Lifetime™ SOFFIT PANEL

INSTALLATION INSTRUCTIONS

CHAMPION METAL
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Champion Metal LifeTime™ Soffit panels are designed for use on commercial and residential applications.

The LifeTime™ Soffit provides an attractive alternative to plywood or open soffits and offers ventilation when incorporating perforated soffit panels into the system.

These installation instructions are intended to offer suggested application procedures for common building construction. No attempt is made to provide installation details for every application or possible use.

Please contact Champion Metal for use of custom flashing details as they pertain to specific conditions or to discuss a specific project.

Conformity to local building codes, details for specific applications, and use of safety and health procedures is the sole responsibility of the installer.

Champion Metal assumes no liability for the improper installation of the soffit panel nor for any personal injury or property damage that may occur with the product's use.

Oil Canning – All light gauge metals can display waviness often referred to as "oil canning." This is caused by steel mill tolerances, substrate variation and relative reflectivity. "Oil canning" is an inherent characteristic of steel products, not a defect, and is not a cause for material rejection.

Delivery and Will Call

Delivery Policy

Champion Metal delivers using diesel trucks with 5th wheel, low-boy flat bed trailers. Overall combined length can be as long as 65 feet. Our fleet includes trucks, with and without knuckle cranes, and a variety of trailer sizes to assist in deliveries. We will make every effort to accommodate requests for a specific delivery mechanism but we cannot guarantee availability of specific resources.

We will make every attempt to deliver material to the desired location. We may be unable to gain access on tight corners or steep terrain. If the site is deemed inaccessible by our driver, the customer may choose an alternate delivery site within a reasonable proximity. If we are unable to make the delivery, additional charges may be assessed.

The customer is responsible for:

- Determining adequate access for delivery ahead of time.
- Meeting the delivery at the agreed upon time.
- Any balance owing on C.O.D invoices.
- Providing adequate resources (1-4 people as needed) for off-loading materials.
- $35 per half hour charge if delivery takes longer than one-hour.

Delivery times are usually scheduled one day in advance. Champion Metal will make every effort to make the delivery at the scheduled time. Please be aware that there may be conditions beyond our control such as traffic, mechanical failure, road closures, etc. which may affect our schedule.

Will Call and Loading Policies

Flat bed trailers and trucks are best suited to transport metal roofing materials. These can be loaded from the side with a forklift and tied down in a safe and secure manner.

We are not able to load materials onto vehicles and/or trailers which are not suitable or may be hazardous to load. Please be aware that if we find a vehicle to be inappropriate, we reserve the right to refuse to load your order.

> Examples are: boat trailers, vans, buses, motor homes, campers and box trailers. Pickup racks which do not have sufficient supports for the weight or are not long enough to support bundles are also unacceptable.

Champion Metal is not responsible to tie down loads nor do we provide any tie down materials. Please bring tie downs to secure your load (string or twine are not acceptable for this purpose.) We do offer a delivery service at reasonable rates to accommodate the customer who needs the materials delivered to an accessible job-site.

Please see our delivery pricing pages for more information.

LifeTime™ Soffit panels are available in lengths between 2 feet and 50 feet in 1/4 inch increments. Panels shorter than 2 feet are available, however, they are subject to a per panel handling charge. Please see current price list.

LifeTime™ Soffit panels are available in smooth (solid) or perforated, with an optional center v-groove.

Handling and Storage

Check the shipment at the time of delivery

Verify material quantities against the shipping/packing list. Note any damage or discrepancies upon the paper work at the time of delivery and notify Champion Metal within 48 hours of delivery.

Handle materials with care when off loading or moving materials to avoid damage to panels or flashings. Long panels may require two or more pick-up points, properly spaced to avoid damaging panels. Plan ahead. Contact Champion Metal for recommendations on handling/hoisting long panels.

Store the panels, flashings, and accessories in a dry, well ventilated area, off the ground. If covering, allow ventilation around panels. Elevate one end of bundles to allow drainage of wet materials.

