

FLATIRON STEEL

BOARD & BATTEN

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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 Board and Batten. 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.

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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 or on a ladder or scaffolding; 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. Never install metal siding during windy or stormy days. Metal siding 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 cause serious injury to the installer. Metal siding 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

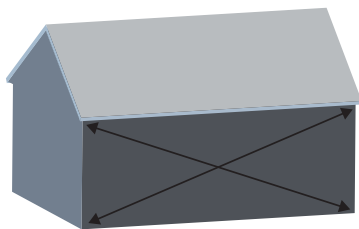
Tin Snips, a circular saw, or a nibbler is recommended for field cutting metal panels and trim. Always wear eye and ear protection when cutting metal. When cutting painted metal, ensure the metal particles and fragments do not end up on the painted surface. Metal particles on the painted surface will 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

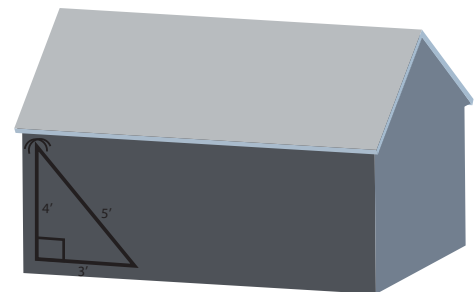
Before the installation process begins, it is critical that the framing and substrate are inspected to ensure that the structure is square and plumb. If it is not, it will have to be corrected. Make sure any structural fixes are done by someone with the proper experience and knowledge. Correct any objectionable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



If the wall 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 wall, 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 wall. Insert another nail in that spot.
- 3.) From the first nail, measure exactly 4 feet up the wall 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 wall to 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 wall.
- 7.) Use this line to properly install the first panel square on the wall.¹



¹For larger walls, this method can be done with multiples of 3,4,5
Example 6', 8', 10'

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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

WALL MAINTENANCE

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

- Clean out all drains and gutters to ensure proper drainage, to prevent water standing.
- Remove or trim any overgrown bushes, branches or anything else that could penetrate the wall surface.
- Inspect all areas for leaks and deterioration - pay attention to stains and discoloration of the wall edges and surrounding walls as they are possible indications of a leak.
- Check wall penetrations for possible leaks and cracks in caulking.
- If exposed fasteners have been used to install the wall, 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.

Refer to Fastener selection guide on the following pages 5-6.

PAINT WARRANTY

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:

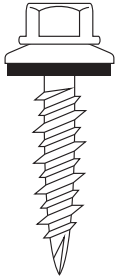
Project Location: Physical address

Job Completion Date:

FLATIRON STEEL

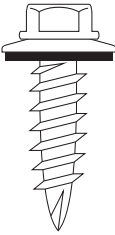
FASTENER SELECTION GUIDE

WOODFAST SCREW



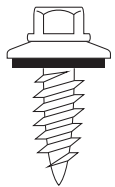
- No. 10 x 15, Type 17
- Available sizes: 1", 1 1/2", 2", 2 1/2", 3"
- 1/4" Hex Head
- Use: Panel to dimensional lumber and trim attachment.

WAFER SCREW



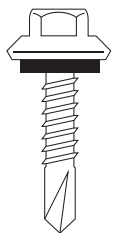
- No. 14 x 10, Type 17
- Available sizes: 1", 1 1/2", 2"
- 5/16" Hex Head
- Use: Panel to plywood/OSB substrate and trim attachment.

STITCH SCREW



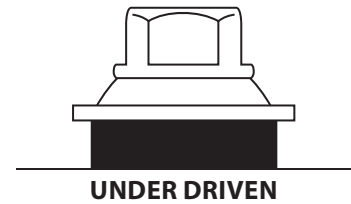
- No. 12 x 14
- Available size: 3/4"
- 1/4" Hex Head
- Use: Trim attachment and stitching lap seams together (29 gauge).
- **Compatible with No. 10 & No. 14 Wood Screws*

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

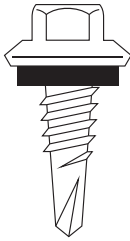


- This table shows the fasteners available for FLATiRON Steel. Refer to the panel installation and flashing details of this manual for specific screw usage and spacing.
- Panel attachment screws must be long enough to fully penetrate through the wood roof decking, steel purlins or penetrate solid lumber 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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FASTENER SELECTION GUIDE

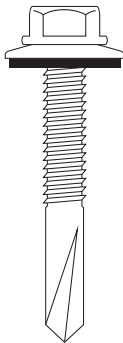
LAP TEK



- 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*

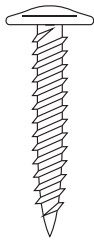
TEK 5



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

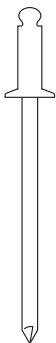
**Only Available in white and galvanized, remaining colors available by special order.*

PANHEAD



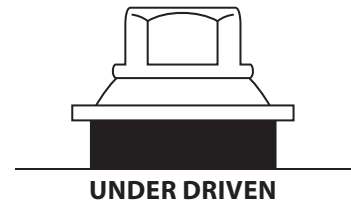
- 10 x 12
- Available sizes: 1", (1 1/2" and 2" available by special order)
- Phillips Head
- Use: To fasten standing seam panels and trim to wood deck (unexposed).

