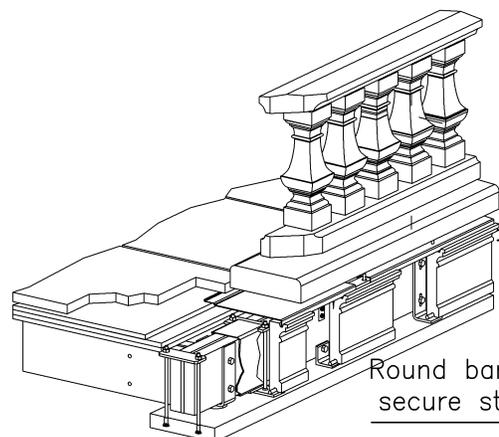


# Interface & attachment dwg for Solid Column to Wood Type Structure

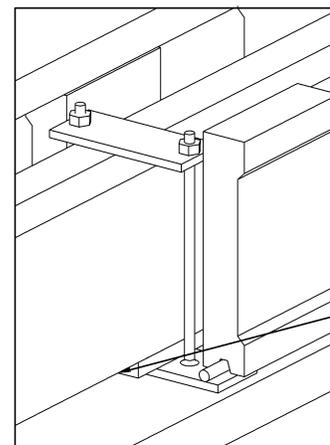
Note: The requirements for attaching stone to structures, varies among the different States. A certified engineer that is familiar with the Geologic Seismic & Climatic conditions of your area must determine the best method for attaching the stone to the structure. The stone supplier is not responsible for providing information on attachment methods and can only provide suggested attachment methods. These suggested methods are well known and have been used throughout the industry.



Round bar to secure stone

Use Pin to lock stone in place

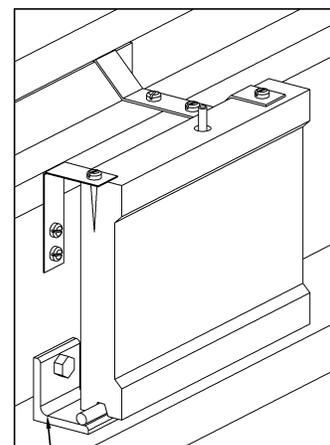
Adjustment slots



S  
H

1 Proposed Attachment [B]

1 Proposed Attachment [B]



Angle Iron Clip

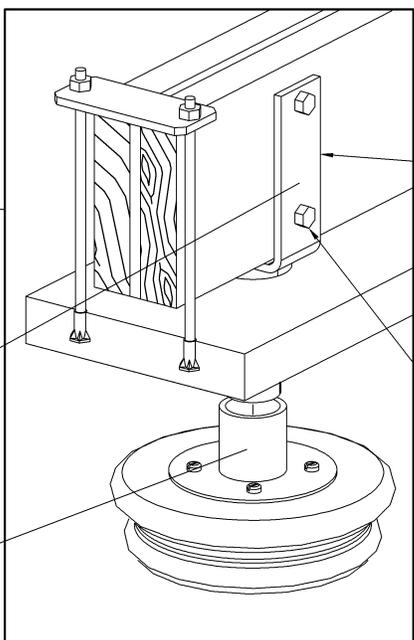
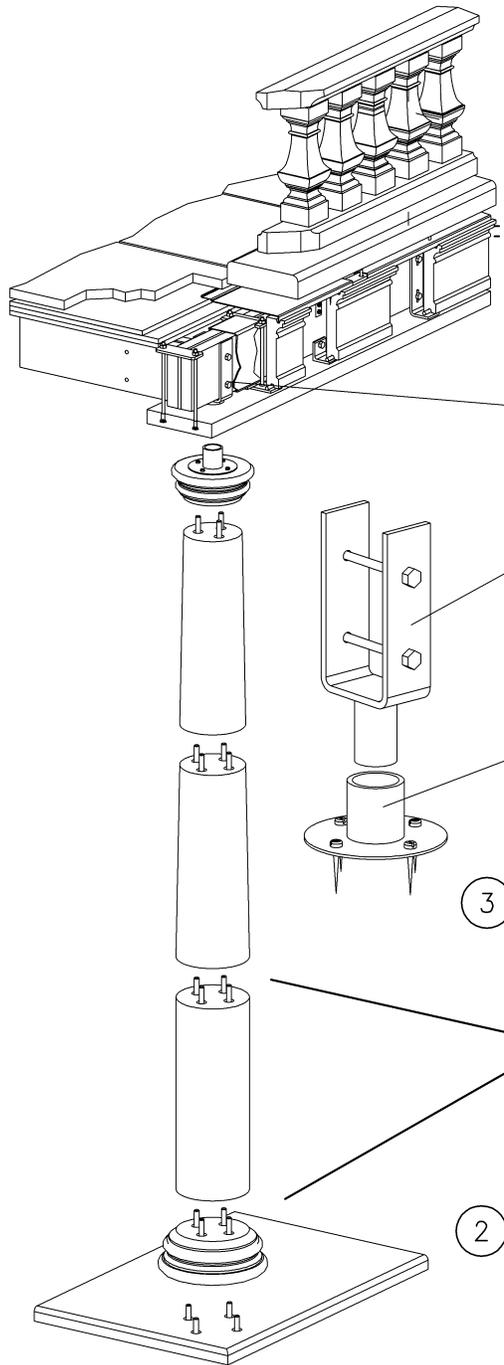
SCALE: NTS.

