

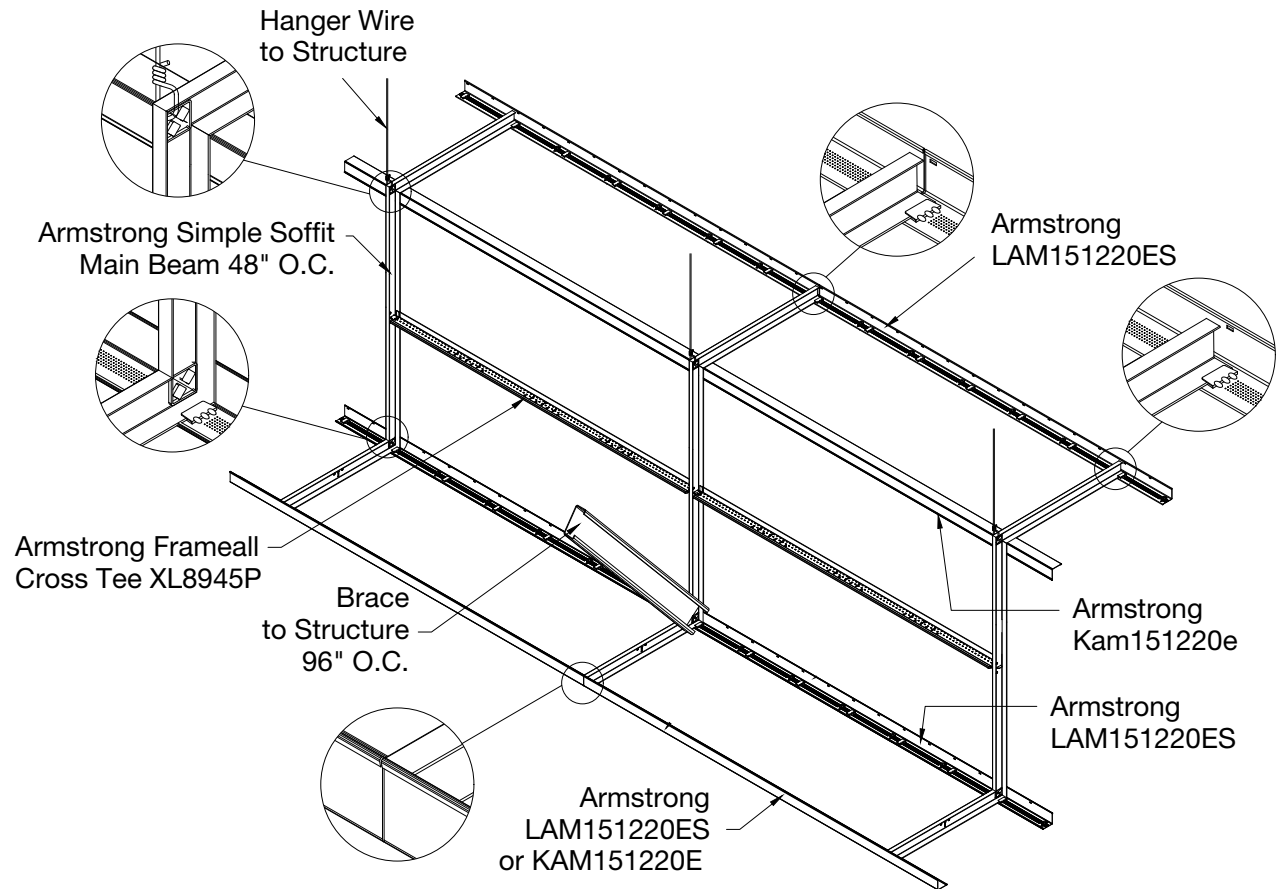
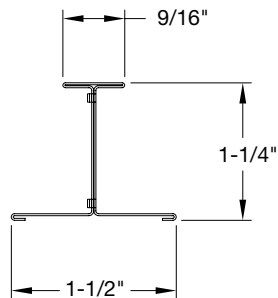
# SimpleSoffit® Soffit Framing System

## Installation Instructions

### 1. SYSTEM OVERVIEW

SimpleSoffit® is a prefabricated grid framing system that quickly and easily snaps together into an interior soffit allowing for a faster, more accurate framing installation.

