

FLATIRON STEEL

# 7.2 ULTRA BOX RIB

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*\*Please contact us for more information.*

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### INFORMATION

This guide has been provided as a reference and helpful tool for installing Flatiron Steel's 7.2 Ultra Box Rib. The installation details shown may not apply to all building designs, codes, or product applications. It is the responsibility of the installer to ensure the details meet code in his/her area.

Flatiron Steel reserves the right to change any information in this guide, at any time, without notice. If you have any questions or concerns, please contact your Flatiron Steel representative.

### CLAIMS

It is the responsibility of the customer to review the condition and quantities of an order upon pick up or delivery. Claims for any shortages or damages must be filed immediately for orders picked up, or within 48 hours for orders delivered. Flatiron Steel will not be held responsible for any claims filed after these time frames.

### RETURNS

Flatiron Steel does not accept returns of any custom ordered materials, special ordered accessories, or fabricated metal products. Only stock accessories may be returned if they are deemed to be in resalable condition. Stock items being screws (full bag quantities), flashers, closures, clips, underlayment, etc. A restocking fee of 15% may be applied to all returned merchandise.

### STORAGE

If the metal panels or trim are not used immediately, the metal should be stored in a well ventilated, cool, dry place. This will inhibit moisture build up on the panels and trim, which can lead to white rust.

If the product cannot be stored indoors, elevate one end of the bundle to allow any moisture to run off the panels. Also, a tarp should be loosely wrapped around the bundle, ensuring there is good air flow around the panels. Never store panels in direct contact with the ground.

Flatiron Steel assumes no responsibility for materials that are not stored properly.

### HANDLING

Handle all panels and trim with care to avoid damage. When unbundling panels, do not drag one panel against another. This can cause scratches across the panels. When moving the panels, they should be carried vertically to the ground by grasping the edge of the panel carefully to ensure that no excessive bending occurs. Note, the edge of the panel is sharp, and gloves should always be worn when handling all metal.

When handling trim it is important to do so with care and ease. Many trim profiles are fragile and can be easily damaged if not handled appropriately. It is recommended that the installer or whomever is handling trim wear gloves and use two hands at all times.

### FOOT TRAFFIC

Care of metal panels and trim must be exercised throughout installation. Foot Traffic can cause distortion of the panel and damage the finish. Foot traffic should be kept to an absolute minimum. Installers should wear soft soled shoes that will help with traction on the roof and prevent scratching.

When walking on the panels is unavoidable, walk in the flats only. Walking on the major ribs can damage the panel.

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### SAFETY

Safety should be the main concern when installing any metal project. Each job site presents different hazards, on the ground and the roof; therefore, it is the responsibility of the installer to determine the safest way to install the metal.

Personal protective equipment should be used at all times when handling or installing metal panels and trim (i.e. gloves, safety glasses, pants, long sleeved shirts and hard hats).

Always be aware of your surroundings and use fall protection. Never install metal roofing during windy or stormy days. Metal roofing can become slippery when wet or dusty and extra care needs to be taken if these conditions are present. Wind can create hazardous working situations by getting under the metal panel and pulling the installer off the roof. Metal roofing is very sharp and can cause serious bodily injury if handled inappropriately.

If a safety concern exists on a job site, stop work immediately. Always comply with OSHA safety regulations.

### FIELD CUTTING PANELS

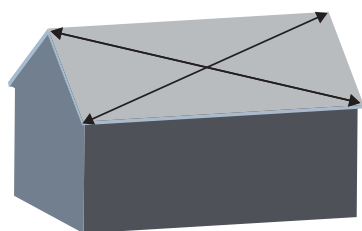
Tin Snips, a circular saw, or a nibbler is recommended for field cutting metal panels and trim. Always wear eye and ear protection when cutting metal. When cutting painted metal, ensure the metal particles and fragments do not end up on the painted surface. Metal particles on the painted surface will result in rusting and pitting in that area. Flatiron Steel recommends the panels to be turned upside down and all cutting be done looking at the backside of the material. Installers should immediately wipe away any debris from the material after cuts to prevent this problem. Panels should be cut in an area where metal particles do not end up on other panels or building materials.

**\*\*Failure to remove the metal particles from the panel will void any warranty\*\***

### CONDITION OF SUBSTRATE AND STRUCTURE

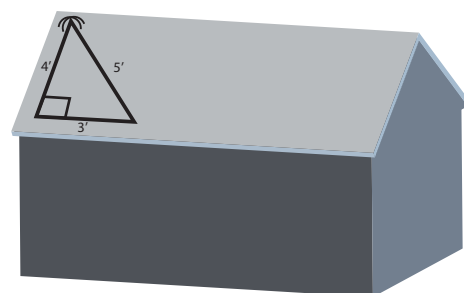
Before the installation process begins, it is critical that the framing and substrate are inspected to ensure that the structure is square and plumb. If it is not, it will have to be corrected. Make sure any structural fixes are done by someone with the proper experience and knowledge. Correct any objectionable warp, waves, or buckles in the substrate before proceeding with panel installation. The roof panels will follow the contour of the structure and may appear irregular if not corrected.

To check the structure for squareness, take two diagonal measurements from the corner to corner. The roof is square if the two measurements are equal.



If the roof is not square, follow the 3-4-5 method to ensure that the panel is being installed square. If the first panel is not installed square, all remaining panels will also be out of square when attached to the structure.

- 1.) To do this, pick a starting point at the bottom corner of the roof, about a foot away. Set a nail there.
- 2.) From the nail, measure exactly 3 feet in the opposite direction along the bottom edge of the roof. Insert another nail in that spot.
- 3.) From the first nail, measure exactly 4 feet up the slope of the roof and draw a small arc.
- 4.) Measure from the second nail up to the arc measuring exactly 5 feet, drawing another arc.
- 5.) Attach a chalk line to the first nail and extend it up the slope until it passes through the intersection of the two arcs.
- 6.) Snap the chalk line. This line is now square with the bottom edge of the roof.
- 7.) Use this line to properly install the first panel square on the roof.<sup>1</sup>



<sup>1</sup>For larger roofs, this method can be done with multiples of 3,4,5  
Example 6', 8', 10'

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## 7.2 ULTRA BOX RIB

### TOOLS & EQUIPMENT

- Hard Hat
- Gloves
- Safety Glasses
- Ear Plugs
- Fall Protection
- Screw Gun
- Tin Snips
- Tape Measure
- Chalk Line
- Electric Nibbler
- Circular Saw
- Angle Grinder
- Rivet Gun

### ROOF MAINTENANCE

Roof maintenance should be done, at the minimum, annually. These steps will ensure that your roof will have a longer lifespan with less maintenance and help prevent costly repairs. It is best to perform roof maintenance when the weather permits safe working conditions.

- Clear all debris off the roof (dirt, rocks, branches, leaves, etc.)
- Clean out all drains and gutters to ensure proper drainage, to prevent water standing.
- Remove any overhanging branches or anything else that could penetrate the roof surface.
- Inspect all areas for leaks and deterioration - pay attention to stains and discoloration of the roof edges and surrounding walls as they are possible indications of a leak.
- Check roof penetrations for possible leaks and cracks in caulking.
- If exposed fasteners have been used to install the roof, it is crucial they are inspected annually
  1. Check if they are installed correctly.
  2. Ensure that they are not fastened too tight or not tight enough.
  3. Inspect the integrity of the neoprene washer.

<sup>2</sup>*Refer to Fastener selection guide on the following pages 5-6.*

### WARRANTY

Paint warrant documents are available upon written request.

Please provide the following information to your local Flatiron Steel branch.