Take care when painting to avoid getting over-spray on the soffit material. Remember that wind can carry paint particles some distance. Over-spray can cause the finish of the soffit material to look dull and may void your warranty.

Secure materials, especially when leaving the site, on the ground or roof to prevent winds from moving the materials. Wind blown materials may cause damage to the material, property or persons.

Safety considerations are the responsibility of the installer and his crew. Be sure to **use common sense** and generally accepted safety practices when installing soffit materials.

Tools

The following tools may be used for proper installation.

- Screw Gun: Clutch type, variable torque, cordless screw guns will give the best results.
  - Extra batteries
  - Bit holder - magnetic
  - #2 square drive bits or phillips drive bits(for panel screws)
  - 1/4" Hex head - magnetic - bit driver (for woodfast flashing screws)
  - 1/8" drill bit (for rivets & pre-drilling fastener holes)
  - Belt & holster (keeps all the above tools safely on your hip)

- Cutting Tools:
  - Cutters/Offset (curved jaw) left & right (for precision cutting, long cuts)
  - Snips (straight jaw) left & right (for short cuts & circular cuts)
  - Hack Saw - 32 TPI Blade
  - Circular & Sabre saws (with metal cutting blades speeds up panel cutting but leaves very rough edges and burrs paint)
  - CAUTION: POWER SAWS MAY CAUSE PANEL DAMAGE!
  - Electric Shears (aids in long panel rips)
  - DeBurring Tool

  WARNING - Filings, debris and chips must be wiped off panels, otherwise rust will develop!

- Hole Punch (for pre-punching holes in metal)
- Rubber Mallet - Soft Type (for adjusting panels & flashings)
- Quick Square, Framing Square & Bevel Square (aids in squaring flashings & panels)
- Duck Bill Vise Grips/Pliers (for various bending)
- Tape Measures - 16' for most work - larger sizes for larger surface & panel measurements
- Rivet Tool (for riveting flashings)
- Marking pen or pencil
- Chalk Line (for marking long panel rips and to align panels)
- Protective gloves to protect hands
- Cotton gloves for working with copper (to protect against fingerprints on finish)

Champion Metal recommends the following fasteners for 26ga and 24ga galvanized steel LifeTime Soffit panels. Waferhead screws are used to attach flashings and panels to the structure.

Recommended Fastener Spacing:

- 24 inches for flashing attachment
- 48 inches for panel attachment in a soffit application

Waferhead, Sharp point

Sizes:

#9-16 x 1"	#2 Phillips Drive (also available in #2 Square Drive)
#9-16 x 1-1/2"	#2 Phillips Drive

Waferhead screws are recommended for attaching the panels to a wood deck or substrate. They are concealed fasteners and made of carbon steel coated with Zinc and an Oxyseal/Xylon Coating for long life.

Lathhead Screws, Sharp Point

Size: #6 x 9/16"

Lathhead screws are used to attach the panels to the wood deck. While generally not recommended for most applications, this concealed fastener is useful for areas where a longer fastener will penetrate the substrate and exhibit an objectionable appearance, such as exposed overhangs. The pull out rating for this fastener is less than the waferhead, so these fasteners need to be placed more often.

Woodfast, Sharp Point

Sizes:

#9-16 x I"	1/4" Hex Drive- Color Match
#9-16 X 1-1/2"	1/4" Hex Drive- Color Match

Woodfast screws are recommended for attaching metal to wood in some cases metal to metal. They are exposed fasteners made of carbon steel, coated with Zinc and an Oxyseal/Xylon Coating for long life.

Stitch Screw, Sharp Point

Size#12 x ¾" ¼" Hex Drive-Color Match

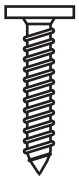
Stitch screws are used to attach metal to metal such as lap joints in flashing. They can be used interchangeably with rivets. They are exposed fasteners.

Rivets

#42 or #44 (1/8" x 1/8") Stainless Steel rivet-color matched or non-painted

Rivets are used to attach metal to metal such as lap joints in flashing.

