AMERICAN BUILDING COMPONENTS

29 Gauge

Technical/Installation Information

IMPORTANT NOTICE

READ THIS MANUAL COMPLETELY PRIOR TO BEGINNING THE INSTALLATION OF THE 29 GAUGE LOW PROFILE 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.

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 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 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 +/- ⅛" tolerance.
2. Add $1.05 per sheet for lengths 4' - 0" and under.
3. Sheets may be ordered in ½" increments.

NOTE: Panels are cut and billed to the inch. Length tolerance is +/- ⅛".

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 1½ hrs., charged in ½ 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.

AMERICAN BUILDING COMPONENTS

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" (¼" 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 toprevent 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 beaware 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 fourty 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.

AMERICAN BUILDING COMPONENTS

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.

- 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:

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.

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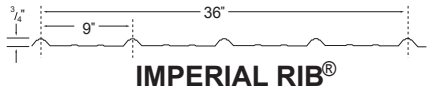
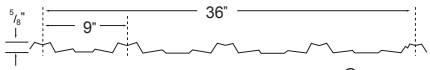
29 Gauge

PRODUCT INFORMATION

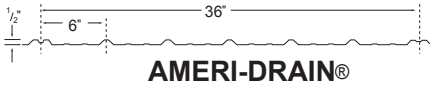


IMPERIAL RIB®



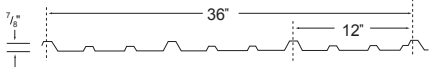
MONARCH RIB®

RUGGED RIB®

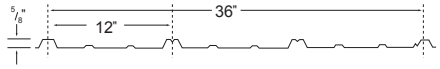


AMERI-DRAIN®

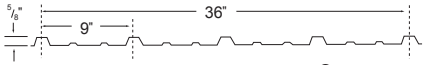
PERMA-CLAD®



7/8" WIDE RIB ®



REGAL RIB®



PERMA-CLAD ® II

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	57.59	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	79.49	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	101.70
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

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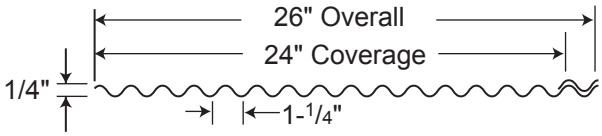
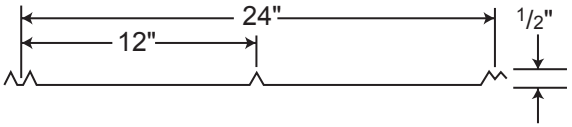


1-1/4" CORRUGATED
(Not recommended for roofing)



5V CRIMP

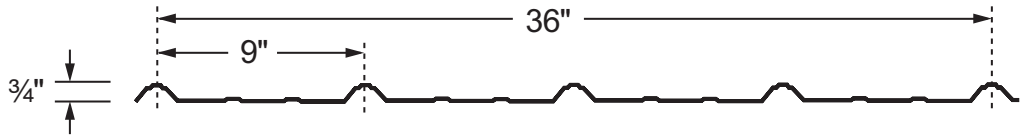
NUMBER OF SQUARE FEET PER PANEL

	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											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. 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".
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.

AMERICAN BUILDING COMPONENTS

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:

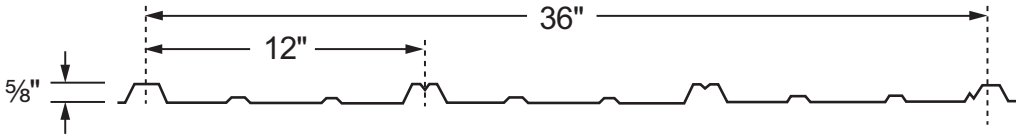
1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. LIVE LOAD/DEFLECTION capacities are for those loads that push the panel 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

AMERICAN BUILDING COMPONENTS®

29 Gauge

PRODUCT INFORMATION

REGAL RIB®
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. 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".
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.

AMERICAN BUILDING COMPONENTS

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

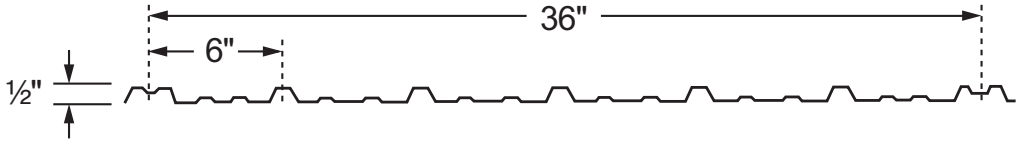
NOTES:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. 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

AMERI-DRAIN®
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. 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".
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.

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.

AMERICAN BUILDING COMPONENTS

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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

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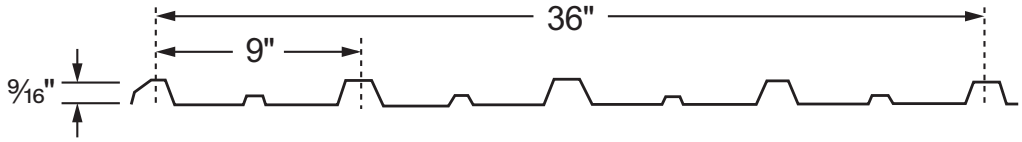
PRODUCT INFORMATION

RUGGED RIB®
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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 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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AMERICAN BUILDING COMPONENTS

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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

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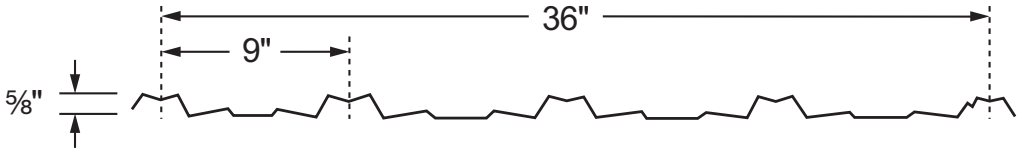
PRODUCT INFORMATION

MONARCH RIB®
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

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AMERICAN BUILDING COMPONENTS

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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

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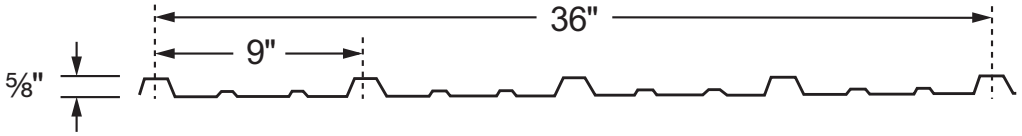
PRODUCT INFORMATION

PERMA-CLAD®
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. 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".
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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AMERICAN BUILDING COMPONENTS

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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

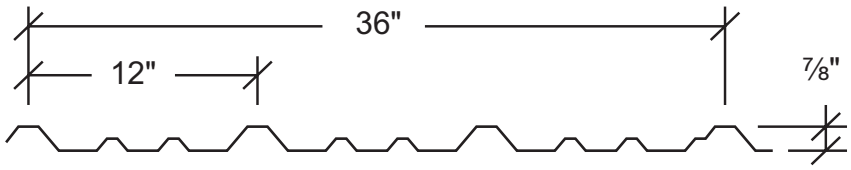
The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* 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.

AMERICAN BUILDING COMPONENTS

29 Gauge

PRODUCT INFORMATION

7/8" WIDE RIB
36" Coverage



Panel Section Properties											
						Negative Bending			Positive Bending		
Panel Gauge	Fy (Ksi)	Weight (Psf)	Va (Kips/Ft)	Pa,end (Kips/Ft)	Pa,int (Kips/Ft)	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:

1. 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".
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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AMERICAN BUILDING COMPONENTS

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:

1. Strength calculations are based on the 2012 S100 AISI "North American Specification for the Design of Cold-formed Steel Structural Members".
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. 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.
4. 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.
5. 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.
6. Panel pullover and screw pullout connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
7. Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 specification.
8. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
9. This material is subject to change without notice. Please contact ABC for most current data.

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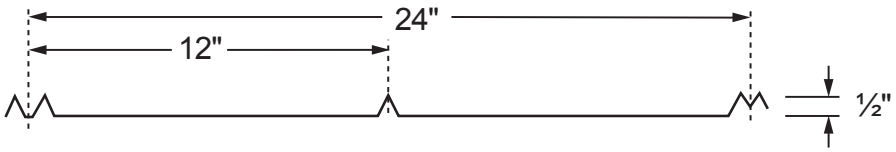
AMERICAN BUILDING COMPONENTS®

29 Gauge

PRODUCT INFORMATION

5V CRIMP
24" Coverage



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (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:

1. 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***.
2. Ixe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. 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:

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

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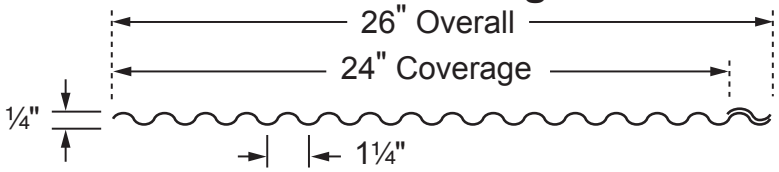
AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

CORRUGATED
24" Coverage



SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (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:

1. 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***.
2. Ixe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. 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:

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

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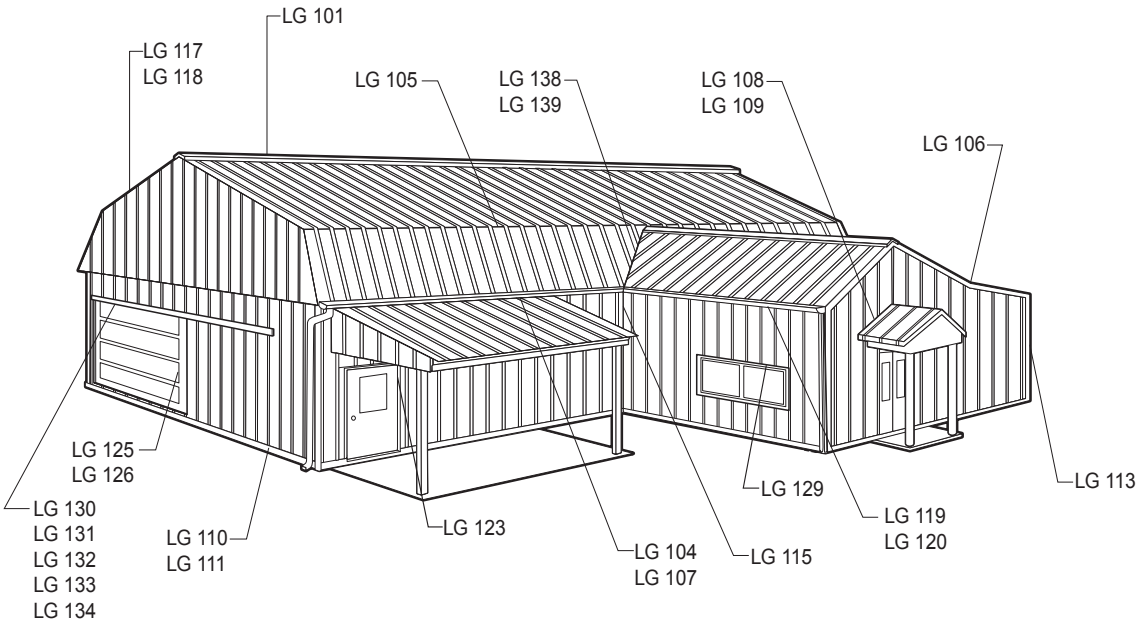
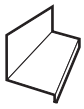
PRODUCT INFORMATION

APPLICATIONS GUIDE



LG 101
PLAIN RIDGE CAP

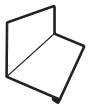
LG 104
NOTCHED ENDWALL FLASHING



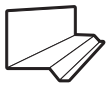
LG 105
NOTCHED UPPER GAMBREL FLASHING

LG 106
NOTCHED LOWER GAMBREL FLASHING

LG 107
DENVER ENDWALL FLASHING



LG 108
SIDEWALL FLASHING



LG 109
DENVER SIDEWALL FLASHING

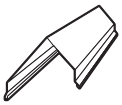
LG 110
BASE GUARD

LG 111
SQUARE BASE TRIM

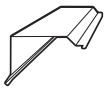
LG 113
CORNER TRIM

LG 115
INSIDE CORNER

LG 117
RAKE TRIM



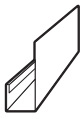
LG 118
DENVER GABLE



LG 119
EAVE FLASHING

LG 120
DENVER EAVE TRIM

LG 123
“J” CHANNEL



LG 125
9 1/4" DOOR JAMB

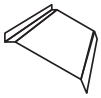
LG 126
DOOR POST TRIM

LG 129
WINDOW DRIP CAP

LG 130
SLIDING DOOR DRIP CAP

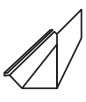
LG 131
NATIONAL DOOR TRACK COVER

LG 132
COMBO TRACK COVER



LG 133
TOP MOUNT TRACK COVER

LG 134
TRACK DOOR JAMB TRIM

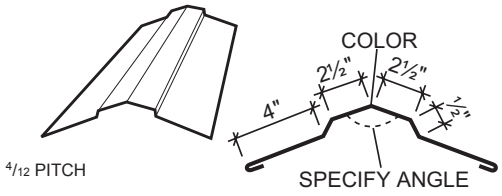
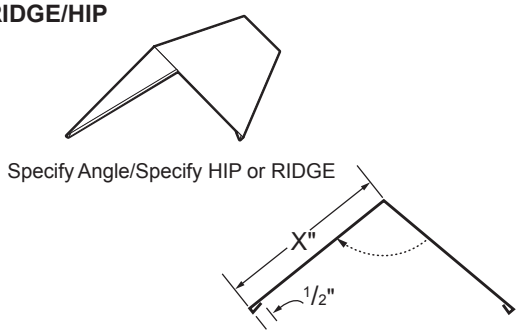
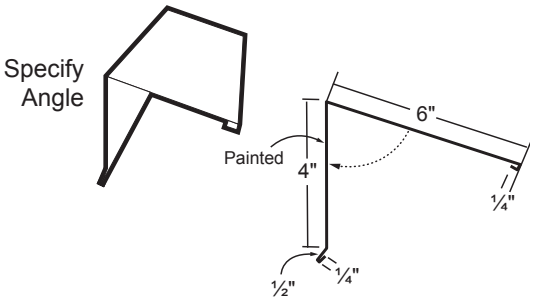
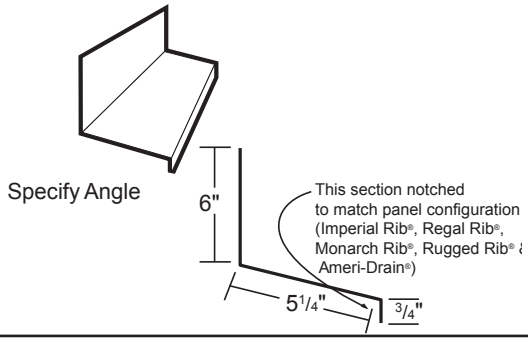
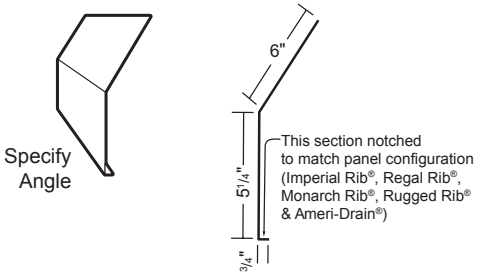


LG 138
“W” FORMED VALLEY

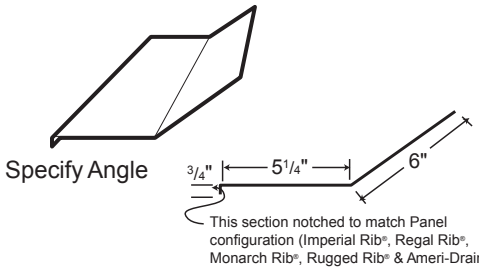
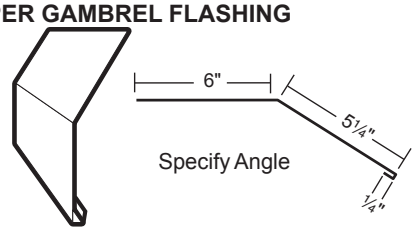
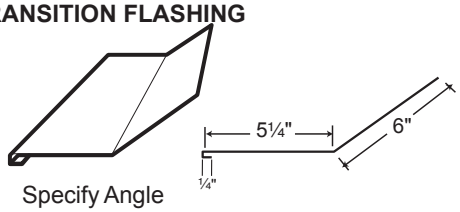
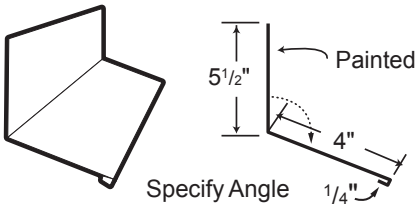
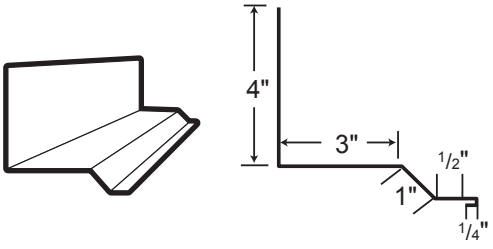
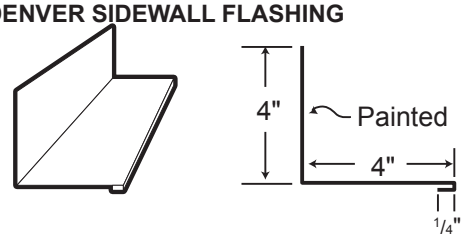
LG 139