STAINLESS STEEL RIVET POP RIVET



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

PROPER INSTALLATION OF GASKETED FASTENERS

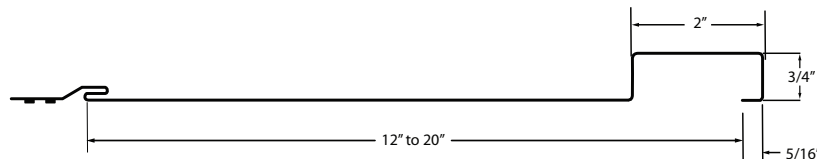


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MATERIAL SPECIFICATIONS



Available Widths:

12", 16" and 20"

16" (Standard) 12" and 20" (Specialized)

Available Gauges: 24 & 26 (Special Order)

Weight: 1.00lbs/SqFt (24), .75lbs/SqFt (26)

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

Available Materials: Painted, Galvalume, Bonderized[®], 16 & 20 oz Copper

Paint Systems: Durapon70[™] PVDF, ULTRA CLAD[™] Kynar500[®]/Hylar5000[®] Valspar Fluoropon[®]

Warranties: Durapon70[™] PVDF – 35 year
ULTRA-CLAD[™] – 35 year
Zincalume[®] AZ50 – 20 year
Valspar[™] PVDF – 35 year

Production Options: Either factory made to length with protective film to ensure damage free transport or rolled to length on site*

On site production is subject to order minimums

Panel Options: Flat panel, striations, Pencil Ribs or Bead Roll (*flat panel requires a waiver*).

Installation: Can be installed on solid wood decking.

Minimum Slope: Wall Mount Only

Specifications for:

- Class 4 Hail Impact
- Class A Fire Rating

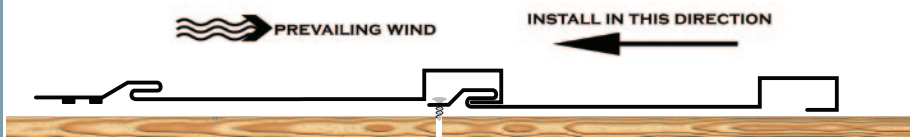
Please Note: It is the responsibility of the builder to ensure that they are compliant with current building codes.

Refer to Trim Pamphlet for Material Availability

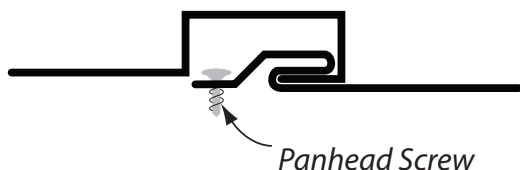


Roofing • Siding • Manufacturer • Supplier

APPLICATION DETAILS



*Fastener Spacing 2' on Center



****Oil Canning is not a reason for rejection of panels****

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

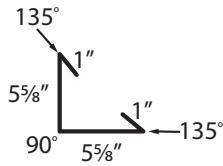
FLATIRON STEEL

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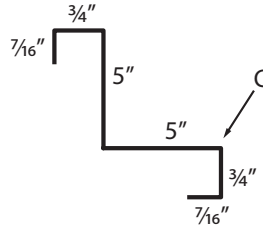
TRIM PROFILES

CONCEALED FASTENER TRIMS

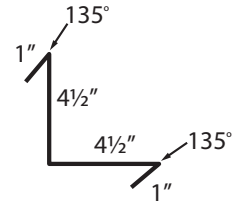
I/S Corner Base Cleat (Any Color)



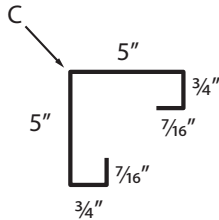
I/S Corner Cap



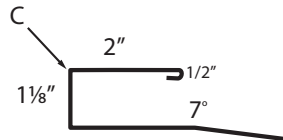
O/S Corner Base Cleat (Any Color)



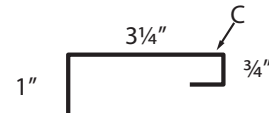
O/S Corner Cap



J Metal Starter (Any Color) Windows, Man Doors, Garage Doors

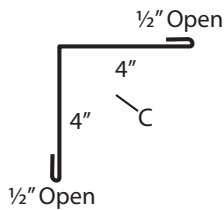


J-Metal Cap

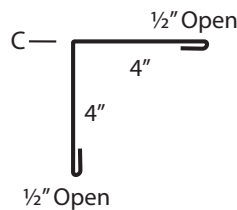


EXPOSED FASTENER AND RIVETED TRIMS

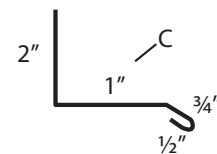
Inside Corner (Consealed - Riveted)



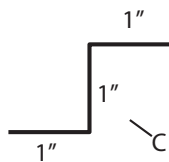
Outside Corner (Consealed - Riveted)



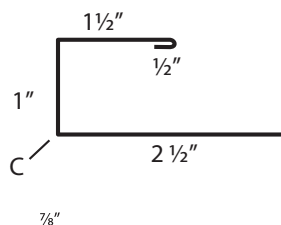
Base Trim



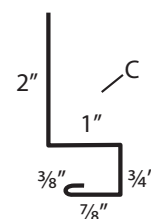
Standard Z Trim



Standard J Trim



Square Base



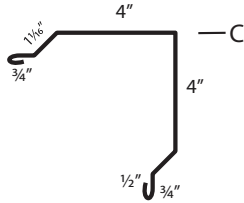
FLATIRON STEEL

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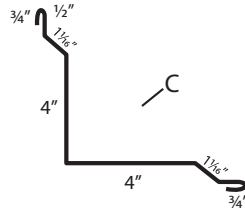
TRIM PROFILES