Champion Metal recommends the following fasteners for use with copper:



Pancake Head, Sharp Point

(Silicon Bronze)

Size: #10 x I" #2 Phillips Head-natural finish

The Silicon Bronze fasteners are used with copper roofing panels to prevent reactions between unlike metals. The pancake head is used for panel attachment, and is a concealed fastener.

Woodfast, Sharp Point

(Silicon Bronze)

Size: #10 x I" 1/4" Hex head -Natural finish

The Silicon Bronze fasteners are used for metal to wood applications, typically for the attachment of flashings. They are exposed fasteners.

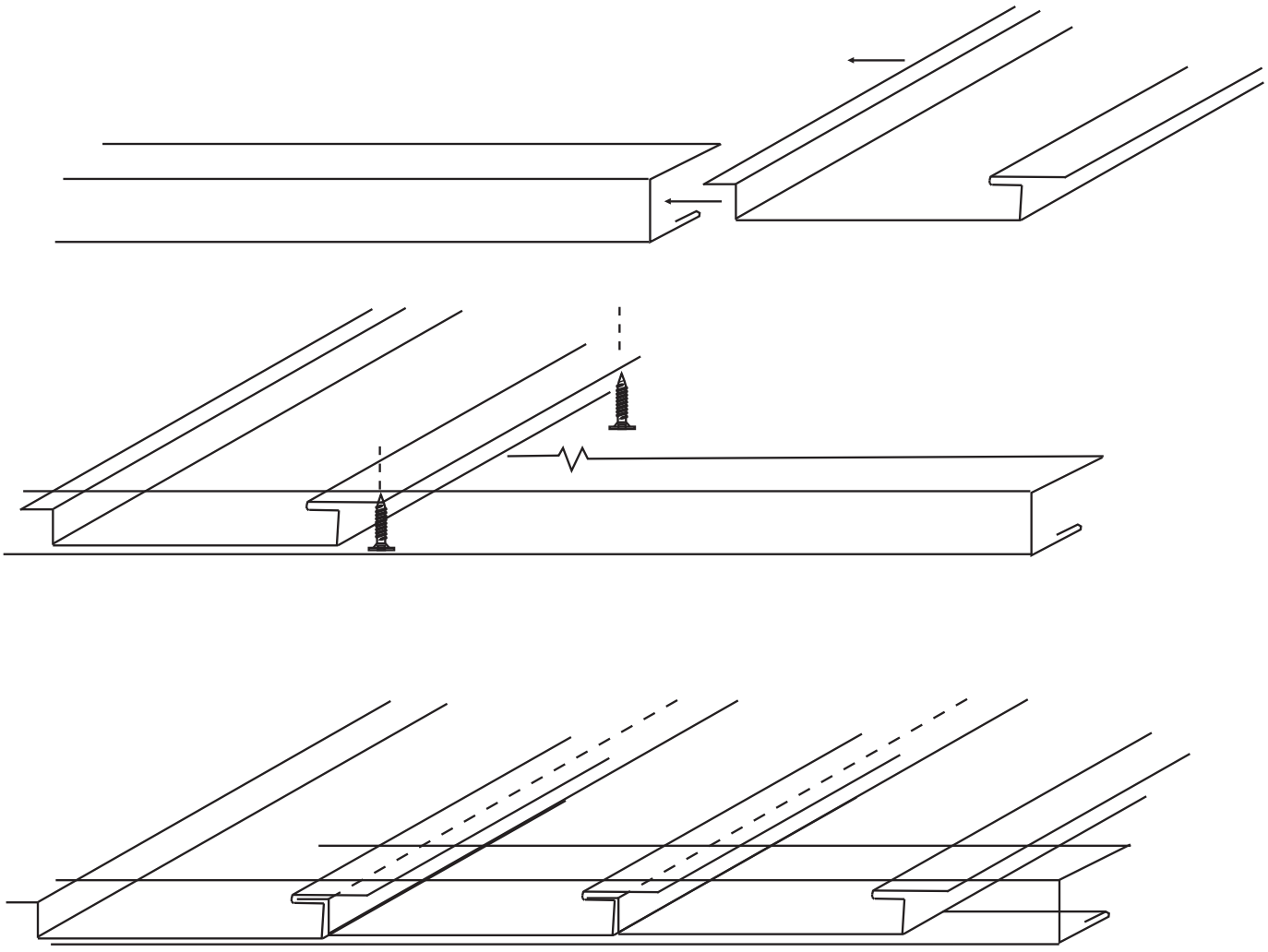
Rivets

(copper rivet/brass mandrel)

Size: #42 or #44 1/8" x 1/8"

