:12	8:12	7:12	6:12	5:12	4:12	3:12	2:12	1:12
TO	1:12	139°	142°	144°	147°	150°	154°	158°	162°	168°	172°	177°	
	2:12	144°	147°	149°	152°	156°	159°	163°	167°	171°	176°		
	3:12	149°	151°	154°	157°	160°	163°	167°	171°	175°			
	4:12	153°	156°	158°	161°	164°	168°	172°	176°				
	5:12	157°	160°	162°	165°	168°	172°	176°					
	6:12	161°	164°	166°	169°	172°	176°						
	7:12	165°	167°	170°	173°	176°							
	8:12	168°	171°	173°	176°								
	9:12	172°	174°	177°									
	10:12	175°	177°										
	11:12	177°											
	12:12												

UPPER GAMBREL FLASHING

		FROM					
		1:12	2:12	3:12	4:12	5:12	6:12
TO	18:12	128°	133°	137°	142°	146°	150°
	17:12	129°	134°	139°	143°	147°	151°
	16:12	131°	136°	140°	145°	149°	153°
	15:12	133°	138°	142°	147°	151°	155°
	14:12	135°	140°	144°	149°	153°	157°
	13:12	137°	142°	146°	151°	155°	159°
	12:12	139°	144°	149°	153°	157°	161°
	11:12	142°	147°	151°	156°	160°	164°
	10:12	144°	149°	154°	158°	162°	166°
	9:12	147°	152°	157°	161°	165°	169°
	8:12	150°	155°	160°	164°	168°	172°
7:12	154°	159°	163°	168°	172°	175°	


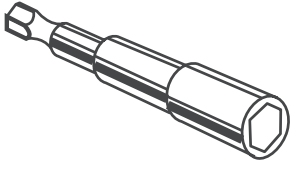
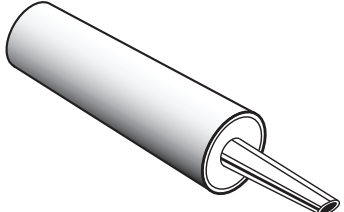
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	LB. PER BAG
WOOD FASTENER 	PANEL TO WOOD	8A	10 X 1"	2.18 #
	HEAD SIZE 1/4"	8	10 X 1 1/2"	2.70 #
		8B	10 X 2"	3.28 #
		8C	10 X 2 1/2"	3.85 #
		9D	10 X 3"	4.40 #
250 PER BAG - ALL SCREWS ARE PRICED PER 1,000 EA				
LONG LIFE WOOD FASTENER 	PANEL TO WOOD	9A	10 X 1"	3.55 #
	HEAD SIZE 5/16"	9	10 X 1 1/2"	4.58 #
250 PER BAG - SPECIAL ORDER ONLY				
STAINLESS STEEL WOOD FASTENER 	BI-METAL	108	10 X 1"	2.33 #
	FASTENER	205	10 X 1 1/2"	2.89 #
	HEAD SIZE 5/16"	154	10 X 2"	3.51 #
	250 PER BAG - SPECIAL ORDER ONLY PAINT SETUP CHARGES AND SHIPPING CHARGES WILL APPLY LONGER LEAD TIMES APPLY			
SELF-DRILLER 	PANEL TO METAL	17A	12 X 1 1/4"	3.88 #
	HEAD SIZE 5/16"			
250 PER BAG				
SELF-DRILLER LAP-TEK 	PANEL TO METAL	4A	14 X 7/8"	4.00 #
	HEAD SIZE 5/16"			
250 PER BAG				
SELF-TAPPING - Requires a pilot hole 	PANEL TO WOOD	18	14 X 1"	4.13 #
	HEAD SIZE 5/16"	18B	14 X 1 1/2"	5.15 #
	Pre-Drill Holes	18C	14 X 2"	6.58 #
	250 PER BAG - SPECIAL ORDER ONLY PAINT SETUP CHARGES AND SHIPPING CHARGES WILL APPLY LONGER LEAD TIMES APPLY			
POP RIVET 	STAINLESS STEEL	14	1/8" X 3/16"	.73 #
	250 PER BAG			
PANCAKE HEAD 	PANEL TO PLYWOOD	13	10 X 1"	1.78 #
	#2 Phillips-Wood Grip			
	250 PER BAG			

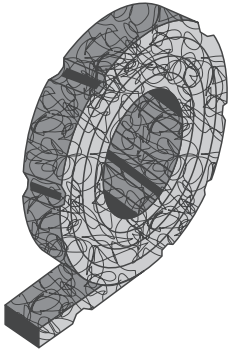
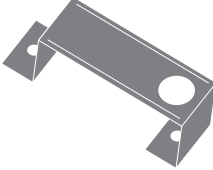
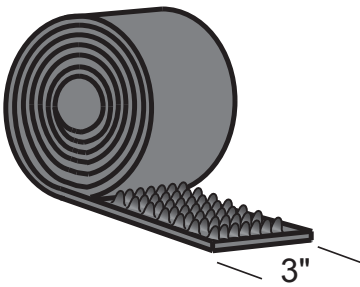
American Building Components recommends a #14 x 1", Type "A", hex head fastener with washer for all exposed fastener panels applied over a plywood or OSB substrate. The use of a #9 or #10 wood fastener into plywood or OSB substrates is not recommended. This refers to exposed fastener panels installed over solid decks only. Open purlin construction, such as 2 x 4's on 24" center, may be fastened with #9 or #10 wood fasteners.

NOTE: ALL SCREWS ARE PRICED PER 1,000 EA Other lengths and sized available. Not all fasteners in stock. UPS and paint charges may apply. PLEASE INQUIRE.

PRODUCT INFORMATION

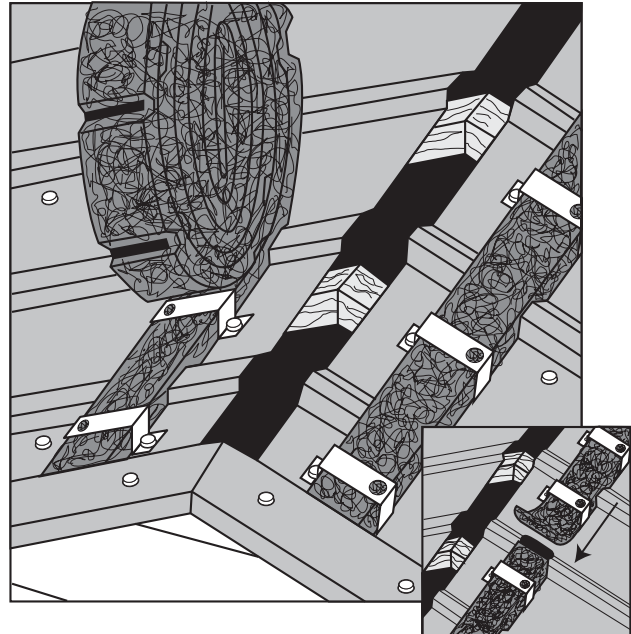
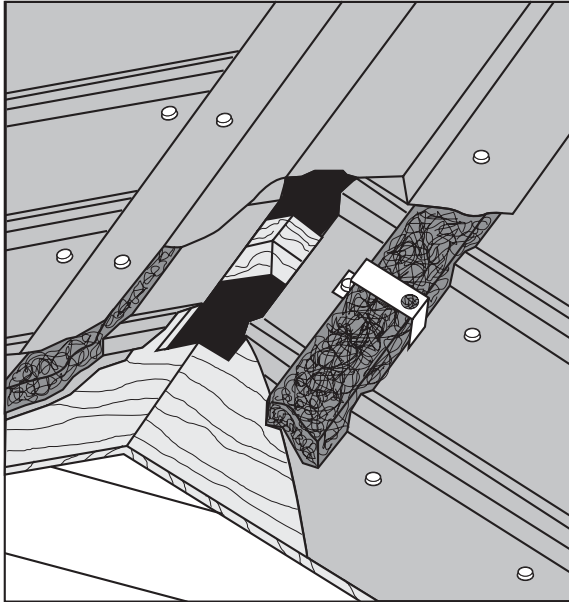
ITEM	SIZE	PART NUMBER	COLOR
<p>TOUCH UP PAINT - BRUSH TOP CAN</p> <p>*Std Colors</p>  <p>(Recommended for minor scratch cover only)</p>	<p>2 Oz. Bottle with brush</p>	<p>HW-304</p>	<p>See Standard Color Chart</p>
<p>ONE PIECE MAGNETIC SOCKET</p> 	<p>1/4" 5/16"</p>	<p>HW-606 HW-605</p>	
<p>URETHANE WHITE URETHANE BRONZE URETHANE ALMOND</p>  <p>*Silicone not recommended for panel applications</p>		<p>11 Oz. Tube HW-540 11 Oz. Tube HW-542 11 Oz. Tube HW-544</p>	<p>White Bronze Almond</p>

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH		
PROFILE VENT 	Imperial Rib® Regal Rib® Ameri-Drain® 7/8" Wide Rib® Monarch Rib® Rugged Rib® Perma-Clad® 5V Crimp®	HW-116IR HW-116RR HW-116AM HW-116WR HW-116MR HW-116RU HW-116PC HW-1165V	100' ROLL 100' ROLL 100' ROLL 100' ROLL 100' ROLL 100' ROLL 100' ROLL 100' ROLL		
*Two 50' Rolls per Pkg					
PROFILE VENT ANCHOR CLIP 	GENERAL	PART NUMBER	CLIP HEIGHT	WEIGHT	CARTON SIZE
®					
HW-2075					
1"					
.042 each					
25					
HW-2076					
1 1/4"					
.045 each					
25					
VERSA VENT 	GENERAL	PART NUMBER		WEIGHT	CARTON SIZE
1" Thickness					
HW-111					
10'-0"					
10					
1 1/4" Thickness					
HW-112					
10'-0"					
10					

PRODUCT INFORMATION

PROFILE VENT



NEW OR RE-ROOF ON PURLIN OR WOOD DECK CONSTRUCTION

Use a 2" opening at the ridge to provide ventilation. On new or re-roof wood deck construction cut a 2" slot at the ridge (1" each side, start cut 6" from gable ends). On purlin construction position panels to leave a 2" opening.

IMPORTANT NOTE: This ventilation system is not guaranteed to be weather proof under all conditions. Many factors affect the weathertightness of this or any ventilator apparatus. ABC recommends consulting a qualified architect, design engineer, or HVAC professional for your particular application.

TECHNICAL DATA

Passed	Net Free Area	1" nom. thickness	8.5 sq. in. per lin. ft. per slope (17 sq. in. per lin. fit. ridge)
Passed	Air Permeability	ASTM D737	>>760 cu. ft. per minute
Passed	Self-ignition Temp.	ASTM D1929	963°F
Passed	Cold Crack	Loren C115	Resistance to >-25°F
Passed	Snow Infiltration	CRL 5704	-0-
Passed	Tear Strength	ASTM D1294-86	Tear: Machine 25 p.p.i. Counter 25 p.p.i.
Passed	Tensile Strength	ASTM D2261-83	Tear: Machine 25 p.p.i. Counter 25 p.p.i.
Passed	Attic Dust Test	ASTM D1739-98	No Clogging, will not hold dust
Passed	Dust Exposure Test	ICBO AC132	
Passed	Loren	Compression	13%
		Recovery	100%
Passed	UV Stable	Chamber Test	No change to cover or materials
Passed	Abrasion Test	ASTM D1175	No damage to panel surface
Passed	100 MPH Wind Driven Rain Test		

PRODUCT INFORMATION

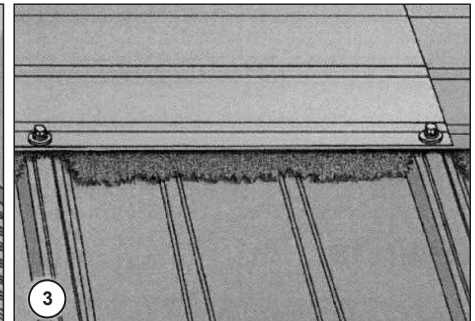
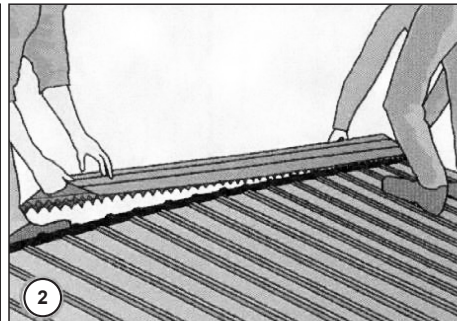
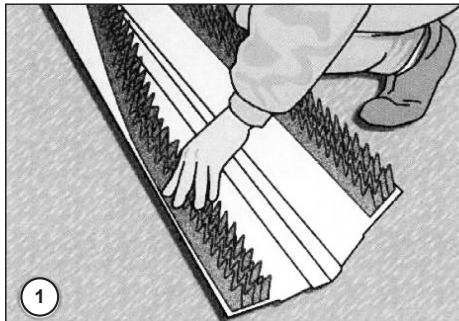
VERSAVENT™



X-10 VersaVent™

VersaVent™ comes in two sizes in lengths of 10 feet, mirroring the length of most ridge caps. The product is not profile sensitive, which allows for less SKU's and scrap material at the jobsite. VersaVent™ can be applied to the ridge cap by the roll former or while on the ground allowing for easier, quicker, and safer application.

EASY 1, 2, 3 INSTALLATION



1. On the ground apply VersaVent™, with adhesive strip, to the underside of the ridge cap ¼" from each edge. VersaVent™ can be cut to length with a utility knife or scissors.

2. With the VersaVent™ held in place by the adhesive apply the ridge cap per manufacturers instructions.

3. When installing be sure the Atlas fasteners are positioned at the edge of the ridge cap so the fasteners pass through the VersaVent™ material. When necessary cut the VersaVent™ material back to over lap two pieces of ridge cap.


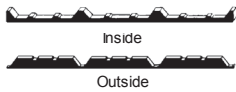
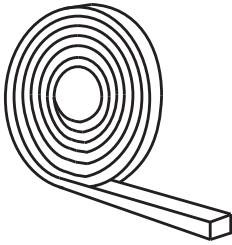



VENTED RIDGE PRODUCT TYPICAL PROPERTIES

PROPERTY	TEST DESCRIPTION	RESULTS
Panel Fit		2 Sizes Fit Most Panels
Net Free Area	1" Nominal Thick	8.5 Sq.In. Per LF-Slope 17 Sq.In. Per LF-Ridge
Air Permeability	ASTM D737	760 Cu.Ft. Per Min.
Heat Resistance	180° for 500 Hrs.	No Change
Humidity Resistance	ASTM D2247-97	No Change
Cold Cracked	F87260 Sec. 4-C14	-55° C (-130° F)
Cold Resistance	10° for 500 Hrs.	No Change
Snow Infiltration	CRL 5704	0
Tear Strength	ASTM D3574	3.5 PPI
Tensile Strength	ASTM D3574	16 PSI - Elong. 175%
Compressive Strength	ASTM D3574	1.8 PSI@75%
Abrasion	ASTM D1175	No Damage
110 MPH Wind-Driven Rain	CRL 6875	Passed Dade County Protocol TAS 100 "A"
Water Immersion	500 Hrs.	No Change
QUVV Weatherometer	ASTM G154	No Change
Attic Ventilation	UBC Code	Meets Code

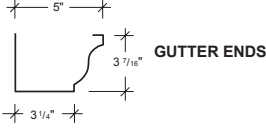

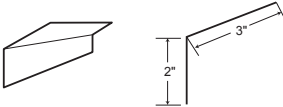
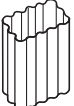




- **Highly engineered design allows 2 sku's to conform to most roof panel profiles.**
- **Application to ridge cap, allows:**
 - **Easy, one person installation**
 - **No fall protection required**
 - **Will not blow off while installing the ridge cap**
- **Boxes contain 10 each 10' sections, and product can be ordered per job, matching ridge cap length**
- **No roof measurements, caulking, sealants or clips required**
- **Clean, dust free installation**
- **Two strips of continuous glue keeps material in place during installation**
- **Screws go through ridge cap and VersaVent™**

All test results and recommendations are based on laboratory test. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications vary, we assume no liability for use of this information.