EXPOSED FASTENER AND RIVETED TRIMS

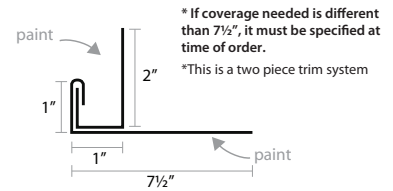
Outside Corner (Exposed)



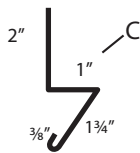
Inside Corner (Exposed)



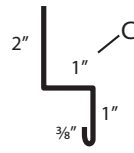
Overhead Door Trim



Z - Base Trim



Z - Flashing

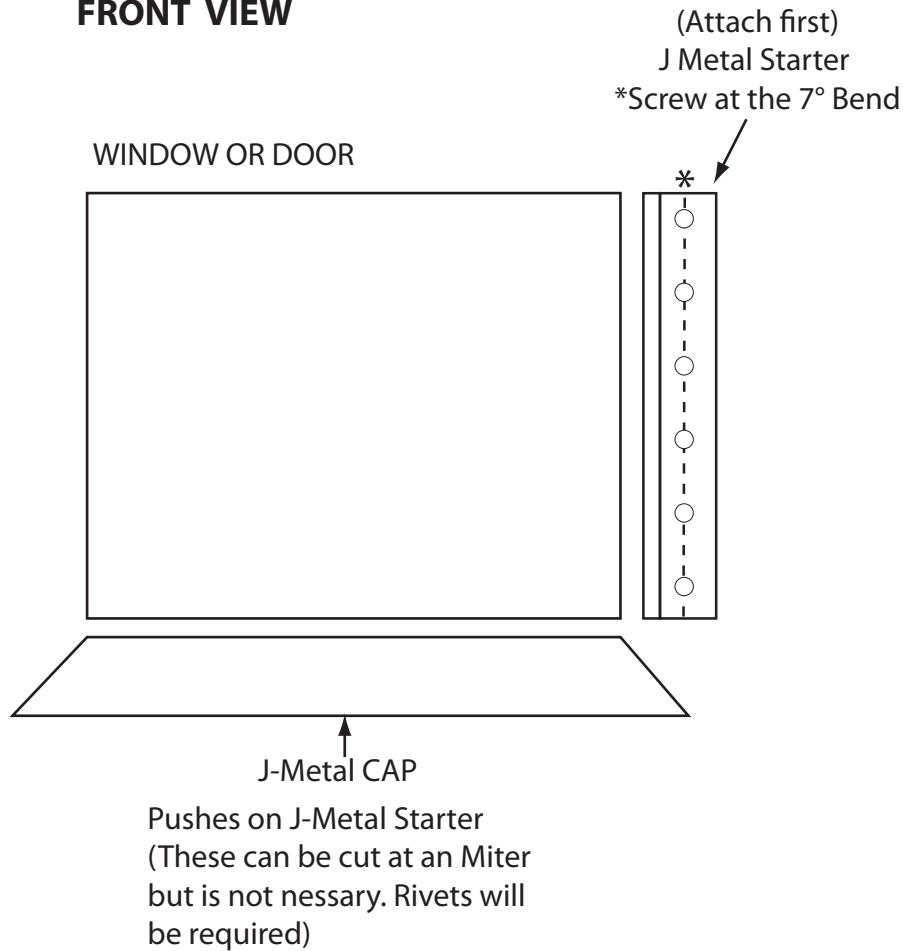


FLATIRON STEEL

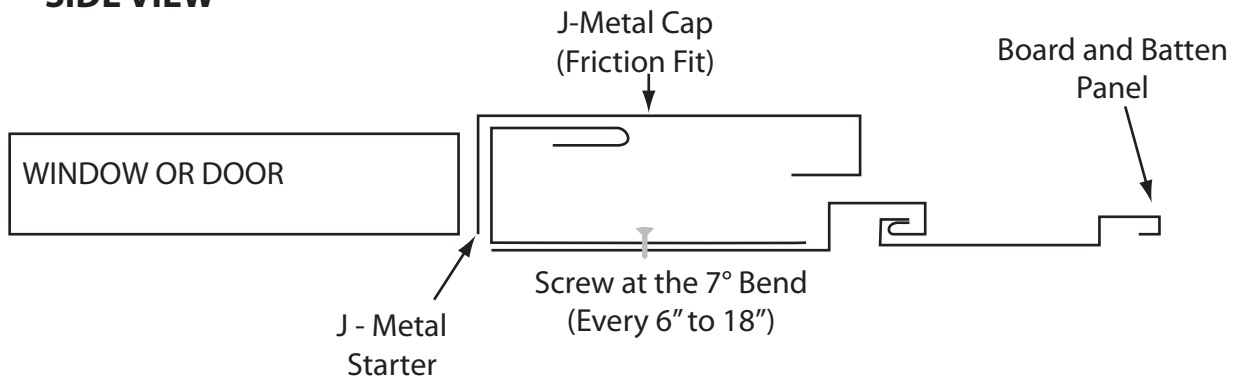
BOARD & BATTEN

J - METAL CAP

FRONT VIEW



SIDE VIEW



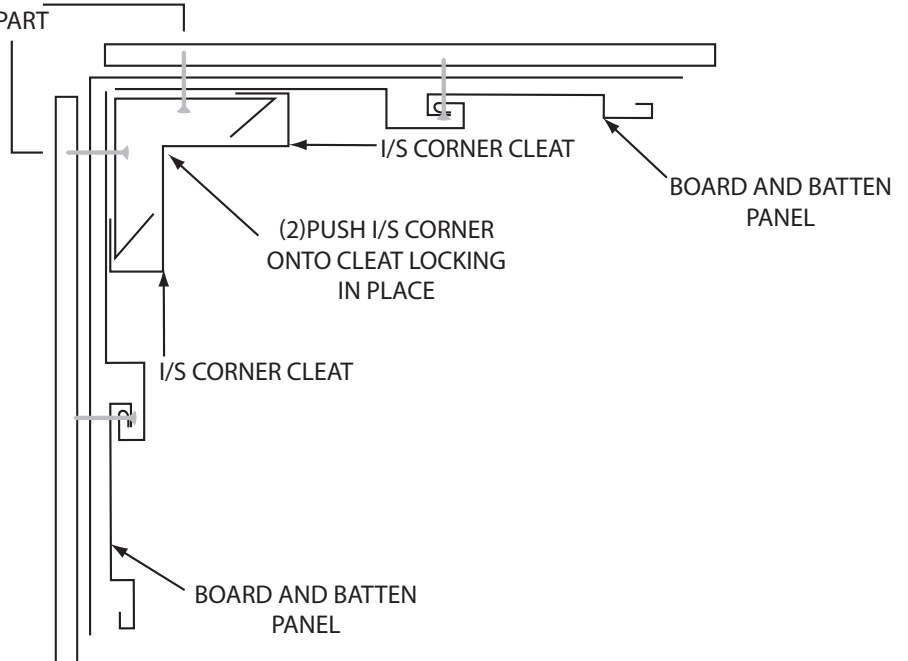
**Details are subject to change without notice.*