This new framing system reduces time and labor associated with cutting and measuring the framing members.



## 1.1 Material Handling/Storage

Product requires proper handling. Please transport cartons supporting the product so it doesn't bend or twist. **(Fig 1)**

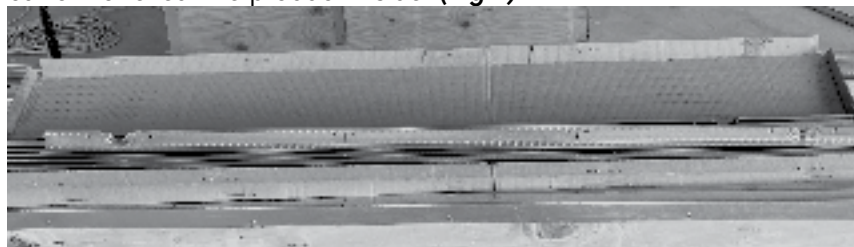
For storage, please store main beams in carton on a flat rigid surface.

**(Fig 1)**



### Opening the carton:

While the carton is on a flat rigid surface, cut the long edge of the carton to reveal the product inside. **(Fig 2)**



**(Fig 2)**

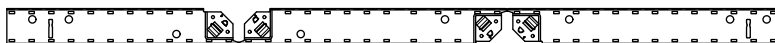
Once carton is opened remove product from carton and take care that product stays straight until clicking together. **(Fig 3)**



**(Fig 3)**

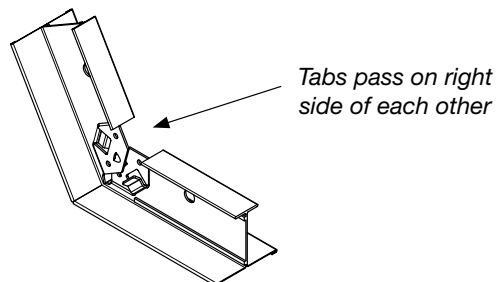
### 1.2 Folding and Clicking SimpleSoffit®

Keep the product flat until ready to fold and click together. **(Fig 4)**



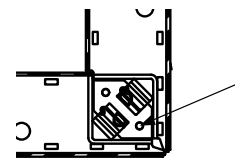
**(Fig 4)**

When folding the mains, ensure the proper alignment while clicking together. Make sure each opposing Click Notch passing each other on the right for proper locking with an audible click. **(Fig 5)**



**(Fig 5)**

The click confirms the Click Notch locked. Please note, a screw may be needed in certain construction situations depending on the size, shape, and condition of the soffit **(Fig 6)**. For assistance, contact your Armstrong® Ceilings Installation Representative. Inquire with your Technical rep.



*One screw at each connection may be necessary depending on the installation*

**(Fig 6)**

Install SimpleSoffit frames in the space with Armstrong Drywall Grid cross tees.

Standard SimpleSoffit main spacing is 48" O.C. And maybe up to 72" O.C. depending on the loading condition. Please consider loading when determining if 24", 36", 48", 60", or 72" cross tees should be used.

Product should be braced to structure as needed or 96" O.C.

## 1.3 Assembling with SimpleSoffit® Screw Notch

When folding SimpleSoffit main beams with bend dimensions tighter than the minimum achievable with the Click Notch (see 1.8), assemble using the SimpleSoffit Screw Notch.