1 Column Assembly Exploded View

DEVELOPMENT DRAWING		TITLE: Interface/attachment dwg/Solid Column to Wood Beam																			
DRAWING DETAIL: Isometric																					
DESCRIPTION: Solid Column																					
NOTES:																					
<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>Type Drawing</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Interface &amp; Assembly methods</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Attachments</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Details</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Flashing</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Cutting Details</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Ball Code</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Measuring &amp; Dimensional Drawings</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Attached to TYPE structure</td> </tr> </table>		<input checked="" type="checkbox"/>	Type Drawing	<input checked="" type="checkbox"/>	Interface & Assembly methods	<input checked="" type="checkbox"/>	Attachments	<input type="checkbox"/>	Details	<input type="checkbox"/>	Flashing	<input type="checkbox"/>	Cutting Details	<input type="checkbox"/>	Ball Code	<input type="checkbox"/>	Measuring & Dimensional Drawings	<input checked="" type="checkbox"/>	Attached to TYPE structure	DATE: DRAWING #: COLSWBREV:	
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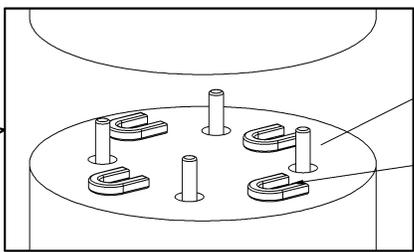
# Interface & attachment dwg for Solid Column to Wood Type Structure

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Support Beam as shown with U Bracket or similar. Allow enough clearance to prevent damage caused by expanding & contracting forces

3 Column to beam connection



Note: 3/8" Spacers between Stones

2 Column Stone to Stone Connection With pins

Typical example of attaching column with pins. Pins are app. 1/2" dia. x 3" Long. Drill holes large enough to allow mortar to secure pins.