FLATIRON STEEL

BOARD & BATTEN

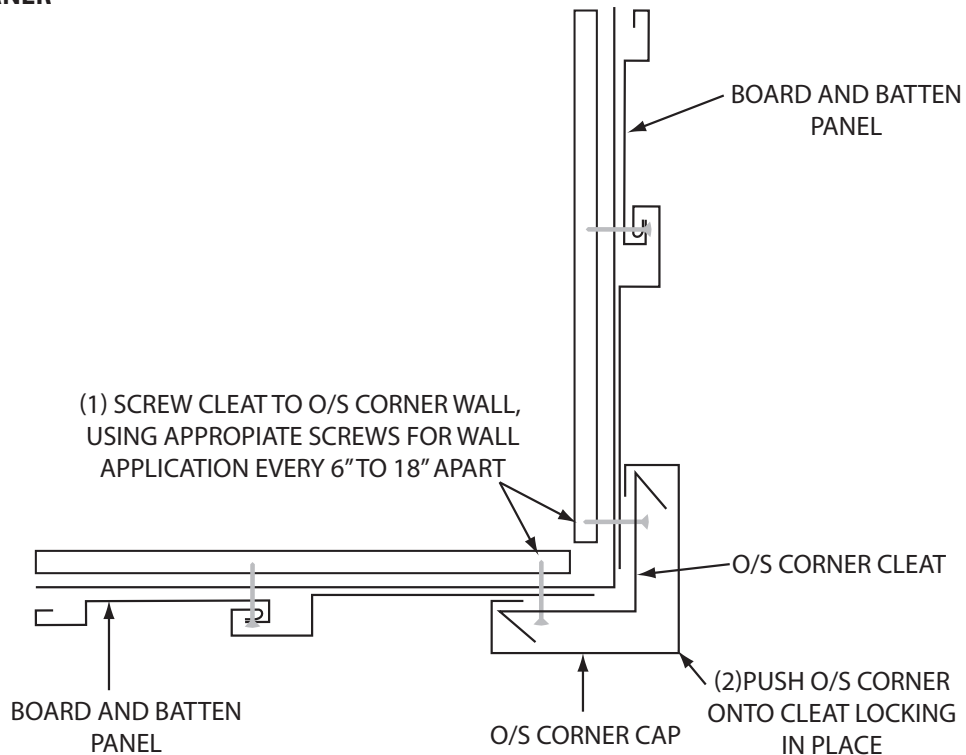
CONCEALED FASTENER I/S CORNER

(1) SCREW CLEAT TO I/S CORNER WALL,
USING APPROPRIATE SCREWS FOR WALL
APPLICATION EVERY 6" TO 18" APART



CONCEALED FASTENER O/S CORNER