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

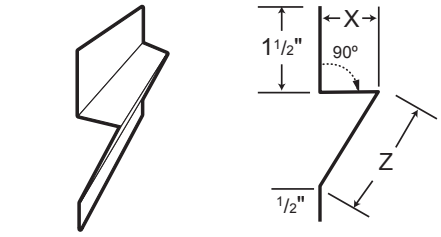
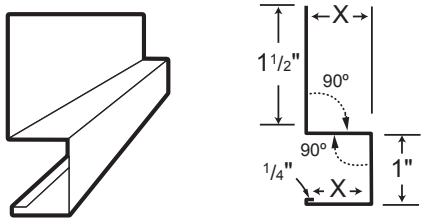
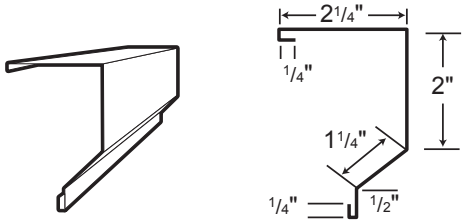
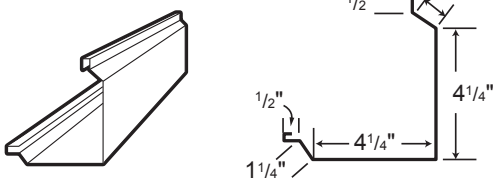
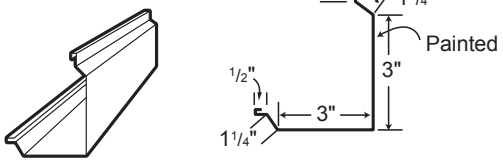
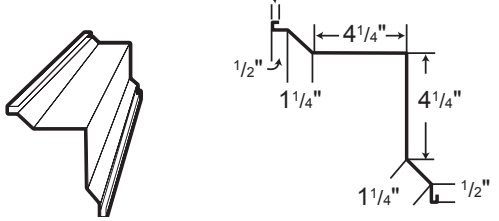
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
PLAIN RIDGE CAP 	X=4"	LG-101	10'-6"	14 ½"	7.39 #
	X=5"	LG-101A	10'-6"	16 ½"	8.20 #
	X=6"	LG-101B	10'-6"	18 ½"	9.30 #
	X=7"	LG-101C	10'-6"	20 ½"	10.33 #
RIDGE/HIP 	X=6"	CF-101	10'-6"	13"	6.44 #
	X=7"	CF-101A	10'-6"	15"	7.46 #
	X=8"	CF-101B	10'-6"	17"	7.73 #
DENVER PEAK TRIM 		LG-103	10'-6"	11"	5.25 #
NOTCHED ENDWALL FLASHING 	Imp Rib	LG-104	3'	12"	1.84 #
	Am-Dr	LG-104B	3'	12"	1.84 #
	Rug Rib	LG-104C	3'	12"	1.84 #
	Mon Rib	LG-104D	3'	12"	1.84 #
NOTCHED UPPER GAMBREL FLASHING 	Imp Rib	LG-105	3'	12"	1.84 #
	Am-Dr	LG-105B	3'	12"	1.84 #
	Rug Rib	LG-105C	3'	12"	1.84 #
	Mon Rib	LG-105D	3'	12"	1.84 #

PRODUCT INFORMATION

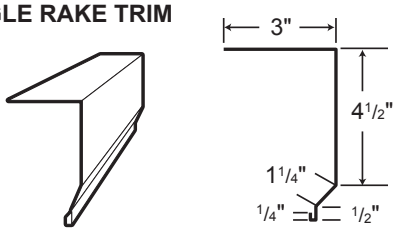
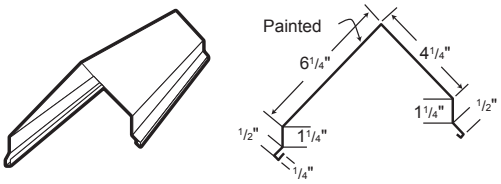
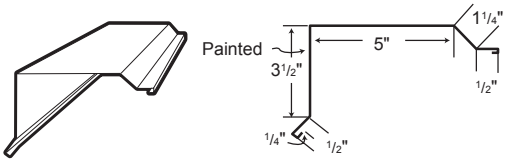
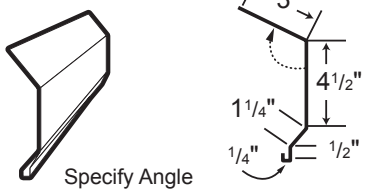
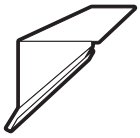
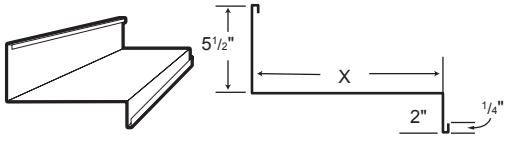
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
NOTCHED LOWER GAMBREL FLASHING 	Imp Rib Am-Dr Rug Rib Mon Rib	LG-106 LG-106B LG-106C LG-106D	3' 3' 3' 3'	12" 12" 12" 12"	1.84 # 1.84 # 1.84 # 1.84 #
UPPER GAMBREL FLASHING 		LG-184	10'-6"	11 ½"	6.16 #
TRANSITION FLASHING 		LG-185	10'-6"	11 ½"	6.16 #
DENVER ENDWALL FLASHING 		LG-107	10'-6"	9 ¾"	4.41 #
SIDEWALL FLASHING 		LG-108	10'-6"	8 ¾"	4.02 #
DENVER SIDEWALL FLASHING 		LG-109	10'-6"	8 ¼"	4.41 #

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

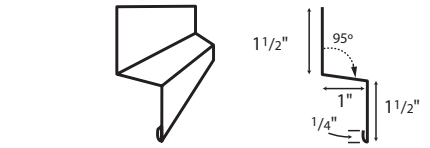
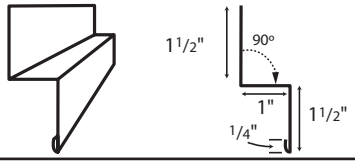
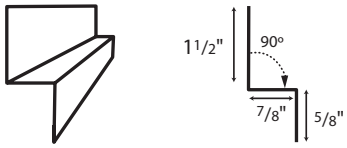
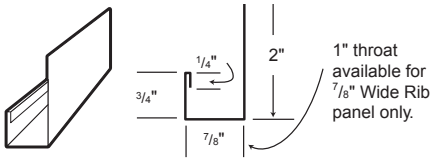
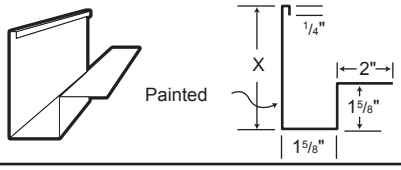
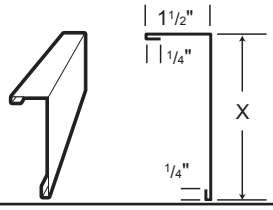
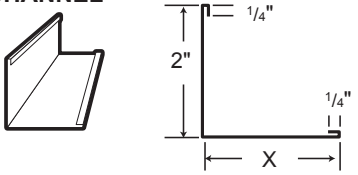
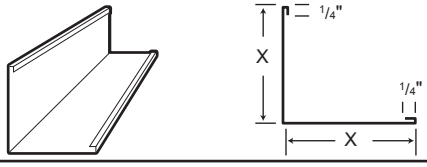
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
BASE GUARD 	X=1" Z=1 13/16"	LG-110	10'-6"	4 13/16"	2.46 #
	X=1 1/2" Z=2 ¼"	LG-110A	10'-6"	5 ¾"	2.98 #
SQUARE BASE GUARD 	X=1"	LG-111	10'-6"	4 ¾"	2.46 #
	X=1 ½"	LG-111A	10'-6"	5 ¾"	2.98 #
DOOR & EDGE CAP 		LG-112	10'-6"	6 ½"	3.49 #
CORNER TRIM 		LG-113	10'-6"	12 ½"	6.73 #
		LG-113A	12'-6"	12 ½"	8.06 #
		LG-113B	14'-6"	12 ½"	9.41 #
		LG-113C	16'-0"	12 ½"	10.75 #
		LG-113D	18'-0"	12 ½"	12.10#
3" X 3" CORNER TRIM 		LG-114	10'-6"	10"	5.36 #
INSIDE CORNER 		LG-115	10'-6"	12 ½"	6.70 #

PRODUCT INFORMATION

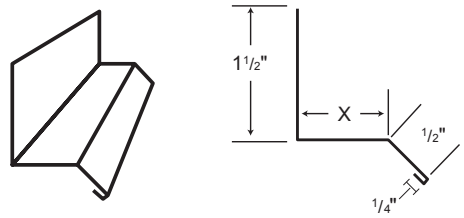
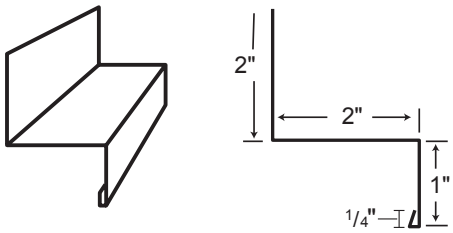
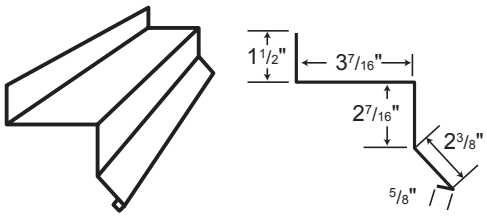
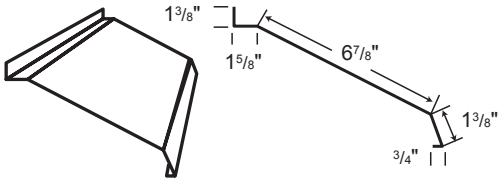
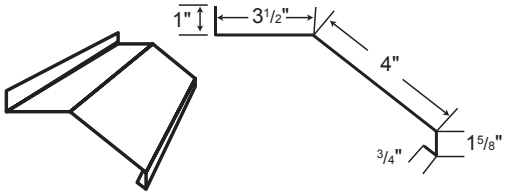
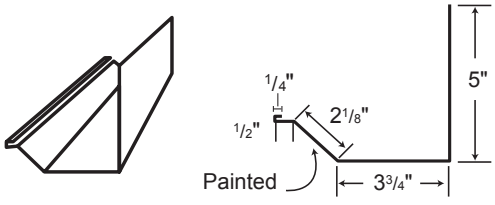
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
SHINGLE RAKE TRIM 		LG-116	10'-6"	9 ½"	5.23 #
RAKE TRIM 		LG-117 LG-117A	10'-6" 16'	14 ½" 14 ½"	7.89 # 12.64 #
DENVER GABLE 		LG-118	10'-6"	11 ¼"	6.03 #
EAVE FLASHING 		LG-119	10'-6"	9 ½"	5.23 #
DENVER EAVE TRIM 		LG-120	10'-6"	6 ¼"	3.50 #
CUSTOM SOFFIT 	X=12" 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 #

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
WAINSCOTE  95º angle used for drainage		LG-170	10'-6"	4 ¼"	2.15 #
Z FLASHING  		LG-122	10'-6"	4 ¼"	2.20 #
DOUBLE ANGLE  		DBLA	10'-6"	3"	1.55 #
"J" CHANNEL  		LG-123 LG-123A LG-124 LG-124A	10'-6" 16' 10'-6" 14'	3 ⅞" 3 ⅞" 4" 4"	2.32 # 4.20 # 2.35 # 4.28 #
DOOR JAMB  	X=4" X=7 ¼"	LG-125 LG-125A	10'-6" 10'-6"	9 ½" 12 ¾"	5.09 # 6.69#
DOOR POST TRIM  	X=3 ½" X=5 ½" X=7 ¼" X=3 ½" X=5 ½" X=7 ¼"	LG-126 LG-126A LG-126B LG-126C LG-126D LG-126E	10'-6" 10'-6" 10'-6" 16' 16' 16'	5 ½" 7 ½" 9 ¼" 5 ½" 7 ½" 9 ¼"	2.95 # 4.02 # 4.96 # 4.50 # 6.13 # 7.56#
"L" CHANNEL  	X=1" X=1 ½" X=2" X=3"	LG-127 LG-127A LG-127B LG-127C	10'-6" 10'-6" 10'-6" 10'-6"	3 ½" 4" 4 ½" 5 ½"	1.88 # 2.14 # 2.43 # 2.95 #
"L" CHANNEL  	X=1 ½" X=3"	LG-128 LG-128A	10'-6" 10'-6"	3 ½" 6 ½"	1.88 # 3.76 #

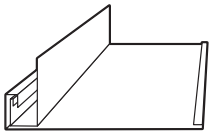
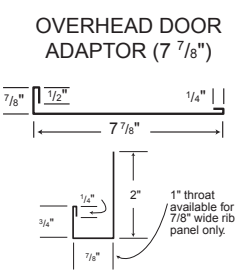
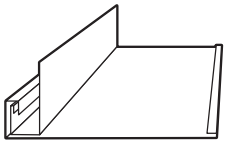
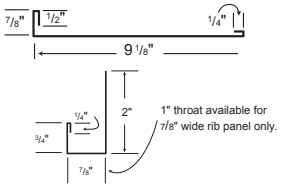
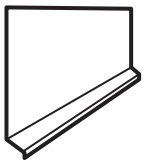
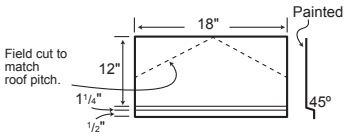
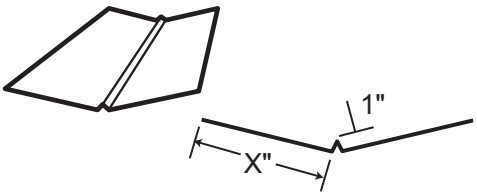
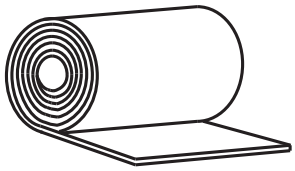
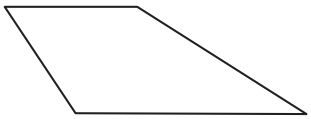
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
WINDOW DRIP CAP 	X=1" X=1 ½"	LG-129 LG-129A	10'-6" 10'-6"	3 ¼" 3 ¾"	1.60 # 1.88 #
SLIDING DOOR DRIP CAP 		LG-130	10'-6"	5 ¼"	4.42 #
NATIONAL DOOR TRACK COVER 		LG-131 LG-131A	10'-6" 16'	10 ⅜" 10 ⅜"	5.48 # 8.35 #
COMBO TRACK COVER 		LG-132 LG-132A	10'-6" 16'	12" 12"	6.30 # 9.60 #
	NOTE: May also be used with CANONBALL TRACK				
TOP MOUNT TRACK COVER 		LG-133 LG-133A	10'-6" 16'	10 ⅞" 10 ⅞"	5.57 # 8.50 #
TRACK DOOR JAMB TRIM 		LG-134	10'-6"	11 ⅝"	6.30 #

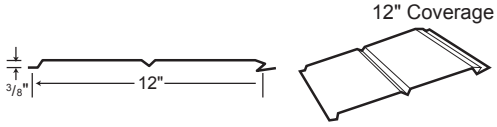
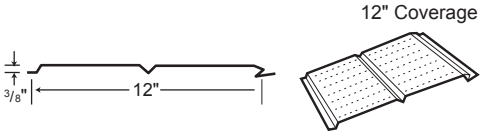
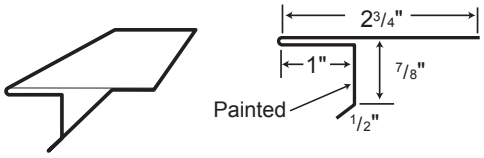
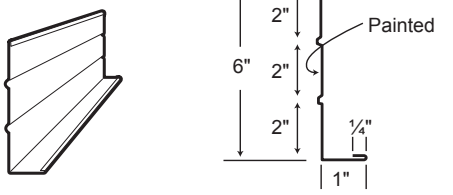
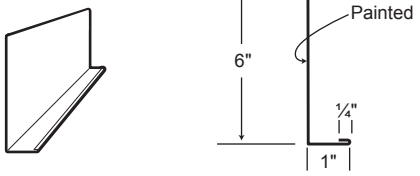
29 Gauge