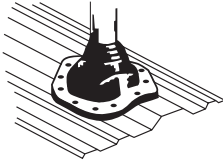

PRODUCT INFORMATION

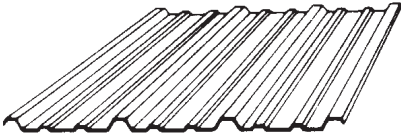
ITEM	GENERAL	PART NUMBER	ADHESIVE	LENGTH	WEIGHT
UNIVERSAL CLOSURE 	1 1/2" x 1"	HW-422A	NO	25"	.15 #
CLOSURE STRIP Specify Panel Configuration 	Imperial Rib® - Inside Imperial Rib® - Outside Regal Rib® - Inside Regal Rib® - Outside Ameri-Drain® - Inside Ameri-Drain® - Outside 7/8" Wide Rib® - Inside 7/8" Wide Rib® - Outside Monarch Rib® - Inside Monarch Rib® - Outside Rugged Rib® - Inside Rugged Rib® - Outside Perma Clad® - Inside Perma Clad® - Outside 5V Crimp® - Inside 5V Crimp® - Outside	HW-472 HW-473 HW-483 HW-484 HW-476 HW-477 HW-474 HW-475 HW-485 HW-486 HW-481 HW-482 HW-470 HW-471 HW-450 HW-452	NO YES NO YES NO YES NO YES NO YES YES NO YES NO YES NO YES	36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 36" 24" 24"	.03 # .06 # .03 # .06 # .03 # .06 # .03 # .06 # .03 # .06 # .03 # .06 # .03 # .06 # .03 # .06 # .03 # .04 #
EMSEAL FOAM 					
	GENERAL	PART NUMBER	RECOMMENDED THICKNESS	CARTON SIZE	LENGTH
	Imperial Rib®	HW-513A	1-1/2"	24	13'-2"
	PBU Panel	HW-513A	1-1/2"	24	13'-2"
	7/8" Wide®	HW-513A	1-1/2"	24	13'-2"
	Perma Clad®	HW-513	1"	32	19'-8"
	Ameri-Drain®	HW-513	1"	32	19'-8"
	Monarch Rib®	HW-513	1"	32	19'-8"
	5V Crimp®	HW-513	1"	32	19'-8"
	Regal Rib®	HW-513	1"	32	19'-8"
Rugged Rib®	HW-513	1"	32	19'-8"	
TAPE SEALER  FLAT	GENERAL	PART NUMBER	CARTON SIZE	LENGTH	ROLL WEIGHT
	3/8" x 3/32"	HW-505	48	45'-0"	1.70 #
	1/2" x 3/32"	HW-507	20	50'-0"	1.70 #
	1" x 3/32"	HW-506	12	40'-0"	3.50 #
	SOLD PER ROLL				
 TRIPLE BEAD TAPE  TRI-BEAD TAPE	2 1/2" X 3/16"	HW-502	6	20'-0"	21.00 #
	7/8" X 3/16"	HW-504	8	25'-0"	17.74 #
SOLD PER CARTON					

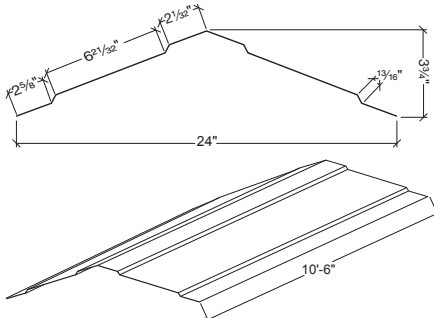
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
5K GUTTER 		LG-161	16'-0"	12"	9.96#
	LEFT	LG-167A	N/A	N/A	.1#
	RIGHT	LG-167B	N/A	N/A	.1#
	*Available in standard colors				
INSIDE-OUTSIDESQUARECORNER 	INSIDE	LG-168			
	OUTSIDE	LG-168A			
WHITE ONLY - May be field painted to match other colors					
GUTTER APRON 		LG-149	10'-6"	5"	2.70#
5K 4" X 3" DOWNSPOUT 		LG-180	10'	10 1/2"	5.60#
DOWNSPOUTSTRAP(FIELDBEND)		HW-1329	N/A	N/A	.02#
5K 4" X 3" ELBOW 	TYPE A	LG-181A	N/A	N/A	.5#
5K 4" X 3" ELBOW 	TYPE B	LG-181B	N/A	N/A	.5#
3" OVAL OUTLET TUBES 		HW-1328	N/A	N/A	.05#
5K HIDDEN HANGER 		HW-339	5"	N/A	.02#

PRODUCT INFORMATION

ITEM	PIPE SIZE	PART NUMBER	TEMP. RANGE	BASE DIM	WEIGHT	SIZE	
RUBBER ROOF JACK 	1/4"-2"	HW-1000	-65°-+212°	4 1/2"	.17 #	15	
	1/4"-5"	HW-1001	-65°-+212°	8"	.50 #	15	
	4"-7"	HW-1002	-65°-+212°	11"	.95 #	10	
	6"-11"	HW-1003	-65°-+212°	14"	1.55 #	10	
	7"-13"	HW-1004	-65°-+212°	17"	2.56 #	5	
	HIGH TEMPERATURE						
	1/4"-5"	HW-1046	-100°-+437°	8"	.50 #		
	4"-7"	HW-1047	-100°-+437°	11"	.95 #		
	7"-13"	HW-1048	-100°-+437°	17"	2.56 #		
	10"-18"	HW-1049	-100°-+437°	25"	3.86 #		
High Temperature per special order. Please inquire. UPS Charges apply							
RETROFIT RUBBER ROOF JACK 	1/2"-4"	HW-1005	-65°-+212°	8 3/16"	.74 #	5	
	4"-9 1/4"	HW-1006	-65°-+212°	14 1/4"	2.20 #	1	
	9 1/4"-16 1/4"	HW-1007	-65°-+212°	21 1/2"	11.00 #	1	
	HIGH TEMPERATURE						
	1/2"-4"	HW-1060	-100°-+437°	8 3/16"	.74 #	5	
	4"-9 1/4"	HW-1061	-100°-+437°	14 1/4"	2.20 #	1	
	9 1/4"-16 1/4"	HW-1062	-100°-+437°	21 1/2"	11.00 #	1	
	High Temperature per special order. Please inquire. UPS Charges apply						

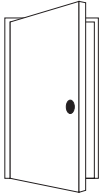
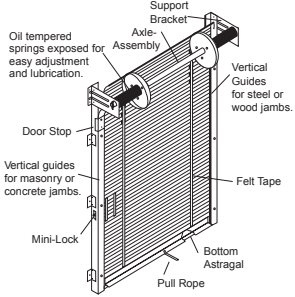
ITEM	GENERAL	PART			COLOR	WEIGHT
		NUMBER	LENGTH	WIDTH		
LIGHT TRANSMITTING PANEL LOW MODULUS/ NON-REINFORCED 5 OZ. WHITE 	Imperial Rib®	HW-1566D	2'	38"	White	2.40#
	Imperial Rib®	HW-1566C	8'	38"	White	9.80#
	Imperial Rib®	HW-1566A	10'	38"	White	12.81#
	Imperial Rib®	HW-1566B	12'	38"	White	14.60#
	Imperial Rib®	HW-1566E	12'	38"	Clear Fiberglass	14.60#
	Imperial Rib®	HW-1689	12'	38"	Clear Polycarb	8.40#
	Perma Clad®	HW-1564	12'	38"	White	11.30#
	Ameri-Drain®	HW-1654	12'	38"	White	11.28#
	Ameri-Drain®	HW-1400	12'	38"	Clear	14.60#
	Rugged Rib®	HW-1663	12'	38"	White	11.28#
	Regal Rib®	HW-1673	12'	38"	White	11.28#
	Monarch Rib®	HW-1683	12'	38"	White	11.28#
	7/8" Wide Rib®	HW-1584	12'	38"	White	14.60#

LIGHT TRANSMITTING RIDGE PANEL 	Use with	HW-1698	10'-6"	24"	Fiberglass	6.70#
	all panel profiles	HW-1688	10'-6"	24"	Clear Polycarb	6.70#

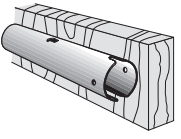
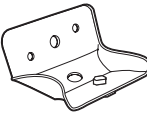

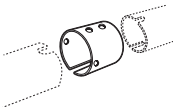
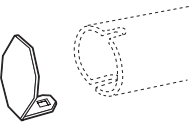
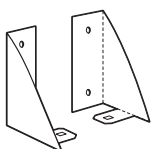
CAUTION

It is the user's responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through.


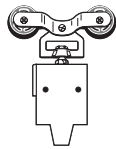
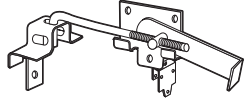

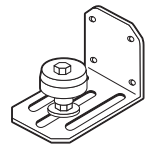

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	SIZE	FINISH	WEIGHT
<p>3070M AG DOOR</p> 	<p>NOTE: All doors include frame, leaf, hinges, and threshold.</p> <p>ADA regulations require lever lockset for public access buildings.</p>	<p>HW-9200 HW-9201</p>	<p>3070 M 3070 NL</p>	<p>White White</p>	<p>162.00 # 162.00#</p>
<p>ROLL UP DOOR PKG</p> 	<p>For custom sizes, please inquire.</p>	<p>HW-9098 HW-9040 HW-9046 HW-9045 HW-9052 HW-9042 HW-9051 HW-9043 HW-9099 HW-9044</p>	<p>NOTE: 1. Please specify wood, steel or masonry application. 2. Door includes handle, rope, fasteners, brackets, tension pin, cotter pin and standard latch. 3. Freight charges may apply.</p>		<p>46.00 # 49.00 # 61.00 # 74.00 # 98.00 # 110.00 # 126.00 # 140.00 # 158.00 # 175.00 #</p>

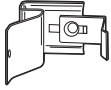
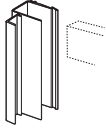
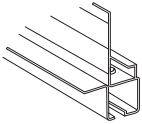
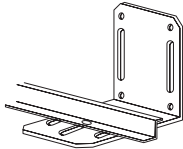
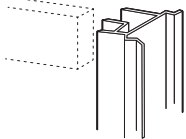
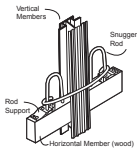
PRODUCT INFORMATION

ITEM	GENERAL	LENGTH	WEIGHT
T1 PLY-TRACK 	14-Gauge Track Brackets at 2' Centers	8' 10' 12'	16.80 # 21.00 # 25.20 #
T2A SIDE MOUNT BRACKET 		N/A	.2 #
T2B SIDE MOUNT BRACKET (FOR COVER) 		N/A	.6 #
T3 SPLICE COLLAR 	One for each piece of track in the run less one.	N/A	.61 #
T4 ENDCAP WITH MOUNTING BOLT 	Two for each track run.	N/A	.20 # per pair
T5F END TRIM FACE MOUNT (WHITE) 	Two for each track run. Packaged with screws for face mount cover.	N/A	.6 # per pair

PRODUCT INFORMATION

ITEM	GENERAL	LENGTH	WEIGHT
T6 ADJUSTABLE OFFSET BOLT TROLLEY HANGER (DELTRIN®) 	Rated for 500 lbs.	9 1/2" BOLB	4.6 # per pair
T7 ADJUSTABLE OFFSET TROLLEY HANGER (DELTRIN®) 	One pair for wood frame doors up to 1 13/16" in thickness.	N/A	6.80 # per pair
T9 JAMB LATCH 	Adjustable 7" jamb holds door firmly in place against jamb. This latch can be used for right or left hand application.	N/A	1
T10 JUMBO DOOR PULL 	White (vinyl coated) Zinc Plated	N/A N/A	.50 # .51 #
T11 ADJUSTABLE OFFSET STAY ROLLER 	Galvanized	N/A	1.90 #
T12 ADJUSTABLE DOOR GUIDE AND STOP 	Galvanized	N/A	3 #

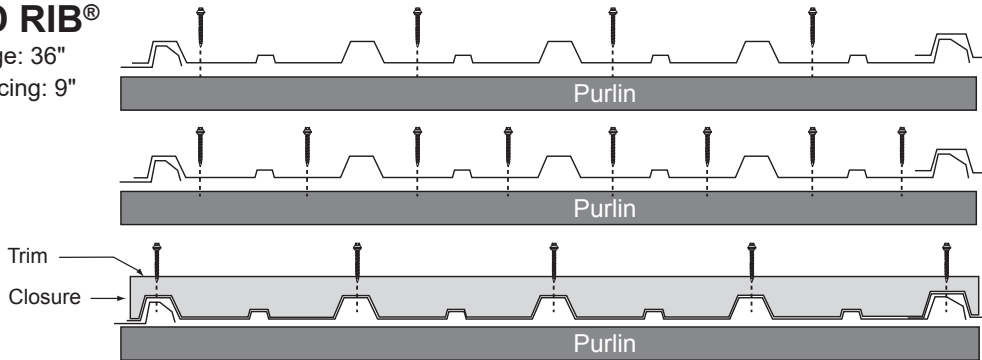
PRODUCT INFORMATION

ITEM	GENERAL	LENGTH	WEIGHT
T13 DOOR STOP ADJUSTABLE 	Galvanized	N/A	1.10 #
T18 SIDERAIL 	White Only Not Punched	10' 12' 14' 16'	7.60 # 9.12 # 10.64 # 12.16 #
T19 BOTTOM RAIL 	White Only Attaches to wood bottom rail and used with T20 Guiderail.	10' 12' 14' 16'	8.00 # 9.60 # 11.20 # 12.80 #
T20 GUIDERAIL 5'-0" T20 GUIDERAIL 10'-0" 	Brackets and hardware included.	5' 10'	6 # 12 #
T21 DOUBLE COUPLE 	White Only Not Punched Siderail and "H" vertical rail for split door closures.	10' 12' 14' 16'	9.30 # 11.16 # 13.02 # 14.88 #
T22 CENTER SNUGGERLATCH 		5 1/2"	1.71 #

PRODUCT INFORMATION

RUGGED RIB®

Panel Coverage: 36"
Major Rib Spacing: 9"



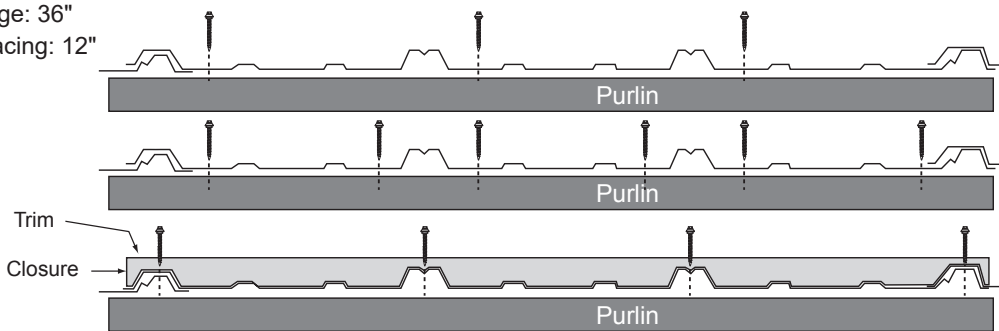
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