(1) SCREW CLEAT TO O/S CORNER WALL,
USING APPROPRIATE SCREWS FOR WALL
APPLICATION EVERY 6" TO 18" APART

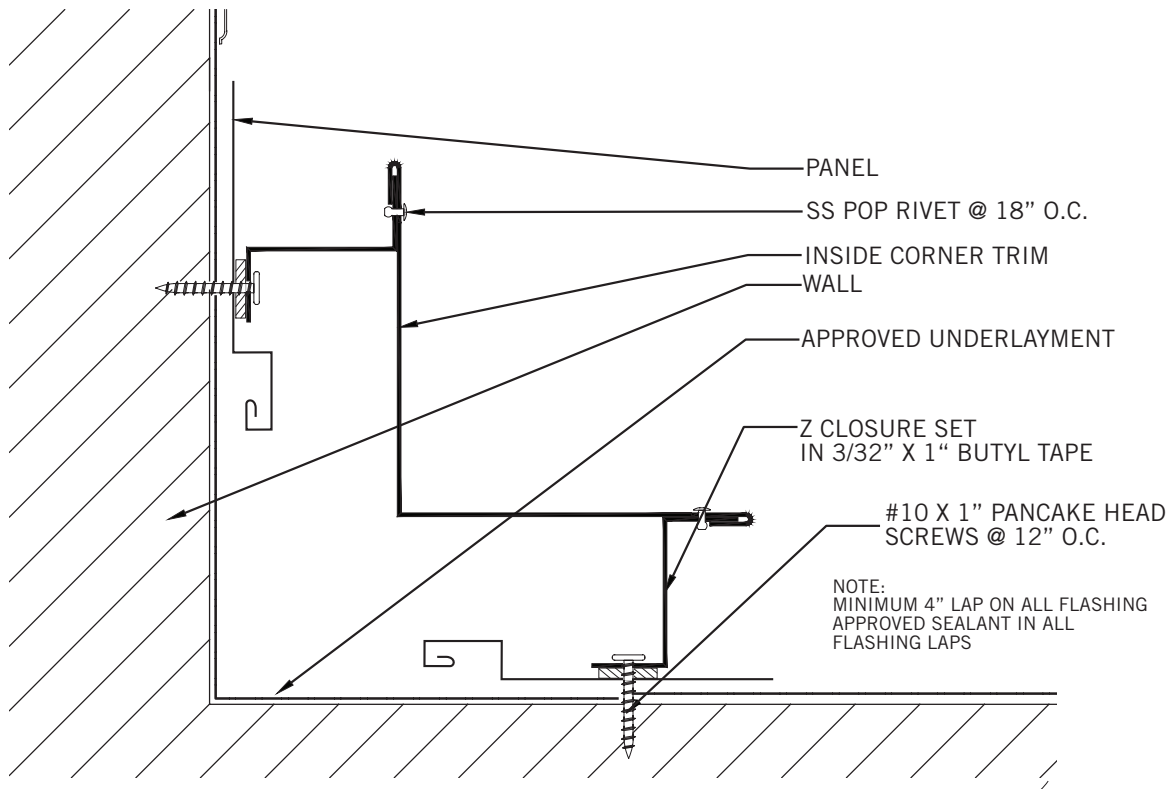


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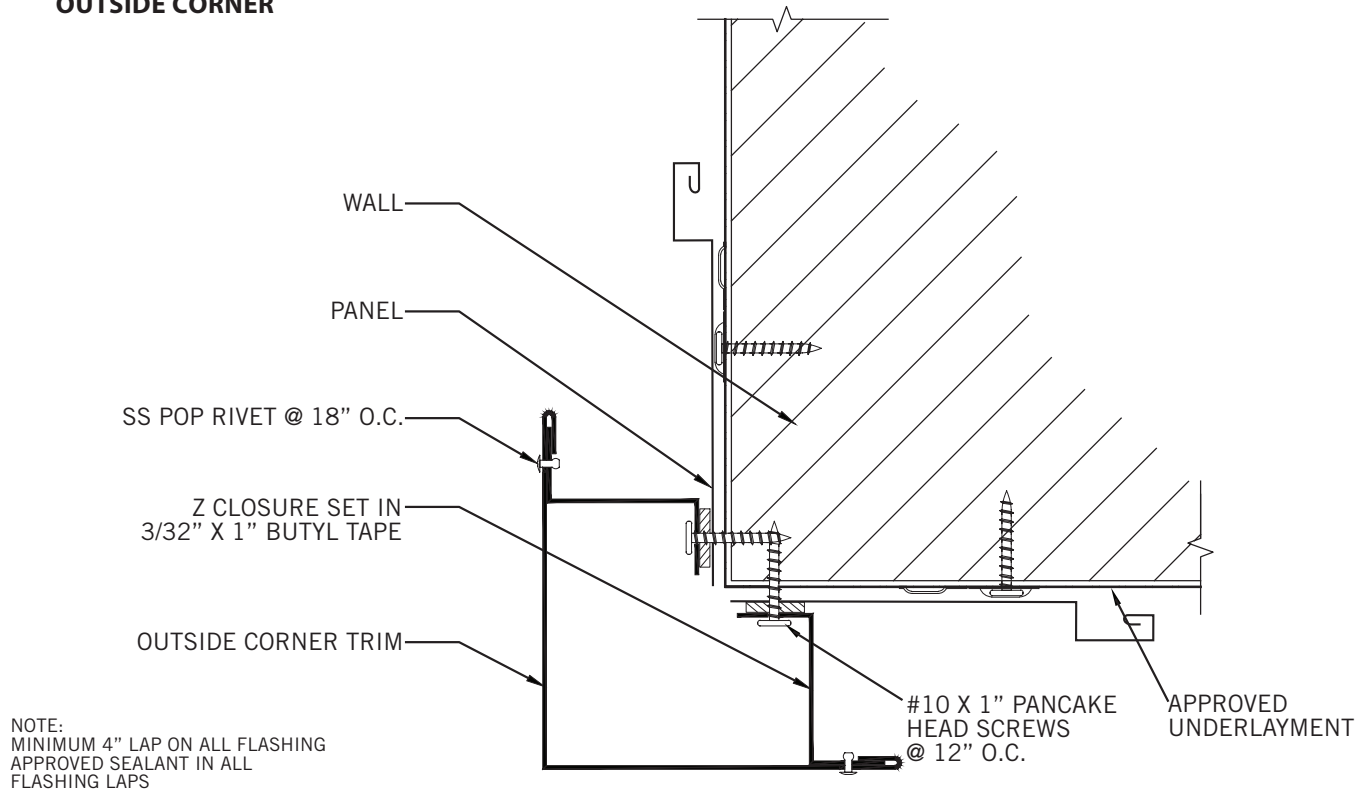
FLATIRON STEEL