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

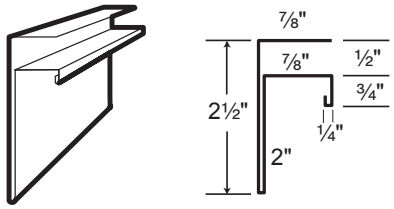
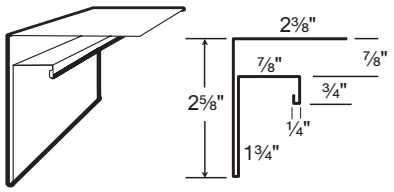
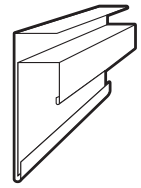
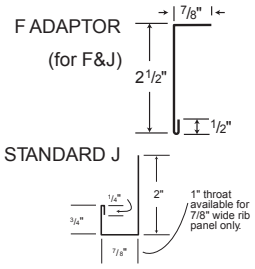
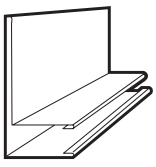
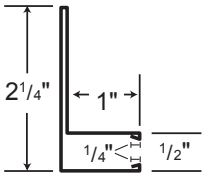
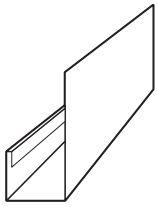
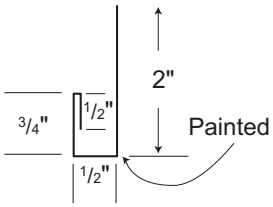
ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
OVERHEAD DOOR  	Two Piece Assembly	LG-235	10'-6"	9 ½"	6.50 #
		LG-235A	16'	9 ½"	10.40 #
		LG-123	10'-6"	3 ⅞"	2.32 #
		LG-123A	16'	3 ⅞"	4.20 #
	One Piece Assembly	LG-135	10'-6"	12 ¾"	6.69#
		LG-135A	16'	12 ¾"	10.19#
	Non-exposed J assorted colors may be used				
OVERHEAD DOOR  	Two Piece Assembly	LG-236	10'-6"	10 ¾"	7.65 #
		LG-236A	16'	10 ¾"	12.20 #
		LG-123	10'-6"	3 ⅞"	2.32 #
		LG-123A	16'	3 ⅞"	4.20 #
	One Piece Assembly	LG-136	10'-6"	14"	7.35#
		LG-136A	16'	14"	11.20#
	Non-exposed J assorted colors may be used				
KEYSTONE PIECE  		LG-137	13 ¾" X 18"	N/A	1.00 #
"W" FORMED VALLEY  4:12 PITCH STANDARD UNLESS SPECIFIED OTHERWISE	X=9"	LG-138	10'-6"	20"	10.30 #
	X=14"	LG-139	10'-6"	30"	15.45 #
	29 Gauge steel available in all colors				
ROLL VALLEY 	29 Gauge	Roll Valley	50'-0"	20 3/16"	65 #
	29 Gauge steel available in all colors				
FLAT SHEET  *Skidding charge of $42.00 will be added	40 ⅞" X 126" Galvanized & Color	Flat Sheet			22.89 #
	44 ½" X 126" Galvalume Plus®	Flat Sheet			24.03 #

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
V GROOVE SOFFIT 	Available-All Colors Custom sheared lengths are available. Recommended for applications under 4'	LG-140	12'-6"	13 ¾"	8.75 #
V GROOVE PERFORATED SOFFIT  *Perforation voids finish warranties	Available-All Colors Custom sheared lengths are available. Recommended for applications under 4'	LG-142	12'-6"	13 ¾"	8.75 #
STYLE "D" 	29 Gauge steel available in all colors	LG-144	10'-6"	5 ⅛"	3 #
BEADED FASCIA 	29 Gauge steel available in all colors	LG-145	10'-6"	7 ½"	4.02 #
FASCIA  Not available w/ beads	29 Gauge Steel	LG-146S	10'-6"	7 ¼"	3.67 #

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	GIRTH	WEIGHT
F & J SOFFIT 	Longer Lead times may apply - Inquire	LG-147	10'-6"	7 ¼"	3.67 #
F & J PANEL 	Longer Lead times may apply - Inquire	LG-182	10'-6"	8 ⅝"	4.75 #
F & J ASSEMBLY  Two piece trim 	Non-Exposed Assorted Material	LG-147F	10'-6"	3 ⅞"	2.32 #
	Order Separate	LG-123	10'-6"	3 ⅞"	2.32 #
"F" CHANNEL  	29 Gauge Steel	LG-148S	10'-6"	6 ½"	3.29 #
SOFFIT "J"  	29 Gauge Steel	LG-186	10'-6"	3 ¾"	2.05 #
	26 Gauge Steel	LG-186	10'-6"	3 ¾"	2.55 #

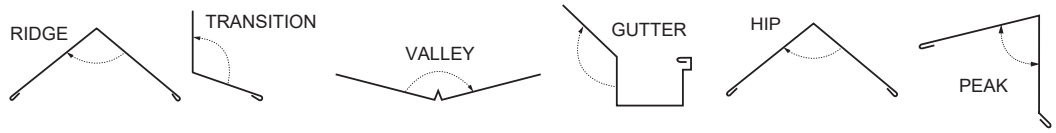
PRODUCT INFORMATION

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 <u>total</u> 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

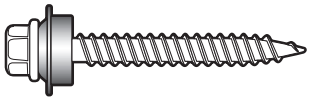
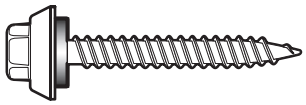
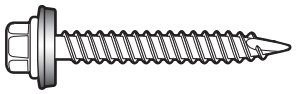
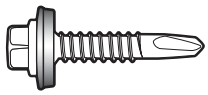
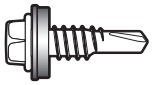
		FROM											
		12:12	11:12	10:12	9:12	8:12	7:12	6:12	5:12	4:12	3:12	2:12	1:12
TO	1:12	139°	142°	144°	147°	150°	154°	158°	162°	168°	172°	177°	
	2:12	144°	147°	149°	152°	156°	159°	163°	167°	171°	176°		
	3:12	149°	151°	154°	157°	160°	163°	167°	171°	175°			
	4:12	153°	156°	158°	161°	164°	168°	172°	176°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

AMERICAN BUILDING COMPONENTS

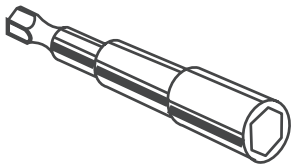
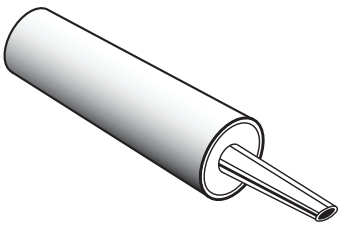
PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	LENGTH	LB. PER BAG
WOOD FASTENER 	PANEL TO WOOD HEAD SIZE ¼"	8A 8 8B 8C 9D	10 X 1" 10 X 1 ½" 10 X 2" 10 X 2 ½" 10 X 3"	2.18 # 2.70 # 3.28 # 3.85 # 4.40#
	250 PER BAG - ALL SCREWS ARE PRICED PER 1,000 EA			
LONG LIFE WOOD FASTENER 	PANEL TO WOOD HEAD SIZE 5/16"	9A 9	10 X 1" 10 X 1 ½"	3.55 # 4.58 #
	250 PER BAG - SPECIAL ORDER ONLY			
STAINLESS STEEL WOOD FASTENER 	BI-METAL FASTENER HEAD SIZE 5/16"	108 205 154	10 X 1" 10 X 1 ½" 10 X 2"	2.33 # 2.89 # 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 HEAD SIZE 5/16"	17A	12 X 1 ¼"	3.88 #
	250 PER BAG			
SELF-DRILLER LAP-TEK 	PANEL TO METAL HEAD SIZE 5/16"	4A	14 X ⅞"	4.00 #
	250 PER BAG			
SELF-TAPPING - Requires a pilot hole 	PANEL TO WOOD HEAD SIZE 5/16" Pre-Drill Holes	18 18B 18C	14 X 1" 14 X 1 ½" 14 X 2"	4.13 # 5.15 # 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 #2 Pillips-Wood Grip	13	10 X 1"	1.78 #
	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.

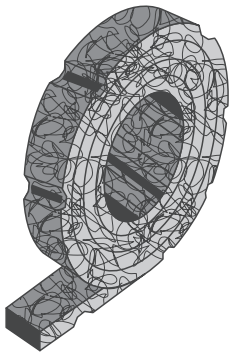
PRODUCT INFORMATION

ITEM	SIZE	PART NUMBER	COLOR
TOUCH UP PAINT - BRUSH TOP CAN *Std Colors  (Recommended for minor scratch cover only)	2 Oz. Bottle with brush	HW-304	See Standard Color Chart
ONE PIECE MAGNETIC SOCKET 	¼" 5/16"	HW-606 HW-605	
URETHANE WHITE **URETHANE BRONZE** **URETHANE ALMOND**  *Silicone not recommended for panel applications	11 Oz. Tube 11 Oz. Tube 11 Oz. Tube	HW-540 HW-542 HW-544	White Bronze Almond

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

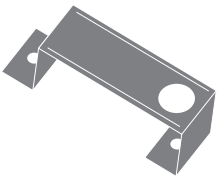
PROFILE VENT



GENERAL	PART NUMBER	LENGTH
Imperial Rib®	HW-116IR	100' ROLL
Regal Rib®	HW-116RR	100' ROLL
Ameri-Drain®	HW-116AM	100' ROLL
⅞" Wide Rib®	HW-116WR	100' ROLL
Monarch Rib®	HW-116MR	100' ROLL
Rugged Rib®	HW-116RU	100' ROLL
Perma-Clad®	HW-116PC	100' ROLL
5V Crimp®	HW-1165V	100' ROLL

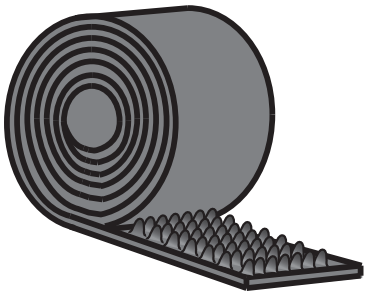
*Two 50' Rolls per Pkg

PROFILE VENT ANCHOR CLIP



GENERAL	PART NUMBER	CLIP HEIGHT	WEIGHT	CARTON SIZE
¾"	HW-2075	1"	.042 each	25
1"	HW-2076	1 ¼"	.045 each	25

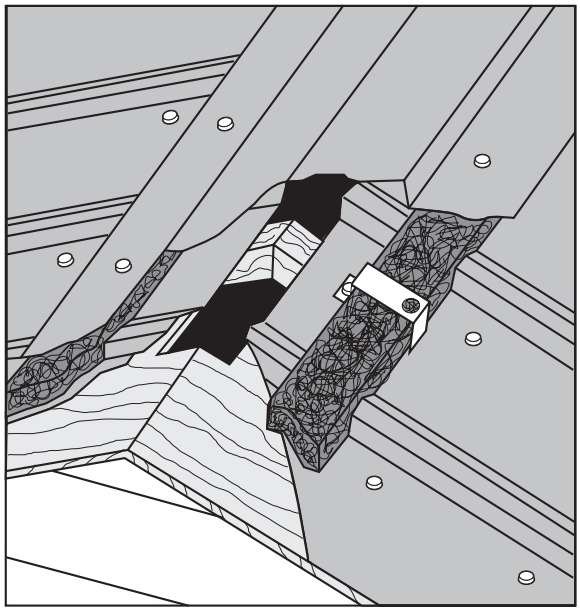
VERSA VENT

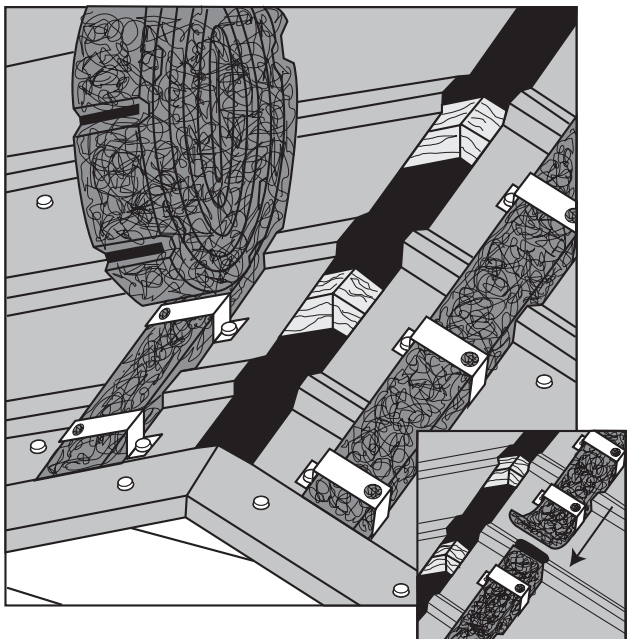


GENERAL	PART NUMBER		WEIGHT	CARTON SIZE
1" Thickness	HW-111		10'-0"	10
1 ¼" Thickness	HW-112		10'-0"	10

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		

AMERICAN BUILDING COMPONENTS

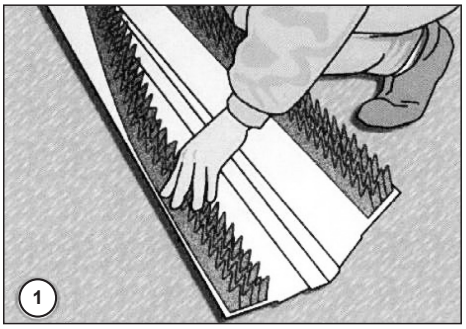
PRODUCT INFORMATION

VERSAVENT™

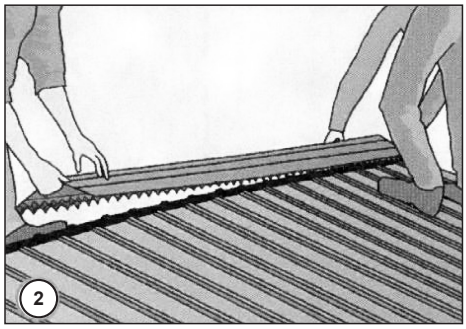
X-10 VersaVent™

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.

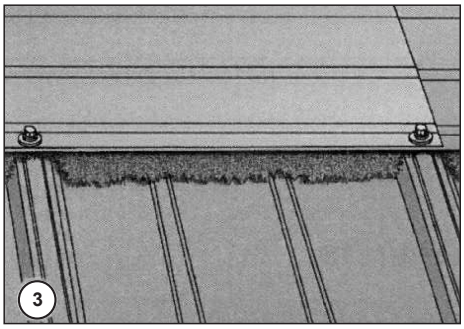
EASY 1, 2, 3 INSTALLATION



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

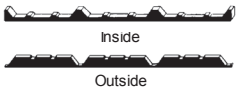
All test results and recommendations are based on laboratory test. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications very, we assume no liability for use of this information.