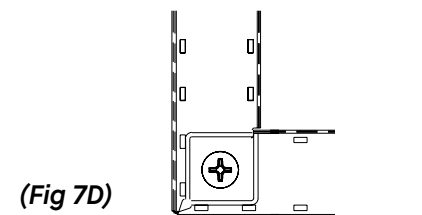
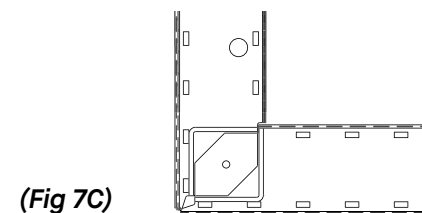
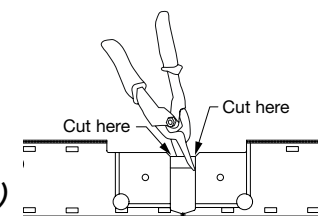
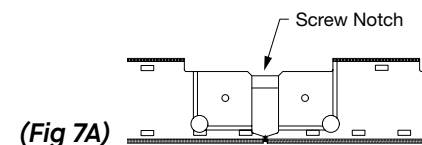
**(Fig 7A, 7B, 7C & 7D)**

The Screw Notch allows tighter bend dimensions; HOWEVER, a screw must be added once the main beam is folded.

Use snips to make two cuts as shown in **(Fig 7B)**. Once cuts are made, fold together with tabs passing to the right side of one another. **(Fig 7C)**

Finally, use #8 panhead screw to secure Screw Notch assembly.

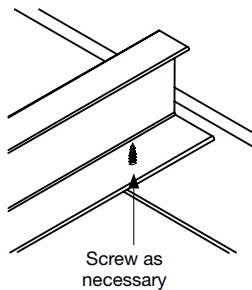
**(Fig 7D) NOTE:** For additional information on minimum bend dimensions, see Section 1.8, Product Considerations and Capabilities, page 8.



## 1.4 System Installation

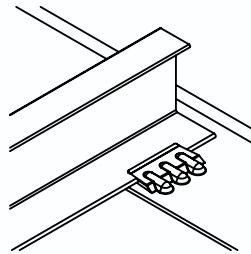
Install SimpleSoffit® frames in the space using Armstrong Drywall Grid cross tees and KAM or LAM.

Connect SimpleSoffit mains to the KAM (Fig 8) or LAM (Fig 9) as shown.



SimpleSoffit with KAM

(Fig 8)

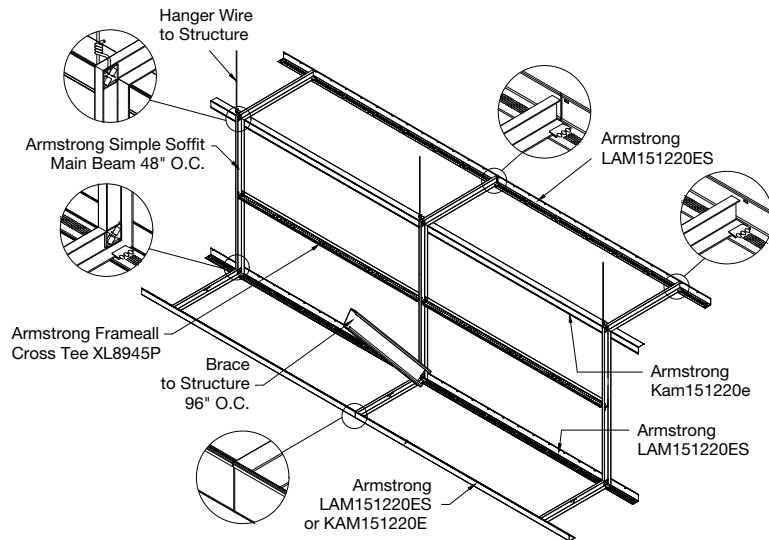


SimpleSoffit with LAM

(Fig 9)

Standard SimpleSoffit main spacing is 48" O.C. Product can be spaced up to 72" O.C. depending on the loading condition. Please consider loading when determining if 24", 36", 48", 60", or 72" cross tees should be used. (Fig 10)

Product should be braced to structure as needed or 96" O.C.

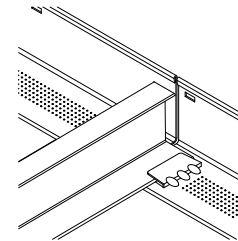


(Fig 10)

### 1.4.1 Using LAM 151220 ES for Soffits

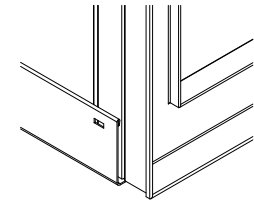
To Install the LAM "ES" Molding, align the edge of the molding with the center of the framing as shown on (Fig 12), the locks will click into the other framing members at 16", 24" or 48" O.C., as the desired intended spacing of the build, as shown on (Fig 11).