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(CONCEALED - RIVETED) INSIDE CORNER



(CONCEALED - RIVETED) OUTSIDE CORNER

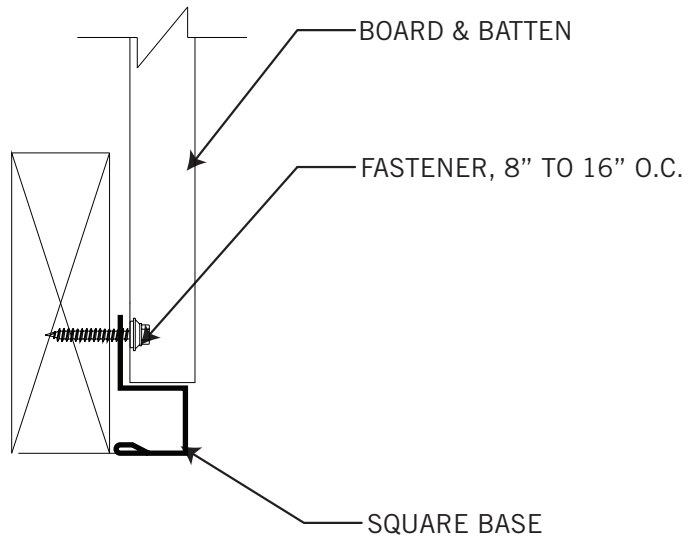


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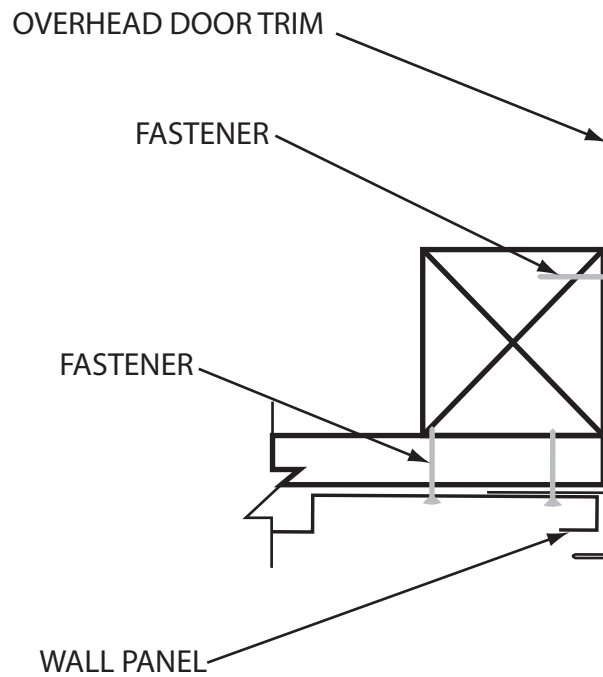
FLATIRON STEEL