Rivets are used to join metal to metal such as lap joints in flashings.

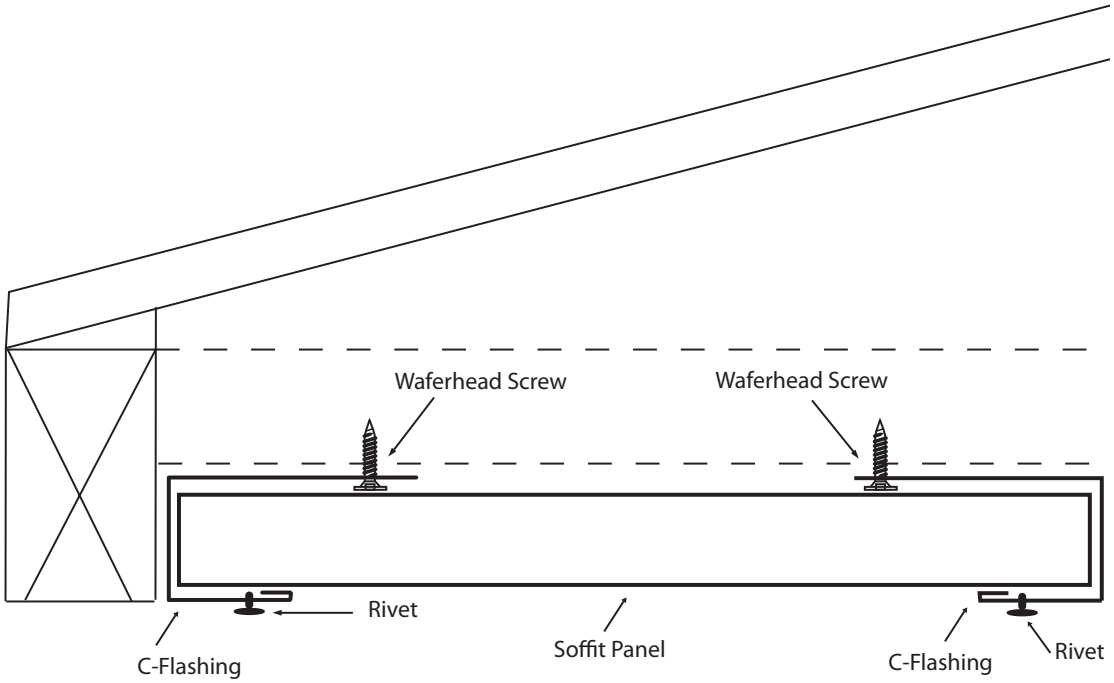
Soffit Panel Installation



On a typical soffit installation, C-Flashings are used on each side of the soffit (usually the building wall and the inside of the fascia board).

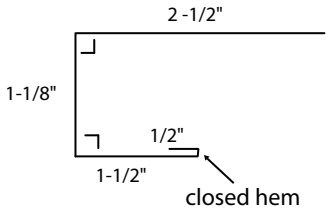
The panel is then inserted into the C-Flashing from the end. Slide the panel to the end. The panel is fastened through the fastening flange of the panel to the structure, if the span exceeds 48". Fasten the panel to the C-flashing with a rivet on both fascia and wall sides.

Insert the next panel into the C-Flashing and slide to meet the preceding panel. Fasten and repeat the process until the area is complete.