REGAL RIB®

Panel Coverage: 36"
Major Rib Spacing: 12"



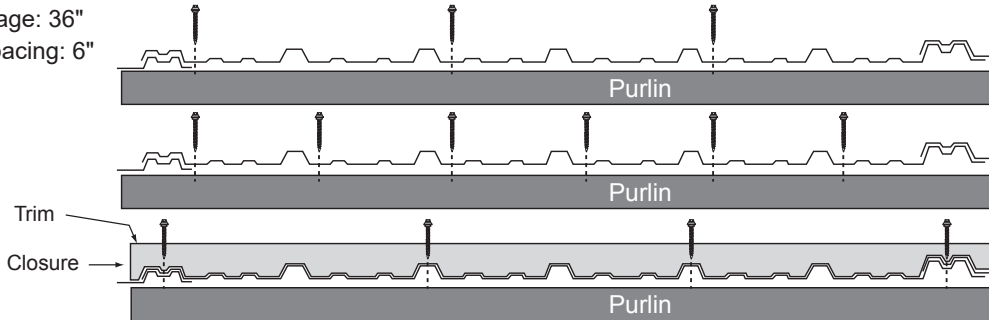
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

AMERI-DRAIN®

Panel Coverage: 36"
Major Rib Spacing: 6"



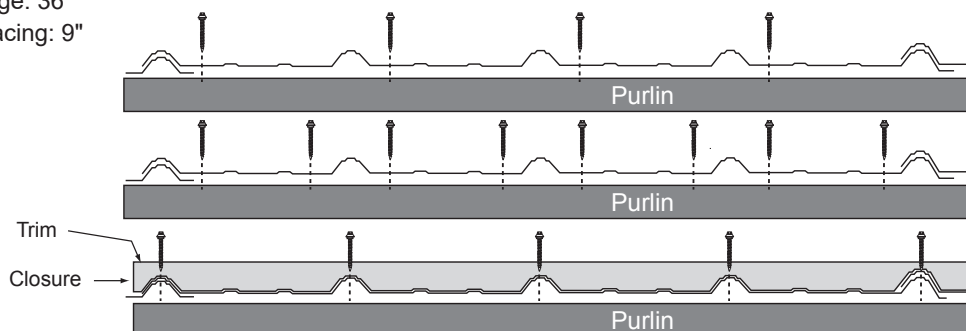
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

IMPERIAL RIB®

Panel Coverage: 36"
Major Rib Spacing: 9"



Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

Note: Using a depth setting nosepiece is recommended for proper installation.

PRODUCT INFORMATION

PERMA-CLAD®
 Panel Coverage: 36"
 Major Rib Spacing: 9"

Purlin

Purlin

Trim
Closure

Purlin

Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

7/8" WIDE RIB®
 Panel Coverage: 36"
 Major Rib Spacing: 12"

Purlin

Purlin

Trim
Closure

Purlin

Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

MONARCH RIB®
 Panel Coverage: 36"
 Major Rib Spacing: 9"

Purlin

Purlin

Trim
Closure

Purlin

Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

<p>FOR MONARCH RIB® ONLY</p> <p>IMPORTANT: Screw perpendicular to slanted surface as indicated</p>	<p style="text-align: center;">DRILLING / DRIVING TIPS FOR ALL OUR RIBS</p> <p>IMPORTANT: Apply sufficient torque to seat the washer, DO NOT OVER DRIVE THE FASTENER.</p> <p>IMPORTANT: Remove any metal filings created during fastener placement to prevent rust marks on the panel surface.</p> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">WASHER</th> <th style="width: 25%;">CORRECT</th> <th style="width: 25%;">TOO LOOSE</th> <th style="width: 25%;">TOO TIGHT</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Weather-gard dome</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	WASHER	CORRECT	TOO LOOSE	TOO TIGHT	Weather-gard dome			
WASHER	CORRECT	TOO LOOSE	TOO TIGHT						
Weather-gard dome									

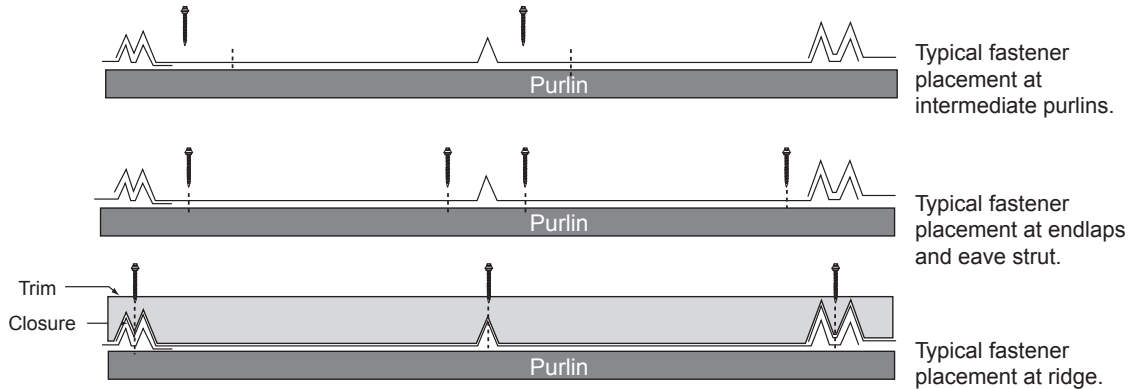
NOTE: 80 fasteners per square average quantity for roof. 60 Fasteners per square average quantity required for walls. You may require more or less depending on design requirement. Consult a qualified engineer or architect for specific requirements needed to meet local design codes, weather conditions or other related factors.

Note: Using a depth setting nosepiece is recommended for proper installation.

PRODUCT INFORMATION

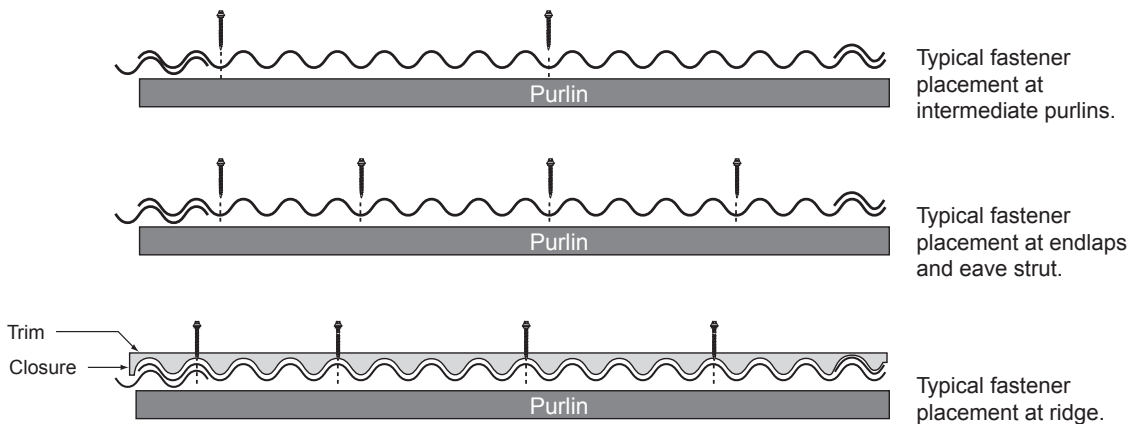
5V CRIMP

Panel Coverage: 24"
Major Rib Spacing: 12"



CORRUGATED

Panel Coverage: 24"



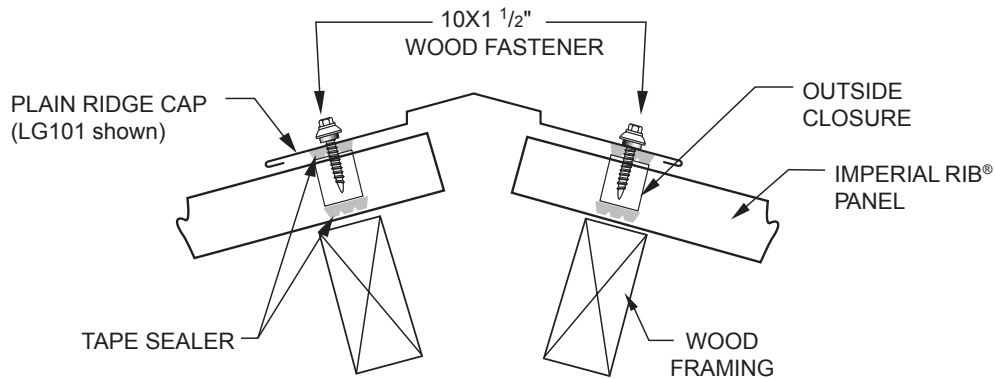
American Building Components recommends a #14 X 1", Type "A", hex head fastener with washer for all exposed fastener panels applied over a plywood or OSB substrate. The use of a #9 or #10 wood fastener into plywood or OSB substrates is not recommended. This refers to exposed fastener panels installed over solid decks only. Open purlin construction, such as 2 X 4's on 24" center, may be fastened with #9 or #10 wood fasteners.

Note: Using a depth setting nosepiece is recommended for proper installation.

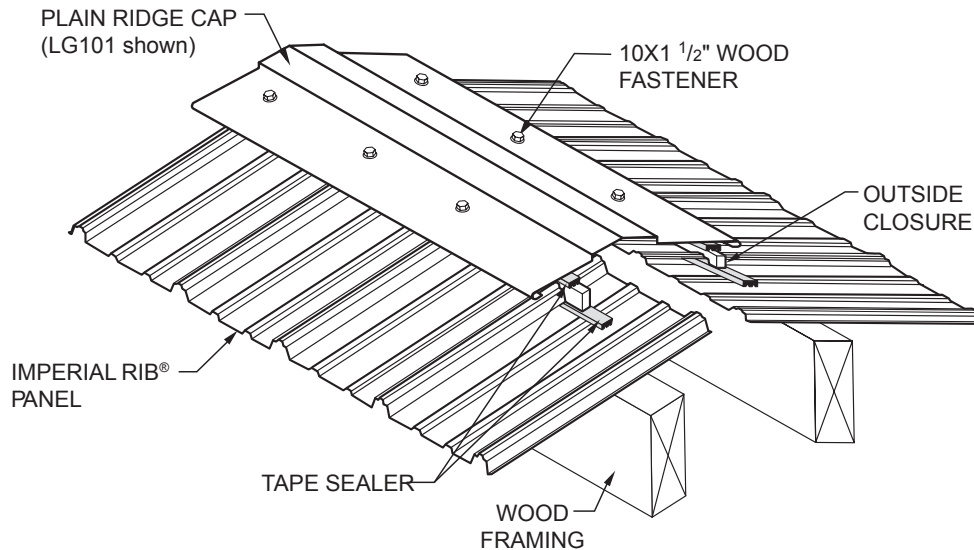
DETAILS

RIDGE APPLICATION DETAIL

CROSS SECTION OF RIDGE



ISOMETRIC VIEW OF RIDGE

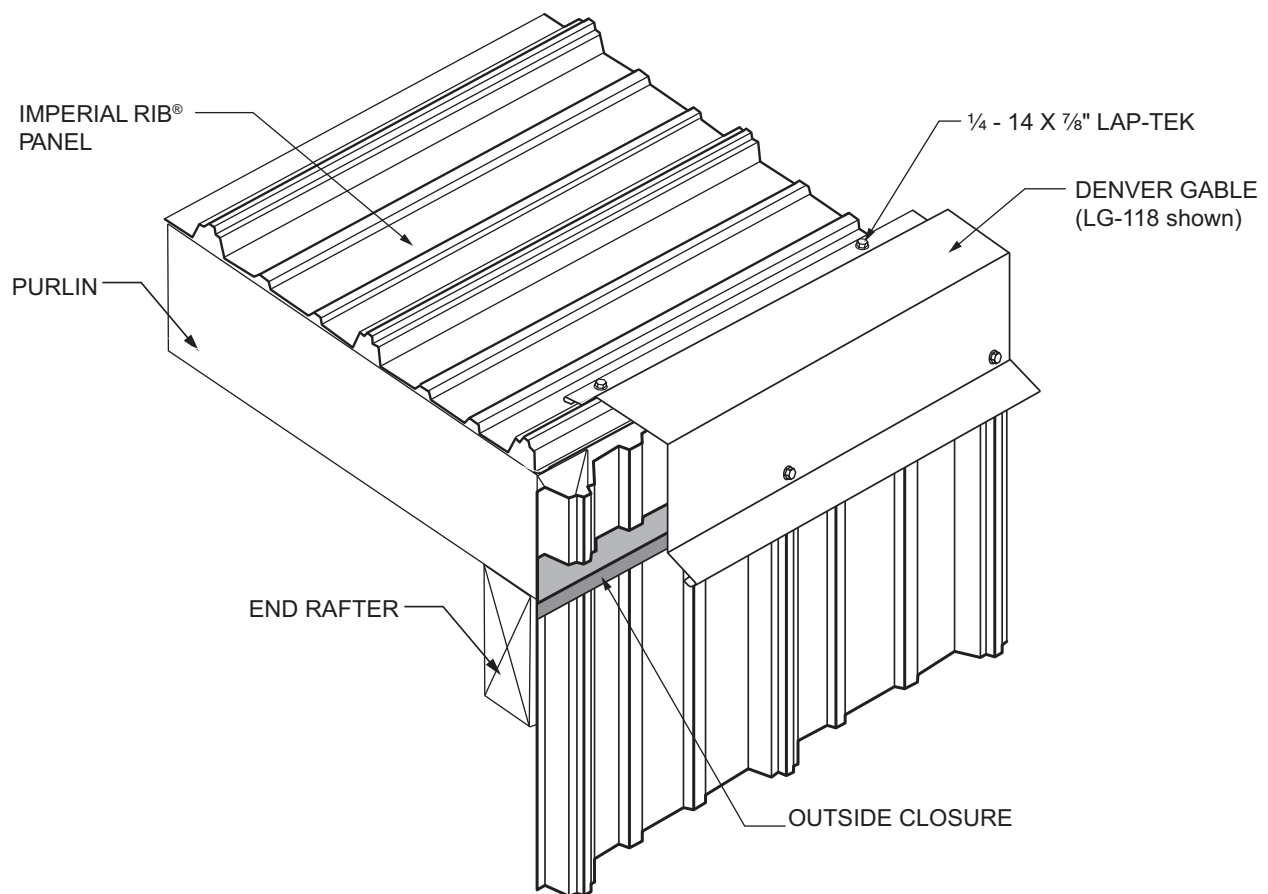


NOTES:

1. Stop panels 2" from center line of ridge or leave a gap of 1 3/4" between panels at the peak.
2. Install tape sealer across width of panels. Top edge of tape sealer is 1 3/4" from top edge of panel. Install outside closures or vent material on top of tape sealer. Install additional run of tape sealer on top of outside closure or vent material.
3. Attach Plain Ridge Cap (LG101 shown) or Ridge/Hip (CF101) with 10x1 1/2" wood fasteners. Install fasteners at each major rib in the panel to avoid dimpling the ridge cap.