BOARD & BATTEN

SQUARE BASE



OVERHEAD DOOR

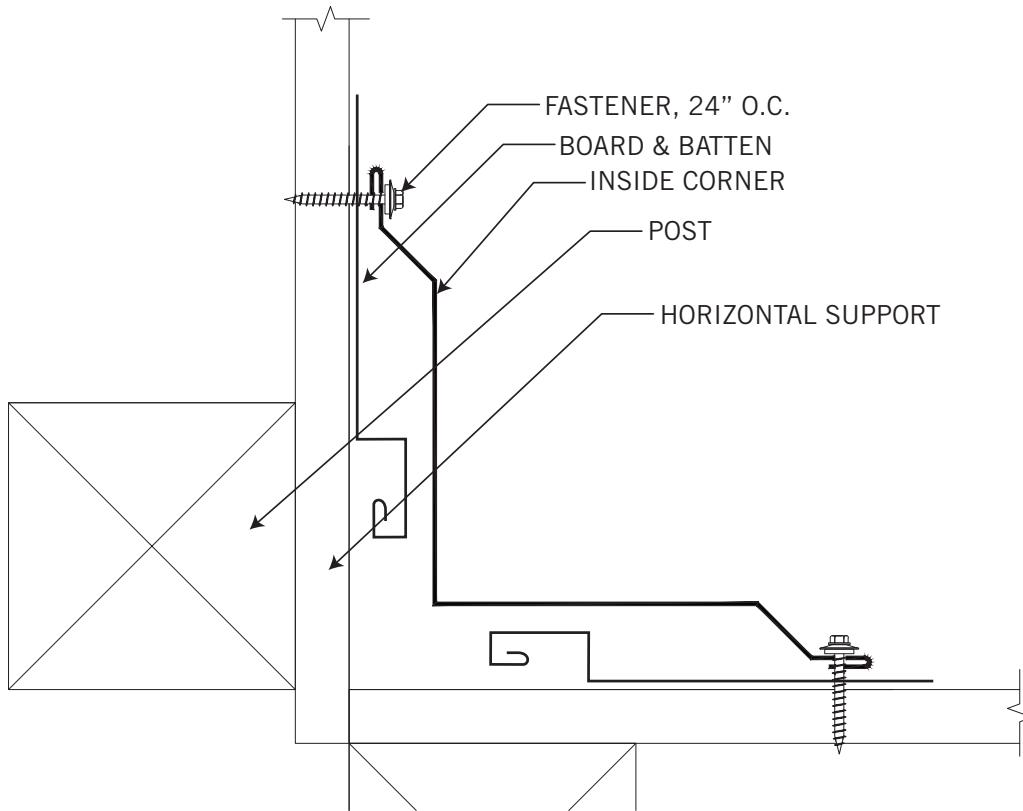


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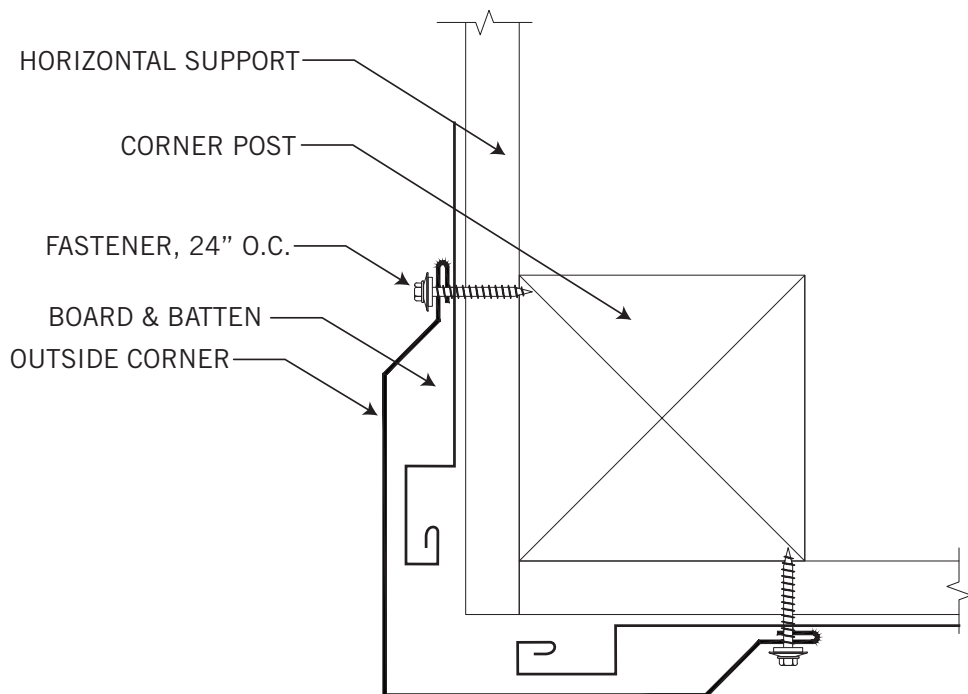
FLATIRON STEEL