CF C-Flashing

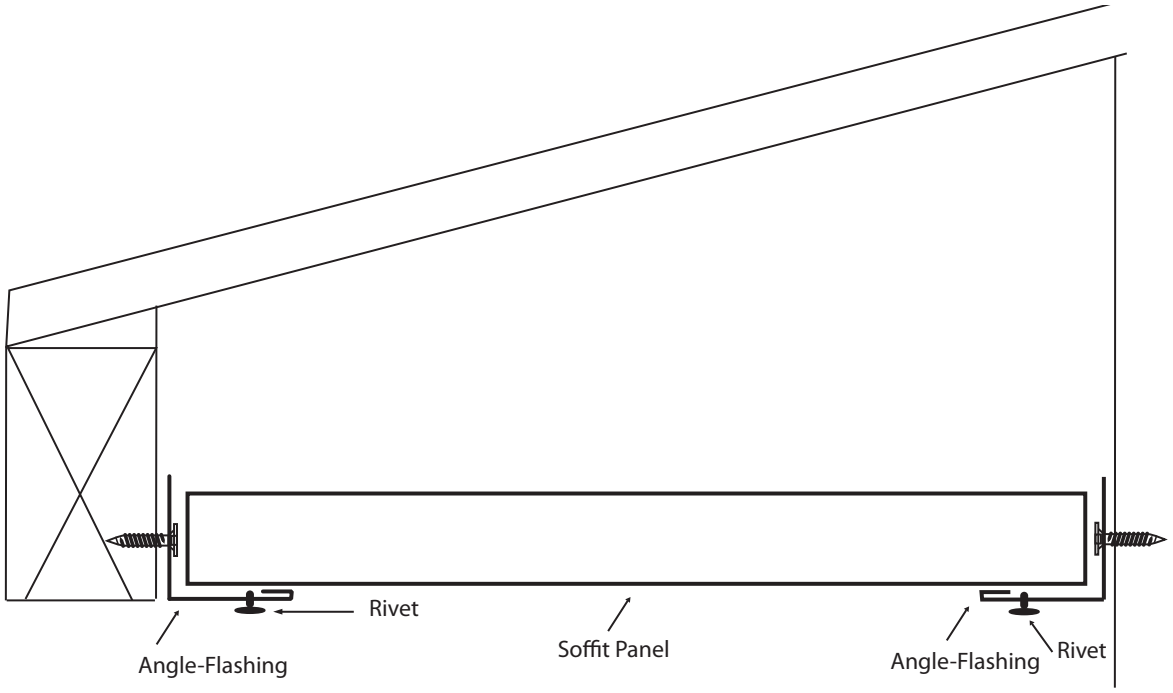
C-flashings are commonly used to flash the ends and sides of panels. The purpose is not only to trim the panels for the best appearance, but also to provide support.



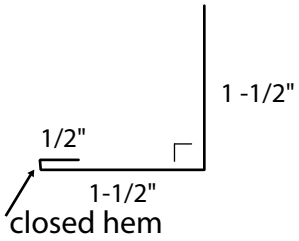
Soffit C-Flashing Application

- The C-flashings are applied to the inside of the fascia board and directly across on the opposite wall level with one another and attached every 24" to 36" with a waferhead screw. Apply C-flashing on both sides and at each end. It is usually better to apply 10' of flashing on each side at a time, that way you don't have to slide panels a great distance.
- Slide the soffit panels into the channels created by the C-flashing. The short leg of the panel should be pointed into the C-flashing at the start of the run. Be sure to fasten the panel to the structure if the span is greater than 48".
- Successive panels are installed the same way, but are installed so they attach to the previous panel. Push the panels together so there is little or no gap between them.
- Fasten each panel to the C-flashing with a rivet on both the fascia and wall sides as needed.
- C-flashing can be bent to allow the panels to be installed parallel with the roof line. The bend is limited to a 6/12 pitch or less. Specify pitch.