**Product purchased - Including:** panel type, width, color and gauge.

**Where the product was purchased:** Lumber yard, roofing wholesaler, contractor or direct.

**When the product was purchased:** Date of purchase (must be within 90 days of purchase date)

**Owners Name:**

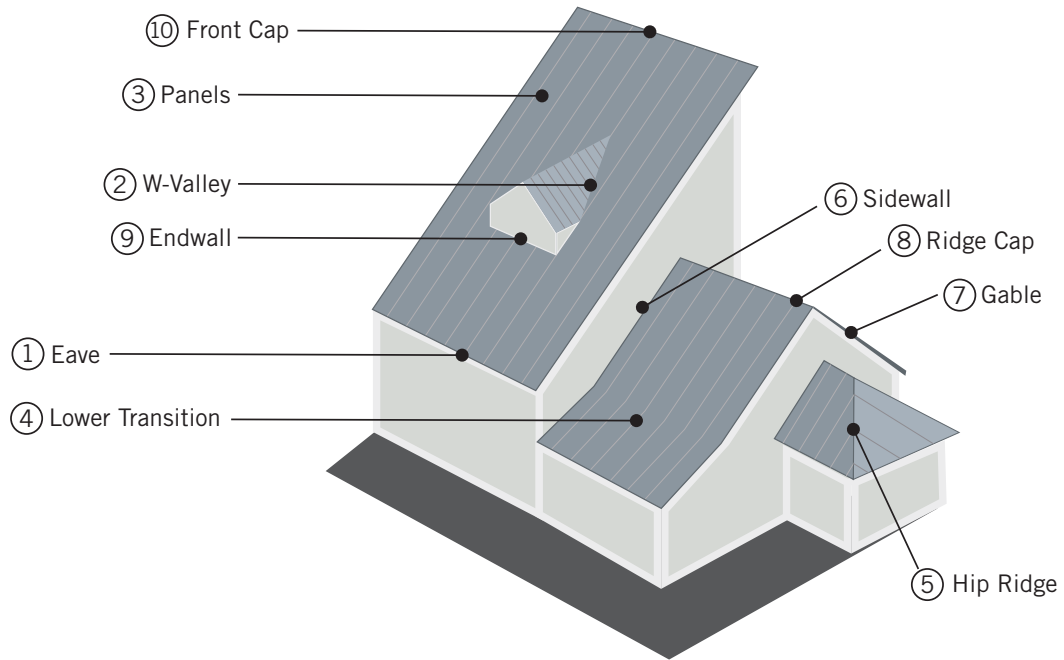
**Project Location:** Physical address

**Job Completion Date:**

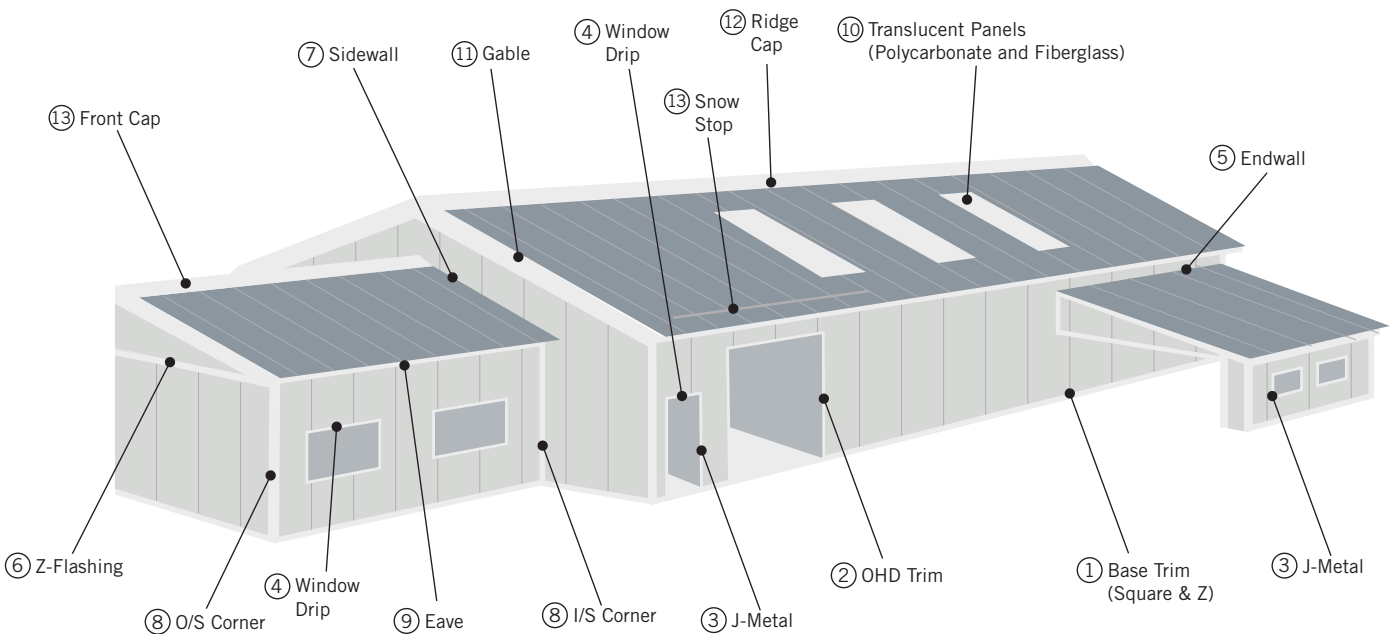
# FLATIRON STEEL

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### INSTALLATION



Installation over shingles is possible but is not recommended. It is best to remove shingles and install a new, synthetic underlayment to act as a vapor barrier between the substrate and the metal. If shingles will not be removed, furring strips need to be installed on the roof at 2'-0" centers. The metal panels will then be fastened to the furring strips.



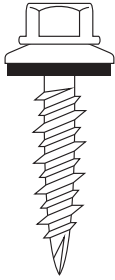
***\*Components are listed in the order that they are installed.***

***\*Please contact us for more information.***

# FLATIRON STEEL

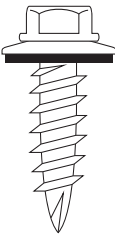
## FASTENER SELECTION GUIDE

### WOODFAST SCREW



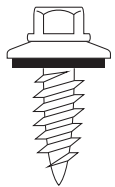
- No. 10 x 15, Type 17
- Available sizes: 1", 1 1/2", 2", 2 1/2", 3"
- 1/4" Hex Head
- Use: Panel to dimensional lumber and trim attachment.

### WAFER SCREW



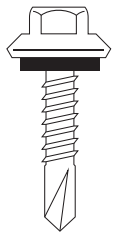
- No. 14 x 10, Type 17
- Available sizes: 1", 1 1/2", 2"
- 5/16" Hex Head
- Use: Panel to plywood/OSB substrate and trim attachment.

### STITCH SCREW



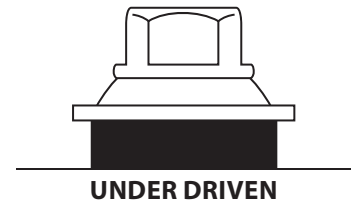
- No. 12 x 14
- Available size: 3/4"
- 1/4" Hex Head
- Use: Trim attachment and stitching lap seams together (29 gauge).
- *\*Compatible with No. 10 & No. 14 Wood Screws*

### TEK SCREW



- No. 12 x 14
- Available sizes: 1", 1 1/2", 2"
- 5/16" Hex Head
- Use : Panel to Purlin (up to 3/16" steel).

### PROPER INSTALLATION OF GASKETED FASTENERS

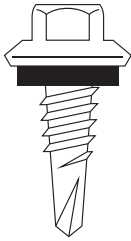


- This table shows the fasteners available from FLATiRON Steel. Refer to the panel installation and flashing details of this manual for specific screw usage and spacing.
- Panel attachment screws must be long enough to fully penetrate through the wood roof decking, steel purlins or penetrate solid lumber at least one inch.
- All screws must be coated to provide protection against corrosion.
- Exposed fasteners must have sealing washers and should be the same color as the parts they attach.
- Screws must be properly driven to ensure proper seal and holding strength. Do not underdrive or overdrive the screws.
- Stainless steel rivets are not watertight.

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## FASTENER SELECTION GUIDE

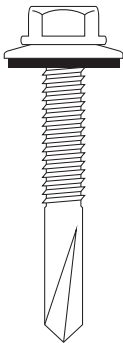
### LAP TEK



- No. 14 x 7/8"
- Available size: 7/8"
- 5/16" Hex Head
- Use: Trim attachment and stitching lap Seams together .

*\*Compatible with No. 12 Tek Screw and No. 14 Wafer Screw*

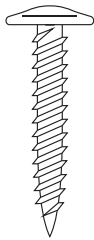
### TEK 5



- No. 14 x 24
- Available size: 1 1/4"
- 5/16" Hex Head
- Use: Panel to purlin (Heavy Gauge Steel 3/16" and greater).

*\*Only Available in white and galvanized, remaining colors available by special order.*

### PANHEAD



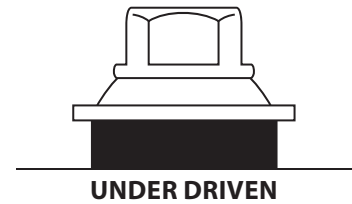
- 10 x 12
- Available sizes: 1", (1 1/2" and 2" available by special order)
- Phillips Head / Square Drive
- Use: To fasten standing seam panels and trim to wood deck (unexposed).

### STAINLESS STEEL RIVET POP RIVET



- Available sizes: 1/8" x 3/16"
- Use: Trim attachment

### PROPER INSTALLATION OF GASKETED FASTENERS

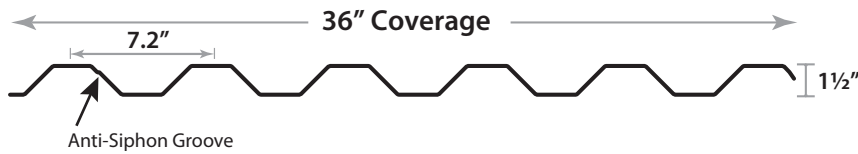


- This table shows the fasteners recommended for FLATIRON Steel. Refer to the panel installation and flashing details of this manual for specific screw usage and spacing.
- Panel attachment screws must be long enough to fully penetrate through the wood roof decking, steel purlins or penetrate solid lumber at least one inch.
- All screws must be coated to provide protection against corrosion.
- Exposed fasteners must have sealing washers and should be the same color as the parts they attach.
- Screws must be properly driven to ensure proper seal and holding strength. Do not underdrive or overdrive the screws.
- Stainless steel rivets are not watertight.

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## 7.2 ULTRA BOX PANEL

### MATERIAL SPECIFICATIONS



### LOAD TABLES

Refer to Trim Pamphlet for Material Availability

26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
1-span	NEGATIVE WIND LOAD	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	LIVE LOAD/DEFLECTION	237.61	133.66	85.54	59.40	43.64	33.41	26.40
2-span	NEGATIVE WIND LOAD	162.95	103.02	52.75	30.53	19.22	12.88	9.04
	LIVE LOAD/DEFLECTION	222.59	136.44	91.38	65.16	48.68	37.69	30.01
3-span	NEGATIVE WIND LOAD	143.95	107.96	79.83	56.57	42.08	32.49	25.82
	LIVE LOAD/DEFLECTION	258.47	162.17	110.20	79.32	59.63	46.36	37.03
4-span	NEGATIVE WIND LOAD	163.58	122.69	97.08	64.84	40.83	27.35	19.21
	LIVE LOAD/DEFLECTION	247.30	153.99	104.13	74.72	56.05	43.52	34.72

24 Gauge (0.0223"), Fy = 50 ksi, Fu = 60 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
1-span	NEGATIVE WIND LOAD	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	LIVE LOAD/DEFLECTION	251.48	141.46	90.53	62.87	46.19	35.36	27.94
2-span	NEGATIVE WIND LOAD	202.14	135.78	89.52	60.23	42.33	31.97	24.92
	LIVE LOAD/DEFLECTION	253.79	147.73	96.14	67.39	49.79	38.27	30.31
3-span	NEGATIVE WIND LOAD	156.28	117.21	88.20	61.73	45.57	35.00	27.71
	LIVE LOAD/DEFLECTION	307.17	181.07	118.61	83.46	61.81	47.58	37.73
4-span	NEGATIVE WIND LOAD	177.59	133.19	108.55	76.57	53.77	36.02	25.30
	LIVE LOAD/DEFLECTION	289.91	170.16	111.21	78.15	57.83	44.49	35.27

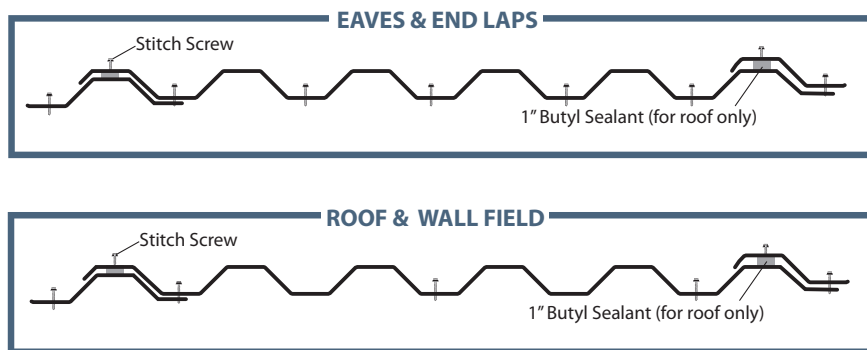
22 Gauge (0.0286"), Fy = 50 ksi, Fu = 60 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
1-span	NEGATIVE WIND LOAD	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	LIVE LOAD/DEFLECTION	346.31	194.80	124.67	86.58	63.61	48.70	38.48
2-span	NEGATIVE WIND LOAD	322.96	181.52	92.94	53.78	33.87	22.69	15.94
	LIVE LOAD/DEFLECTION	357.18	205.97	133.40	93.26	68.79	52.81	41.80
3-span	NEGATIVE WIND LOAD	199.38	149.54	119.63	85.47	63.01	48.35	38.26
	LIVE LOAD/DEFLECTION	435.96	253.83	165.20	115.80	85.57	65.76	52.09
4-span	NEGATIVE WIND LOAD	226.57	169.93	135.94	106.25	71.31	47.77	33.55
	LIVE LOAD/DEFLECTION	410.29	238.09	154.70	108.33	80.00	61.46	48.67

#### \*Notes:

1. Strength Calculations based on the 2012 AISI Standard "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 load 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 a deflection limit of L/180 under strength-level loads.
4. NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
8. This material is subject to change without notice please contact Flatiron Steel 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. The 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.