DETAILS

RAKE/GABLE DETAIL



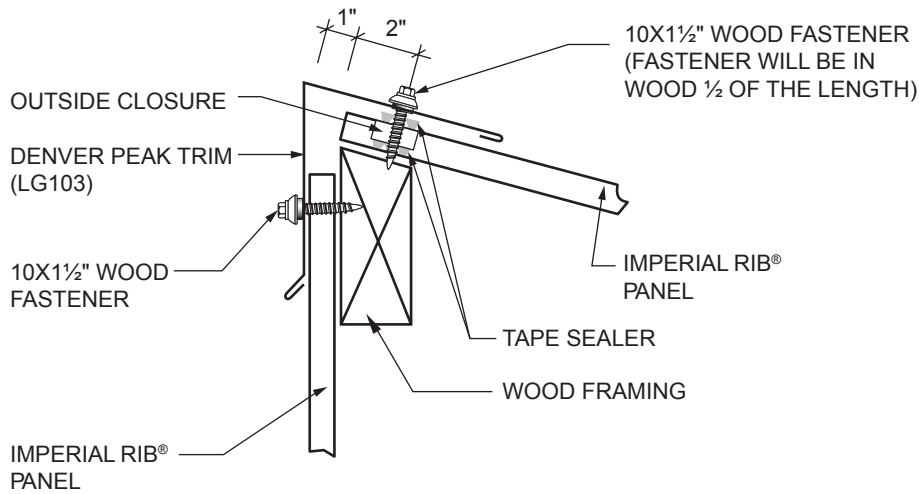
NOTES:

1. Attach Rake/Gable trim (LG118 shown) with 10 X 1 1/2" woodgrip or 14 x 7/8" lap tek.
2. Sealant Tape and Closure Strip is recommended.

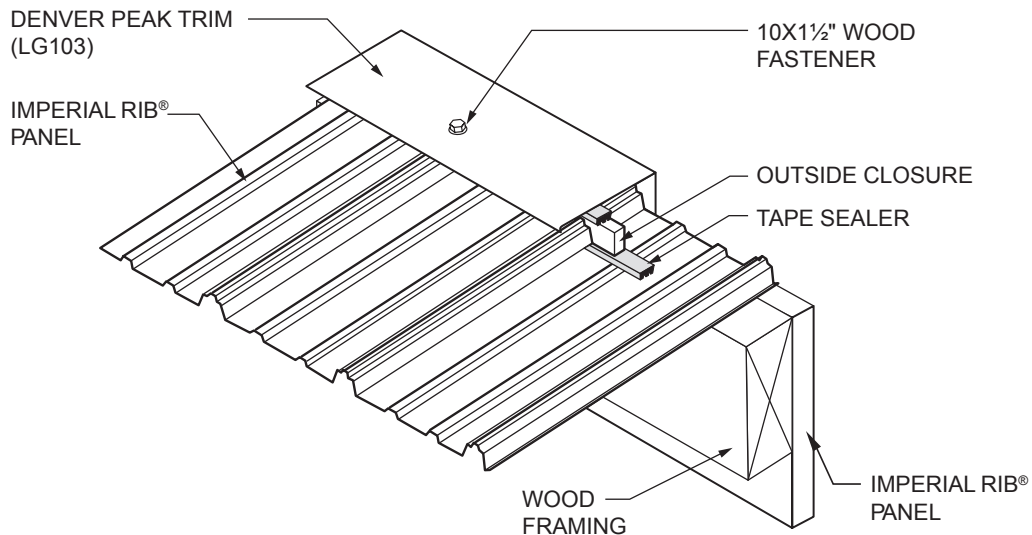
DETAILS

DENVER PEAK TRIM APPLICATION DETAIL

CROSS SECTION OF DENVER PEAK TRIM



ISOMETRIC VIEW OF DENVER PEAK TRIM



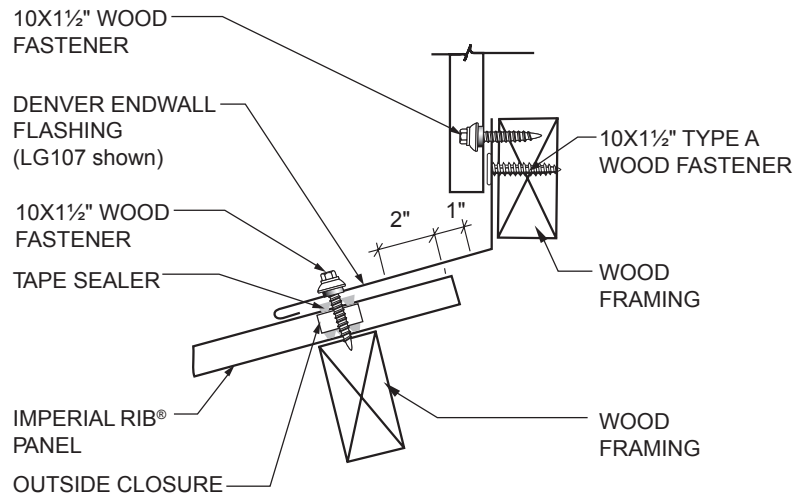
NOTES:

1. Install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top of outside closures.
2. Attach Denver Peak Trim (LG103) to panels with 10x1 1/2" wood coated fasteners through all major ribs.

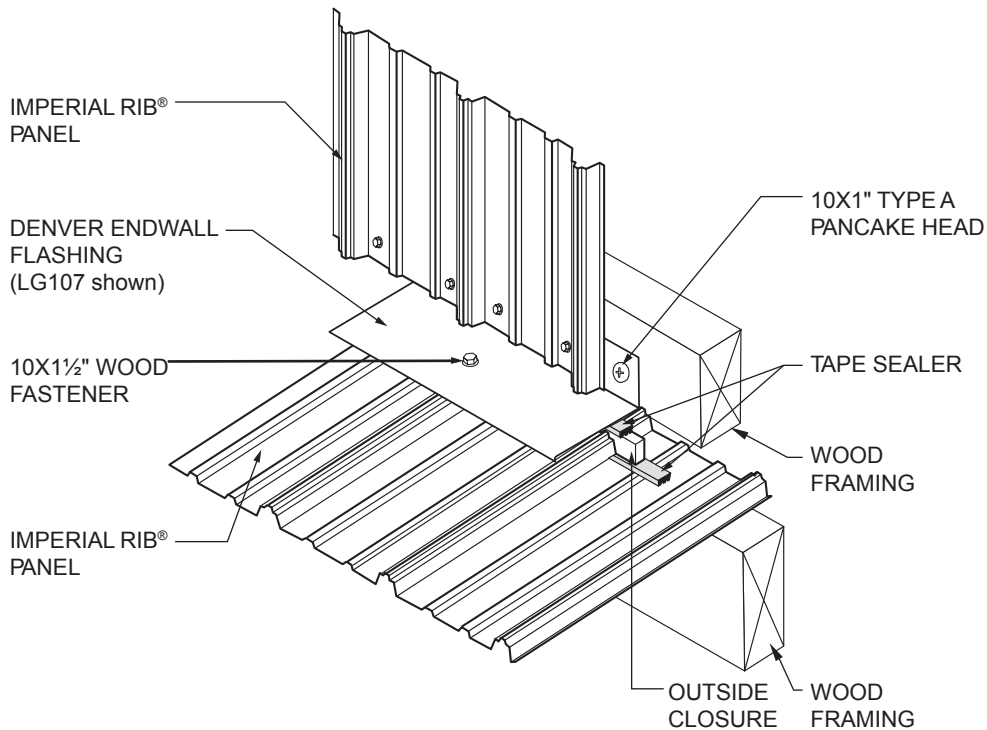
DETAILS

ENDWALL FLASHING APPLICATION DETAIL

CROSS SECTION OF ENDWALL FLASHING



ISOMETRIC VIEW OF ENDWALL FLASHING



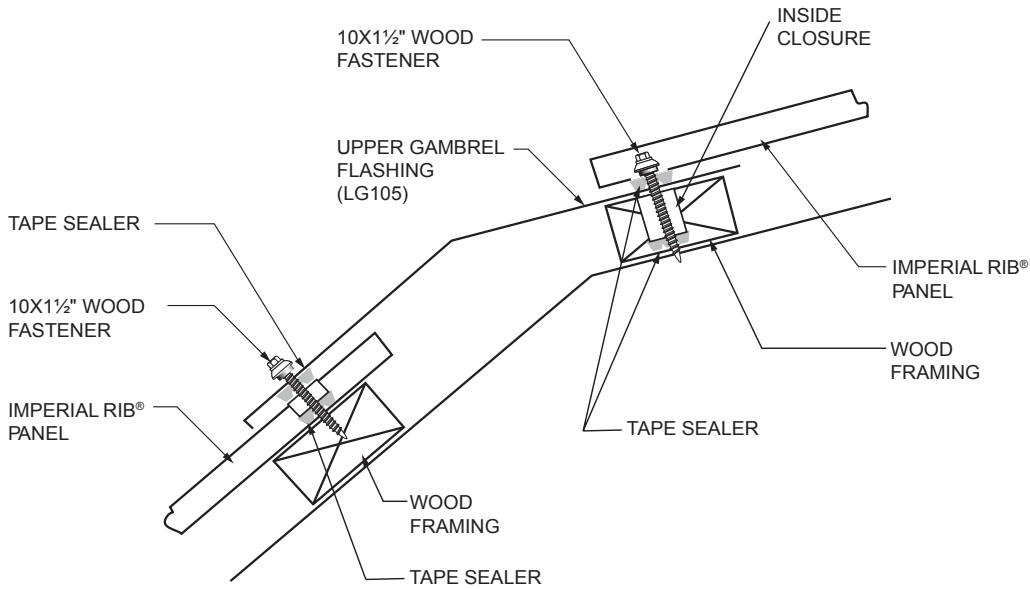
NOTES:

1. Install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top of outside closures.
2. Attach Denver Endwall Flashing (LG107) to panels with 10x1 1/2" woodgrip coated fasteners through all major ribs.

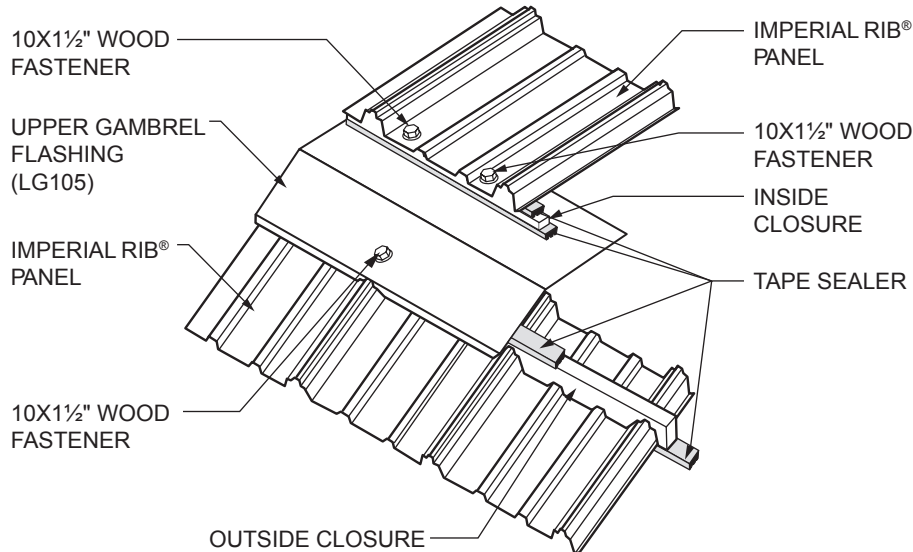
DETAILS

UPPER GAMBREL FLASHING APPLICATION DETAIL

CROSS SECTION OF UPPER GAMBREL FLASHING



ISOMETRIC VIEW OF UPPER GAMBREL FLASHING



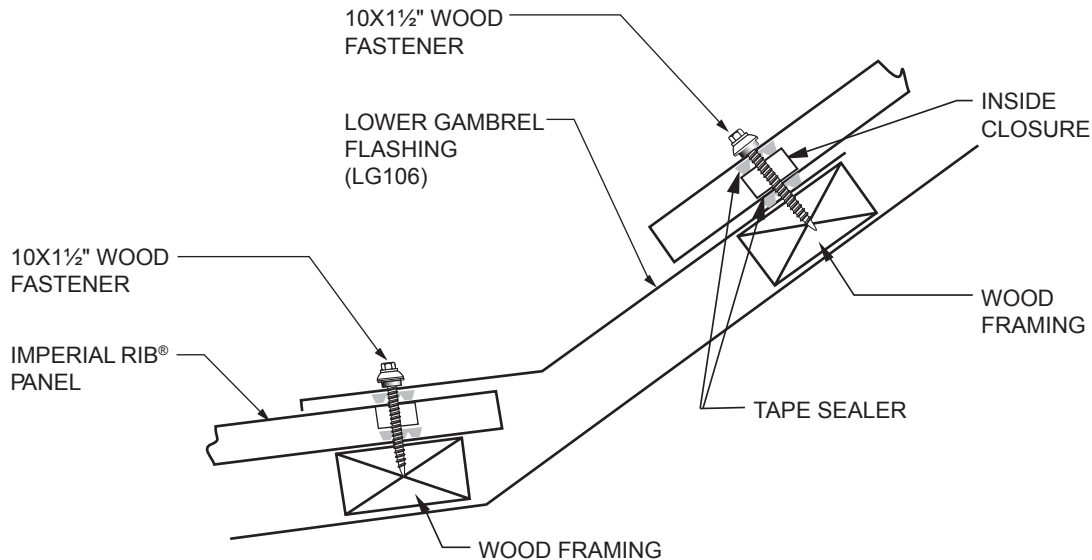
NOTES:

1. After installing Imperial Rib® panels on the lower roof section, install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top or outside closures. Use fasteners to attach Upper Gambrel Flashing (LG105) to panel at all major ribs. Be sure that fasteners pierce closures and tape sealer.
2. Install tape sealer along length of Gambrel Flashing at eave line. Install inside closures on top of tape sealer. Install additional run of tape sealer on top of inside closures.
3. Install panels on upper roof section, making sure that eave fasteners are installed on each side of panel ribs and that they pierce closures and tape sealer.
4. To ensure alignment of upper and lower panel ribs, install lower panel, then gambrel flashing, then upper panel. Continue this process across the remainder of the roof's surface.