- **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™**

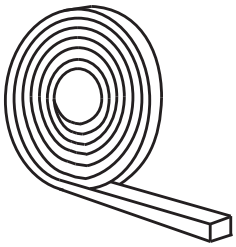
AMERICAN BUILDING COMPONENTS®

29 Gauge

PRODUCT INFORMATION

ITEM	GENERAL	PART NUMBER	ADHESIVE	LENGTH	WEIGHT
UNIVERSAL CLOSURE 	1 ½" x 1"	HW-422A	NO	25'	.15 #
CLOSURE STRIP Specify Panel Configuration  Inside Outside NOTE: Adhesive on outside closures only. Photo above does not represent all closure strips.	Imperial Rib® - Inside	HW-472	NO	36"	.03 #
	Imperial Rib® - Outside	HW-473	YES	36"	.06 #
	Regal Rib® - Inside	HW-483	NO	36"	.03 #
	Regal Rib® - Outside	HW-484	YES	36"	.06 #
	Ameri-Drain® - Inside	HW-476	NO	36"	.03 #
	Ameri-Drain® - Outside	HW-477	YES	36"	.06 #
	⅞" Wide Rib® - Inside	HW-474	NO	36"	.03 #
	⅞" Wide Rib® - Outside	HW-475	YES	36"	.06 #
	Monarch Rib® - Inside	HW-485	NO	36"	.03 #
	Monarch Rib® - Outside	HW-486	YES	36"	.06 #
	Rugged Rib® - Inside	HW-481	NO	36"	.03 #
	Rugged Rib® - Outside	HW-482	YES	36"	.06 #
	Perma Clad® - Inside	HW-470	NO	36"	.03 #
	Perma Clad® - Outside	HW-471	YES	36"	.06 #
	5V Crimp® - Inside	HW-450	NO	24"	.03 #
	5V Crimp® - Outside	HW-452	YES	24"	.04 #

EMSEAL FOAM



GENERAL	PART NUMBER	RECOMMENDED THICKNESS	CARTON SIZE	LENGTH
Imperial Rib®	HW-513A	1-½"	24	13'-2"
PBU Panel	HW-513A	1-½"	24	13'-2"
⅞" Wide®	HW-513A	1-½"	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
⅜" x 3/32"	HW-505	48	45'-0"	1.70 #
½" x 3/32"	HW-507	20	50'-0"	1.70 #
1" x 3/32"	HW-506	12	40'-0"	3.50 #
		SOLD PER ROLL		

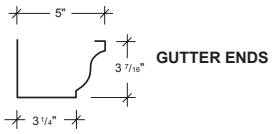
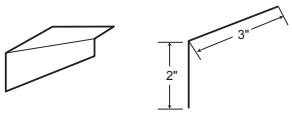
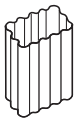
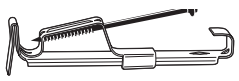
TRIPLE BEAD TAPE

TRI-BEAD TAPE

2 ½" X 3/16"	HW-502	6	20'-0"	21.00 #
⅞" X 3/16"	HW-504	8	25'-0"	17.74 #
		SOLD PER CARTON		

AMERICAN BUILDING COMPONENTS

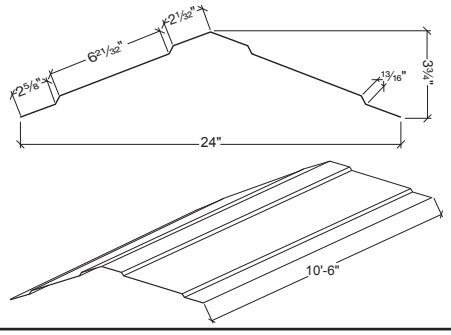
PRODUCT INFORMATION

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-OUTSIDE SQUARE CORNER 	INSIDE OUTSIDE WHITE ONLY - May be field painted to match other colors	LG-168 LG-168A			
GUTTER APRON 		LG-149	10'-6"	5"	2.70#
5K 4" X 3" DOWNSPOUT 		LG-180	10'	10 ½"	5.60#
DOWNSPOUT STRAP (FIELD BEND)		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	¼"-2"	HW-1000	-65°-+212°	4 ½"	.17 #	15
	¼"-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					
	¼"-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	½"-4"	HW-1005	-65°-+212°	8 3/16"	.74 #	5
	4"-9 ¼"	HW-1006	-65°-+212°	14 ¼"	2.20 #	1
	9 ¼"-16 ¼"	HW-1007	-65°-+212°	21 ½"	11.00 #	1
	HIGH TEMPERATURE					
	½"-4"	HW-1060	-100°-+437°	8 3/16"	.74 #	5
	4"-9 ¼"	HW-1061	-100°-+437°	14 ¼"	2.20 #	1
	9 ¼"-16 ¼"	HW-1062	-100°-+437°	21 ½"	11.00 #	1
	High Temperature per special order. Please inquire. UPS Charges apply					

ITEM	GENERAL	PART NUMBER	LENGTH	WIDTH	COLOR	WEIGHT
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#
	⅞" Wide Rib®	HW-1584	12'	38"	White	14.60#
LIGHT TRANSMITTING RIDGE PANEL	Use with all panel profiles	HW-1698	10'-6"	24"	Fiberglass	6.70#
		HW-1688	10'-6"	24"	Clear Polycarb	6.70#

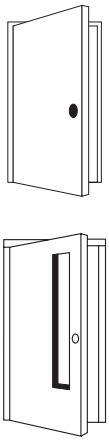
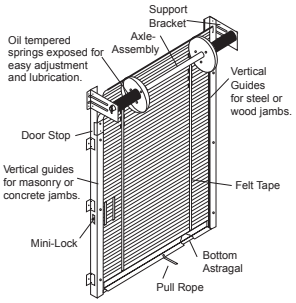


CAUTION

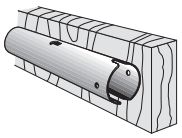
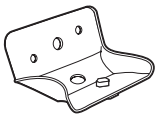
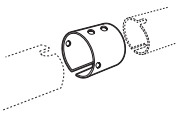
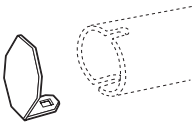
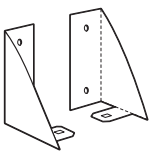
It is the user's responsibility to ensure that the installation and use of all light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls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

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

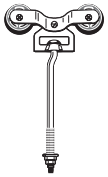
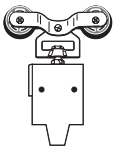
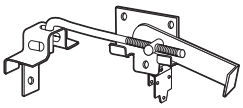
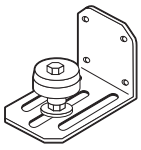
ITEM	GENERAL	PART NUMBER	SIZE	FINISH	WEIGHT
3070M AG DOOR 	NOTE: All doors include frame, leaf, hinges, and threshold. ADA regulations require lever lockset for public access buildings.	HW-9200 HW-9201	3070 M 3070 NL	White White	162.00 # 162.00#
ROLL UP DOOR PKG 	650M 3X7 DOOR PKG 650M 4X7 DOOR PKG 650M 5X7 DOOR PKG 650M 6X7 DOOR PKG 650M 8X7 DOOR PKG 650M 9X7 DOOR PKG 650M 9X8 DOOR PKG 650M 10X8 DOOR PKG 650M 10X9 DOOR PKG 650M 10X10 DOOR PKG For custom sizes, please inquire.	HW-9098 HW-9040 HW-9046 HW-9045 HW-9052 HW-9042 HW-9051 HW-9043 HW-9099 HW-9044	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.		46.00 # 49.00 # 61.00 # 74.00 # 98.00 # 110.00 # 126.00 # 140.00 # 158.00 # 175.00 #

PRODUCT INFORMATION

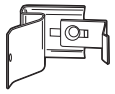
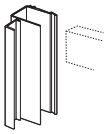
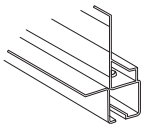
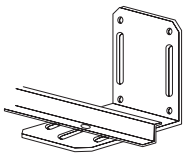
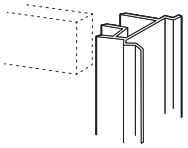
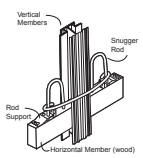
ITEM	GENERAL	LENGTH	WEIGHT
T1 PLY-TRACK 	14-Gauge Track Brackets at 2' Centers	8' 10' 12'	16.80 # 21.00 # 25.20 #
T2A SIDE MOUNT BRACKET 		N/A	.2 #
T2B SIDE MOUNT BRACKET (FOR COVER) 		N/A	.6 #
T3 SPLICE COLLAR 	One for each piece of track in the run less one.	N/A	.61 #
T4 ENDCAP WITH MOUNTING BOLT 	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

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

ITEM	GENERAL	LENGTH	WEIGHT
T6 ADJUSTABLE OFFSET BOLT TROLLEY HANGER (DELRIN®) 	Rated for 500 lbs.	9 ½" BOLB	4.6 # per pair
T7 ADJUSTABLE OFFSET TROLLEY HANGER (DELRIN®) 	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

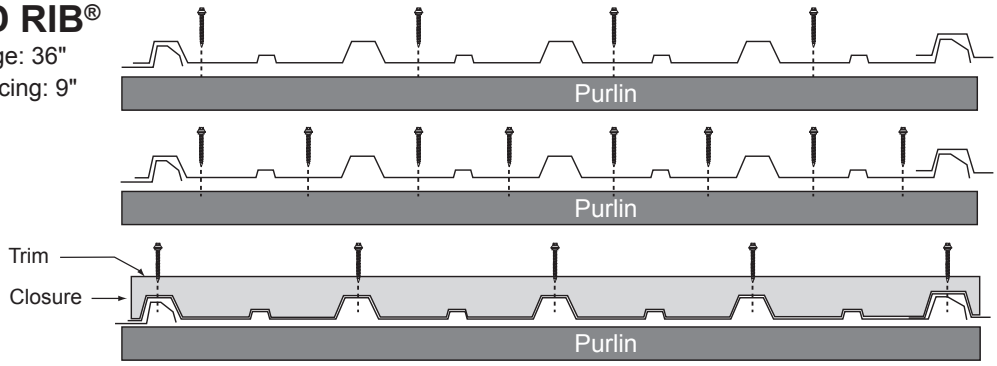
ITEM	GENERAL	LENGTH	WEIGHT
T13 DOOR STOP ADJUSTABLE 	Galvanized	N/A	1.10 #
T18 SIDERAIL 	White Only Not Punched	10' 12' 14' 16'	7.60 # 9.12 # 10.64 # 12.16 #
T19 BOTTOM RAIL 	White Only Attaches to wood bottom rail and used with T20 Guiderail.	10' 12' 14' 16'	8.00 # 9.60 # 11.20 # 12.80 #
T20 GUIDERAIL 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 ½"	1.71 #

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

RUGGED RIB®

Panel Coverage: 36"
Major Rib Spacing: 9"



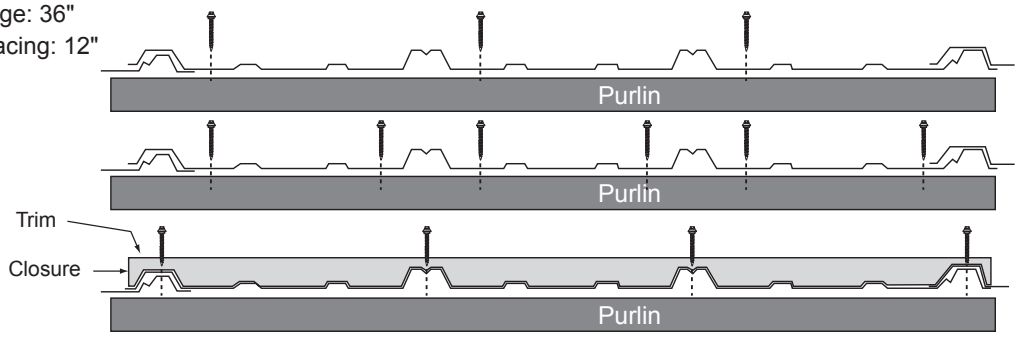
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

REGAL RIB®

Panel Coverage: 36"
Major Rib Spacing: 12"



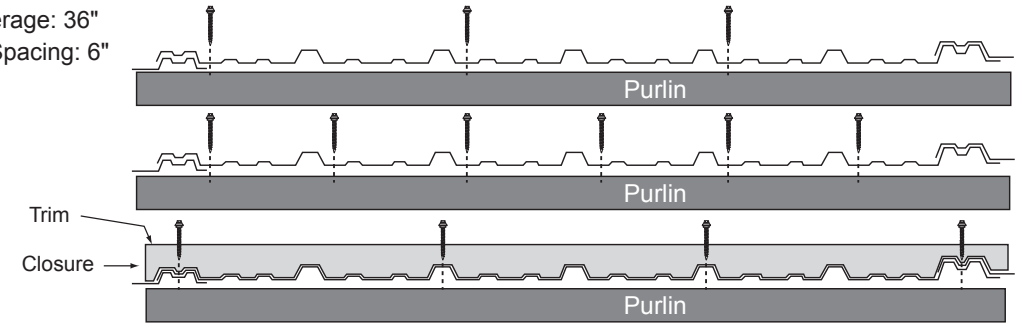
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

AMERI-DRAIN®

Panel Coverage: 36"
Major Rib Spacing: 6"



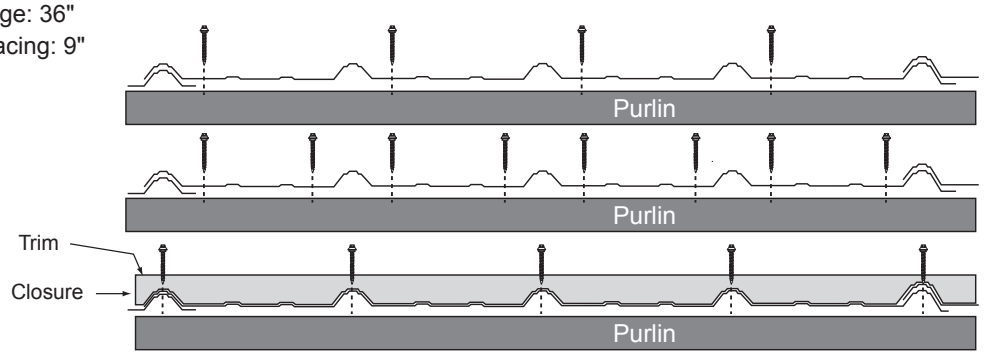
Typical fastener placement at intermediate purlins.

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.

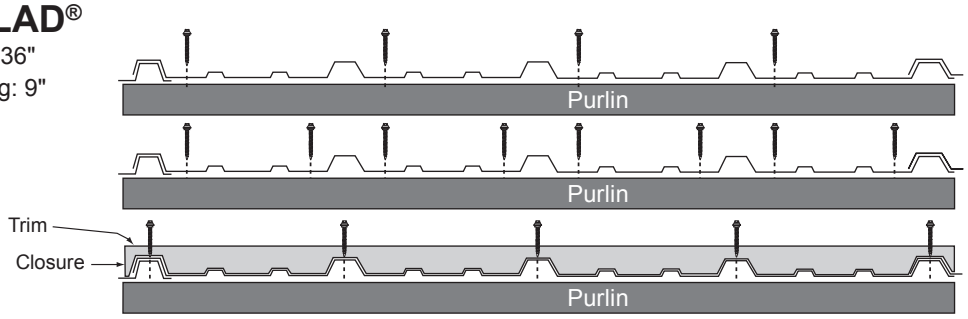
AMERICAN BUILDING COMPONENTS®

29 Gauge

PRODUCT INFORMATION

PERMA-CLAD®

Panel Coverage: 36"
Major Rib Spacing: 9"



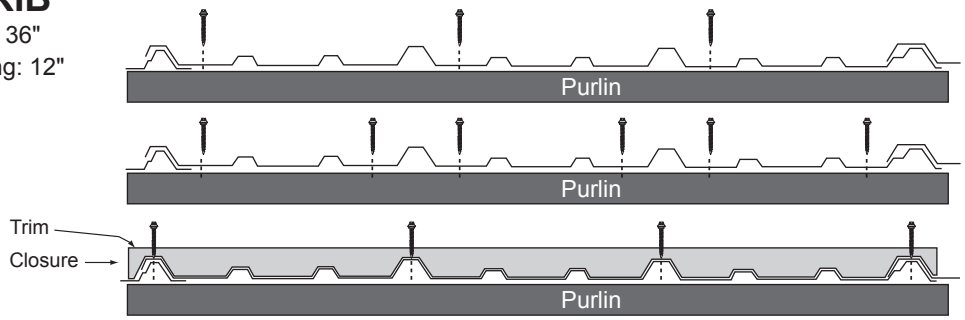
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

7/8" WIDE RIB®

Panel Coverage: 36"
Major Rib Spacing: 12"



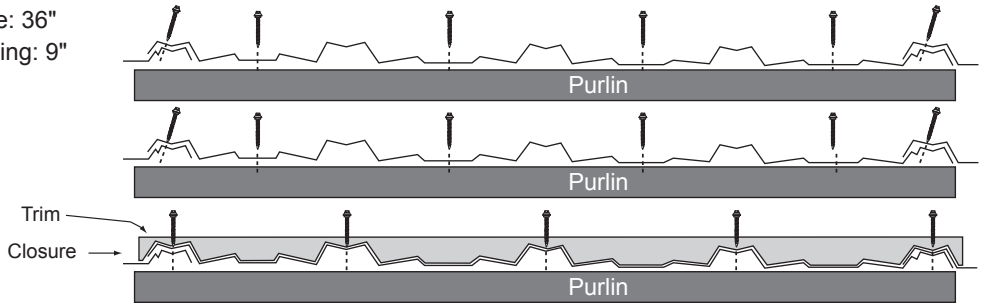
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

MONARCH RIB®

Panel Coverage: 36"
Major Rib Spacing: 9"



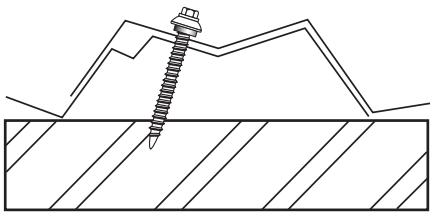
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

FOR MONARCH RIB® ONLY

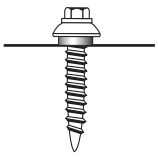
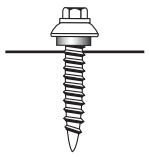
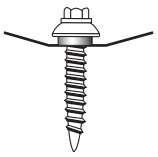
IMPORTANT: Screw perpendicular to slanted surface as indicated



DRILLING / DRIVING TIPS FOR ALL OUR RIBS

IMPORTANT: Apply sufficient torque to seat the washer, DO NOT OVER DRIVE THE FASTENER.