This molding allows the most efficient use of angle Molding as there is no unnecessary scrap and it allows for easier to allow prefabricated 12' soffit possibilities (Fig 13).



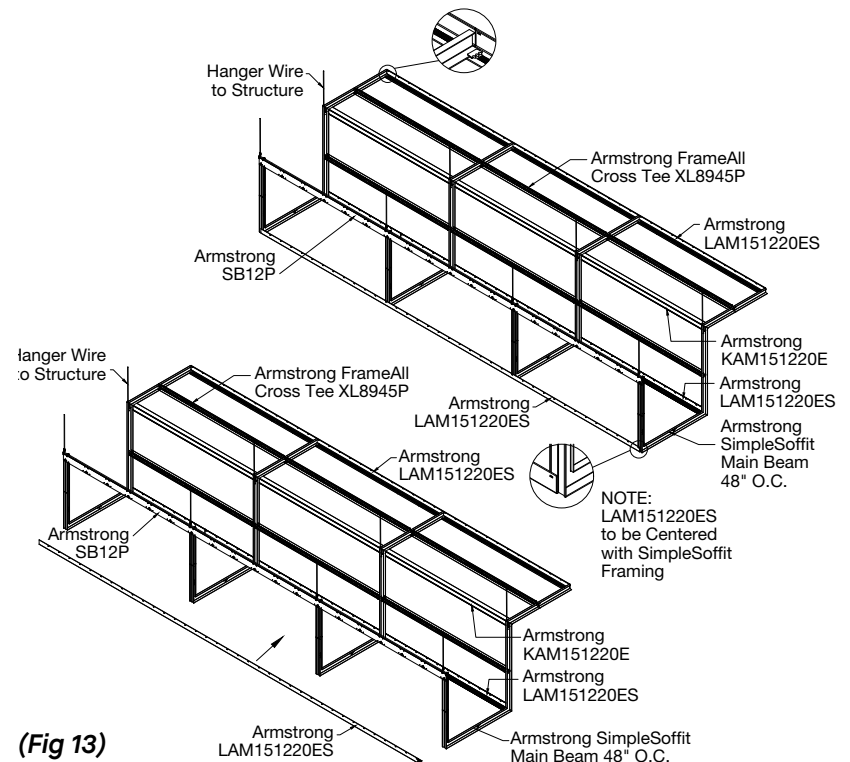
LAM for Soffits has the lock at the end

(Fig 11)



Align the LAM "ES" with the center of the framing

(Fig 12)



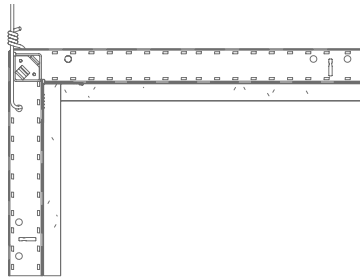
(Fig 13)

## 1.5 Product Attachment to Structure

Product must be supported to structure via hanger wire or bracing every 48" O.C. along the SimpleSoffit® main beam.

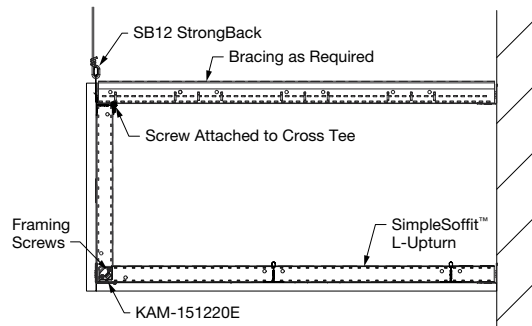
There are many different conditions and applications for SimpleSoffit. Please use this as a guideline. Choose the best option for your installation method.