### Screw Patterns:



**Available Gauges:** 22, 24 & 26

**Weight:** 5.00lbs/LnFt (22), 4.00lbs/LnFt (24), 3.00lbs/LnFt (26)

**Substrate:** AZ-50, Grade D, 50,000ksi

**Available Materials:** Painted, Galvalume, Bonderized®, Core Ten™, Cold Roll, 16 & 20 oz Copper

**Paint Systems:** Kynar500®/Hynar5000® Valspar™

**Warranties:** Durapon70™ PVDF – 35 year

ULTRA-CLAD™ – 35 year

Zincalume® AZ50 – 20 year

Valspar™ PVDF – 35 year

**Minimum Slope:** 1:12

1" Butyl Sealant and stitch screws required

### Testing:

- UL 580 Wind Uplift (Class 90)
- UL 2218 Class 4 Hail Impact
- UL 790 Class A Fire Rating



- ASTM 1680
- ASTM 1646
- ASTM E283
- ASTM E331
- ASTM E330 / E330M
- ASTM 1592

### APPLICATION DETAILS

#### Fastener Guide:

#10 Woodfast screws are designed for use with dimensional lumber

#14 Wafer screws are designed for use with plywood sheathing, OSB, and wafer wood (7/16" minimum thickness)

#12 Tek Screws are designed to be used with structural steel up to 3/16" in thickness

#### Fastener Application:

Screws are to be applied in the middle of every other trough and then on both sides of the rib at each overlap of the panels, installed not more than 5'0" up the panel. At eaves and panel end laps, use a double screw pattern, and fasten into the middle of every trough. On all roofing applications, 1" Butyl Sealant must be applied between every panel at the side lap with Stitch Screws installed every 1'0" up the panel.

**Please Note:** It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.

**\*\*Flatiron Steel is neither partially or solely responsible for improper installation or defects as a result of installation\*\***

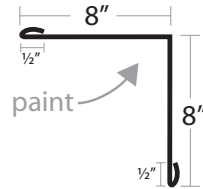
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### TRIM PROFILES

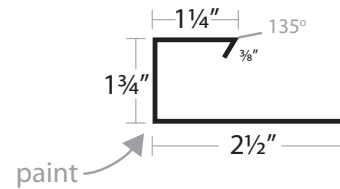
#### 7.2 Ultra Box Inside Corner

Item #	Girth	Length	Weight
FS226	17"	10'0"	14.11 lbs.



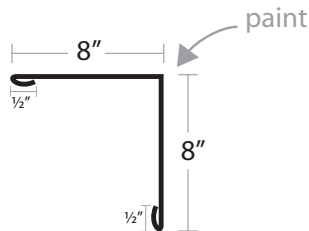
#### 7.2 Ultra Box Jamb Trim

Item #	Girth	Length	Weight
FS230	4 7/8"	10'0"	4.98 lbs.



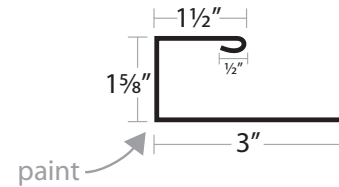
#### 7.2 Ultra Box Outside Corner

Item #	Girth	Length	Weight
FS225	17"	10'0"	14.11 lbs.



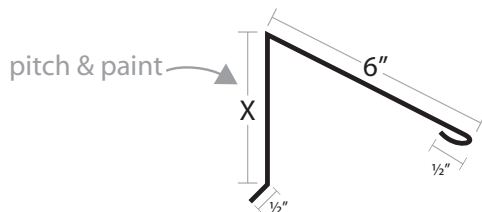
#### 7.2 Ultra Box J-Metal

Item #	Girth	Length	Weight
FS229	6 5/8"	10'0"	5.50 lbs.



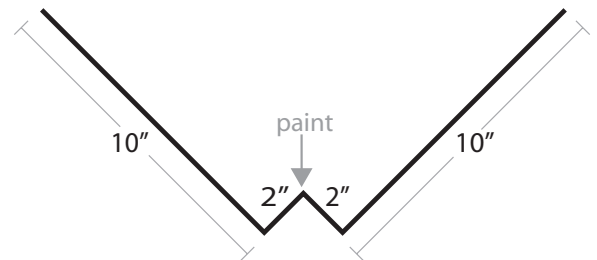
#### 7.2 Ultra Box Front Cap

Item #	X	Girth	Length	Weight
FS224A	5" (2x4)	12"	10'0"	9.96 lbs.
FS224B	7" (2x6)	14"	10'0"	11.62 lbs.
FS224C	9" (2x8)	16"	10'0"	13.28 lbs.



#### 7.2 Ultra Box W-Valley

Item #	Girth	Length	Weight
FS237	24"	10'0"	19.92 lbs.



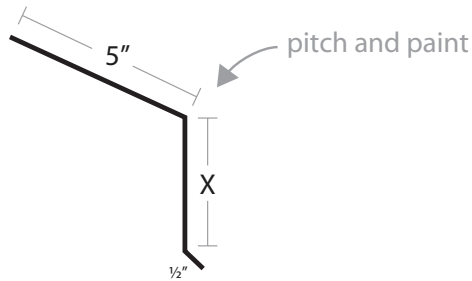
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### TRIM PROFILES

#### 7.2 Ultra Box Eave

Item #	X	Girth	Length	Weight
FS223A	3½" (2x4)	9"	10'0"	7.47 lbs.
FS223B	5½" (2x6)	11"	10'0"	9.13 lbs.
FS223C	7½" (2x8)	13"	10'0"	10.4 lbs.



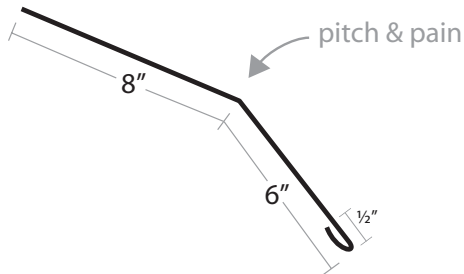
#### Lower Transition

Item #	Girth	Length	Weight
FS109A	14½"	10'0"	10.38 lbs.



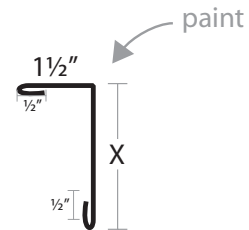
#### Upper Transition

Item #	Girth	Length	Weight
FS108A / FS108B	14½"	10'2" / 12'	6.25 / 7.50 lbs.



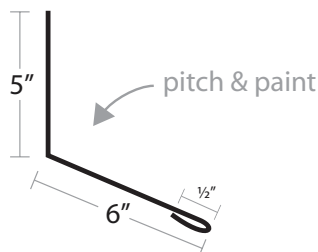
#### Door Post Trim

Item #	X	Girth	Length	Weight
FS110A	3½" (2x4)	6"	10'0"	4.9 lbs.
FS110C	5½" (2x6)	8"	10'0"	6.7 lbs.
FS110E	7½" (2x8)	10"	10'0"	8.3 lbs.



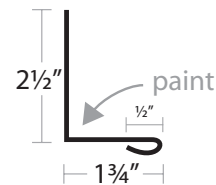
#### 7.2 Ultra Box Endwall

Item #	Girth	Length	Weight
FS222	11½"	10'0"	9.55 lbs.



#### 7.2 Ultra Box Base Trim

Item #	Girth	Length	Weight
FS235	4¾"	10'0"	3.94 lbs.



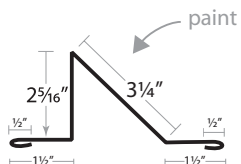
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### TRIM PROFILES

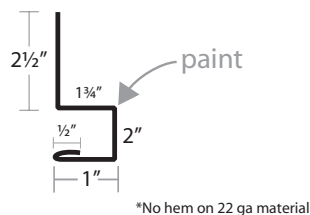
#### Snow Stop

Item #	Girth	Length	Weight
FS118A	9 $\frac{9}{16}$ "	10'0"	7.94 lbs.



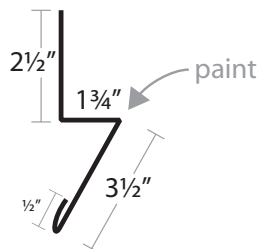
#### 7.2 Ultra Box Square Base

Item #	Girth	Length	Weight
FS236	7 $\frac{3}{4}$ "	10'0"	6.43 lbs.



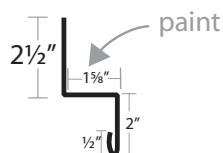
#### 7.2 Ultra Box Z-Base

Item #	Girth	Length	Weight
FS234	8 $\frac{1}{4}$ "	10'0"	6.85 lbs.



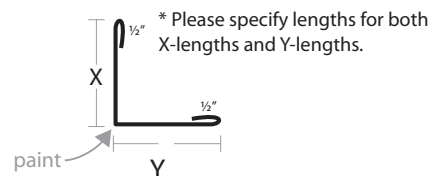
#### 7.2 Ultra Box Z-Flashing

Item #	Girth	Length	Weight
FS233	6 $\frac{5}{8}$ "	10'0"	5.50 lbs.



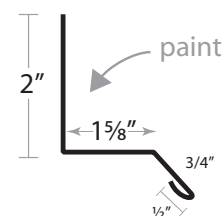
#### L-Angle (Channel)

Item #	Girth	Length
FS120A		10'0"



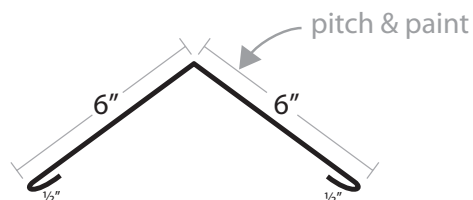
#### 7.2 Ultra Box Window Drip Cap

Item #	Girth	Length
FS232	4 $\frac{7}{8}$ "	10'0"



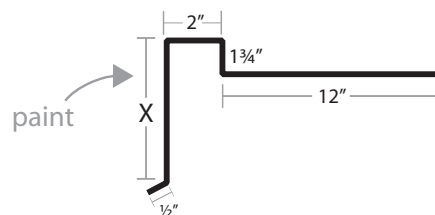
#### Hip / Ridge

Item #	Girth	Length	Weight
FS115A	13"	13'0"	12.45 lbs.



#### 7.2 Ultra Box Prow Gable

Item #	X	Girth
FS238A	5 $\frac{1}{4}$ " (2x4)	21 $\frac{1}{2}$ "
FS238B	7 $\frac{1}{4}$ " (2x6)	23 $\frac{1}{2}$ "
FS238C	9 $\frac{1}{4}$ " (2x8)	25 $\frac{1}{2}$ "



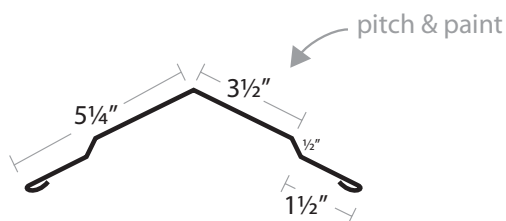
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### TRIM PROFILES

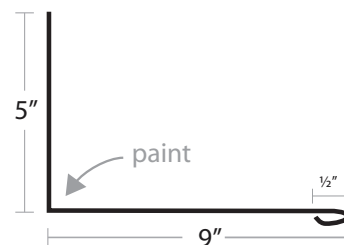
#### 7.2 Ultra Box Ridge Cap

Item #	Girth	Length	Weight
FS136	12"	10'0"	10.2 lbs.



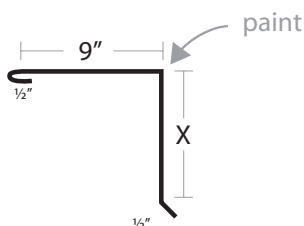
#### 7.2 Ultra Box Sidewall

Item #	Girth	Length	Weight
FS219	14 1/2"	10'0"	12.04 lbs.



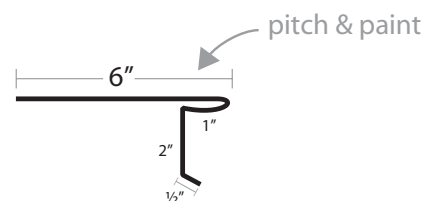
#### 7.2 Ultra Box Gable / Rake

Item #	X	Girth	Length	Weight
FS220A	5" (2x4)	15"	10'0"	12.45 lbs.
FS220B	7" (2x6)	17"	10'0"	14.11 lbs.
FS220C	9" (2x8)	19"	10'0"	15.77 lbs.