IMPORTANT: Remove any metal filings created during fastener placement to prevent rust marks on the panel surface.

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.

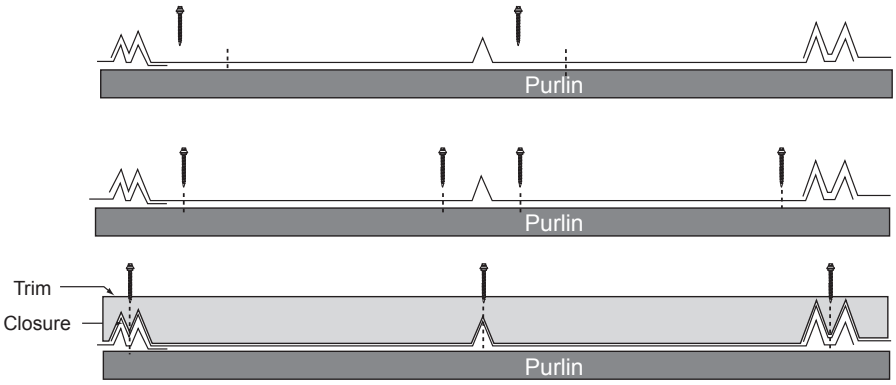
Note: Using a depth setting nosepiece is recommended for proper installation.

AMERICAN BUILDING COMPONENTS

PRODUCT INFORMATION

5V CRIMP

Panel Coverage: 24"
Major Rib Spacing: 12"



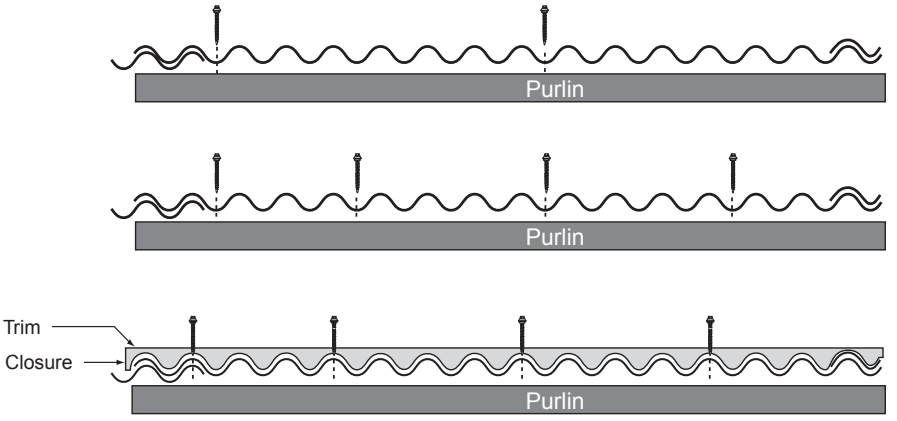
Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

CORRUGATED

Panel Coverage: 24"



Typical fastener placement at intermediate purlins.

Typical fastener placement at endlaps and eave strut.

Typical fastener placement at ridge.

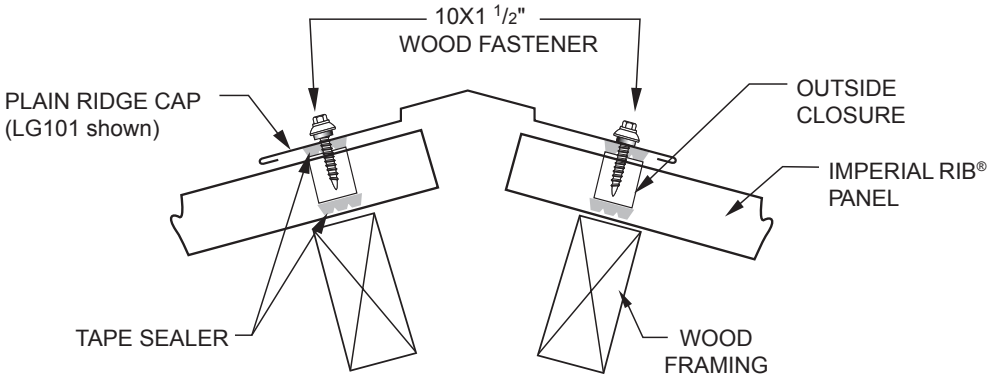
American Building Components recommends a #14 X 1", Type “A”, hex head fastener with washer for all exposed fastener panels applied over a plywood or OSB substrate. The use of a #9 or #10 wood fastener into plywood or OSB substrates is not recommended. This refers to exposed fastener panels installed 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.

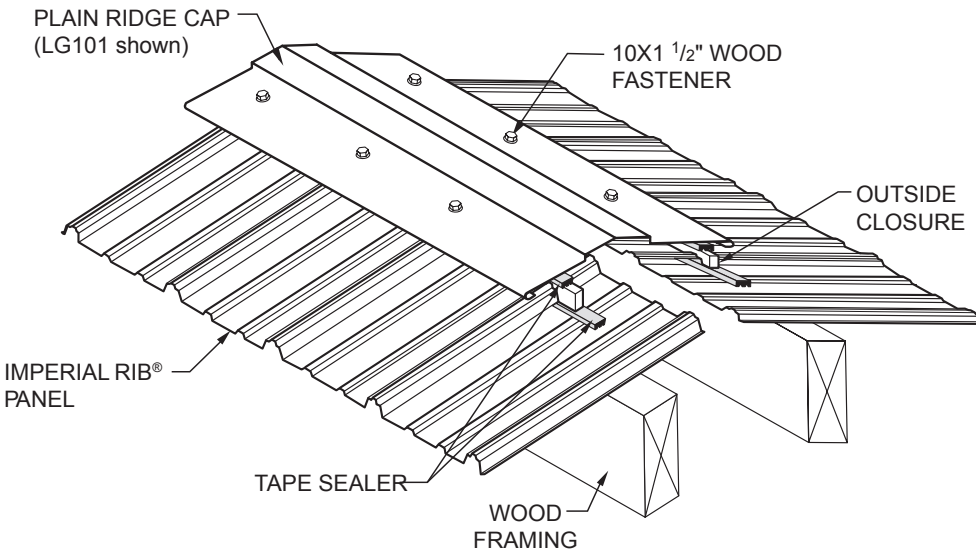
DETAILS

RIDGE APPLICATION DETAIL

CROSS SECTION OF RIDGE



ISOMETRIC VIEW OF RIDGE



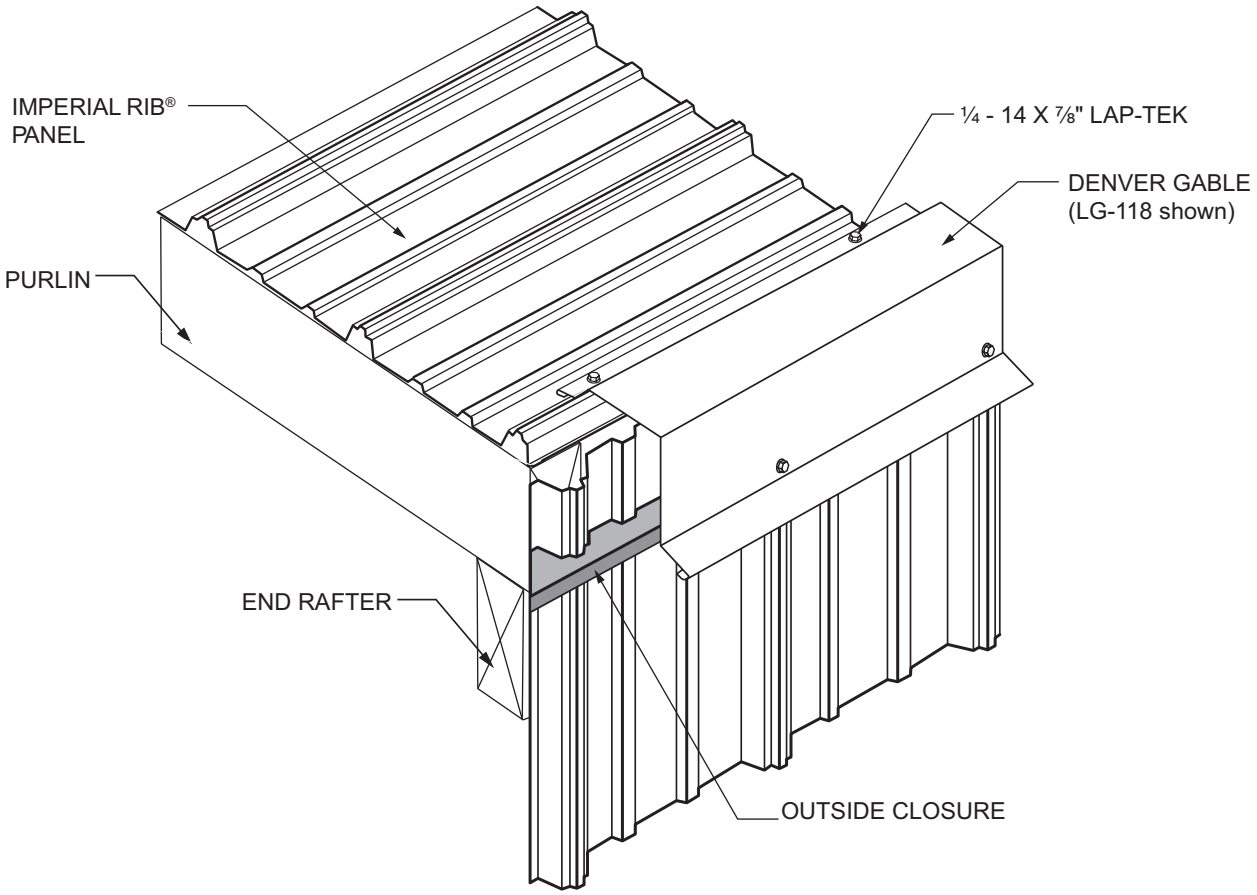
NOTES:

1. Stop panels 2" from center line of ridge or leave a gap of 1¾" between panels at the peak.
2. Install tape sealer across width of panels. Top edge of tape sealer is 1¾" 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 10 x 1½" wood fasteners. Install fasteners at each major rib in the panel to avoid dimpling the ridge cap.

AMERICAN BUILDING COMPONENTS

DETAILS

RAKE/GABLE DETAIL



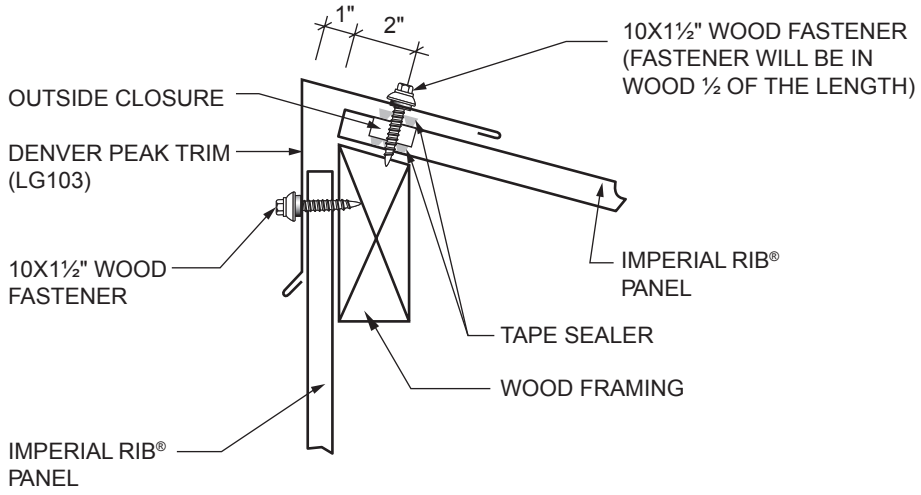
NOTES:

1. Attach Rake/Gable trim (LG118 shown) with 10 X 1½" woodgrip or 14 x ⅞" lap tek.
2. Sealant Tape and Closure Strip is recommended.

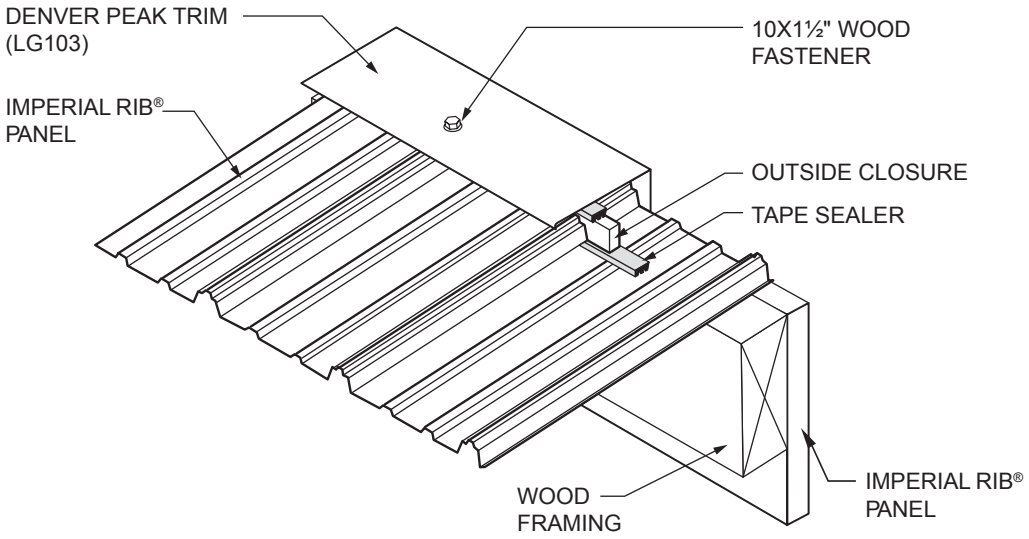
DETAILS

DENVER PEAK TRIM APPLICATION DETAIL

CROSS SECTION OF DENVER PEAK TRIM



ISOMETRIC VIEW OF DENVER PEAK TRIM



NOTES:

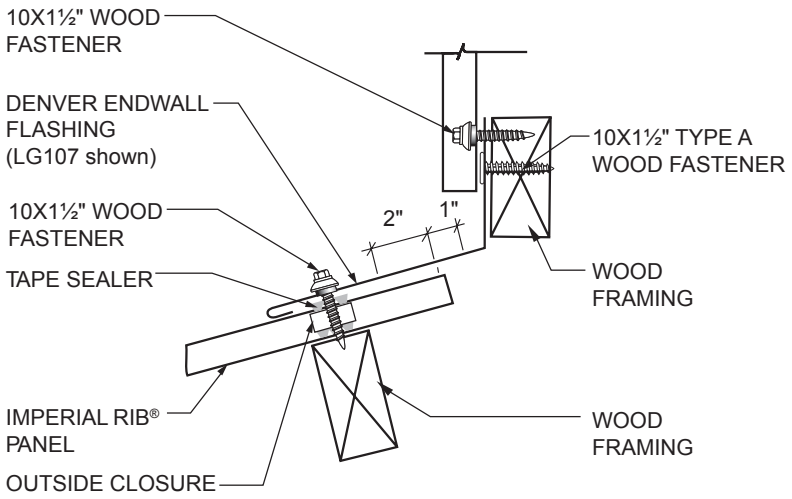
1. Install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top of outside closures.
2. Attach Denver Peak Trim (LG103) to panels with 10 x 1½" wood coated fasteners through all major ribs.