For suspending soffit framing to structure – installation of wire should be on the vertical framing of the main runner where applicable. (Fig 14)

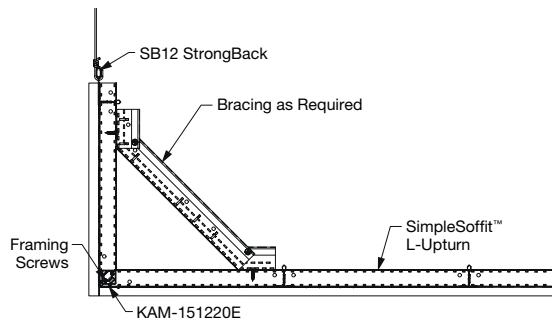


(Fig 14)

StrongBack can also be used. StrongBack™ screwed to SimpleSoffit framing every 48" is a solution for large plenum drops. (Figs 15 and 16)



(Fig 15)

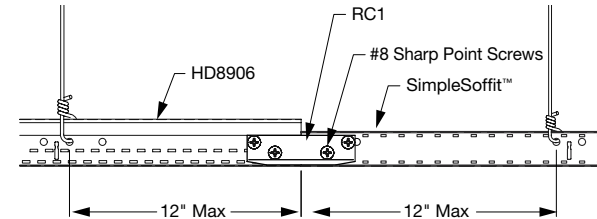


(Fig 16)

## 1.6 Accessories Attachments

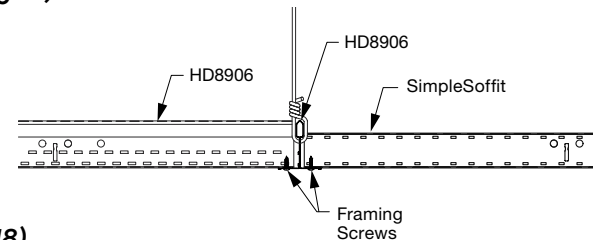
Product can be adapted to work seamlessly with standard Armstrong® Drywall Grid, transitions, light coves, and more.

For attachment to standard drywall grid, use the RC1. (Fig 17)



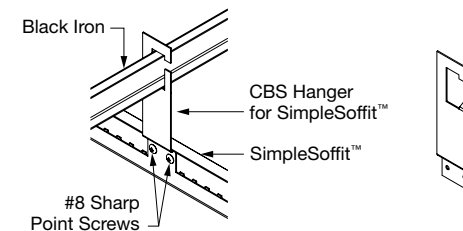
(Fig 17)

For additional attachment method splicing adjoining drywall main beams, use framing screws attaching components together as shown in (Fig 18).



(Fig 18)

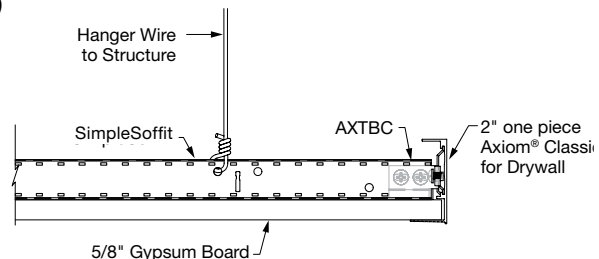
For attachment to structure via black iron and Channel Beam Support (CBS) hanger for SimpleSoffit® grid. (Fig 19)



(Fig 19)

For attachment of Axiom® for light cove and perimeter integration.

(Fig 20)



(Fig 20)