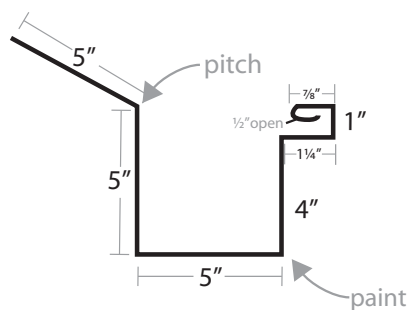
#### 7.2 Ultra Box Style D Eave

Item #	Girth	Length	Weight
FS228	9 1/2"	10'0"	7.89 lbs.



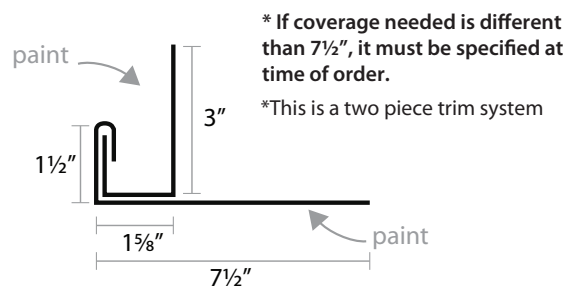
#### 7.2 Ultra Box Gutter

Item #	Girth	Length
FS231	22 3/4"	10'0"



#### Overhead Door Trim

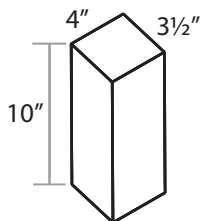
Item #	Girth	Length	Weight
FS242	13"	10'0"	6.50 / 7.75 lbs.



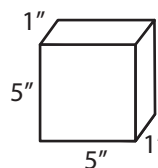
#### Gutter Strap FS239



#### Down Spout FS240



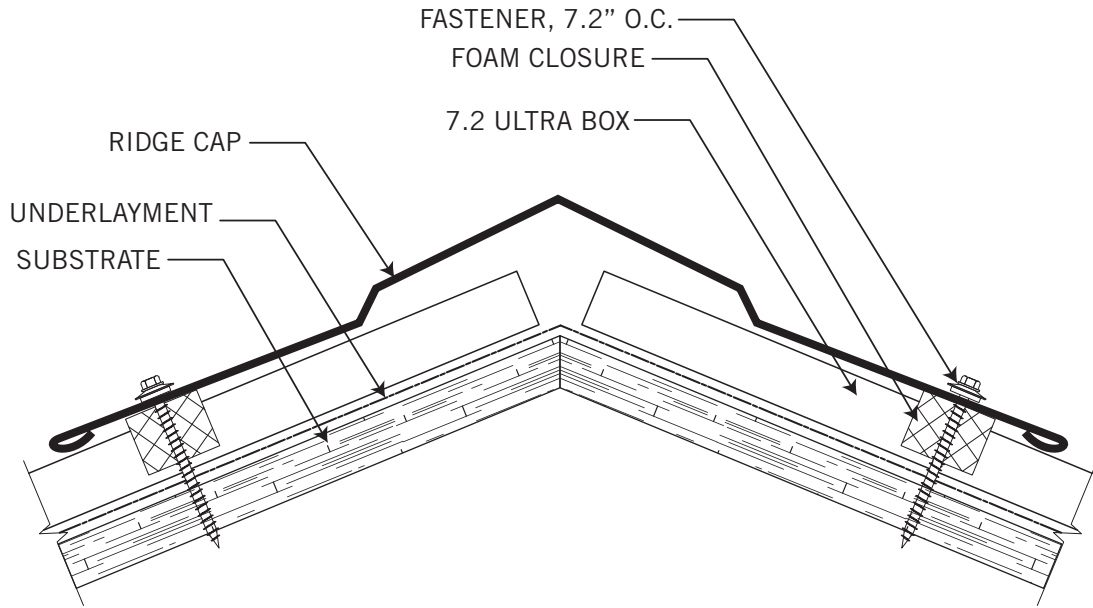
#### Gutter End Cap FS241



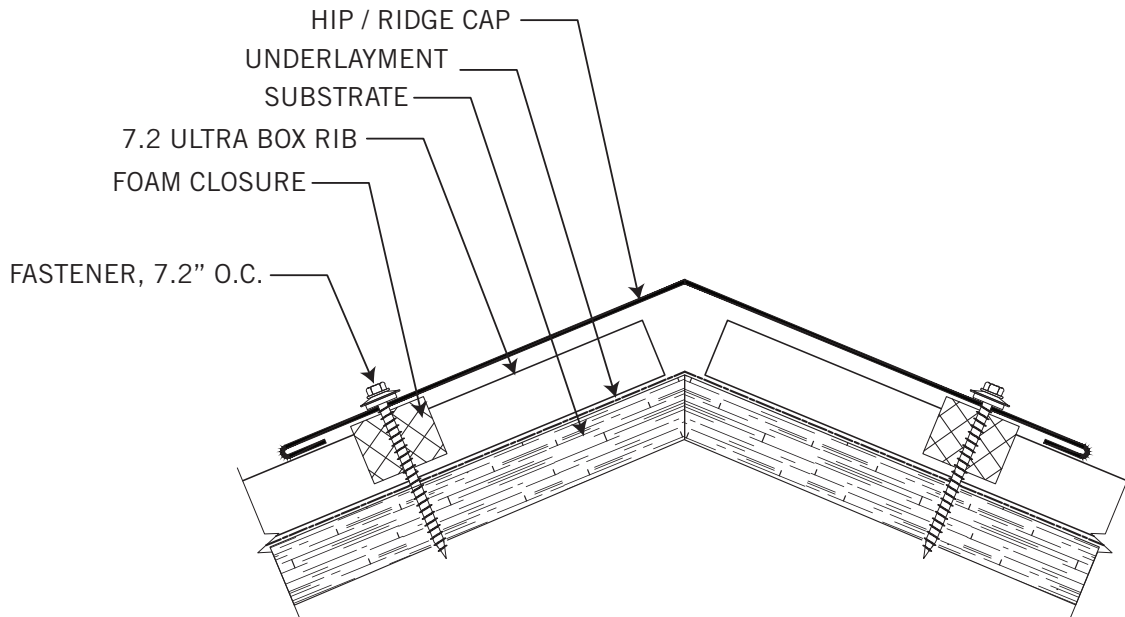
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### 7.2 ULTRA BOX RIB



### HIP / RIDGE

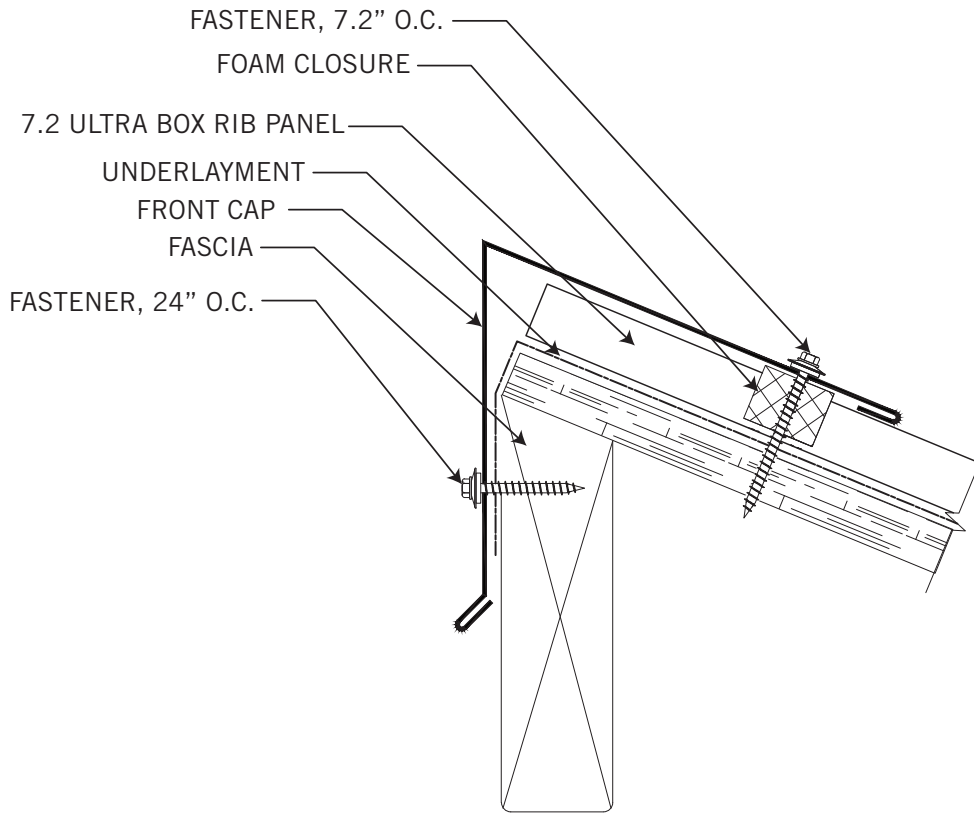


*\*Details are subject to change without notice.*

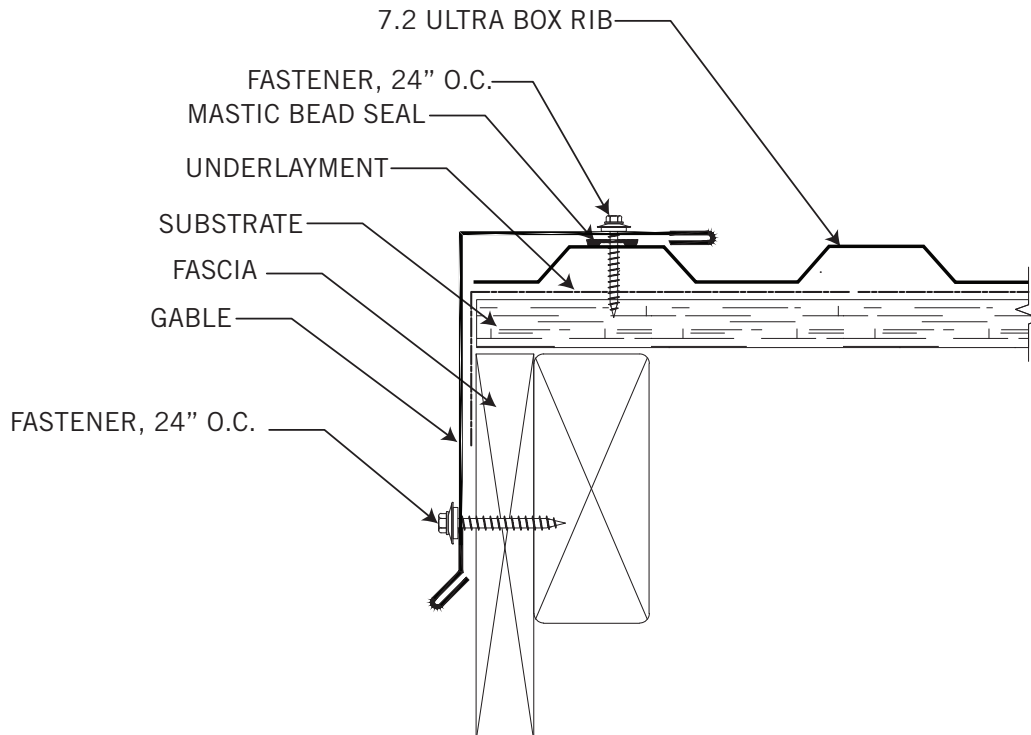
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### FRONT CAP