AMERICAN BUILDING COMPONENTS

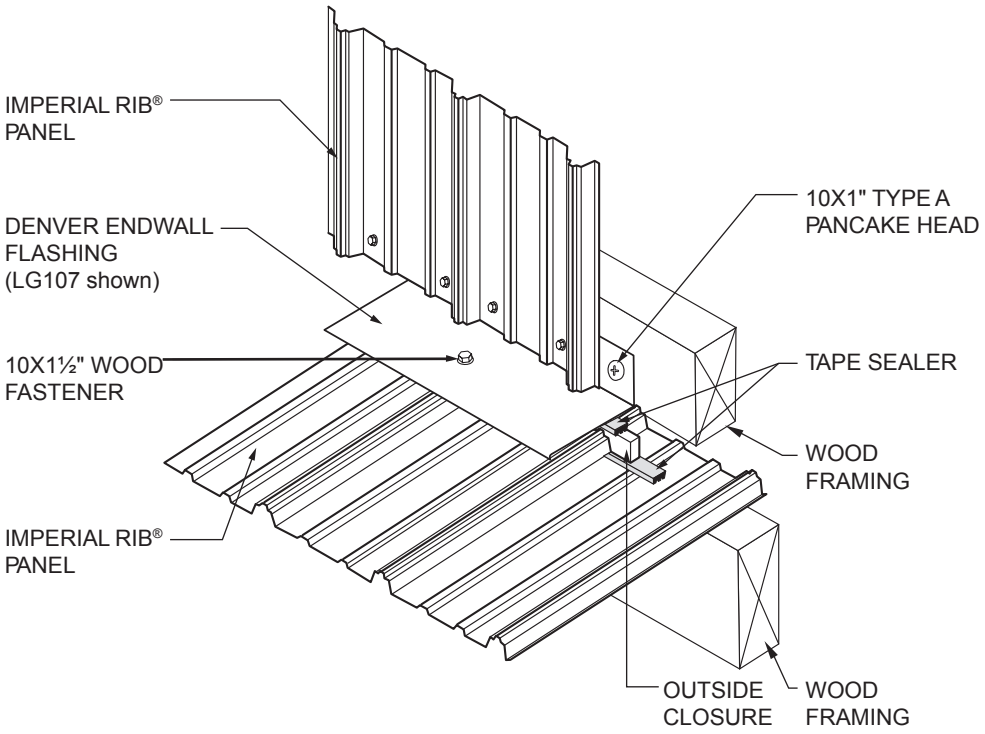
DETAILS

ENDWALL FLASHING APPLICATION DETAIL

CROSS SECTION OF ENDWALL FLASHING



ISOMETRIC VIEW OF ENDWALL FLASHING



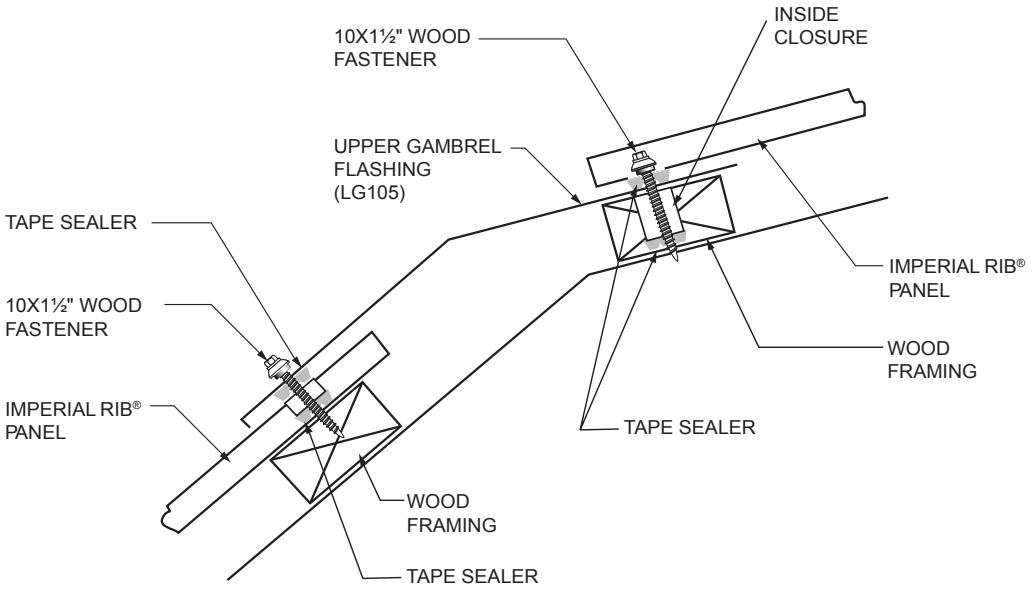
NOTES:

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 10 x 1½" woodgrip coated fasteners through all major ribs.

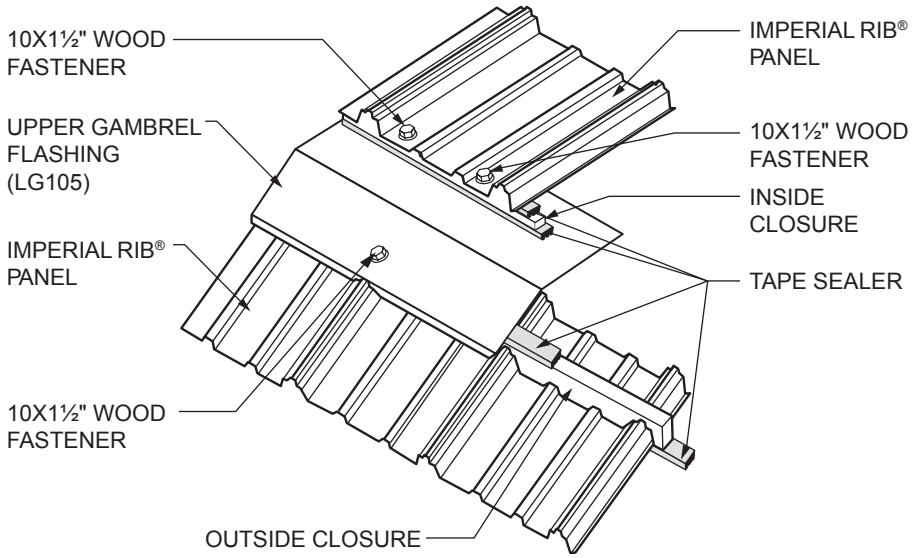
DETAILS

UPPER GAMBREL FLASHING APPLICATION DETAIL

CROSS SECTION OF UPPER GAMBREL FLASHING



ISOMETRIC VIEW OF UPPER GAMBREL FLASHING



NOTES:

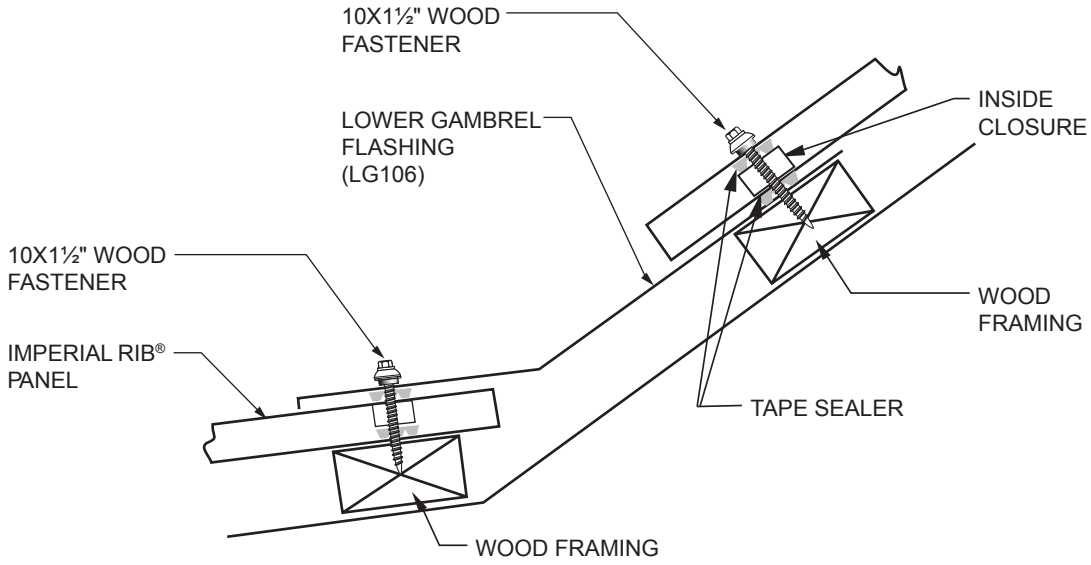
1. After installing Imperial Rib® panels on the lower roof section, install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top or outside closures. Use fasteners to attach Upper Gambrel Flashing (LG105) to panel at all major 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.

AMERICAN BUILDING COMPONENTS

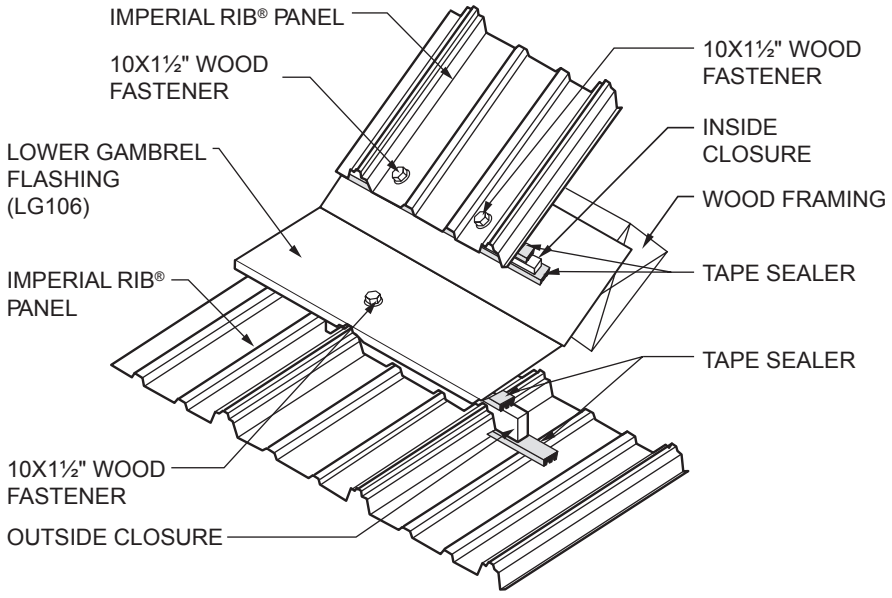
DETAILS

LOWER GAMBREL FLASHING APPLICATION DETAIL

CROSS SECTION OF LOWER GAMBREL FLASHING



ISOMETRIC VIEW OF LOWER GAMBREL FLASHING



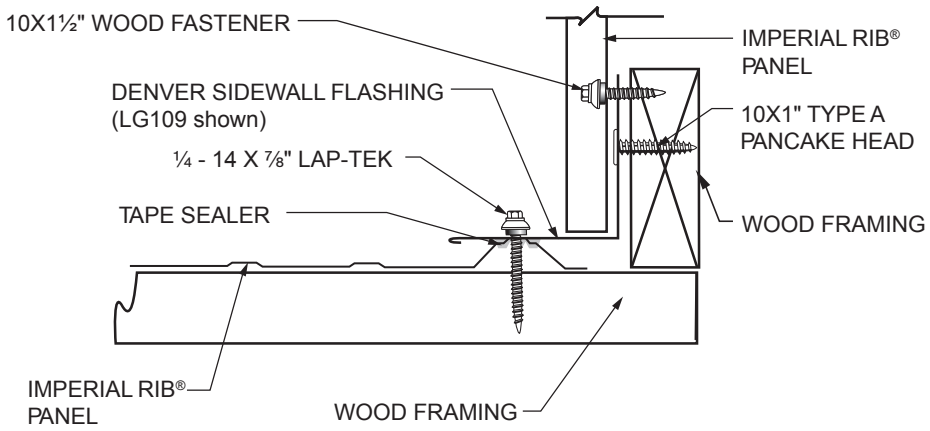
NOTES:

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.

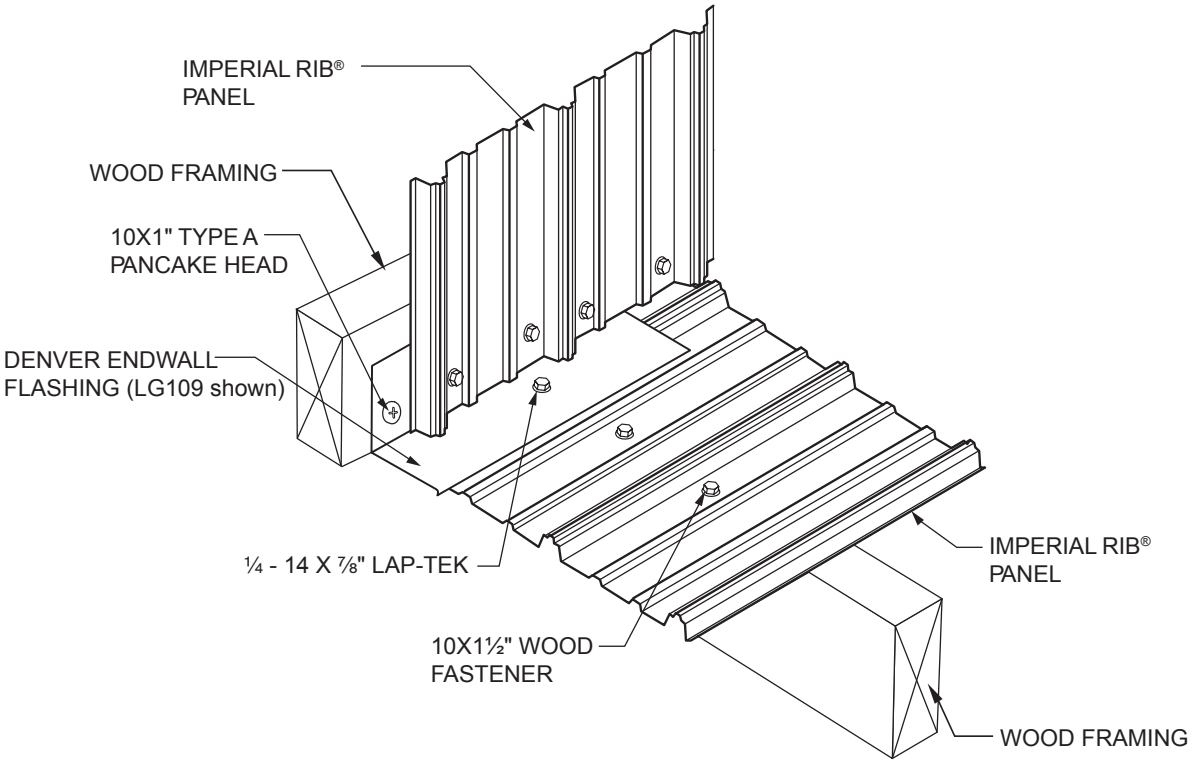
DETAILS

DENVER SIDEWALL FLASHING APPLICATION DETAIL

CROSS SECTION OF DENVER SIDEWALL FLASHING



ISOMETRIC VIEW OF DENVER SIDEWALL FLASHING



NOTES:

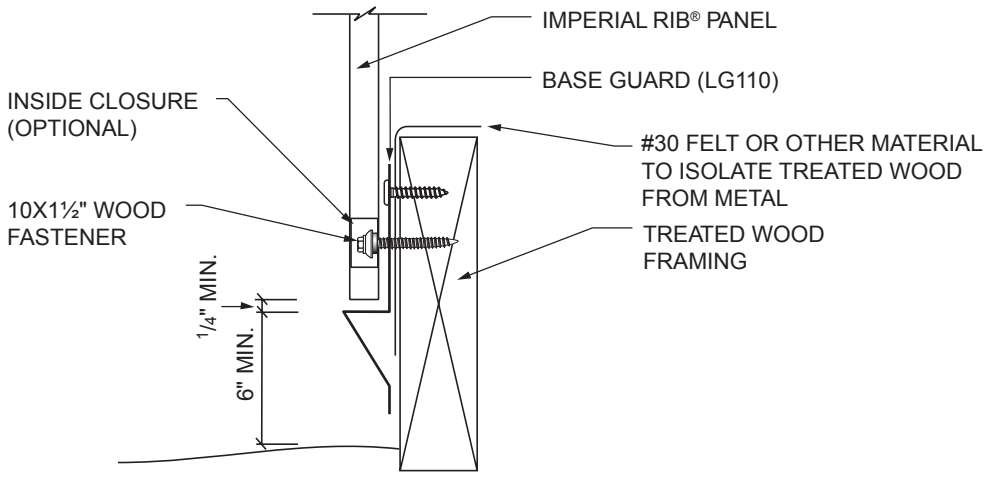
1. Install tape sealer across width of panels. Install outside closures on top of tape sealer. Install additional run of tape sealer on top of outside closures.
2. Attach Denver Sidewall Flashing (LG109) to panels with 10 x 1½" wood coated fasteners through all major ribs.