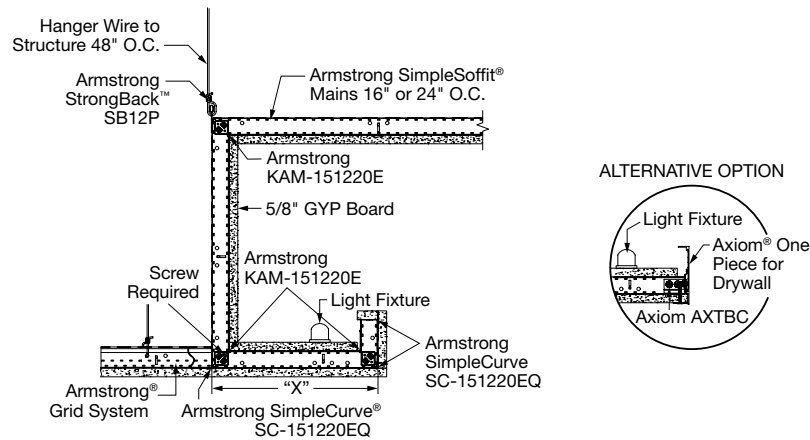
## 1.7 Light Cove Installation

Hanger wires must be installed at upper and lower corners. SimpleSoffit® main beam spacing may be no more than 48" O.C. Consider 24" O.C. spacing as loading increases.

See (Fig 21) for SimpleSoffit curved light cove detail and (Fig 22), (Fig 23), and (Fig 24) for SimpleSoffit straight light cove details.

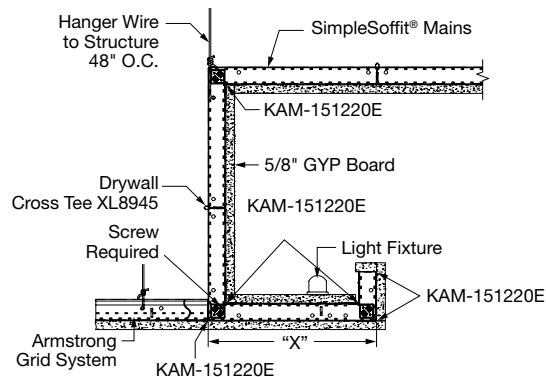
Two (2) min no. 7" × 7/16" framing screws must be installed at corners, (see (Fig 11) on pg. 4). Limiting criteria will be deflection at end of cantilever (see (Fig 19), where screw required is shown).

For cantilever distance, see [Technical Guide](#) for specific information.



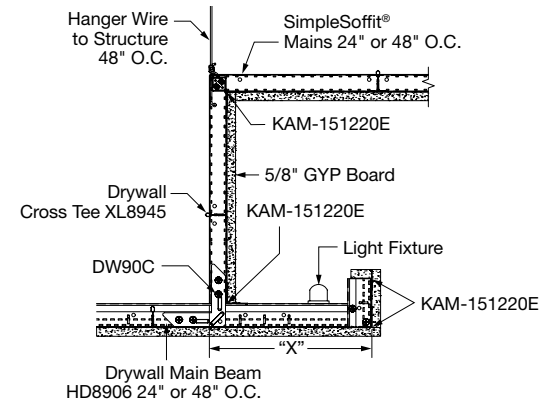
SimpleSoffit Curved Light Cove Detail

(Fig 21)



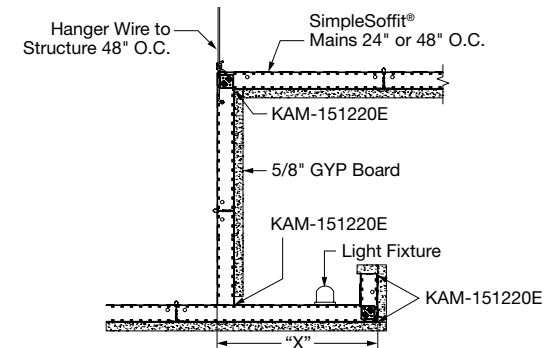
SimpleSoffit Straight Light Cove Detail

(Fig 22)



SimpleSoffit Straight Light Cove Detail

(Fig 23)



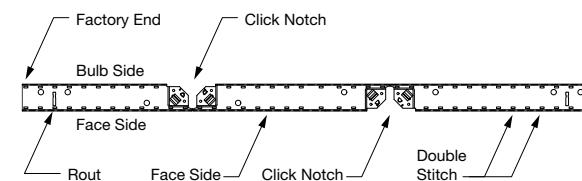
SimpleSoffit Straight Light Cove Detail

(Fig 24)

## 1.8 Product Considerations and Capabilities

Factory ends will be a minimum of 5-1/2" from first notch. If installation requires a dimension shorter than 5-1/2", it must be trimmed in the field.