Soffit Angle Flashing



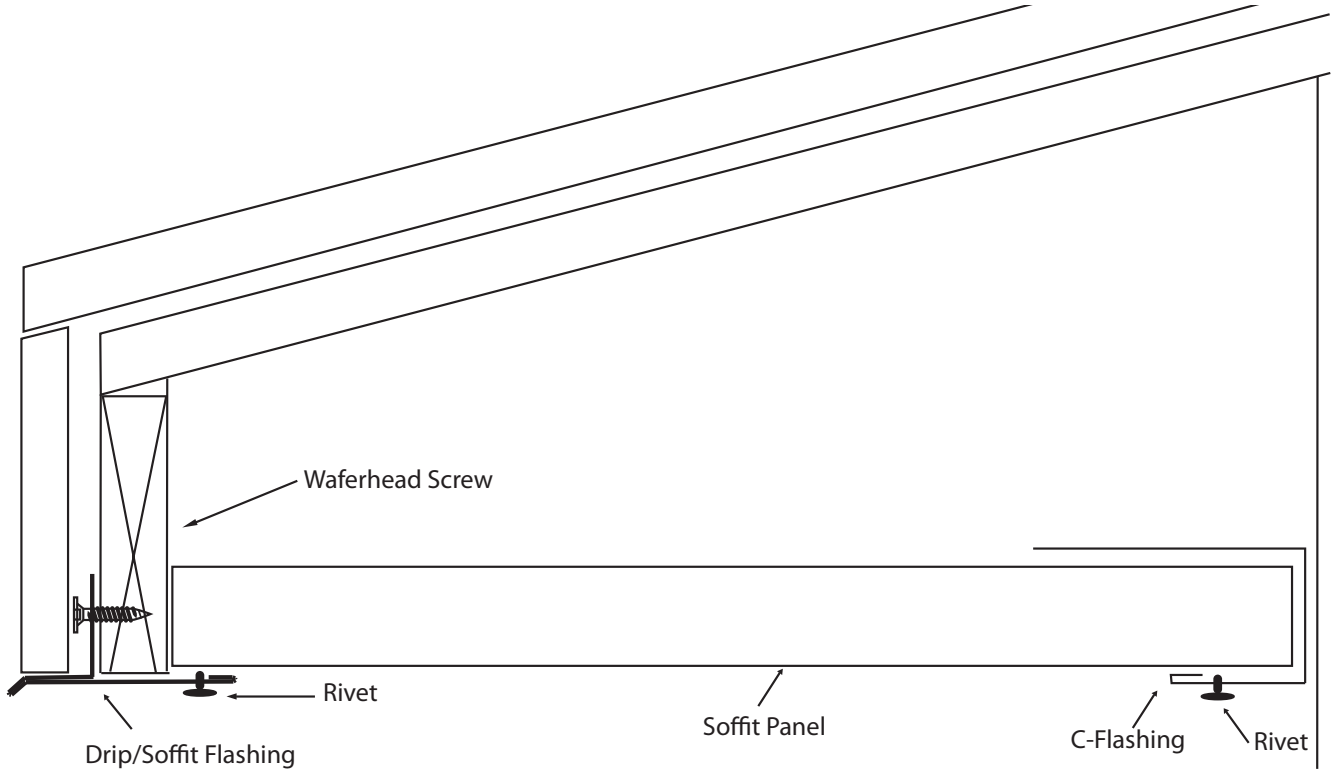
AF Angle Flashing



Soffit Angle Flashing Application

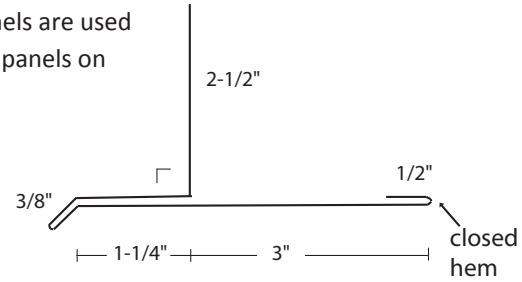
- The Angle-Flashing are applied both to the inside of the fascia board and directly across the opposite wall. The Angle-Flashings are attached every 24" with a Waferhead screw. Apply Angle-Flashing on both the inside of the fascia board and the wall, as well as at the end of the run.