AMERICAN BUILDING COMPONENTS

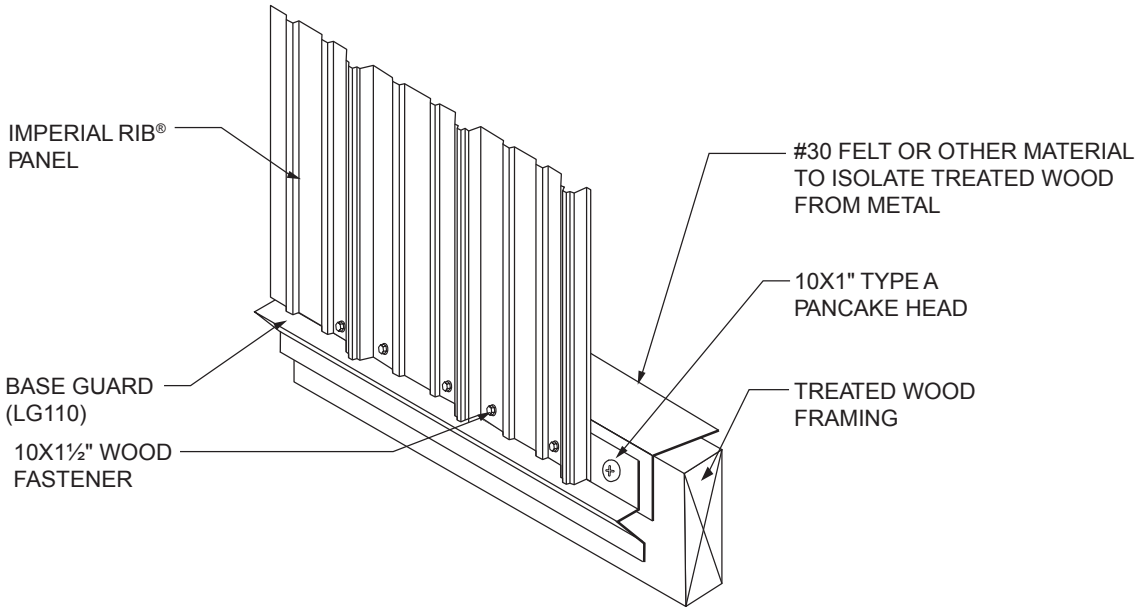
DETAILS

BASE GUARD DETAIL

CROSS SECTION OF BASE GUARD



ISOMETRIC VIEW OF BASE GUARD



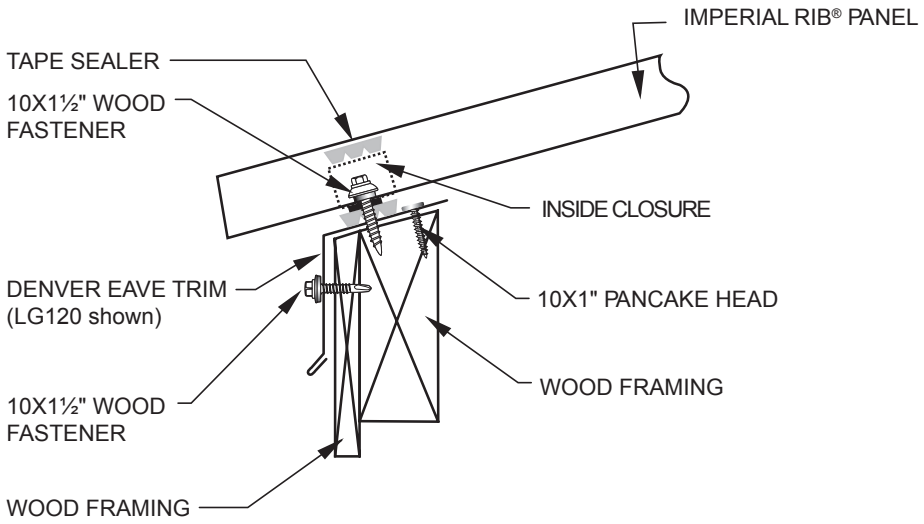
NOTES:

1. Attach Base Guard (LG110) with 10 x 1 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).

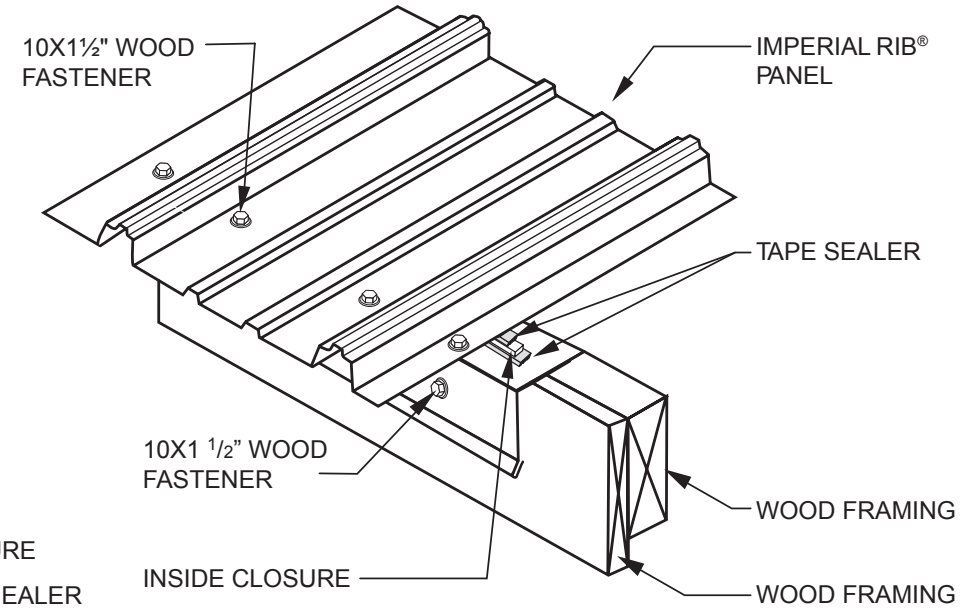
DETAILS

DENVER EAVE TRIM APPLICATION DETAIL

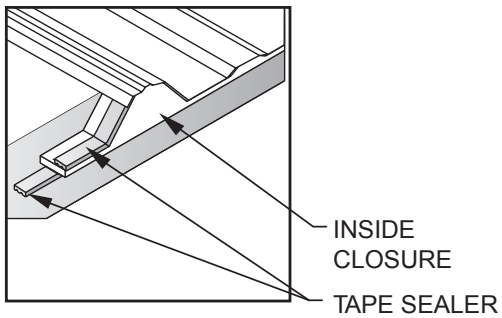
CROSS SECTION OF DENVER EAVE TRIM



ISOMETRIC VIEW OF DENVER EAVE TRIM



Panel End Detail



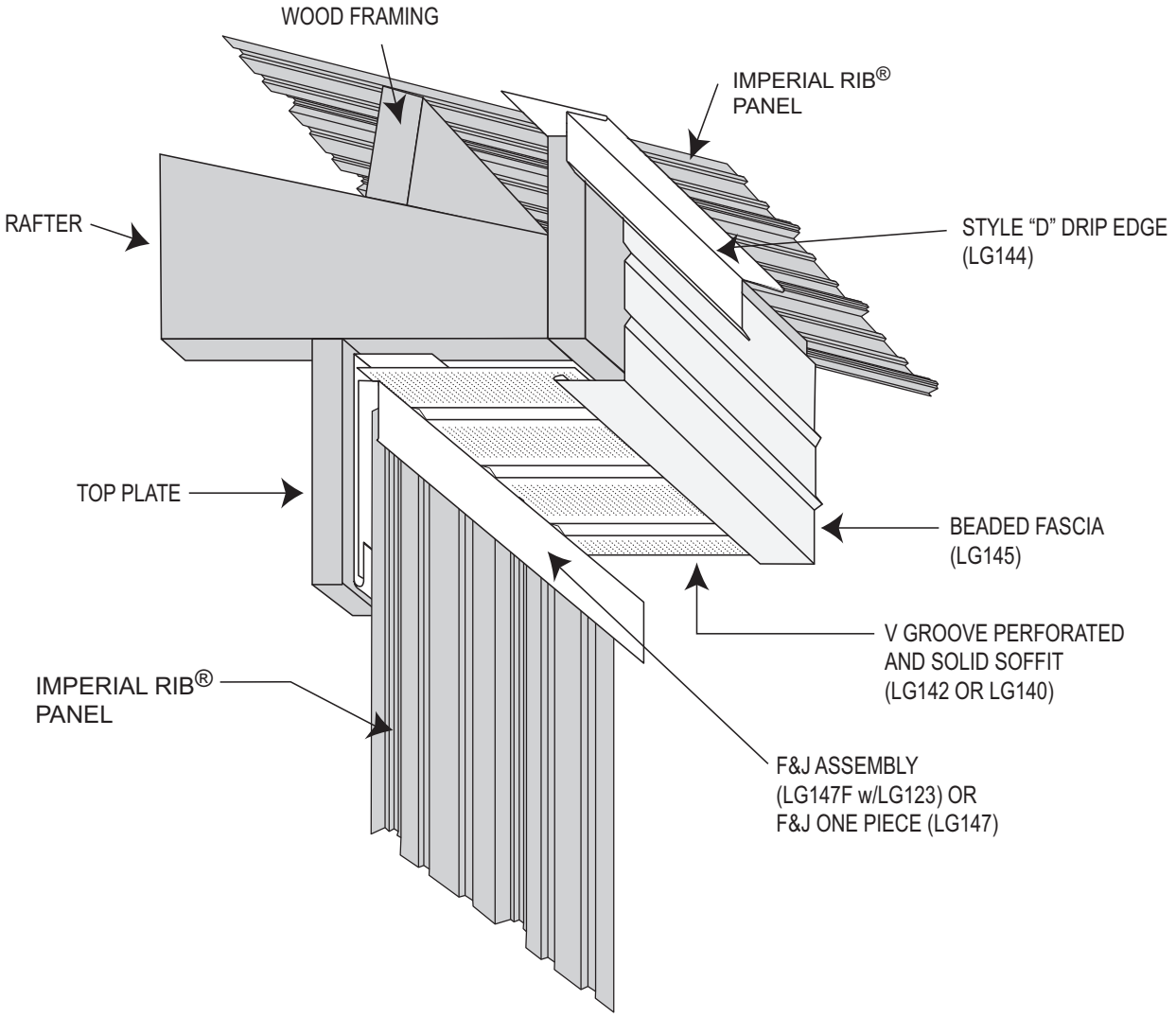
NOTES:

1. Attach Denver Eave Trim (LG120 shown) or Eave Flashing (LG119) to wood framing with 10 x 1" 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 10 x 1½" wood fastener on either side of panel ribs.

AMERICAN BUILDING COMPONENTS

DETAILS

SOFFIT AND FASCIA APPLICATION DETAIL

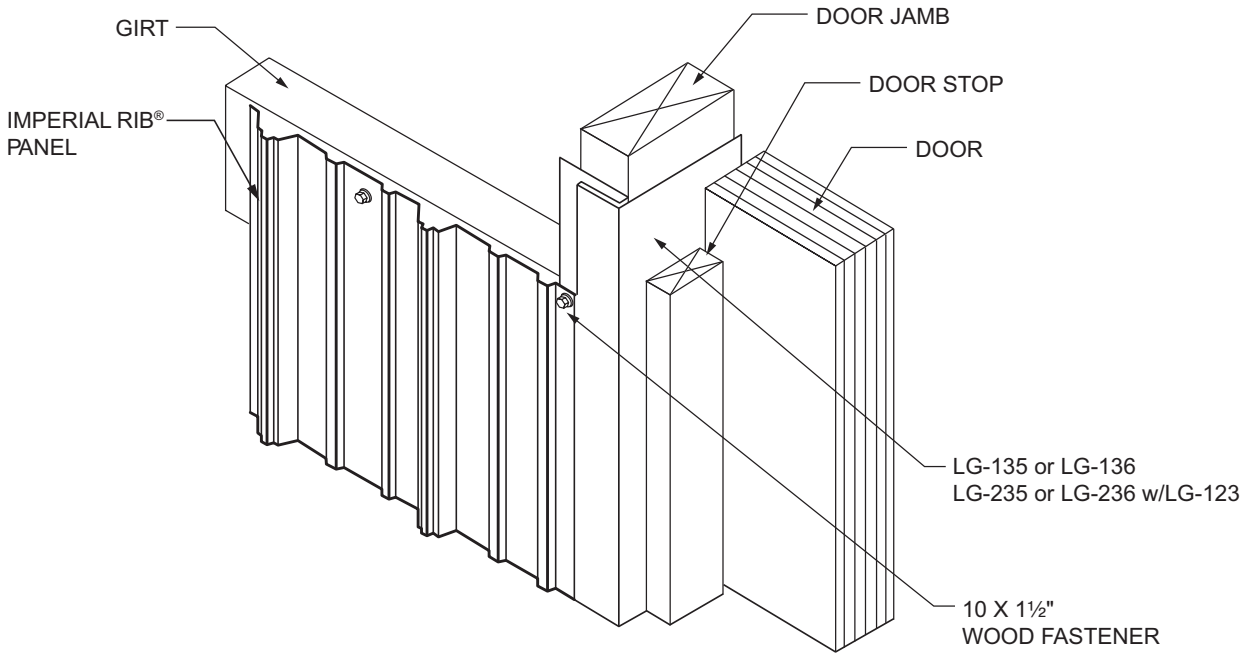


NOTES:

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:

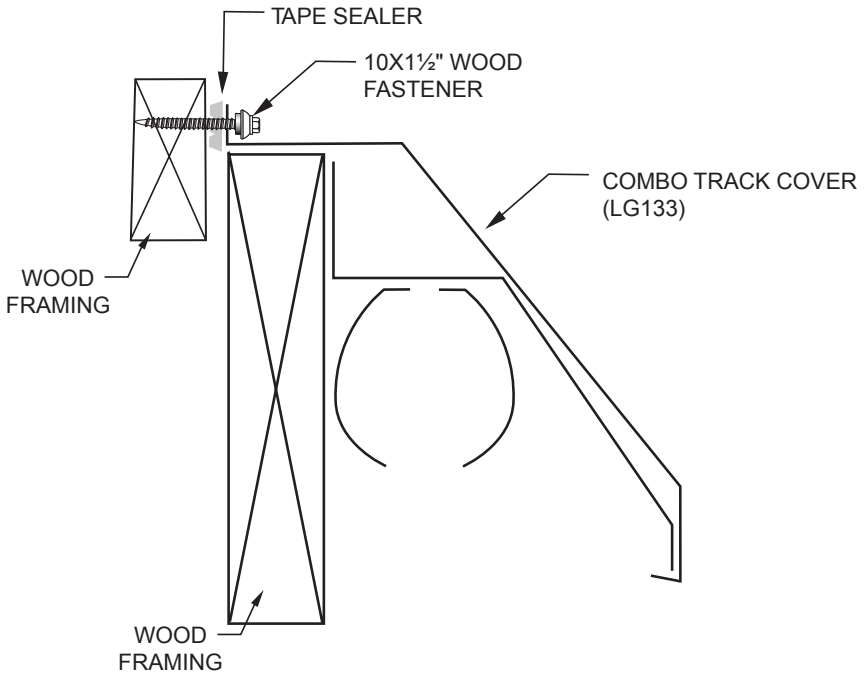
1. Fasten wall panel and secure door trim (LG135 shown) to wood framing with 10 x 1½" wood fastener.
2. Custom width trims availalbe, please inquire with sales representatives.