Maximum 6 notches per main beam – combination of 3 bulb notches and 3 face notches. (Fig 25)



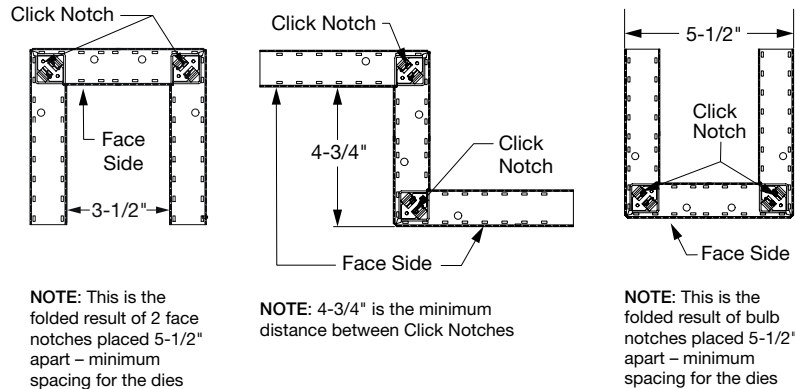
(Fig 25)

See **(Fig 26)** for the minimum bend dimensions achievable with the Click Notch. See **(Fig 27)** for the tighter bend dimensions achievable with the Screw Notch.

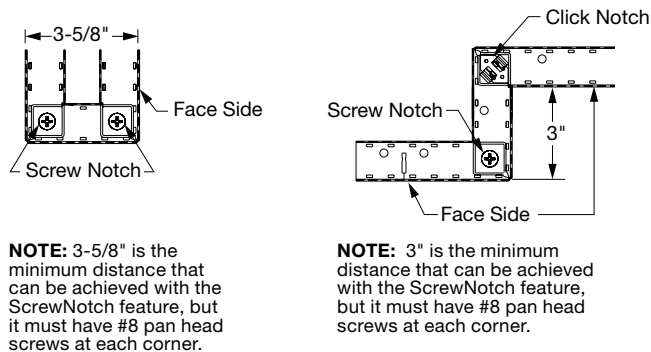
Maximum 6 rout holes may be placed on a SimpleSoffit® main beam – location to be specified by customer.

Reference **(Fig 26)** and **(Fig 27)** for the shortest distance between notches.

5-1/2" is the minimum distance notches when face is oriented outward. **(Fig 26)** 3-5/8" is the minimum distance that can be achieved with the Screw Notch feature, but it must have #8 pan head screws at each corner.



**(Fig 26)**



**(Fig 27)**

## MORE INFORMATION

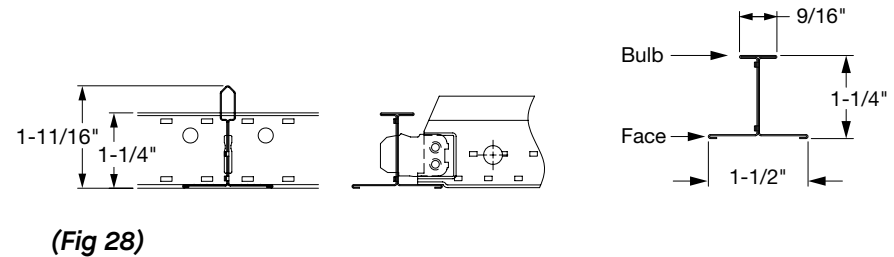
For more information, or for an Armstrong Ceilings representative, call 877 276-7876. For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 877 276-7876 or FAX 800 572-TECH. All trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.

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4-3/4" is the minimum distance between two notches with the bend and click feature. 3" is the minimum distance that can be achieved with the ScrewNotch feature, but it must have #8 pan head screws at each corner.

**NOTE:** Cross tee height is slightly taller than SimpleSoffit main beam height. **(Fig 28)**

Armstrong [AcoustiBuilt® Seamless Acoustical Ceiling System](#) can be installed on soffits of any size or angle. For acoustical benefit, AcoustiBuilt is recommended on soffits 36" or greater in height. Standard Drywall is recommended for soffits less than 36".



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