- Lay each end of the panel(s) onto the ledge created by the 1-1/2" hemmed leg and fasten into place. Panels should be attached on each end to the Angle Flashing on both the fascia and wall side. Be sure to support the panel if the span is greater than 48".



DS Drip/Soffit

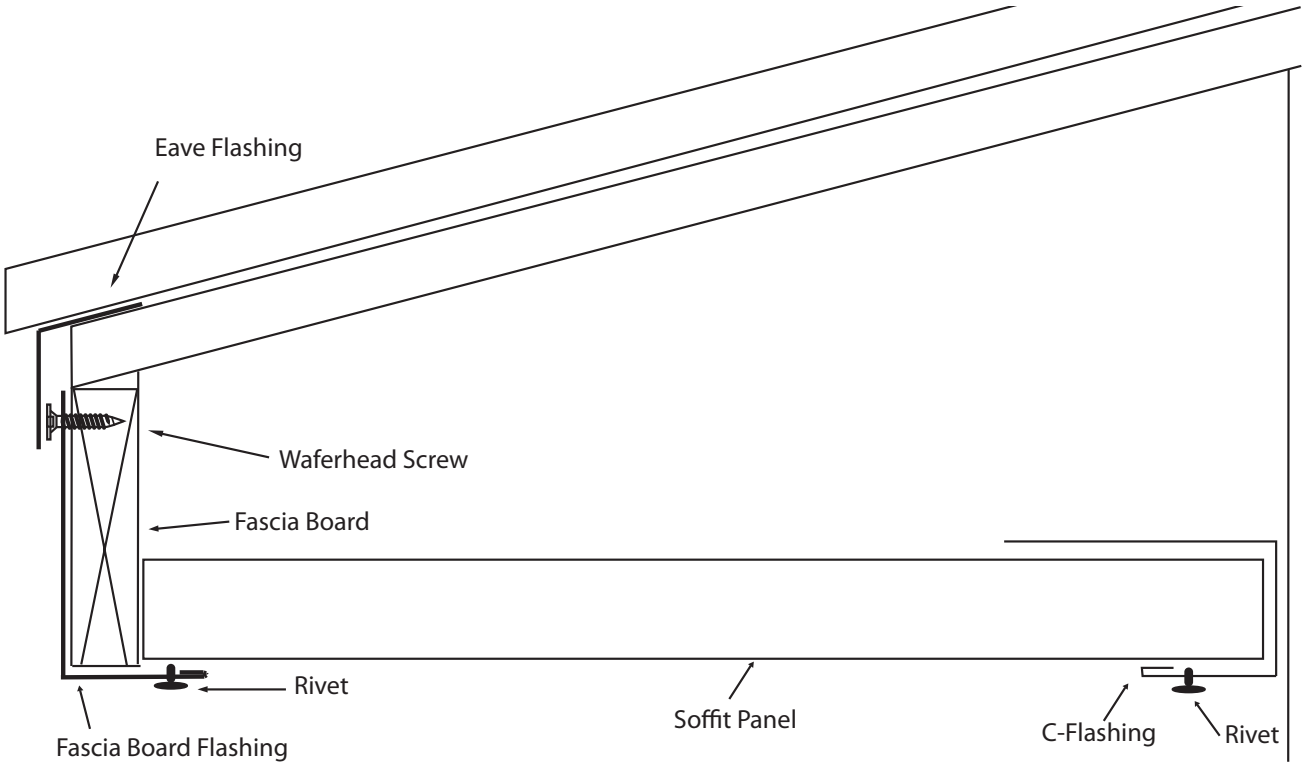
Use when soffit panels are used in conjunction with panels on the fascia.