1 Column Assembly Exploded View

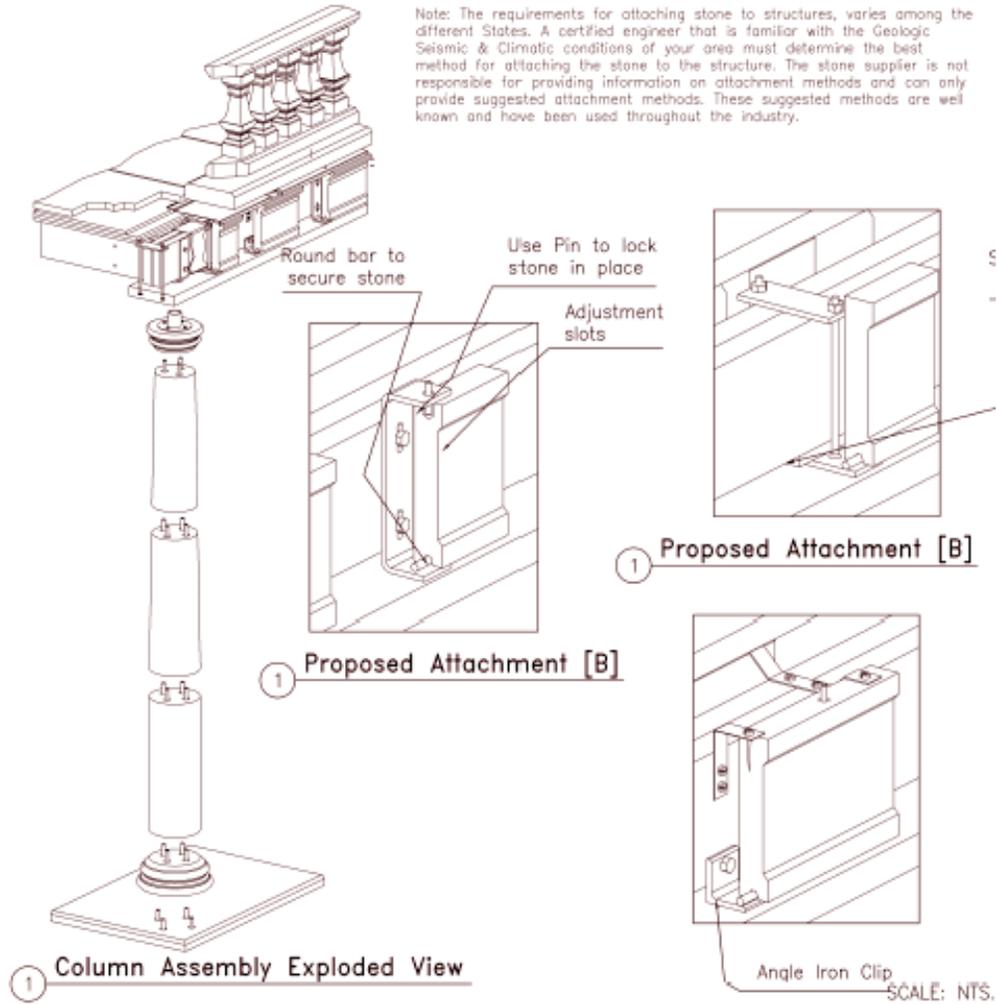
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<b>DEVELOPMENT DRAWING</b>	<b>TITLE: Interface/attachment dwg/Solid Column to Wood Beam</b>																			
DRAWING DETAIL: <b>Isometric</b>																				
DESCRIPTION: <b>Solid Column</b>																				
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	Type Drawing																			
<input checked="" type="checkbox"/>	Interface & Assembly methods																			
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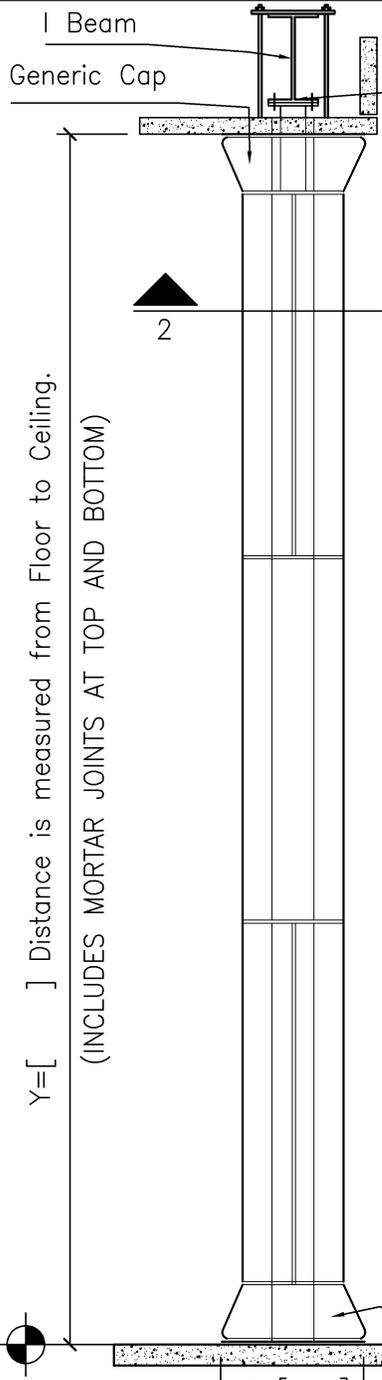
# Technical Information: Installation Details

For: Solid Column Installations for Standard Beam attachments.