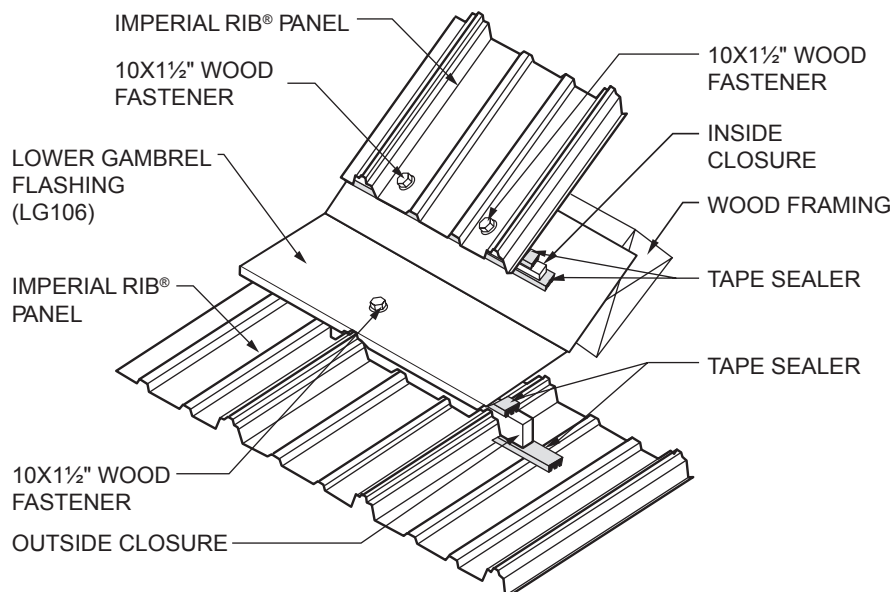
DETAILS

LOWER GAMBREL FLASHING APPLICATION DETAIL

CROSS SECTION OF LOWER GAMBREL FLASHING



ISOMETRIC VIEW OF LOWER GAMBREL FLASHING



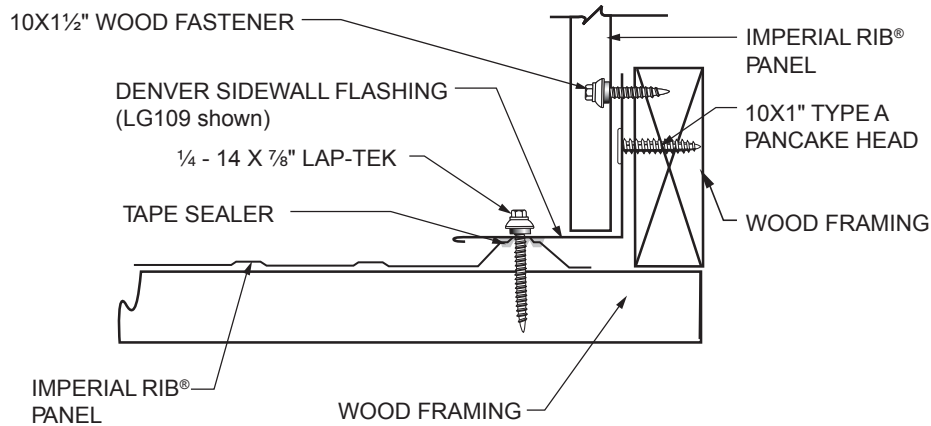
NOTES:

1. After installing Imperial Rib® panels on the lower roof section, install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top or outside closures. Use fasteners to attach Lower Gambrel Flashing (LG106) to panel at all major ribs. Be sure that fasteners pierce closures and tape sealer.
2. Install tape sealer along length of Gambrel Flashing at eave line. Install inside closures on top of tape sealer. Install additional run of tape sealer on top of inside closures.
3. Install panels on upper roof section, making sure that eave fasteners are installed on each side of panel ribs and that they pierce closures and tape sealer.
4. To ensure alignment of upper and lower panel ribs, install lower panel, then gambrel flashing, then upper panel. Continue this process across the remainder of the roof's surface.

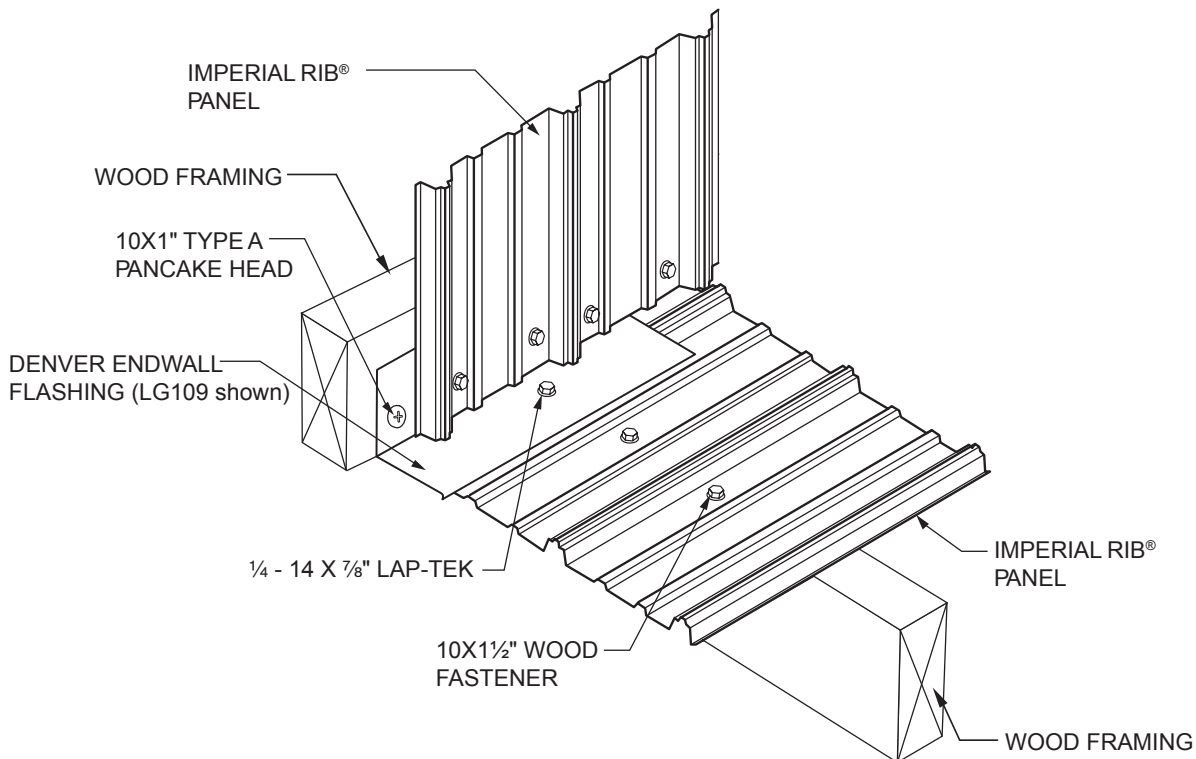
DETAILS

DENVER SIDEWALL FLASHING APPLICATION DETAIL

CROSS SECTION OF DENVER SIDEWALL FLASHING



ISOMETRIC VIEW OF DENVER SIDEWALL FLASHING



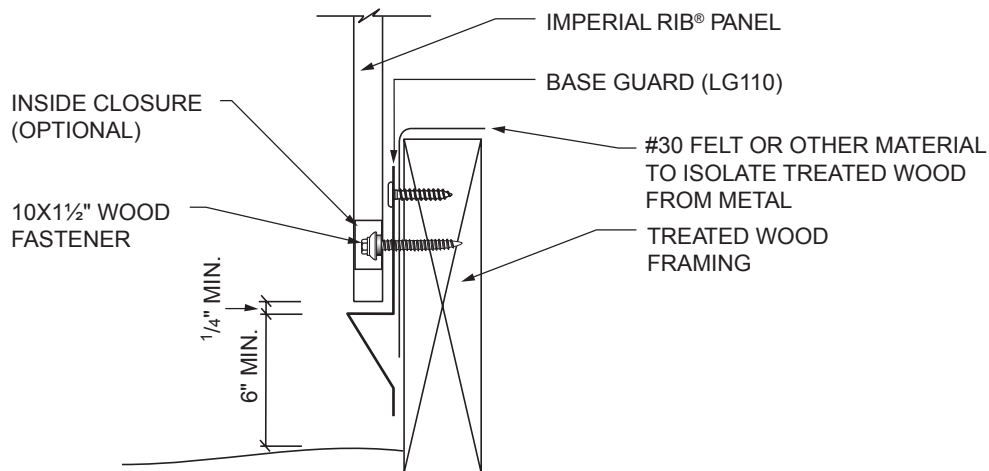
NOTES:

1. Install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top of outside closures.
2. Attach Denver Sidewall Flashing (LG109) to panels with 10x1 1/2" wood coated fasteners through all major ribs.

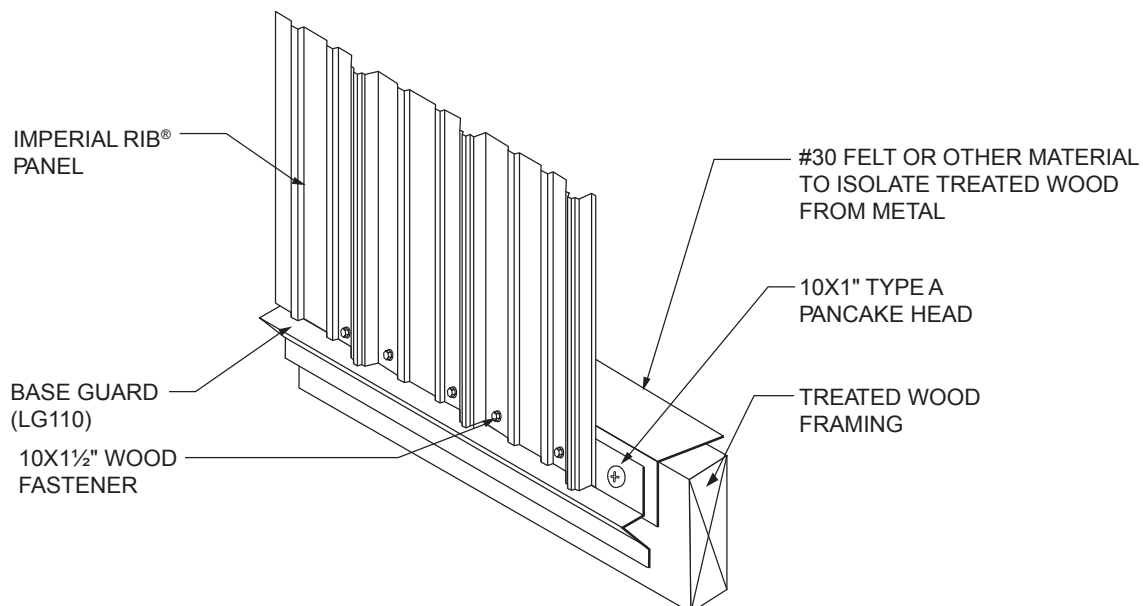
DETAILS

BASE GUARD DETAIL

CROSS SECTION OF BASE GUARD



ISOMETRIC VIEW OF BASE GUARD



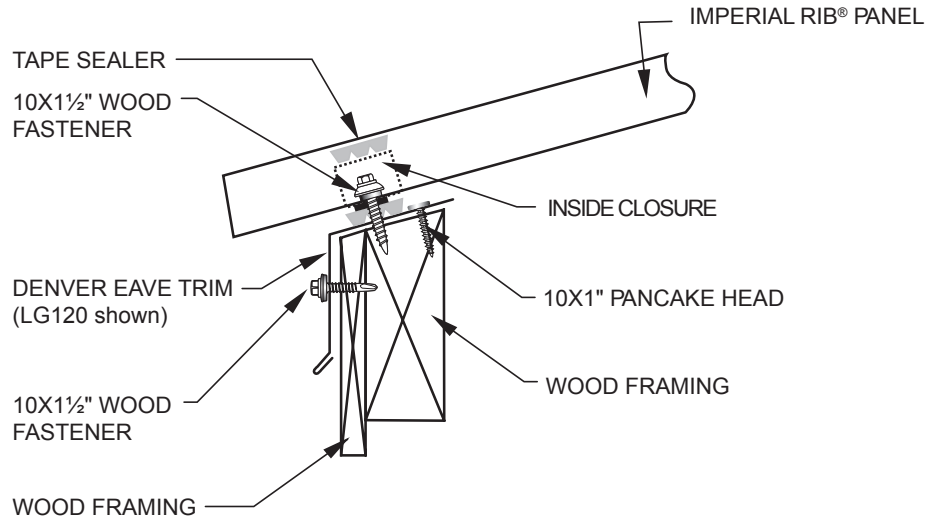
NOTES:

1. Attach Base Guard (LG110) with 10x1 Type A Pancake Head fasteners at 3'-0" on center, making sure trim is level.
2. Maintain a minimum 6" gap between soil and Base Guard (LG110).