### GABLE

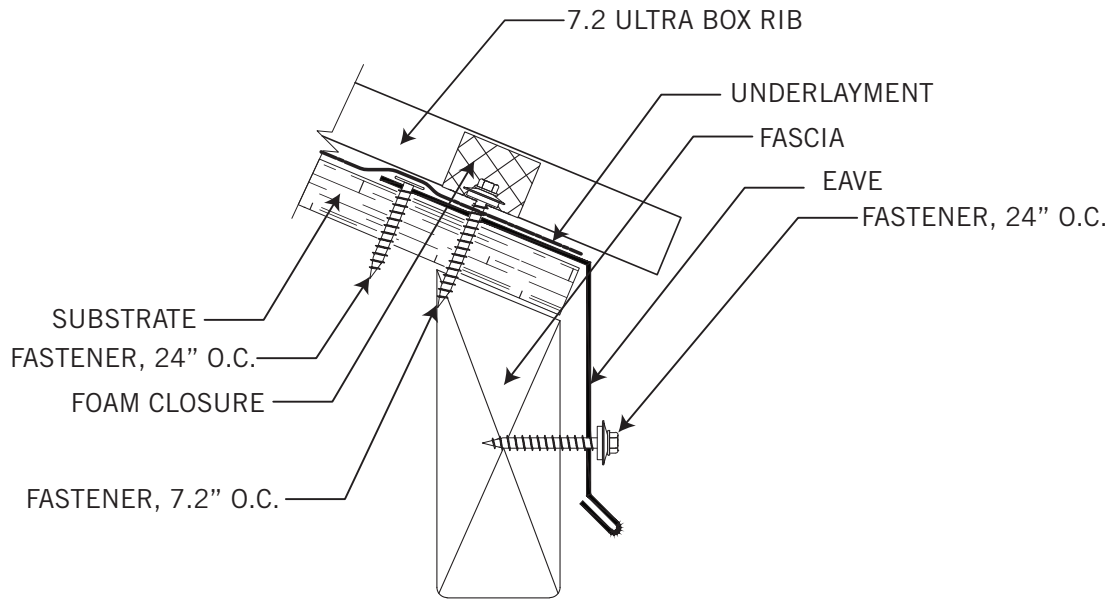


*\*Details are subject to change without notice.*

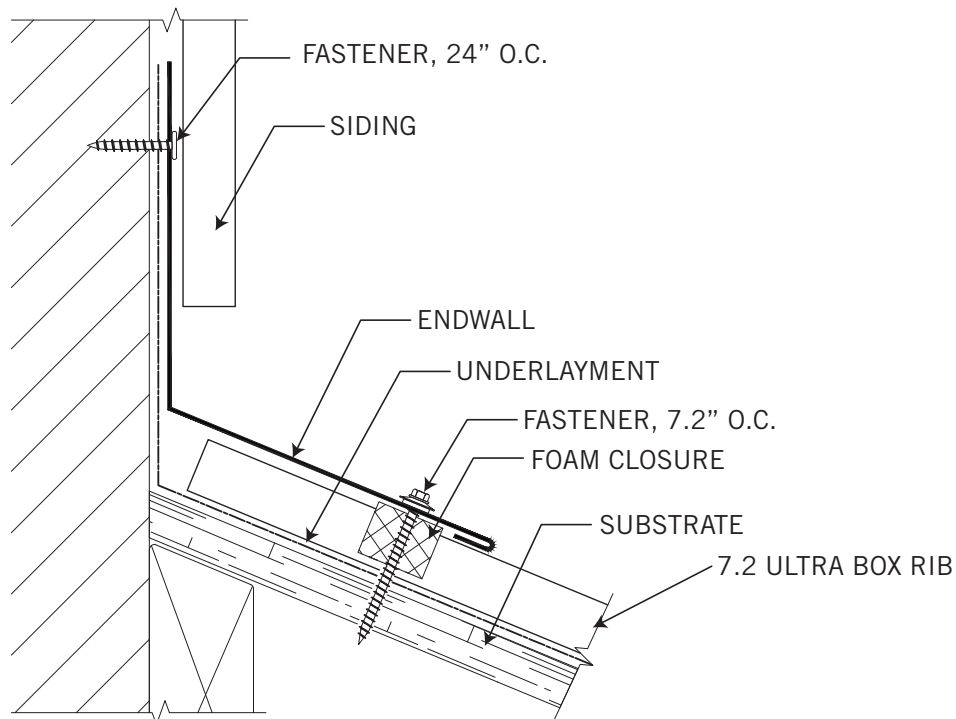
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### EAVE



### ENDWALL

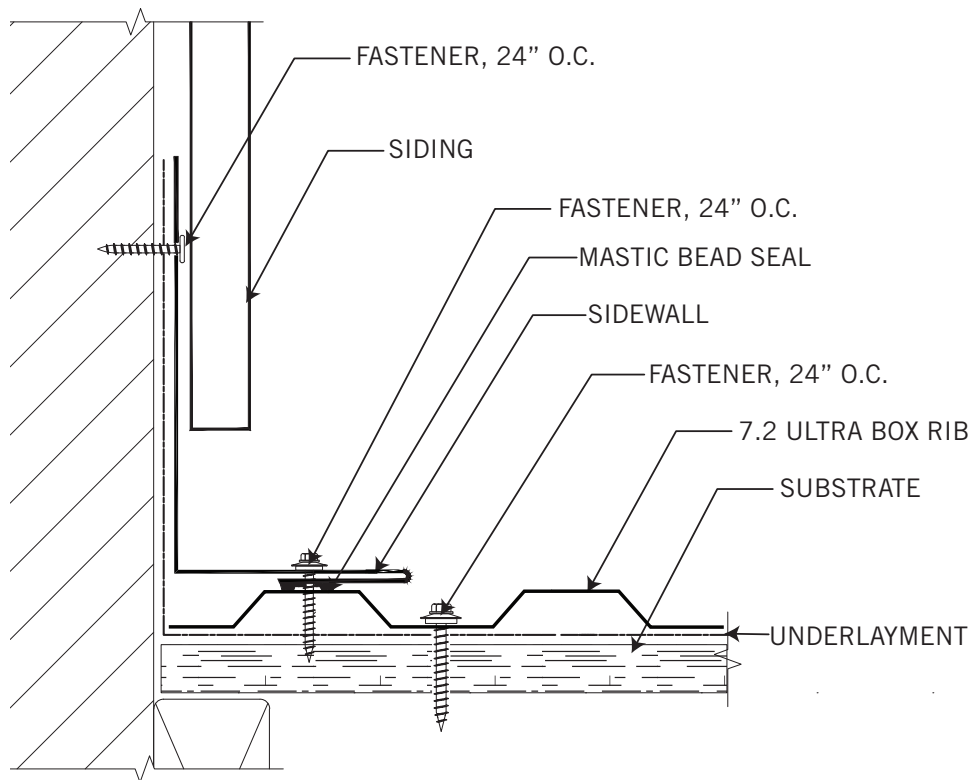


*\*Details are subject to change without notice.*

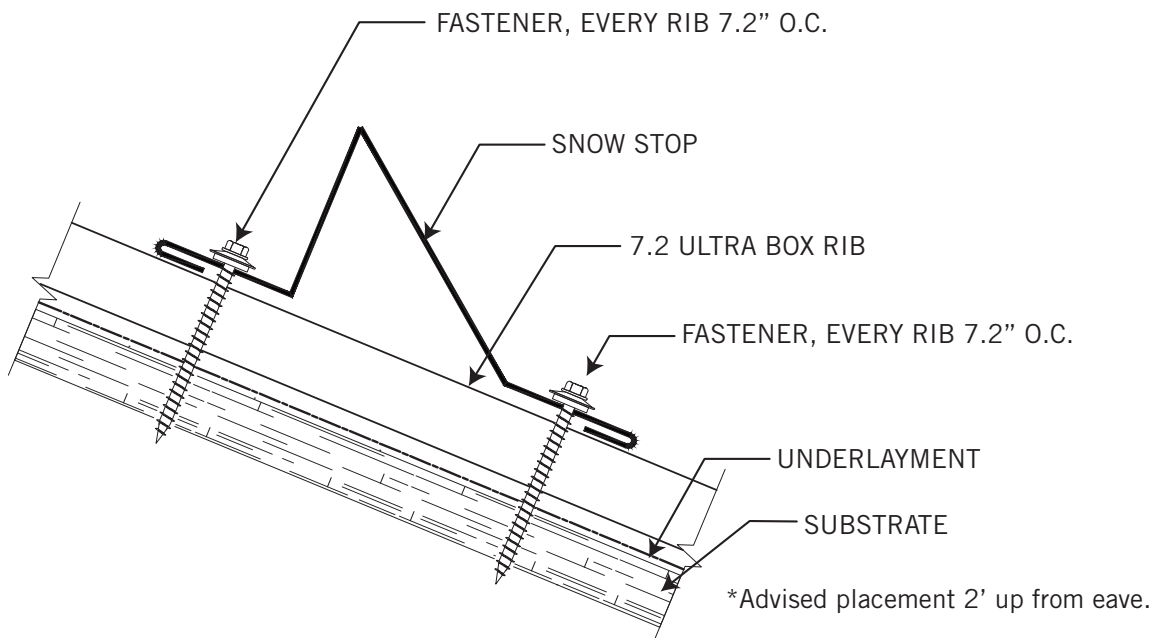
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### SIDEWALL