BOARD & BATTEN

EXPOSED INSIDE CORNER



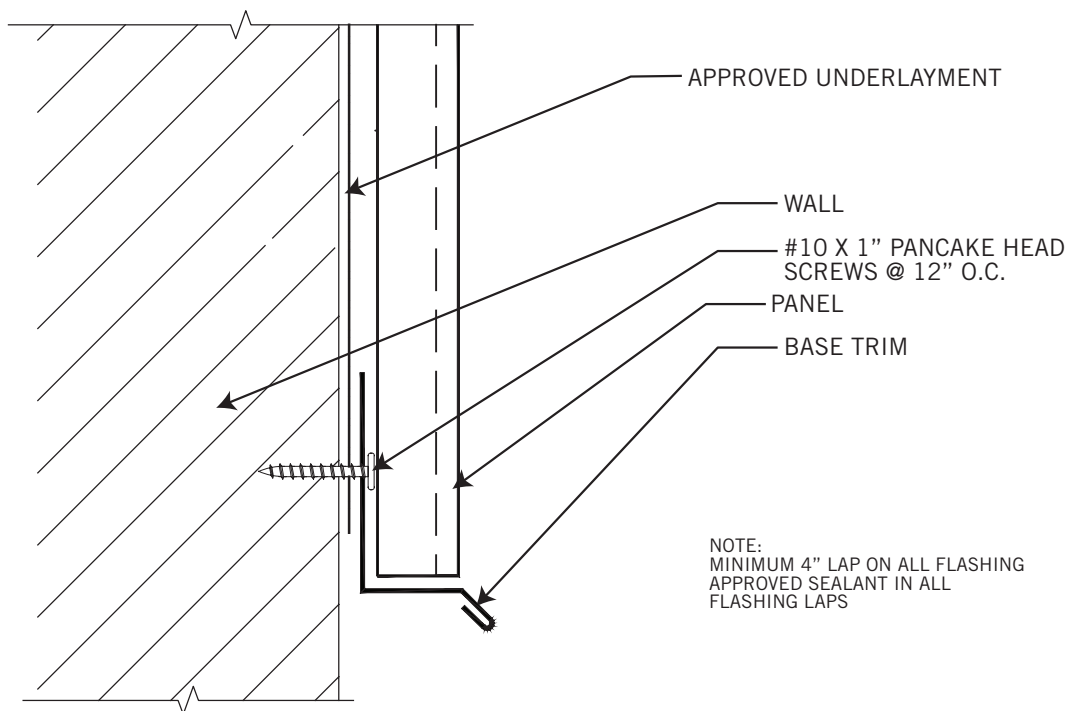
EXPOSED OUTSIDE CORNER



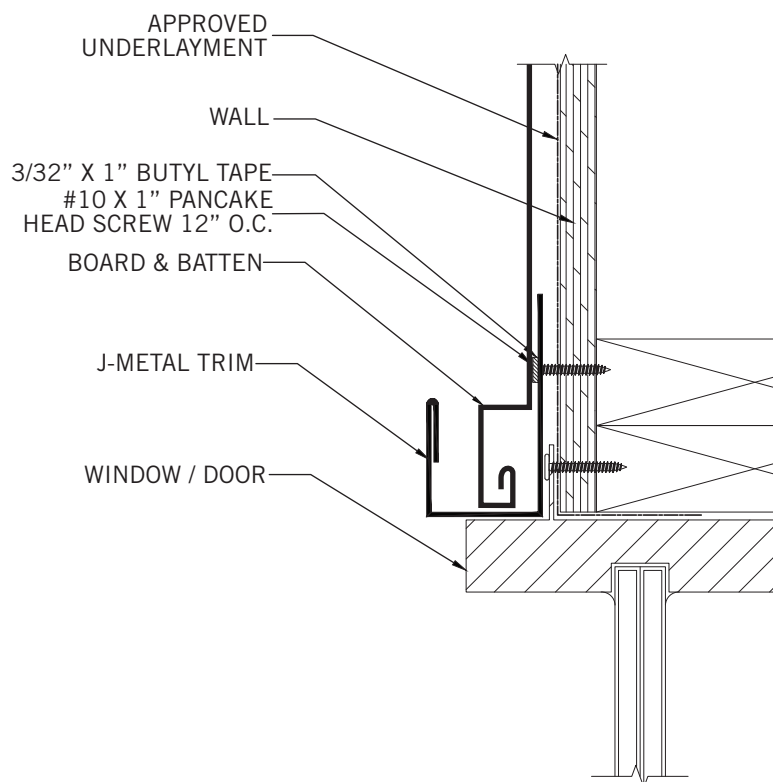
**Details are subject to change without notice.*

FLATIRON STEEL BOARD & BATTEN

BASE TRIM



J - METAL TRIM

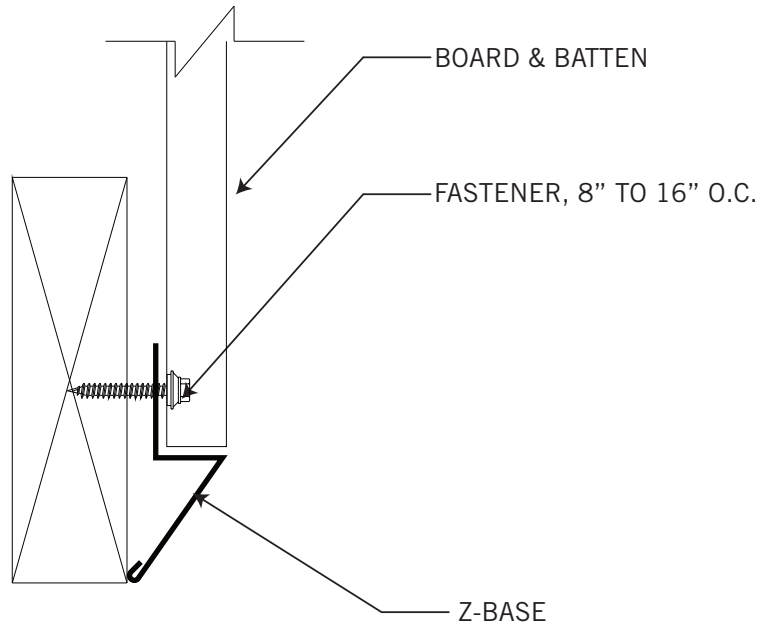


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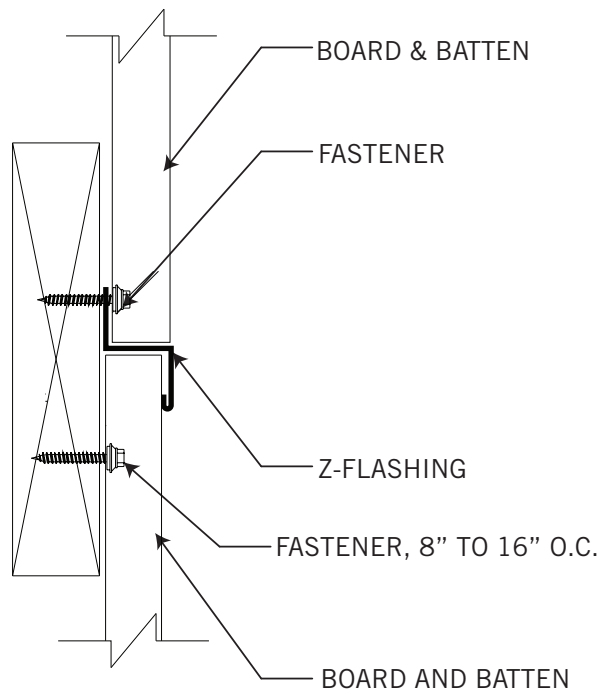
FLATIRON STEEL

BOARD & BATTEN

Z - BASE



Z - FLASHING



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