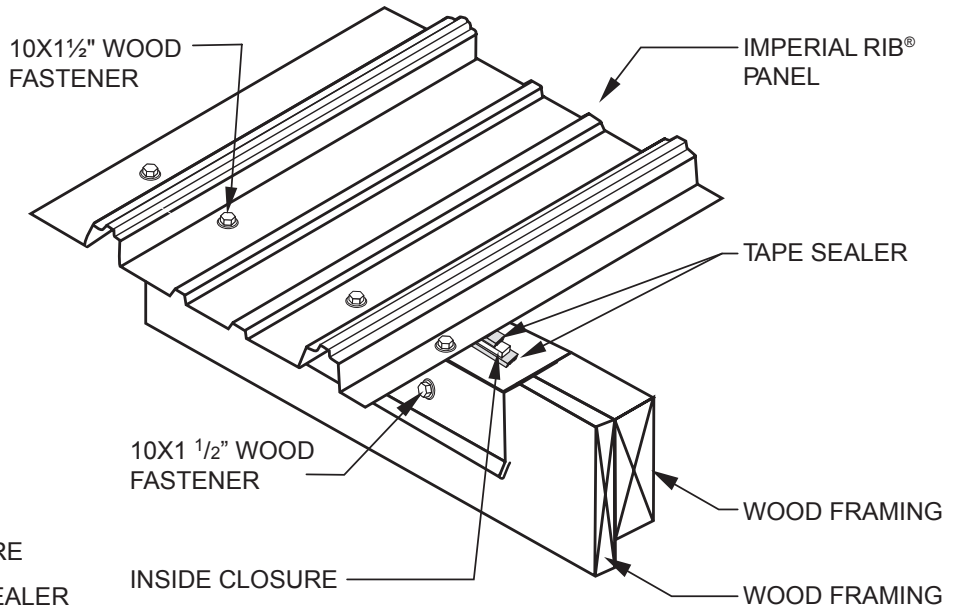
DETAILS

DENVER EAVE TRIM APPLICATION DETAIL

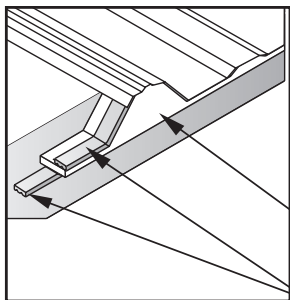
CROSS SECTION OF DENVER EAVE TRIM



ISOMETRIC VIEW OF DENVER EAVE TRIM



Panel End Detail

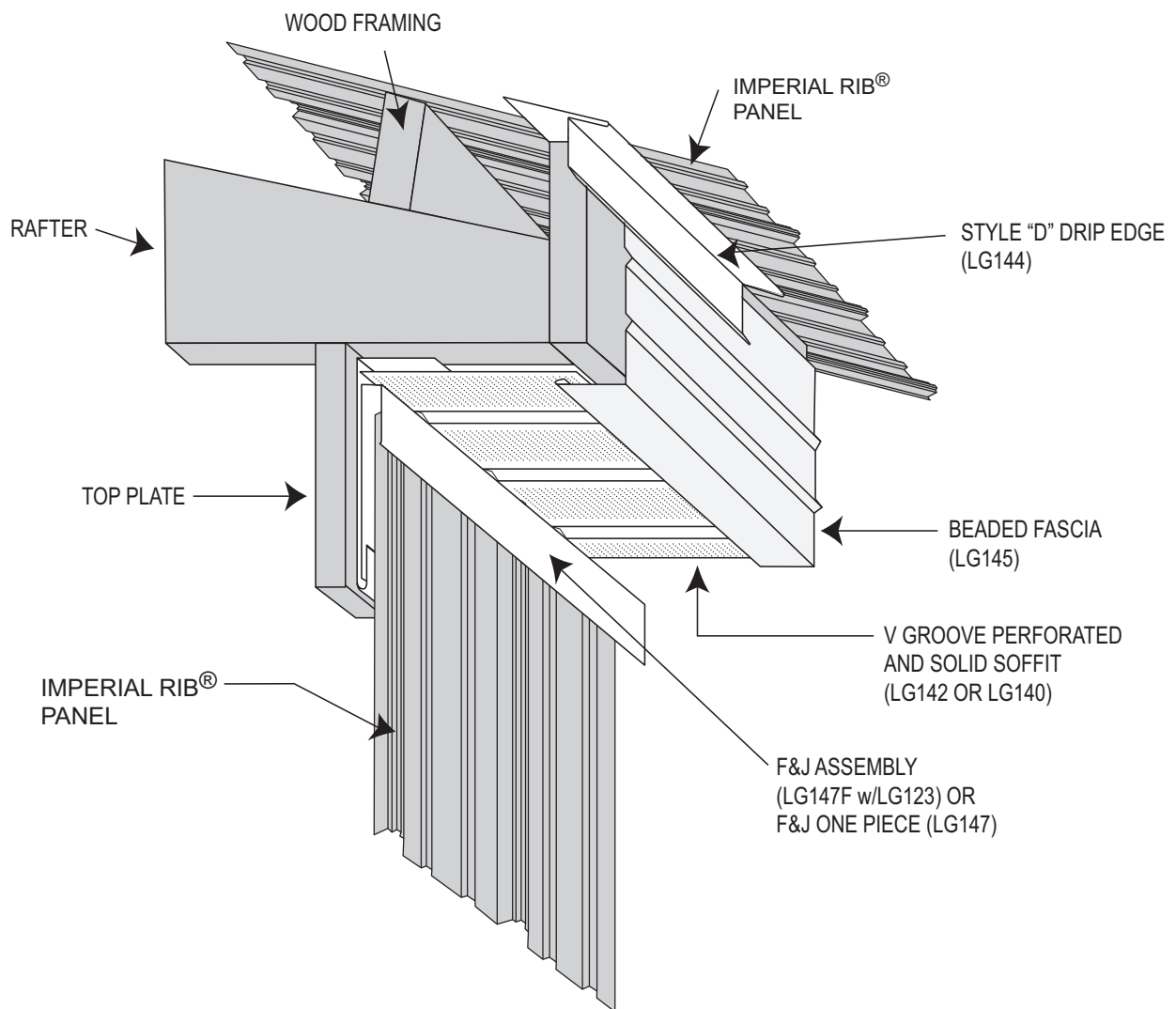


NOTES:

1. Attach Denver Eave Trim (LG120 shown) or Eave Flashing (LG119) to wood framing with 10x1" Type A pancake head fasteners (2 fasteners per 10' section)
2. Install tape sealer along top leg of Denver Eave Trim (LG120 shown) or Eave Flashing (LG119). Install inside closure on top of tape sealer. Apply tape sealer to top of outside closure.
3. Install panels with required overhang at eave (3" recommended) and fasten to wood framing with 10x1 1/2" wood fastener on either side of panel ribs.

DETAILS

SOFFIT AND FASCIA APPLICATION DETAIL

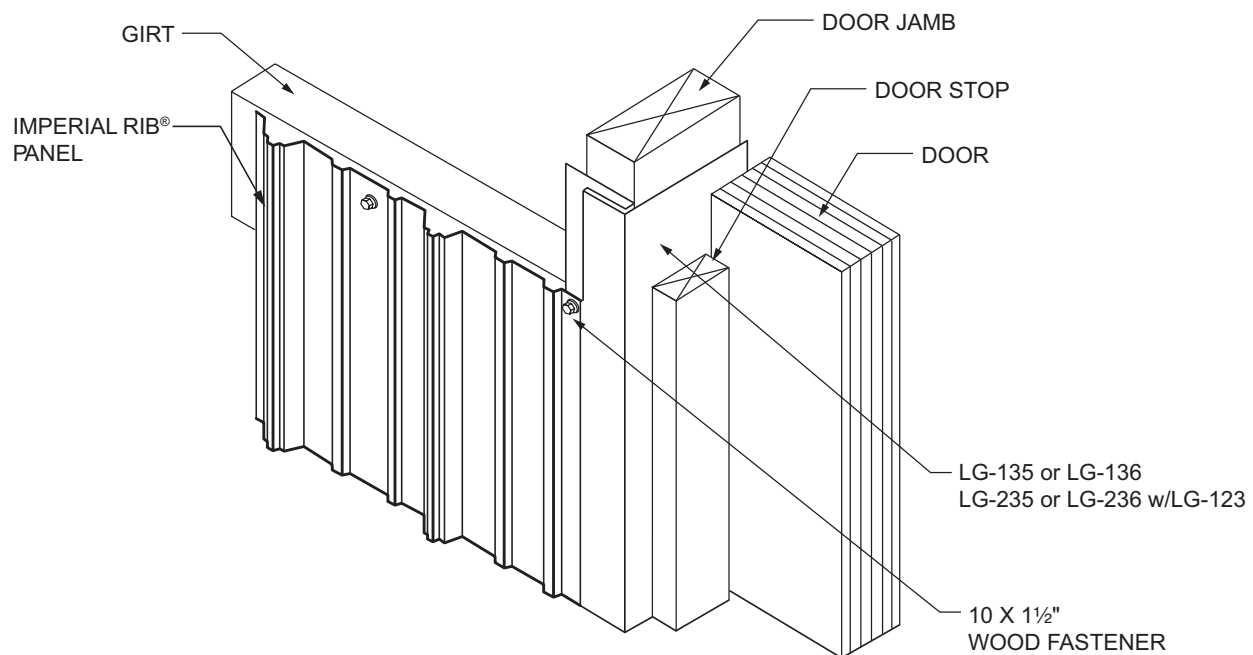


NOTES:

1. Attach Drip Edge trim (LG144 shown) to wood framing with 10 x 1" Type A pancake head fasteners (2 fasteners per 10' section).
2. Alternate width fascia and sheared soffit available, please inquire with sales representatives.

DETAILS

DOOR JAMB DETAIL



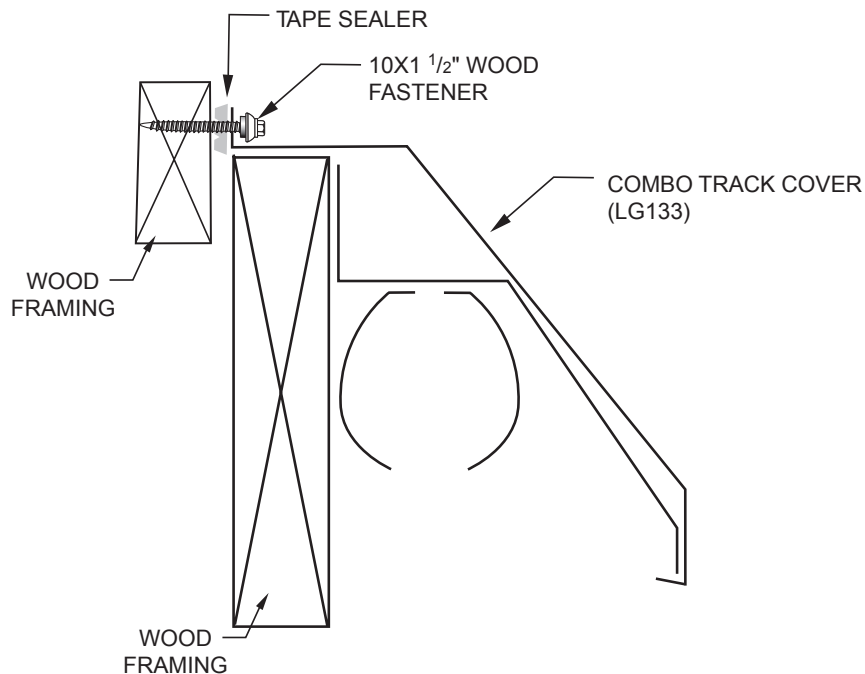
NOTES:

1. Fasten wall panel and secure door trim (LG135 shown) to wood framing with 10 x 1 1/2" wood fastener.
2. Custom width trims available, please inquire with sales representatives.

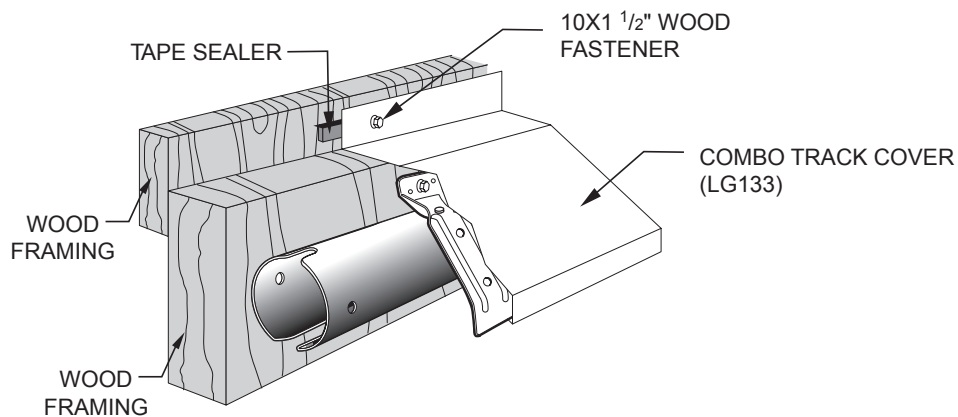
DETAILS

COMBO TRACK COVER APPLICATION DETAIL

CROSS SECTION OF COMBO TRACK COVER



ISOMETRIC VIEW OF COMBO TRACK COVER



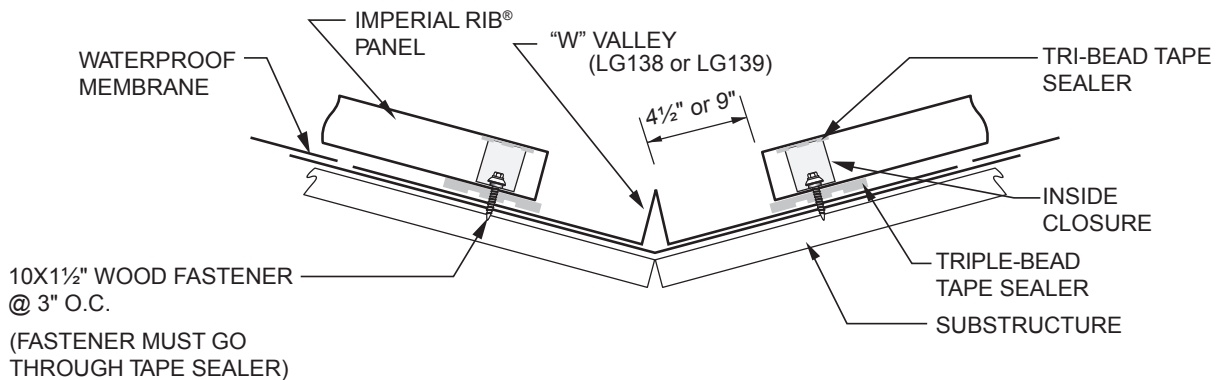
NOTES:

1. Lock brackets into slots in TI ply track. Attach track unit to door opening.
2. Attach T2B side mount bracket at Combo Track Cover trim joints and at mid points.
3. Attach Combo Track Cover (LG133) over track unit making sure the T2B track cover bracket is locked into the open hem of the Combo Track Cover (LG133).

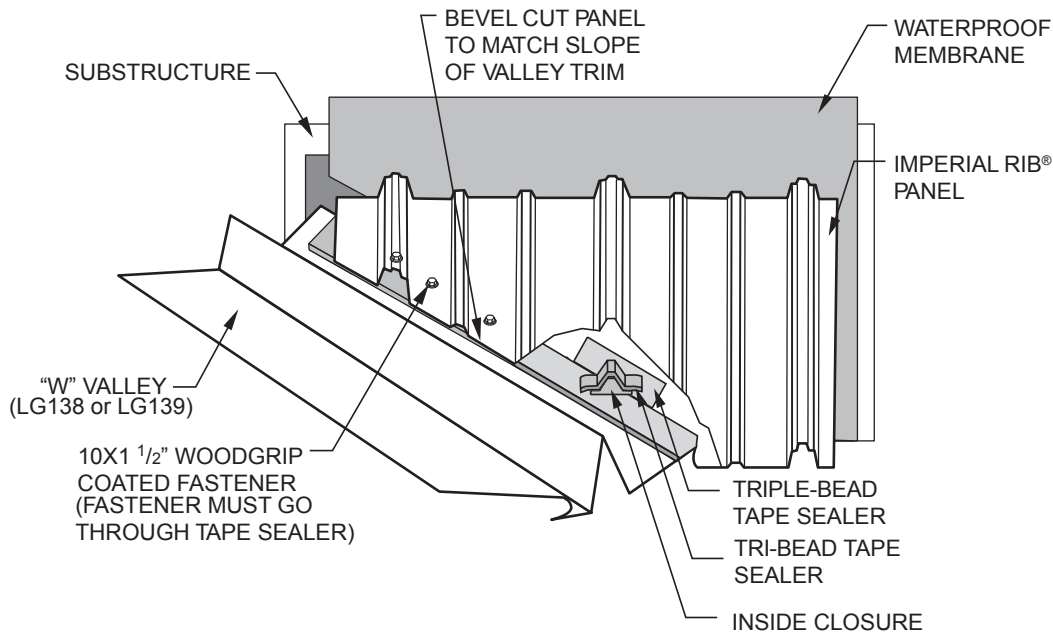
DETAILS

“W” VALLEY DETAIL

CROSS SECTION OF “W” VALLEY OVER WOOD DECK



ISOMETRIC VIEW OF “W” VALLEY OVER WOOD DECK



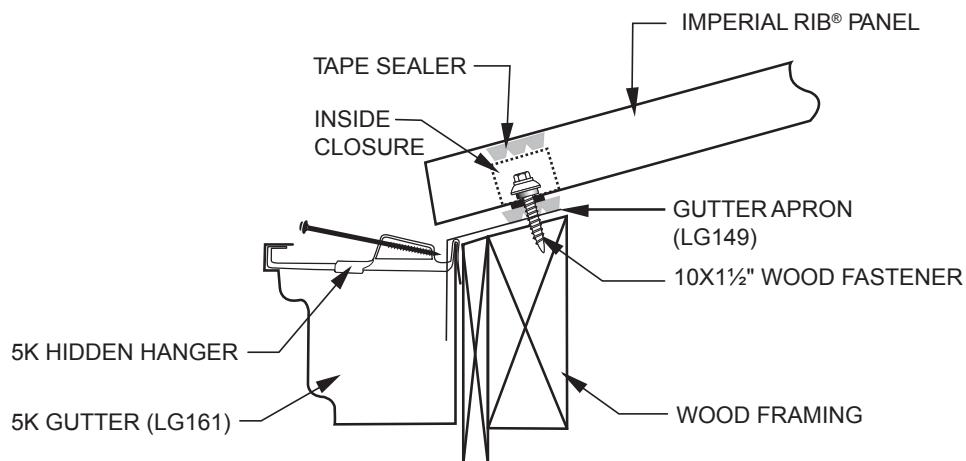
NOTES:

1. For valleys 30' or less in length, use “W” Valley LG138. Valleys longer than 30' require extended valley trim, LG139.
2. Use waterproof in the valley area, or other acceptable water proofing.
3. Apply triple-bead tape sealer to “W” Valley (LG138 or LG139) parallel to slope. Bottom edge of tape sealer is 4½" from center of “W” Valley (LG138) for standard valleys and 9" for extended valleys (LG139). Additional triple-bead tape sealer is required at each panel rib location.
4. Install rib section of inside closure that has been field cut from standard 36" straight closure at each panel rib location. Place the cut closure square with the rib of the panel. Install tri-bead tape sealer to top of inside closure prior to laying panel edge down on top of the cut closure. The tape sealer with proper fastener sequence will seal the minor ribs of the panel that are between the major ribs.
5. Bevel cut panel to match slope of “W” Valley (LG138 or LG139).
6. Fasten panel at valley with 10X1½" wood fastener 3" O.C. maximum.