### SNOW STOP

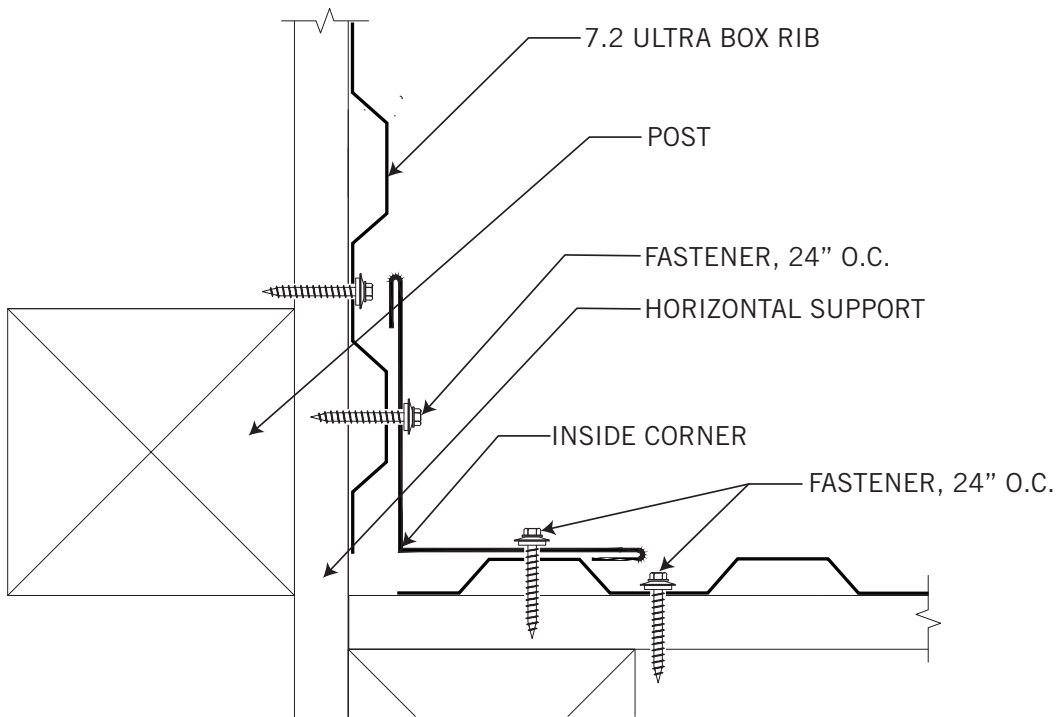


*\*Details are subject to change without notice.*

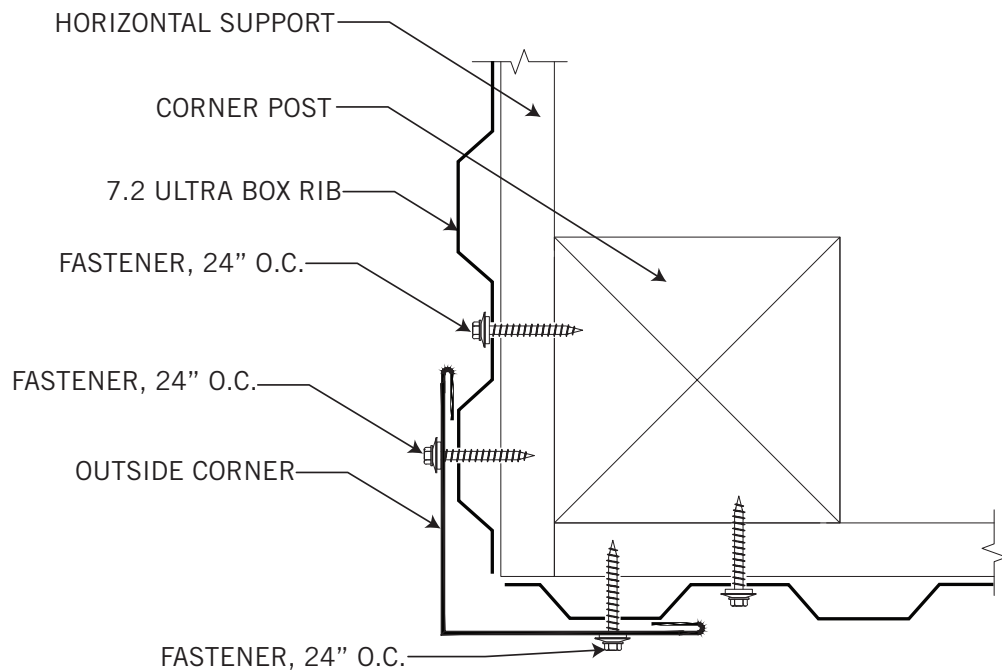
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### INSIDE CORNER



### OUTSIDE CORNER

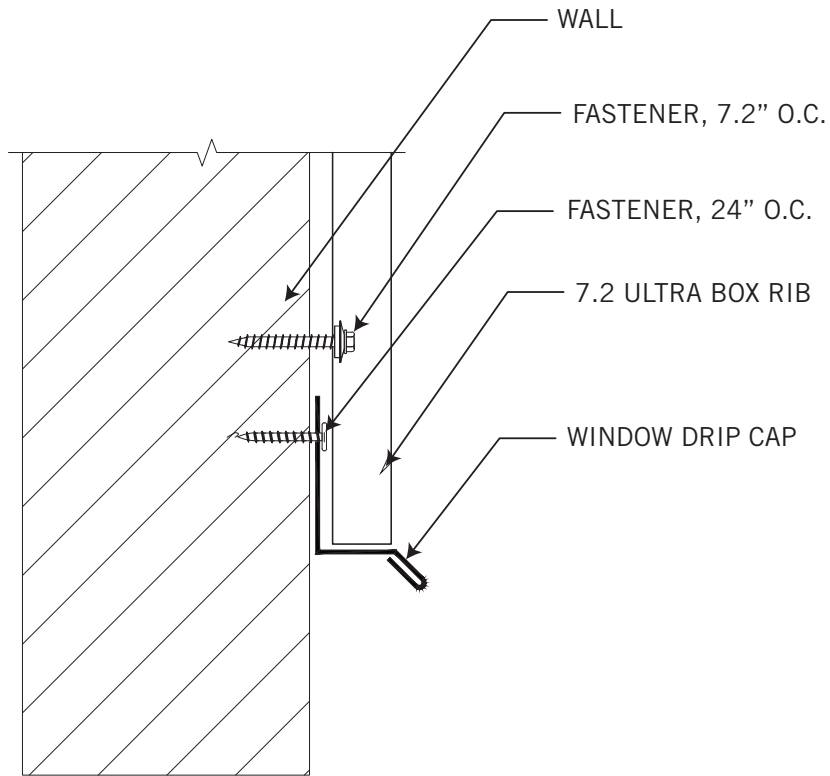


*\*Details are subject to change without notice.*

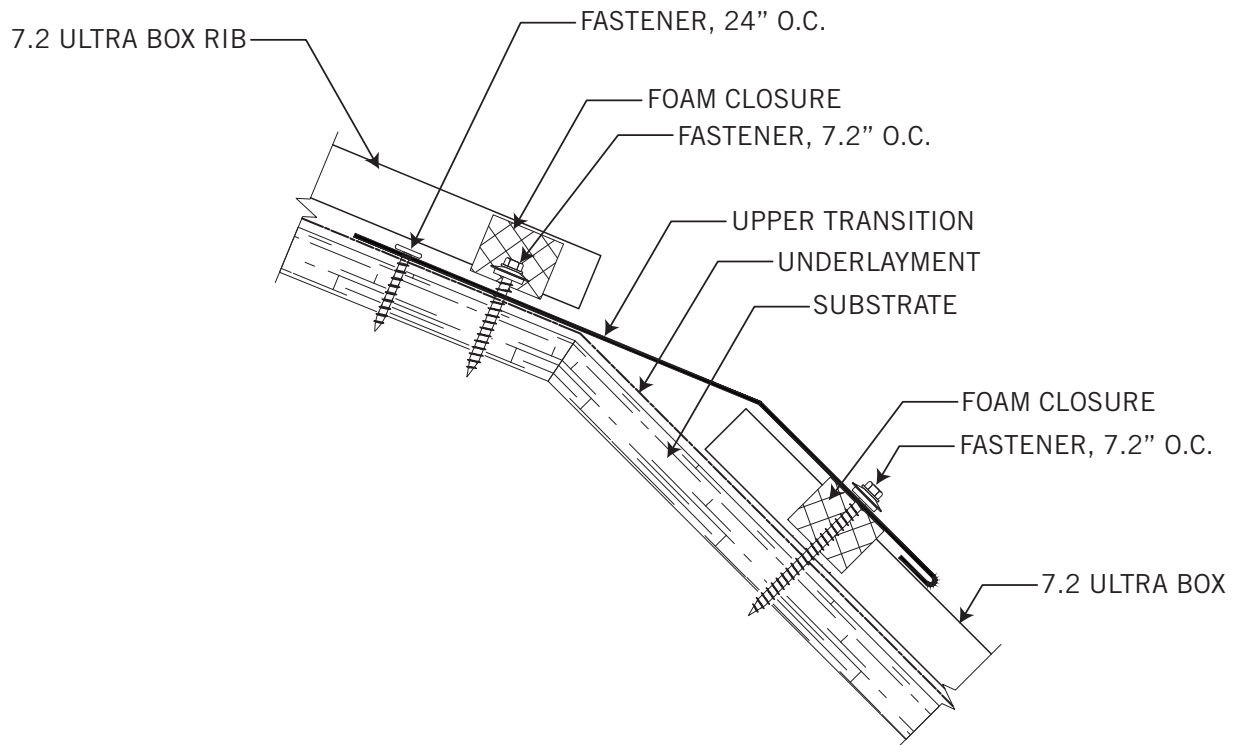
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### WINDOW DRIP CAP