Drip/Soffit Flashing Application

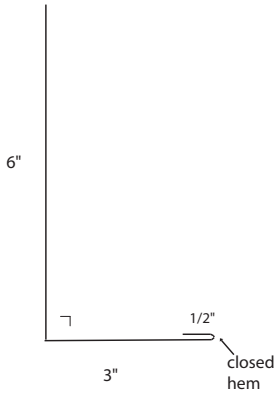
- This is a variation of the supporting flashings for the soffit panels. The Drip/Soffit flashing is used in conjunction with a fascia/wall panel, such as the Smoothwall® Panel, and incorporates a drip lip as well as the ledge/leg to support the soffit panels.
- Installation of the soffit panels is the same as previously described.

Fascia Board Flashing



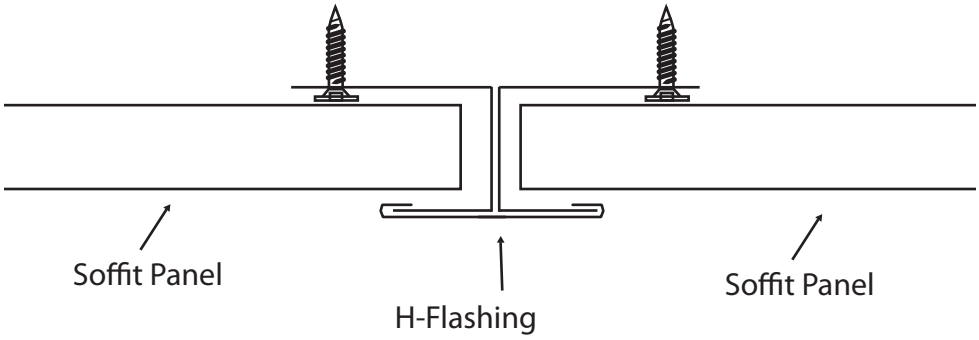
FB Fascia Board

Use when soffit panels are used in conjunction with standard covered fascia.



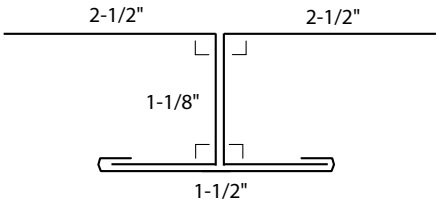
Fascia Board Flashing Application

- This is a variation of the supporting flashings for the soffit panels. The Fascia Board flashing is used in conjunction with a fascia/wall panel, such as the Smoothwall® Panel, and incorporates a ledge/leg to support the soffit panels.
- Installation of the soffit panels is the same as previously described.



HF H- Flashing

Use where the ends of two panels come together either at a corner , like the soffits on a hip roof, or where the panels require a joint due to excessive length.



H-Flashing Application

- Install the H-Flashing by fastening the flashing to the structure through each of the long legs (2-1/2") with a waferhead screw.
- When installing panels at corners, cut the panels for the angle, usually 45 degrees, de-burr, clean and insert angled end into each side of H-Flashing.
- For long runs, install H-Flashing straight and square perpendicular to panels and fasten into position. Install panels into channels at each end. ***Remember to fasten panel every 48" on single spans greater than 48".***

CHAMPION METAL
a Taylor Metal Company

Custom Trim Order

Customer Name: _____ Job Name: _____

Drawing #:___ Pitch: _____ # of Pieces: _____

Description:_____

Hems: ☐ Open ☐ Closed ☐ Slightly Open

Drawing #:___ Pitch: _____ # of Pieces: _____

Description:_____

Hems: ☐ Open ☐ Closed ☐ Slightly Open

Drawing #:___ Pitch: _____ # of Pieces: _____

Description:_____

Hems: ☐ Open ☐ Closed ☐ Slightly Open

Drawing #:___ Pitch: _____ # of Pieces: _____

Description:_____

Hems: ☐ Open ☐ Closed ☐ Slightly Open

Please provide a drawing for each flashing with precise measurements and angles
Fax to: 425-485-2710

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