AMERICAN BUILDING COMPONENTS

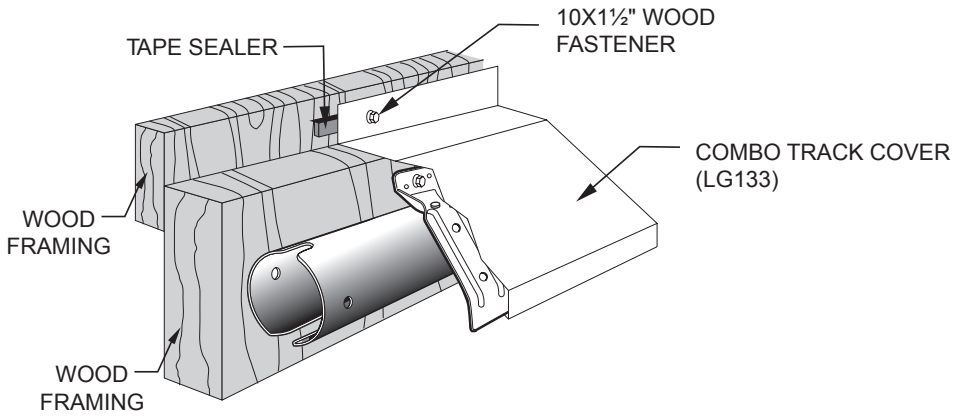
DETAILS

COMBO TRACK COVER APPLICATION DETAIL

CROSS SECTION OF COMBO TRACK COVER



ISOMETRIC VIEW OF COMBO TRACK COVER



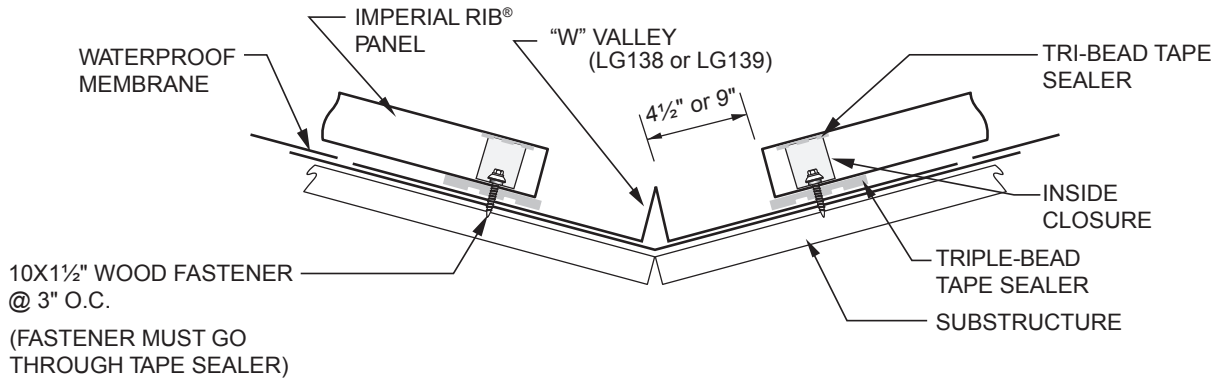
NOTES:

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).

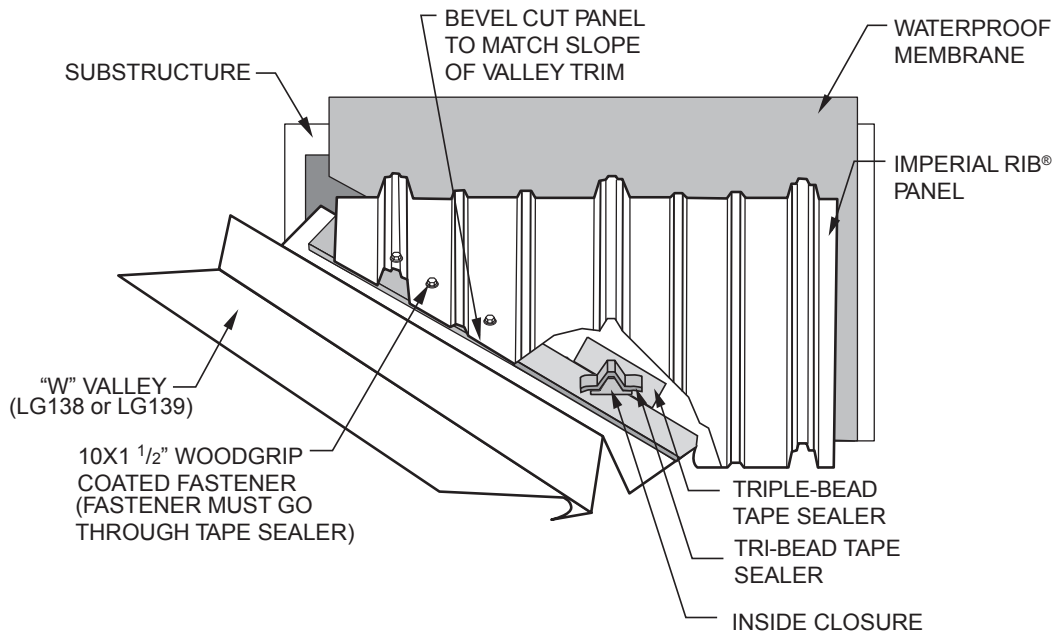
DETAILS

"W" VALLEY DETAIL

CROSS SECTION OF "W" VALLEY OVER WOOD DECK



ISOMETRIC VIEW OF "W" VALLEY OVER WOOD DECK



NOTES:

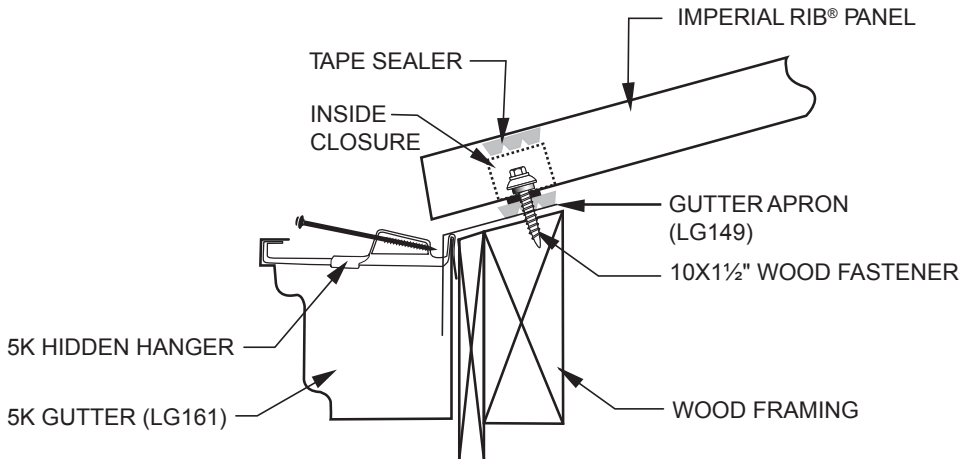
1. For valleys 30' or less in length, use "W" Valley LG138. Valleys longer than 30' require extended valley trim, LG139.
2. Use waterproof in the valley area, or other acceptable water proofing.
3. Apply triple-bead tape sealer to "W" Valley (LG138 or LG139) parallel to slope. Bottom edge of tape sealer 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 10 x 1½" wood fastener 3" O.C. maximum.

AMERICAN BUILDING COMPONENTS

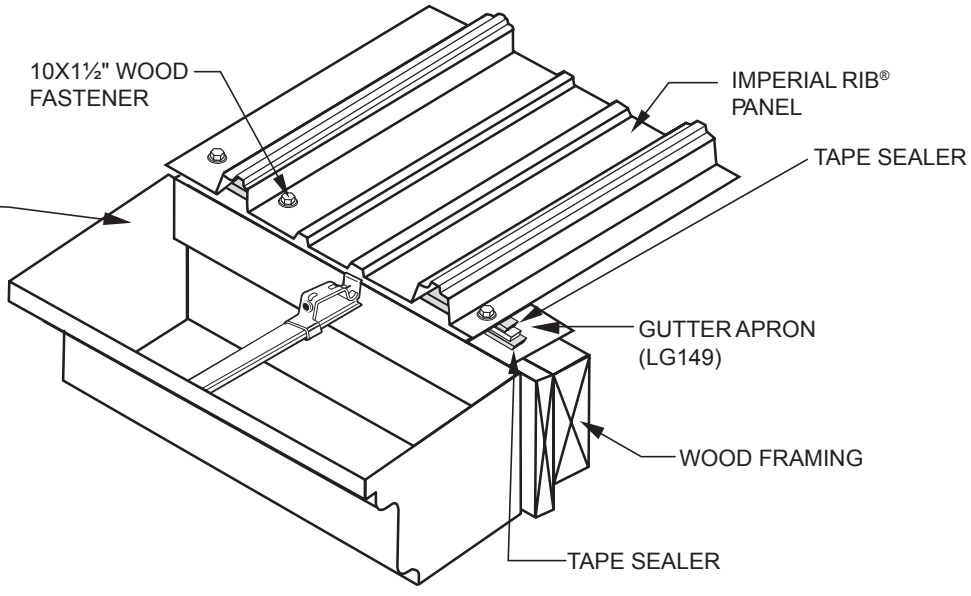
DETAILS

GUTTER APPLICATION DETAIL

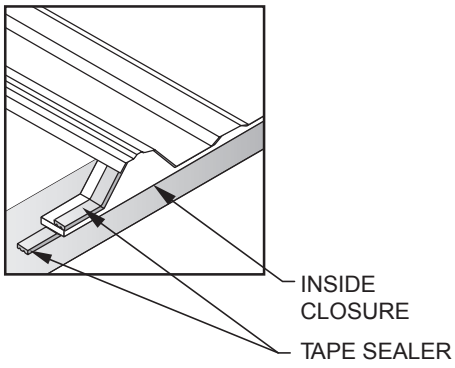
CROSS SECTION OF EAVE WITH 5K GUTTER



ISOMETRIC VIEW OF EAVE WITH 5K GUTTER



Panel End Detail



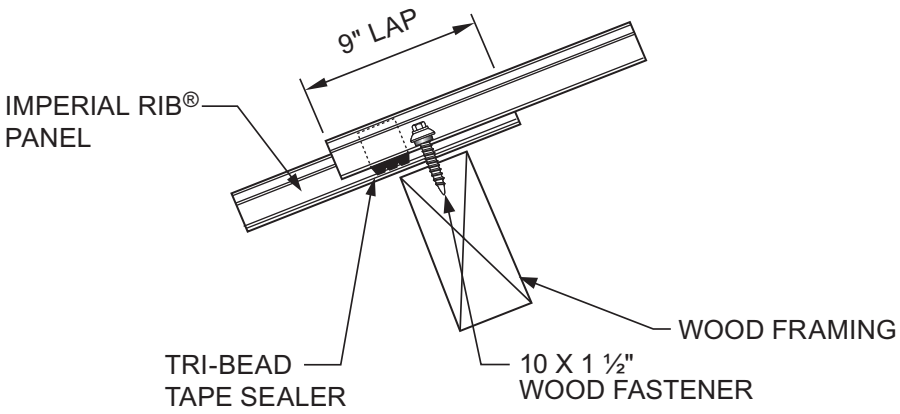
NOTES:

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.

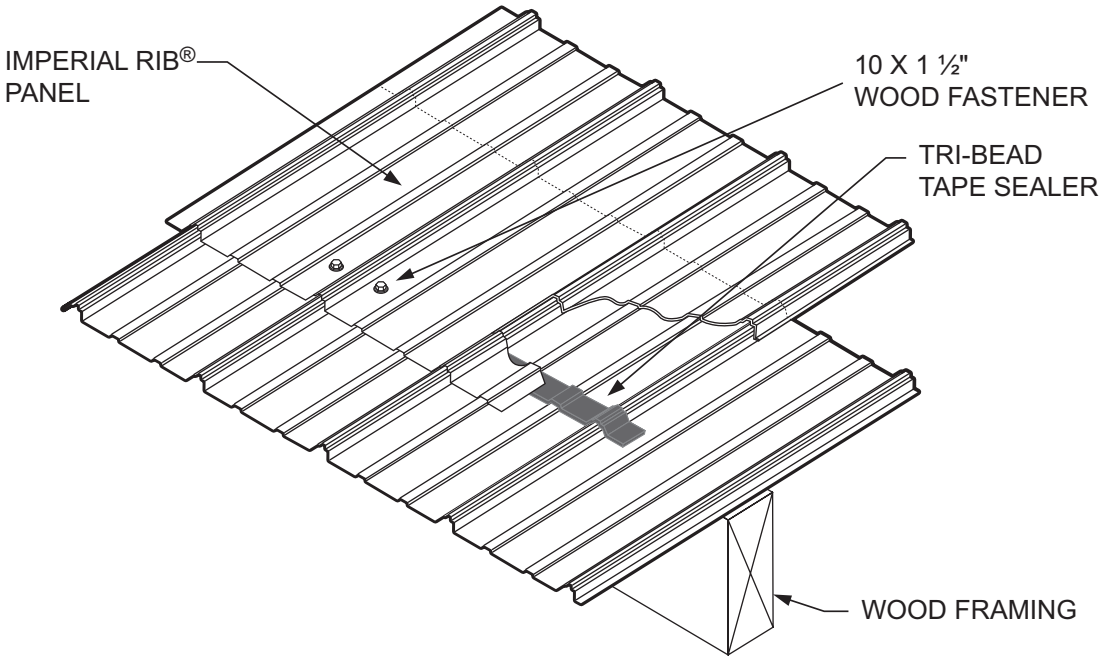
DETAILS

ENDLAP DETAIL

CROSS SECTION OF ENDLAP OVER WOOD



ISOMETRIC VIEW OF ENDLAP OVER WOOD



NOTES:

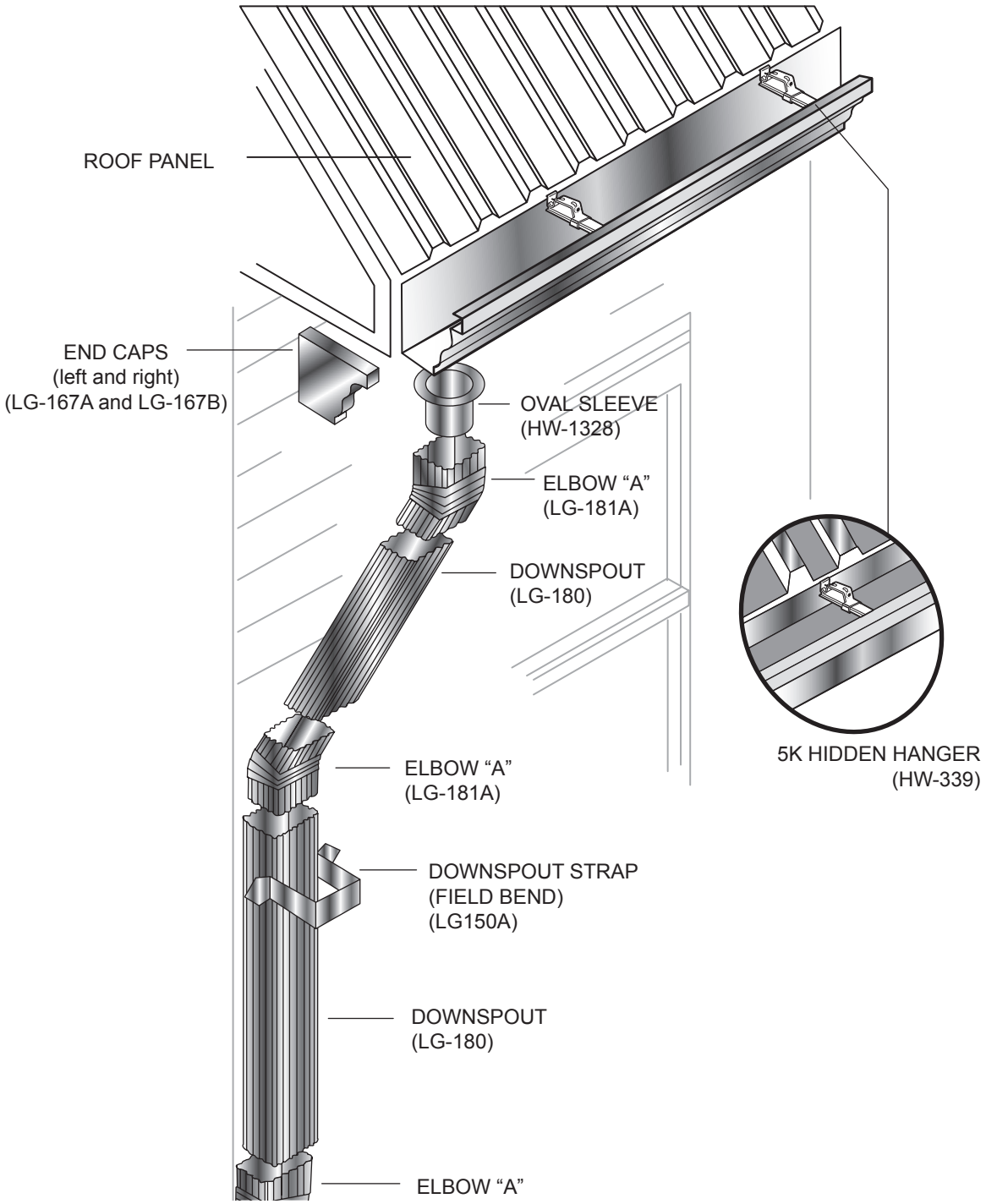
1. Panel endlap is 9" under 4:12 pitch, over 4:12, 6" is required.
2. Install tri-bead tape sealer across width of bottom panel before installation of tip panel. Top edge of tape sealer is 4¾" from up slope end of bottom panel.
3. May be installed over purlins or a solid substrate.
4. Reference fastener pattern page for endlap fastener placement.

AMERICAN BUILDING COMPONENTS

DETAILS

GUTTER AND DOWNSPOUT APPLICATION DETAIL

5K GUTTER



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