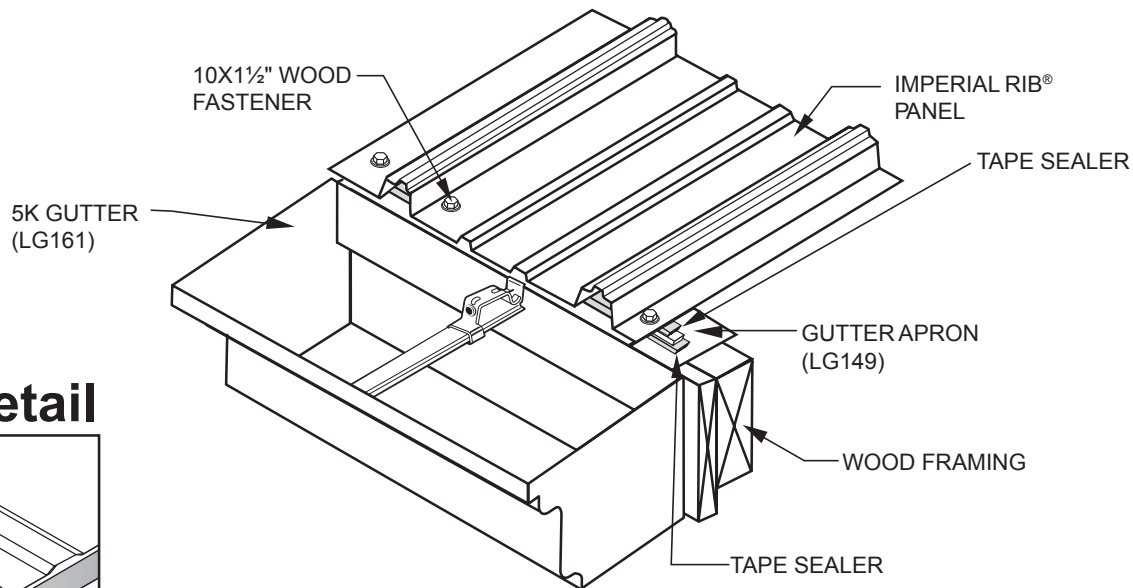
DETAILS

GUTTER APPLICATION DETAIL

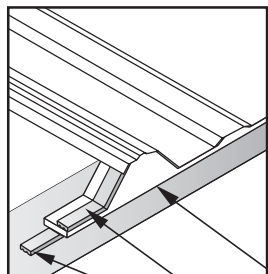
CROSS SECTION OF EAVE WITH 5K GUTTER



ISOMETRIC VIEW OF EAVE WITH 5K GUTTER



Panel End Detail



INSIDE CLOSURE
TAPE SEALER

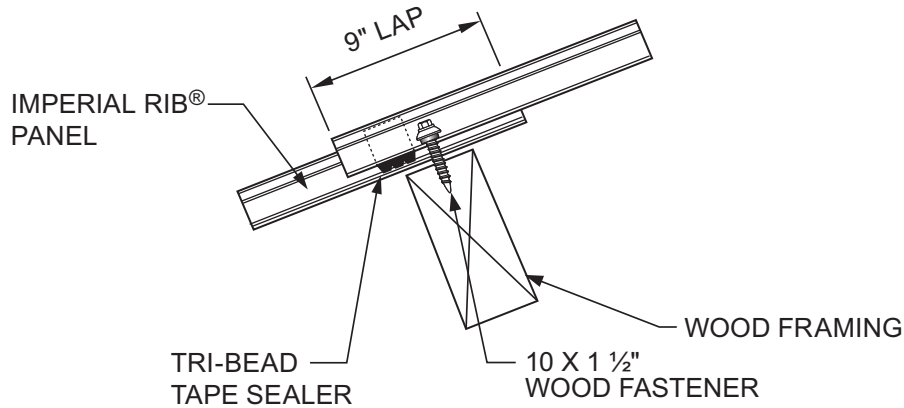
NOTES:

1. Install Gutter Apron (LG149) along eave of roof before installing roof panels.
2. Use hidden hangers to attach 5K Gutter (LG161) to fascia board.
3. In areas of extreme ice or snow build-up, consider eliminating the gutter and using eave trim.

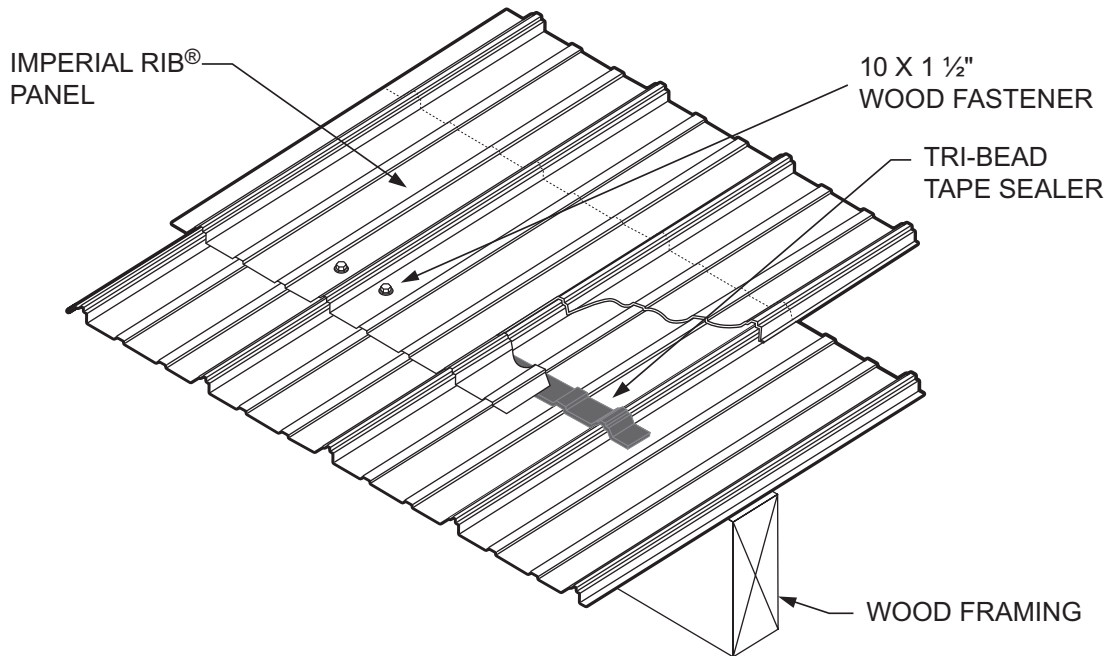
DETAILS

ENDLAP DETAIL

CROSS SECTION OF ENDLAP OVER WOOD



ISOMETRIC VIEW OF ENDLAP OVER WOOD



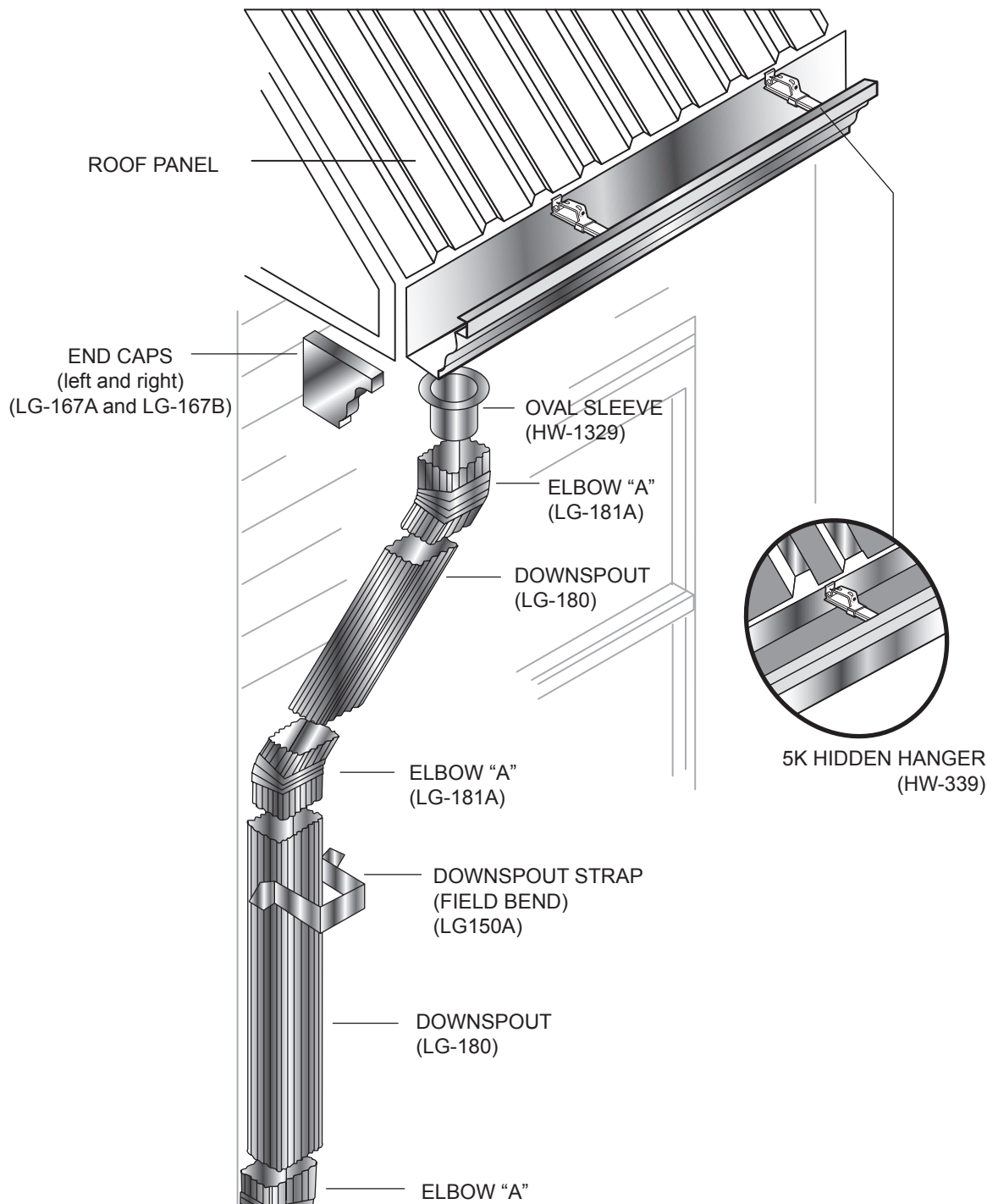
NOTES:

1. Panel endlap is 9" under 4:12 pitch, over 4:12, 6" is required.
2. Install tri-bead tape sealer across width of bottom panel before installation of tip panel. Top edge of tape sealer is 4 3/4" from up slope end of bottom panel.
3. May be installed over purlins or a solid substrate.
4. Reference fastener pattern page for endlap fastener placement.