### UPPER TRANSITION

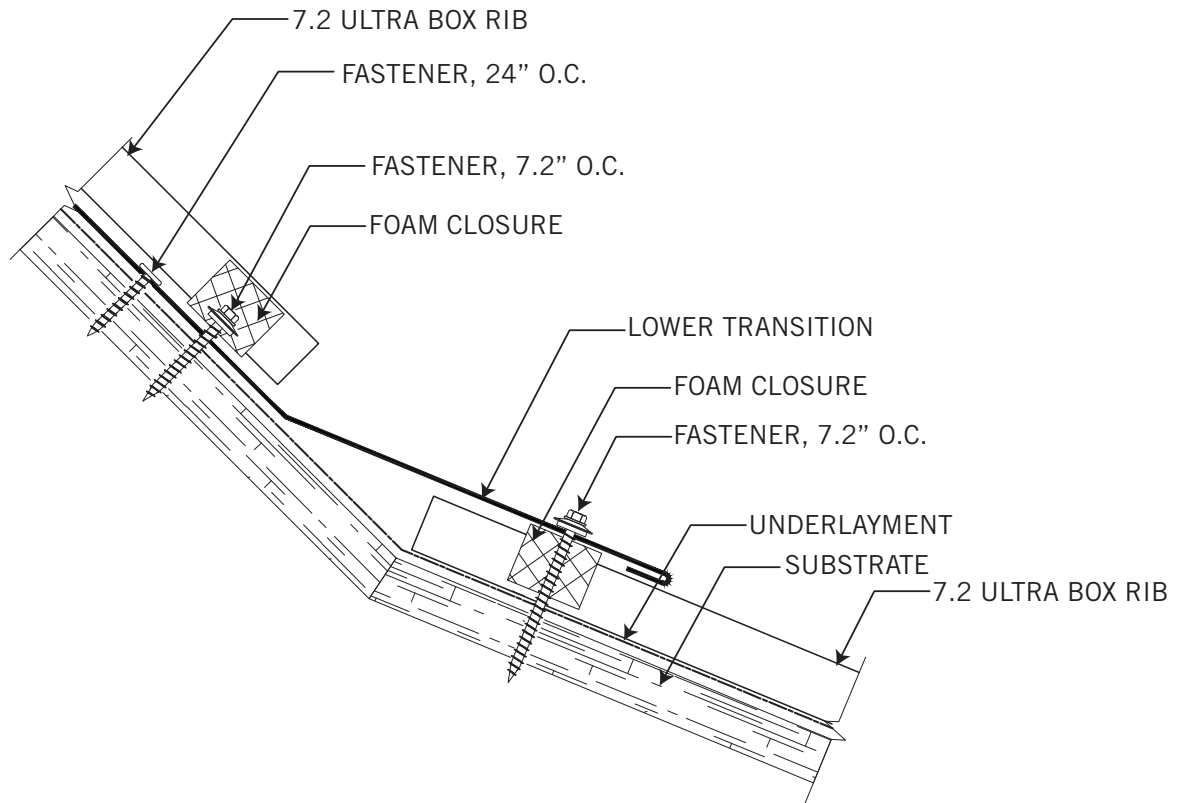


*\*Details are subject to change without notice.*

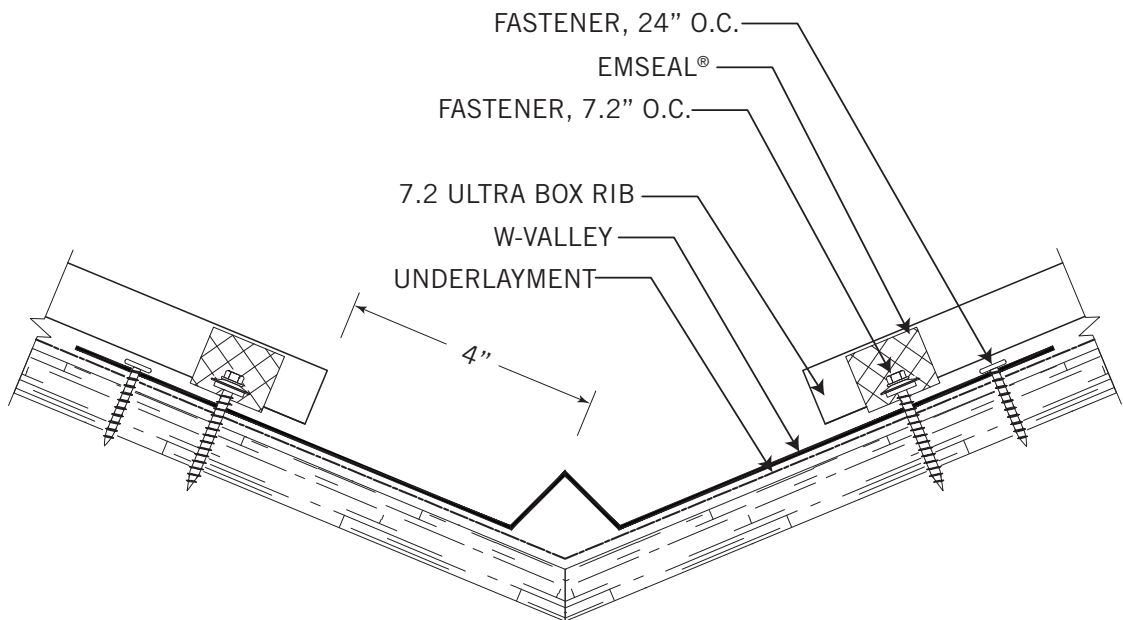
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### LOWER TRANSITION



### W- VALLEY

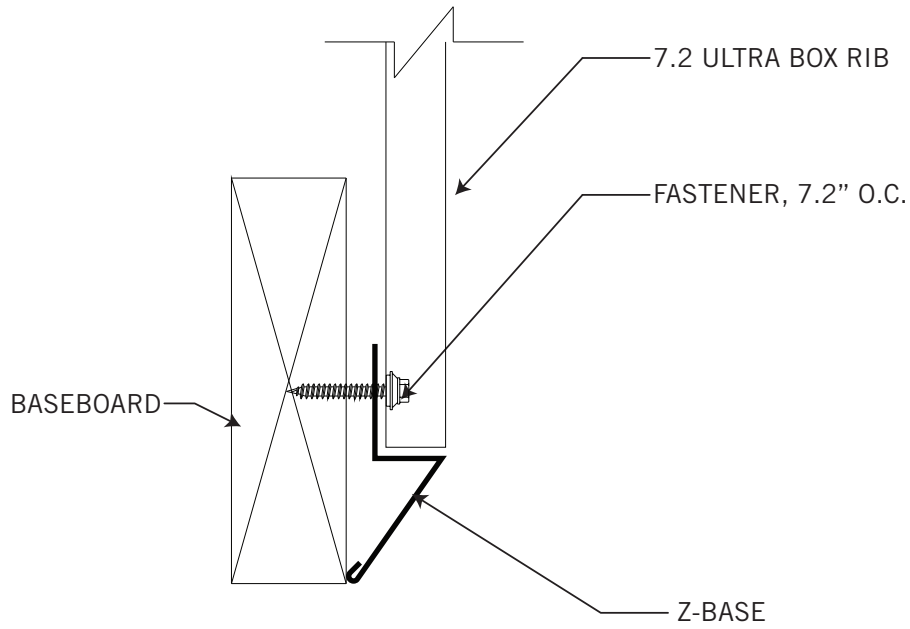


*\*Details are subject to change without notice.*

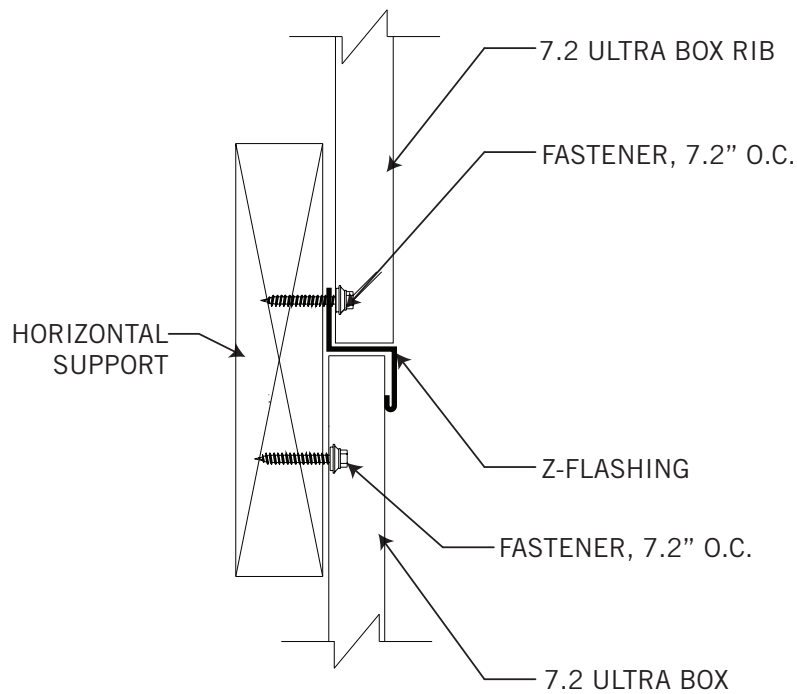
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### Z-BASE



### Z-FLASHING

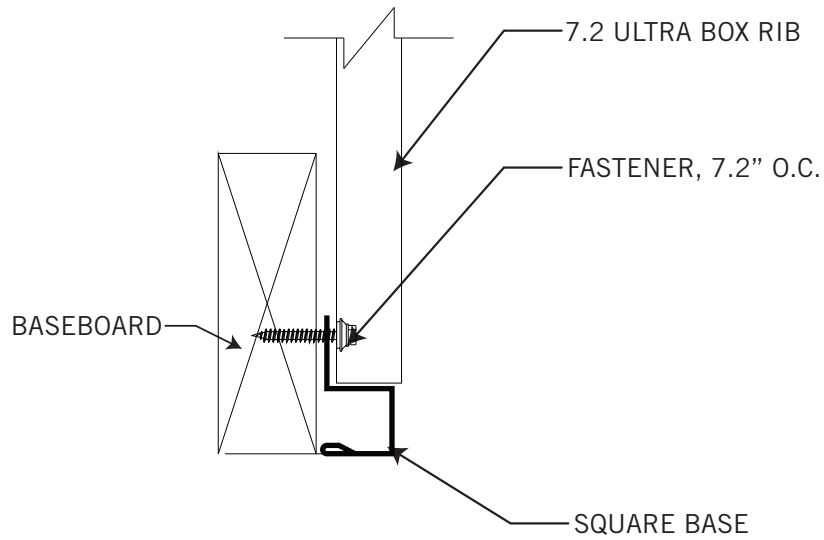


*\*Details are subject to change without notice.*

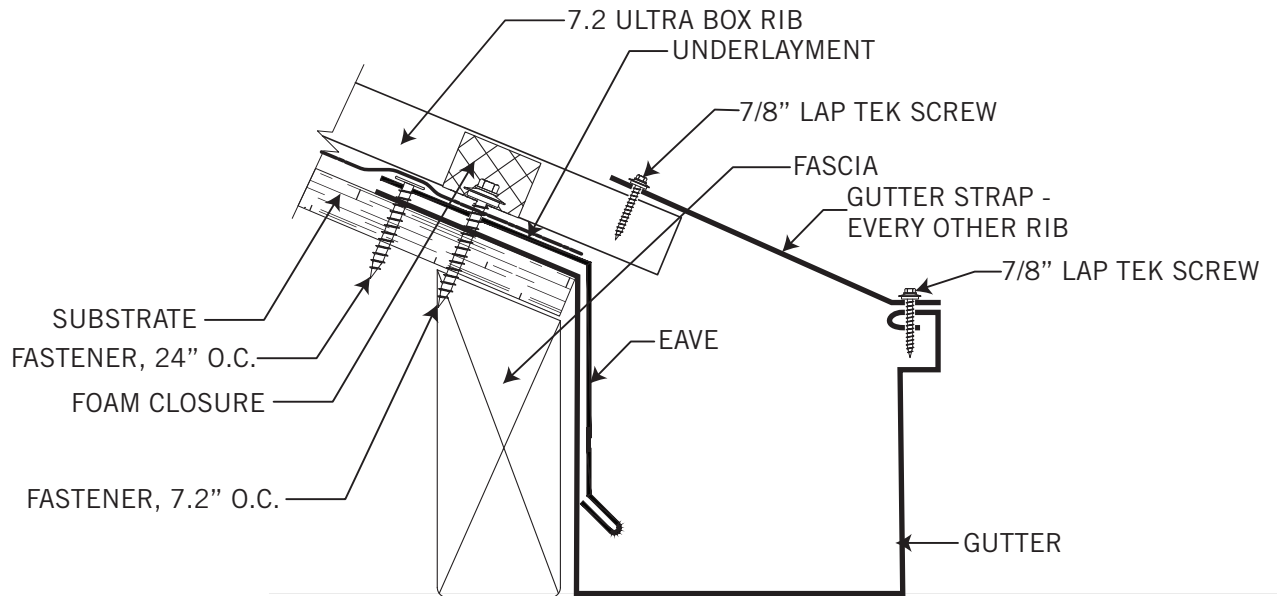
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### SQUARE BASE