DETAILS

GUTTER AND DOWNSPOUT APPLICATION DETAIL

5K GUTTER



TERMS AND CONDITIONS OF SALE

- Parties - All references to "ABC" or "Seller" refer to American Building Components, an unincorporated division of NCI Group, Inc. ABC and Buyer may sometimes collectively be referred to herein as the "parties."
- Binding Effect - The following terms and conditions (the "Terms and Conditions") shall apply to any and all sales between ABC and the Buyer and shall not be waived, modified or amended without the express written consent of the ABC's President or Executive Vice-President. Any and all terms and/or conditions contained within any other purchase order, agreement or other document(s) issued by Buyer, whether conflicting with these Terms and Conditions hereof or not, shall be deemed null, void and of no force, effect or consequence. Any and all sales by ABC of any nature to Buyer shall be made under the provisions of this Agreement. Any document(s) that Buyer may use for its convenience including, but not limited to, purchase orders or sales acknowledgment forms shall be deemed to be for the administrative convenience of Buyer only, and this Agreement as well as the terms and conditions as stated in ABC's invoices and bills of lading shall supersede and take precedence over any of Buyer's terms and conditions which may be contained on any such forms. Further, should ABC act upon this Agreement without first obtaining Buyer's signature on a Purchase Order, Buyer hereby irrevocably agrees to be bound by this Agreement to the exclusion of any contrary terms and conditions proposed by Buyer. All orders are subject to final approval and written acceptance by ABC.
- Payments - Payments due ABC under the terms of this sale and any other money due ABC by Buyer shall be paid to ABC at its Houston, Harris County, Texas office. Unless otherwise agreed in advance and in writing by ABC's Credit Department, payment for the materials and/or services under this Agreement shall be COD. Any and all different credit terms must be pre-approved in writing by ABC's Credit Department. If ABC grants Buyer credit terms, invoices paid ABC by Buyer within ten (10) days of date of invoice may, in ABC's sole discretion and judgment, be allowed 1/2% discount, net due thirty (30) days from date of invoice. C.O.D. shipments paid at the time of shipment are not allowed any discount. In the event ABC grants Buyer credit terms, said credit terms are subject to change at any time, for any reason, at the sole discretion of ABC without prior written notice to Buyer. Unless specifically enumerated herein, the price does not include any taxes (including excise, privilege, occupation, use, sales, etc.; Federal, State or local) or costs of shipment. All materials sold hereunder are sold F.O.B. ABC's plants. ABC reserves the right to approve or disapprove the carrier on any and all C.O.D. shipments.
- Lien/Release - Buyer agrees that all payments with lien release language on the back of any check or other legal tender shall be sent only to ABC at its Houston, Harris County, Texas office. Buyer agrees that any payment(s) accepted through ABC's lock box with lien release language on the check does not bind ABC to the attempted release. ABC's agent(s) at the lock box who endorses and/or accepts checks for ABC is authorized only to accept unconditional payments, and no action by such agent(s) shall ever give rise to a claim of any alleged authority, apparent or otherwise, beyond that described in this paragraph. Acceptance of any conditional check, including any lien release language or otherwise at the lock box shall only be a partial release for those funds received, and never otherwise. This paragraph cannot be waived or modified except in writing in advance by the President of ABC.
- Interest/Costs of Collection - Any and all payment(s) deferred after the due date as specified shall bear interest at the greater of the rate of ten percent (10%) per annum or a rate equal to the maximum non-usurious rate under applicable law. If an invoice becomes past due, is placed in the hands of an attorney for collection, if collected by any legal proceeding(s), or if this Agreement is relevant to any other dispute(s) between the parties, in addition to any other amount(s) and damage(s) recovered by ABC, Buyer agrees to pay ABC any and all attorneys' fees and costs incurred in any such dispute(s) and/or proceeding(s), together with interest, expenses, costs and any other charges, which attorneys' fees shall not be less than thirty percent (30%) of the total amount payable. "Costs incurred in the collection of sums" as used herein is not to be limited to costs incurred in litigation, but includes, without limitation, copying and mailing expenses, lien fees, lost management time, inspection expenses and expert witnesses expenses in addition to taxable costs incurred in litigation.
- Security Interest - Buyer has and does by these presents grant to ABC and ABC has and does hereby retain a security interest in all materials, parts and accessories (as well as all finished goods and/or the proceeds from the sale thereof) described in and being purchased by Buyer pursuant to this Agreement. In addition, Buyer has and does by these presents grant to ABC and ABC has and does hereby retain a security interest in all existing or subsequently arising accounts, accounts receivable and supporting obligations which may from time to time hereafter come into existence during the term of this security interest as a result of Buyer's sale of any of the said materials, parts, accessories or finished goods thereof to any third party. The security interest herein granted by Buyer and retained by ABC is to secure payment of the full purchase price and all other charges due and owing ABC under the terms of this sale. This Agreement is governed by Section 2.101, et. seq. of the Texas Business & Commerce Code, and the security interest hereunder constitutes a "purchase money security interest" pursuant to the Uniform Commercial Code. This instrument is a contract, security agreement and financing statement between the parties hereto.
- Authorization for Credit History - The Buyer or undersigned individual, who is either the credit applicant or a principal/agent of the Buyer, recognizes that a credit history report may be a factor in the evaluation of the credit history of the Buyer. Buyer, therefore, irrevocably consents to and authorizes the use of a commercial, consumer or any other credit report on or pertaining to the Buyer or undersigned individual(s) by ABC or its agents from time to time as may be needed in the credit evaluation process.
- Setoff/Recoupment - In addition to any right of setoff or recoupment permitted by law, ABC shall have the right at any time to setoff or recoup any amount due and owing from Buyer to ABC or any of ABC's subsidiaries, divisions, or affiliates against any amount due and owing from ABC or any of its affiliates, divisions, or subsidiaries to Buyer.
- Buyer Responsible for Accuracy of Order/Delivery - Buyer hereby assumes sole and complete responsibility for the accuracy of any and all verbal orders unless written confirmation is received prior to fabrication. Confirming orders should be marked "Confirming Order-Do Not Duplicate." Buyer may arrange for pickup of order(s) at ABC's plant or shipment will be made by common carrier - "Freight Collect" - unless other arrangements are previously made and agreed to by the parties in writing.
- Cancellation - In the event of cancellation, Buyer agrees to pay ABC for any and all fees, expenses, costs and damages occasioned by the cancellation hereof.
- Manufacturer's Warranties/Disclaimers - Upon receipt of payment in full, ABC warrants its workmanship only against failure due to defective material or workmanship for a period of one (1) year from date of manufacture. In any event, however, Buyer's sole and exclusive remedy shall be limited to, in ABC's sole discretion and judgment, the replacement of defective part(s), F.O.B. ABC's plant or repair of defective part(s). Transportation, redesign, dismantling, disposal of material and installation are not included and shall be borne and paid for by Buyer. Any such replacement or repair shall not include any materials not sold by ABC hereunder, and specifically excludes any obligation by ABC related to other property of the Buyer or any property of third parties. UNDER NO CIRCUMSTANCES SHALL ABC BE RESPONSIBLE FOR OR LIABLE TO BUYER, OWNER(S) OR ANY OTHER THIRD PARTY, IN ANY RESPECT FOR, AND ABC HEREBY EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES OR REPRESENTATIONS PERTAINING TO, PRESENT OR FUTURE WATER LEAKS OR MOISTURE INTRUSION(S), DAMAGE(S) TO THE BUILDING(S), OR ANY COMPONENTS OR CONTENTS THEREOF, OR ANY INTERIOR SPACE(S) OR PROPERTY THEREIN, INCLUDING CLAIMS PERTAINING TO MOLD, MILDEW OR FUNGI, OR INTERRUPTION IN THE USE OF THE BUILDING(S) OR PERSONAL INJURY OR PROPERTY DAMAGE CLAIMS RESULTING FROM THE ALLEGED EXISTENCE OR GROWTH OF MOLD, MILDEW AND/OR FUNGI. As a condition precedent to the effectiveness of any warranty coverage provided herein, all amounts due and owing to ABC under this or any other agreement with ABC or ABC's affiliates, whether disputed or not by Buyer, must be fully paid. ABC'S SOLE LIABILITY, IF ANY, TO BUYER SHALL BE STRICTLY LIMITED TO THE WRITTEN EXPRESS WARRANTIES SPECIFIED HEREIN, AND BUYER AGREES AND STIPULATES THAT ABC SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, LIQUIDATED, EXEMPLARY OR PUNITIVE DAMAGES, WHICH BUYER MAY ALLEGEDLY SUFFER FOR ANY REASON, INCLUDING REASONS ATTRIBUTABLE TO ABC. ABC DOES NOT WARRANT ANY PRODUCTS OR MATERIALS THAT ARE NOT MANUFACTURED BY ABC EXCEPT TO THE EXTENT OF A WARRANTY THAT ABC MAY ACTUALLY PASS THROUGH OR ASSIGN FROM A MANUFACTURER. EXCEPT AS STATED ABOVE, ABC HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THE PARTIES HERETO HEREBY STIPULATE THAT ALL SUCH WARRANTIES ARE HEREBY DISCLAIMED. Buyer agrees and stipulates that in any action or claim brought by Buyer or any third party or in any action or claim brought against Buyer involving the provisions of this section, Buyer hereby waives any claim or defense that the above covenants are unenforceable, void or voidable, for any reason, including, but not limited to, fraud, misrepresentation, illegality, unenforceable restraint of trade, failure of consideration, illusory contract, mistake, or any other substantive legal defense. Buyer acknowledges, agrees and stipulates that oilcanning of materials shall not be a cause of rejection of materials. Claims for shortages or defective materials must be made to ABC in writing within five (5) days after delivery of shipment (which the Parties agree and stipulate is a reasonable time), or any and all such claim(s) shall be conclusively waived and released by Buyer. Notwithstanding the foregoing, installation of materials shall unequivocally constitute irrevocable acceptance of said materials. FOR COMPLETE PERFORMANCE SPECIFICATIONS, PRODUCT LIMITATIONS AND DISCLAIMERS, PLEASE CONSULT ABC'S PAINT AND GALVALUME PLUS WARRANTIES. UPON RECEIPT OF PAYMENT IN FULL, THESE WARRANTIES ARE AVAILABLE UPON REQUEST FOR ALL PAINTED OR GALVALUME PLUS, PRIME PRODUCTS. Sample copies can be found at www.abcmetalroofing.com or contact your local ABC Sales Representative.
- No Incidental, Special or Consequential Damages - Notwithstanding any other agreement to the contrary, Buyer hereby agrees and stipulates that ABC shall not be liable for any incidental, special, compensatory, expectation, exemplary, punitive or consequential damages, which Buyer may suffer for any reason, including reasons attributable to ABC.
- Acceptance of Change Orders - Buyer may submit a written request for change orders to ABC adding, deleting or altering the quantity, description or specifications of material ordered. ABC, upon receipt of a written request for change order, shall price the requested change(s) and send to Buyer a price quotation thereof. ABC shall be under no obligation to accept or perform a request for change order unless Buyer unconditionally accepts in writing, without alteration or adjustment, the change order at the prices and terms quoted by ABC.
- Effect of Sale/Buyer's Delays - All products and materials sold hereunder to Buyer are final and cannot be returned to ABC for credit unless Buyer obtains prior written approval from ABC's authorized representative. If, at Buyer's request, the delivery of materials is delayed, then ABC shall invoice Buyer for the price of materials, which invoice shall be due in accordance with the terms of payment provided herein. Buyer shall reimburse ABC for the cost of storing materials if shipment is delayed by Buyer, and will assume sole and complete responsibility for any and all damages to the materials while in storage, including but not limited to damages caused by deterioration. A 25% restocking fee shall be charged on all returned materials if approved by ABC.
- Force Majeure - ABC shall not be liable to Buyer for liquidated damages, back charges or loss of use to Buyer arising out of any delay or any other reason in carrying out this Agreement. Under no circumstances shall ABC be liable in any way to Buyer, building owner or any other party for water intrusion or the existence of moisture occurring prior to delivery of ABC's material or existing thereafter or any possible effects resulting therefrom (including fungi, mold or mildew), delays, failure in performance, or loss or damage due to force majeure conditions including, without limitation: fire; flood; epidemics; quarantine; lightning; strike; embargo; explosion; power surge or failure; acts of God; war; labor or employment disputes; civil disturbances; acts of civil or military authority; inability to secure materials, fuel, products or transportation facilities; acts or omissions of suppliers; or any other causes beyond ABC's control, whether or not similar or relating to the foregoing. FURTHER, BUYER HEREBY AGREES AND STIPULATES THAT, IN THE EVENT ABC RECEIVES NOTIFICATION OF A PRICE INCREASE(S) FROM ANY OF ITS SUPPLIERS BETWEEN THE DATE OF THIS AGREEMENT AND THE DATE SCHEDULED FOR DELIVERY OF THE MATERIALS COVERED HEREBY, ABC RESERVES THE RIGHT, IN ITS SOLE DISCRETION AND JUDGMENT, TO INCREASE THE PURCHASE PRICE STATED HEREIN IN AN AMOUNT CORRESPONDING TO SAID PRICE INCREASE(S). Buyer agrees these limitations of ABC's liability are reasonable. Buyer further agrees that these limitations of ABC's liability are material parts of the consideration for this Agreement and is reflected in the amounts charged by ABC hereunder. Buyer intends that these limitations on ABC's liability are to be liberally construed in favor of ABC to eliminate any other liability of ABC other than repair or replacement of defective parts or products.
- Jurisdiction/Venue/Waiver of Trial by Jury - Buyer hereby acknowledges, stipulates and agrees that (i) any and all claims, actions, proceedings or causes of action relating to the validity, performance, interpretation, and/or enforcement hereof shall be submitted exclusively to a court of competent jurisdiction in Houston, Harris County, Texas, (ii) to the maximum extent practicable, this Agreement will be deemed to call for performance in Houston, Harris County, Texas, (iii) Buyer irrevocably submits itself to the exclusive jurisdiction of the State and Federal courts in Houston, Harris County, Texas, (iv) service of process may be made upon it in any legal proceeding in connection with this Agreement or any other agreement as provided by Texas law, (v) Buyer irrevocably waives, to the fullest extent permitted by law, any objection that it may now or hereafter have to the laying of exclusive venue of any litigation arising out of or in connection with this Agreement or any other agreement or transaction brought in any such court, (vi) Buyer irrevocably waives any claims that litigation brought in any such court has been brought in an inconvenient forum, and (vii) it irrevocably consents to the service of process out of any of the aforementioned courts by the mailing of copies thereof by Certified Mail, Return Receipt Requested, postage prepaid, at its address set forth herein. The scope of each of the foregoing waivers is intended to be all encompassing. Buyer acknowledges that the foregoing waivers are material inducements to the agreement of ABC to enter into a business relationship with Buyer, and that ABC has already relied on these waivers in entering into this Agreement. EACH PARTY HEREBY AGREES NOT TO ELECT A TRIAL BY JURY OF ANY ISSUE TRIABLE OF RIGHT BY JURY, AND FULLY WAIVES ANY RIGHT TO TRIAL BY JURY TO THE EXTENT THAT ANY SUCH RIGHT NOW OR HEREAFTER EXISTS WITH RESPECT TO THIS AGREEMENT AND/OR THE AGREEMENTS, INSTRUMENTS AND DOCUMENTS CONTEMPLATED HEREBY OR ANY CLAIM, COUNTERCLAIM OR OTHER ACTION ARISING IN CONNECTION HEREWITH. EACH PARTY ACKNOWLEDGES AND AGREES THAT THIS WAIVER OF RIGHT TO TRIAL BY JURY IS GIVEN KNOWINGLY AND VOLUNTARILY BY SUCH PARTY AND IS INTENDED TO ENCOMPASS EACH INSTANCE AND EACH ISSUE AS TO WHICH THE RIGHT TO TRIAL BY JURY WOULD OTHERWISE ACCRUE. EITHER PARTY IS HEREBY AUTHORIZED TO FILE A COPY OF THIS SECTION IN ANY PROCEEDING AS CONCLUSIVE EVIDENCE OF THIS IRREVOCABLE WAIVER.
- Indemnification - BUYER ASSUMES ENTIRE RESPONSIBILITY AND LIABILITY FOR ANY AND ALL CLAIMS OR ACTIONS BASED ON OR ARISING OUT OF INJURIES, INCLUDING DEATH, TO PERSONS OR DAMAGE TO OR DESTRUCTION OF PROPERTY (WHETHER BELONGING TO BUYER, BUILDING OWNER AND/OR ANY THIRD PARTY), SUSTAINED OR ALLEGED TO HAVE BEEN SUSTAINED IN CONNECTION WITH OR TO HAVE ARISEN OUT OF OR INCIDENTAL TO THE PERFORMANCE OF THIS CONTRACT BY BUYER, ITS AGENTS AND EMPLOYEES, AND ITS SUBCONTRACTORS, THEIR AGENTS AND EMPLOYEES, INCLUDING CLAIMS OR ACTIONS FOUNDED IN WHOLE OR IN PART UPON THE ALLEGED ACTS, OMISSIONS, NEGLIGENCE OR FAULT OF ABC, ABC'S REPRESENTATIVES, OR THE EMPLOYEES, AGENTS, INVITEES, OR LICENSEES THEREOF. BUYER FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARM-LESS ABC AND ITS REPRESENTATIVES, AND THE EMPLOYEES, AGENTS, INVITEES AND LICENSEES THEREOF IN RESPECT OF ANY SUCH MATTERS AND AGREES TO DEFEND ANY CLAIM OR SUIT OR ACTION BROUGHT AGAINST ABC, ABC'S REPRESENTATIVE, AND THE EMPLOYEES, AGENTS, INVITEES AND LICENSEES THEREOF. THE PARTIES HEREBY WAIVE THEIR RESPECTIVE RIGHTS UNDER THE DECEPTIVE TRADE PRACTICES-CONSUMER PROTECTION ACT, SECTIONS 17.41 THROUGH 17.63 INCLUSIVE, OF THE TEXAS BUSINESS AND COMMERCE CODE, A LAW THAT GIVES CONSUMERS SPECIAL RIGHTS AND PROTECTIONS. AFTER CONSULTATION WITH LEGAL COUNSEL, EACH VOLUNTARILY CONSENTS TO THIS WAIVER.
- Severability - Each of the provisions of this Agreement is a separate and distinct agreement and independent of the others. If any provision of this Agreement is found to be invalid or unenforceable in any jurisdiction, such provision shall be fully severable in such jurisdiction, and this Agreement shall be construed and enforced as if in such jurisdiction such provision had never comprised a part hereof. In such event, the remaining provisions of this Agreement shall remain in full force and effect. The terms of this Agreement are intended by the parties as a final expression of their agreement containing all oral and written understandings, past and present, between the parties relative to the materials generally described in this Agreement.
- Acceptance/Entire Agreement - As a condition precedent to the effectiveness of an order, all orders are subject to approval and acceptance by ABC. This Agreement, along with any attached exhibits, constitutes the entire agreement of the parties herein.

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For the most current information available, visit our Web site at www.abcmetalroofing.com

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