### 7.2 ULTRA BOX GUTTER

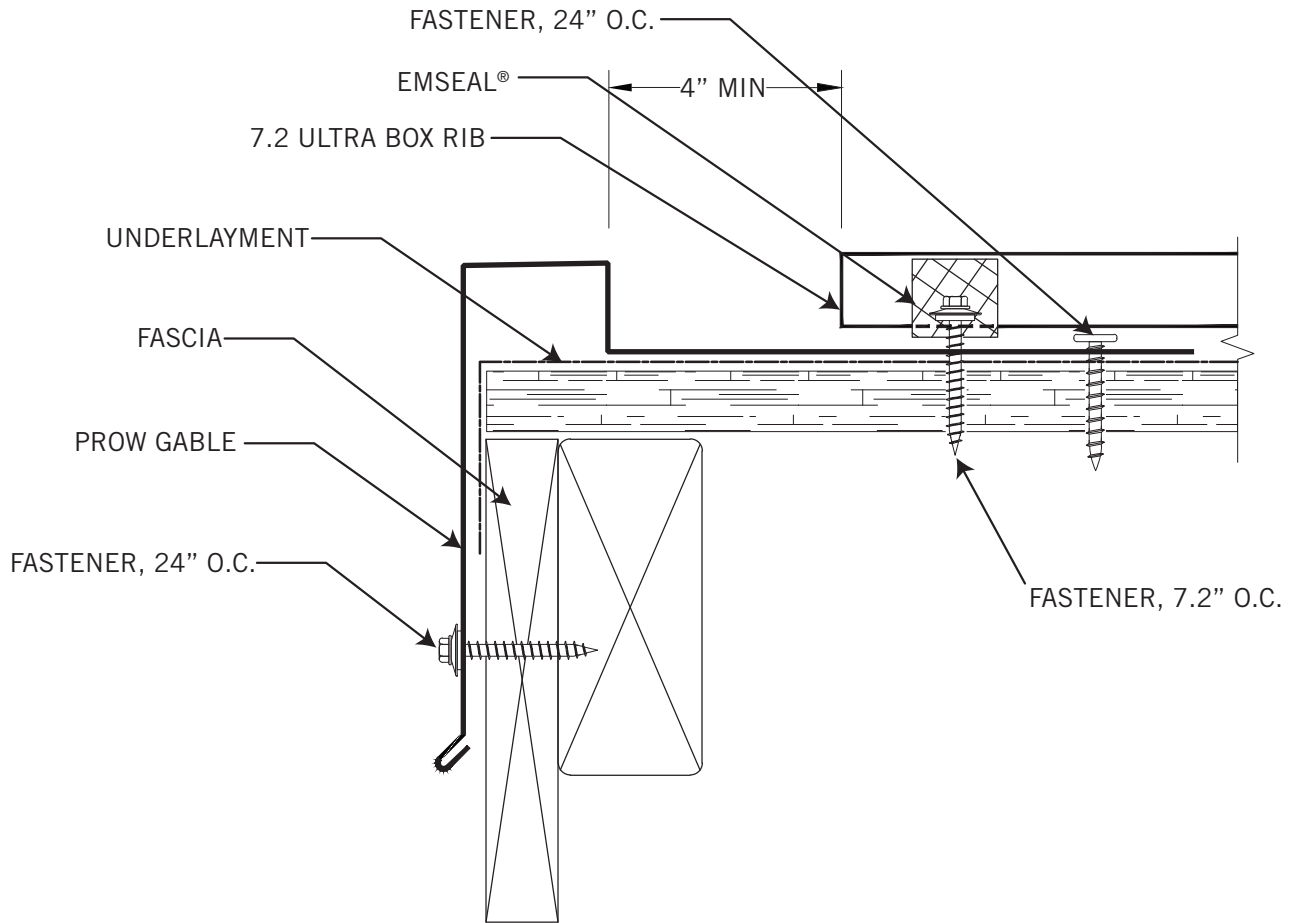


*\*Details are subject to change without notice.*

# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### PROW GABLE

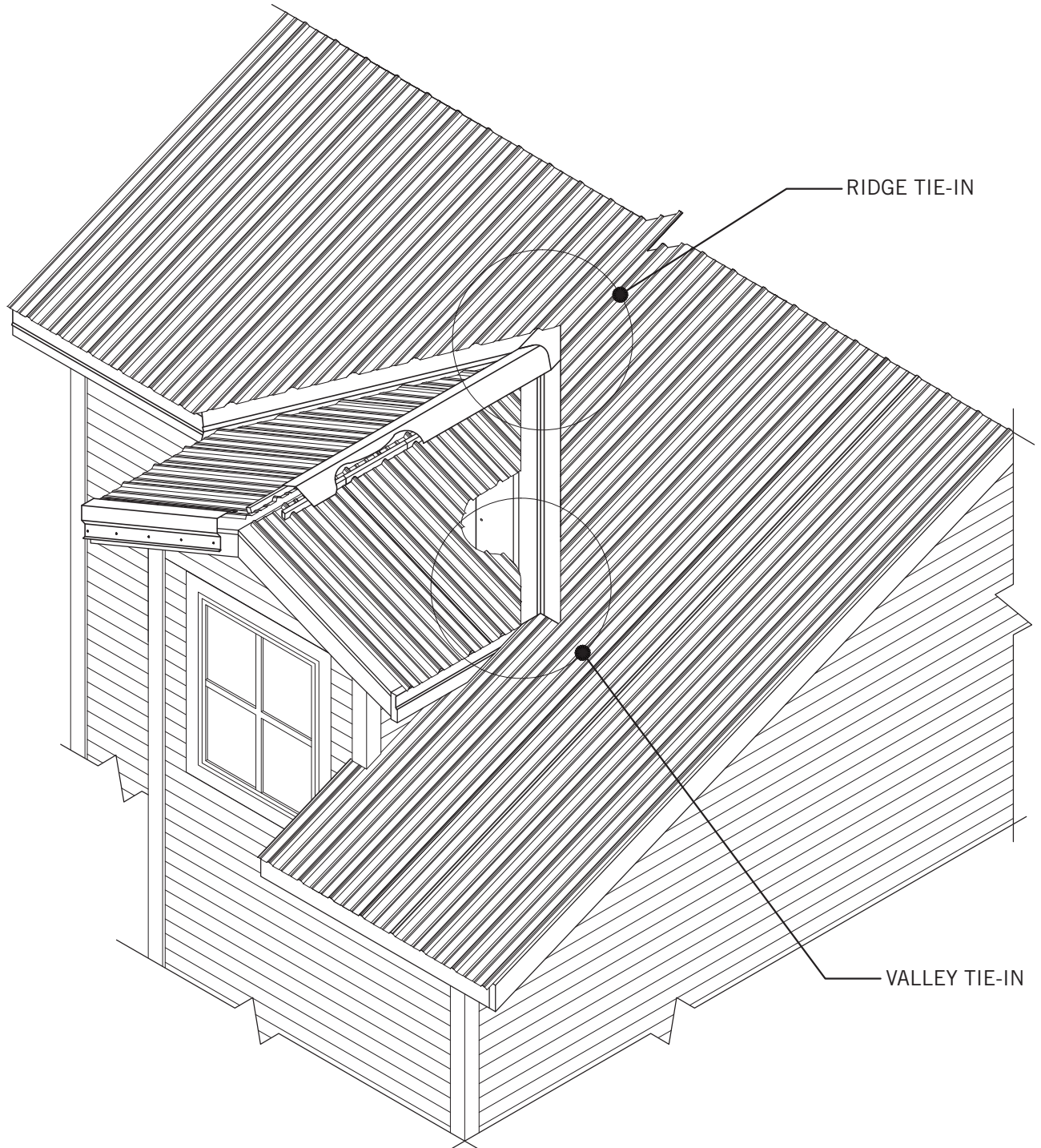


*\*Details are subject to change without notice.*

# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### OVERALL DORMER

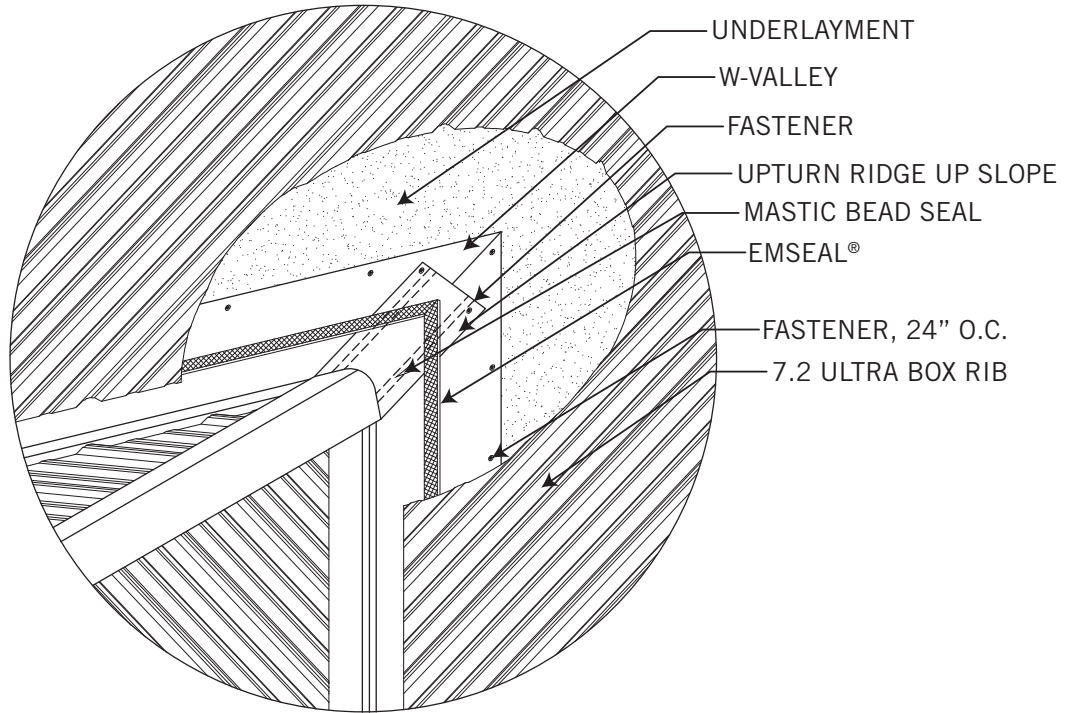


*\*Details are subject to change without notice.*

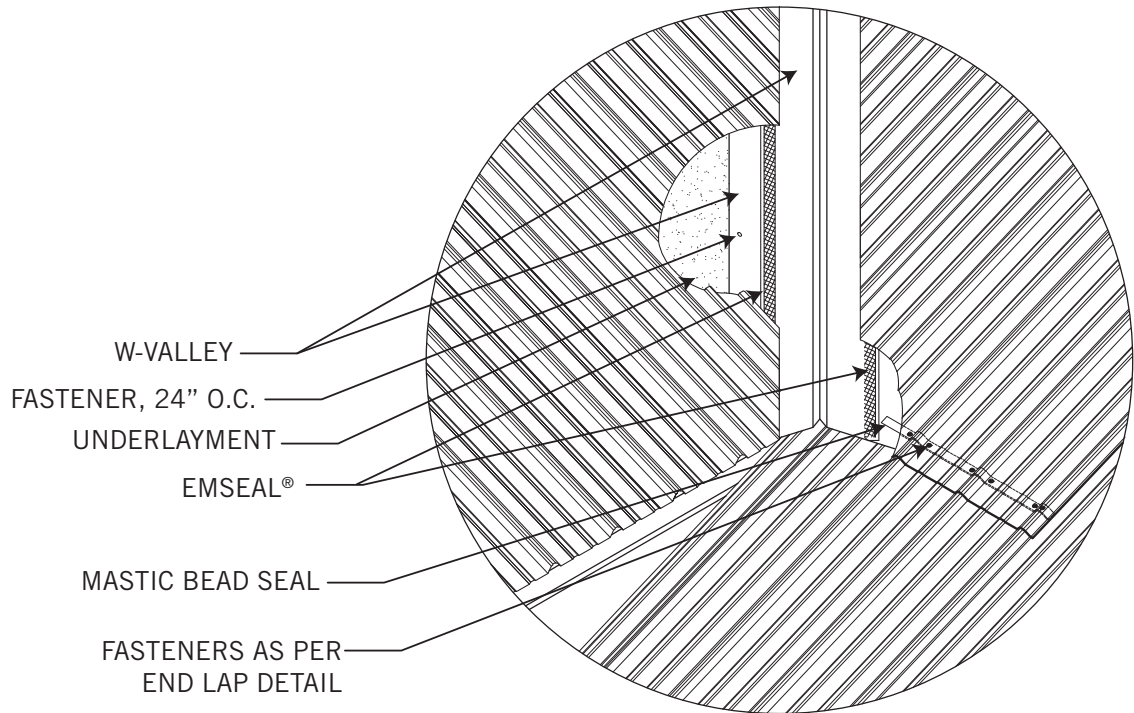
# FLATIRON STEEL

## 7.2 ULTRA BOX RIB

### RIDGE TIE-IN



### VALLEY TIE-IN



*\*Details are subject to change without notice.*