Note: The requirements for attaching stone to structures, varies among the different States. A certified engineer that is familiar with the Geologic Seismic & Climatic conditions of your area must determine the best method for attaching the stone to the structure. The stone supplier is not responsible for providing information on attachment methods and can only provide suggested attachment methods. These suggested methods are well known and have been used throughout the industry.



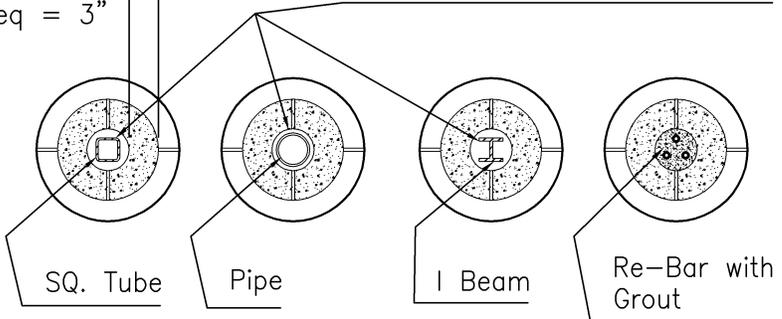
# Installation Guide/Hollow columns to steel structures



Note: Top Structure is carried by inner column. See Section ②

Min. stone thickness required = 2-1/2"  
Preferred stone thickness req = 3"

Min. clearance between stone & steel = 1/4"  
Preferred clearance between stone & steel = 3/8" to 1/2"



## ② Suggested Inner Column Structures

Note: The requirements for attaching stone to structures, varies among the different States. A certified engineer that is familiar with the Geologic Seismic & Climatic conditions of your area must determine the best method for attaching the stone to the structure. The stone supplier is not responsible for providing information on attachment methods and can only provide suggested attachment methods. These suggested methods are well known and have been used throughout the industry.

Hollow Cast Stone columns were not designed to carry structural loads. The load must be carried by an inner, (preferably steel) structure. Consult a Certified Engineer that is familiar with the Geologic Seismic & Climatic conditions of your area to determine the proper inner structure

Care should be taken to prevent the inside of the hollow column to touch the inner steel structure as condensation on the steel can run down the column and cause rust marks. It is advisable to paint the steel with a good rust prevention paint. Re-bar with a grout filling can be uses in cases where the load on top of the column is minimal.

Type Drawing	
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<input type="checkbox"/>	Attachments
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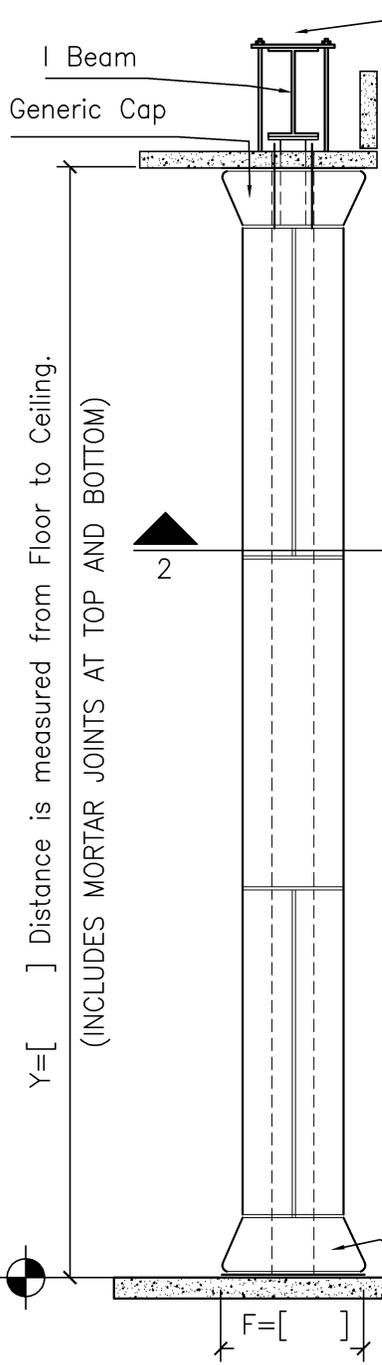
## ① General Column Dimensioning View

⦿ = 3/8" M.J.

SCALE: NTS.

DEVELOPMENT DRAWING	TITLE: Installation Guide/Hollow columns to steel structures
DRAWING DETAIL: MULTIVIEWS	
DESCRIPTION: Hollow Column	
NOTES:	
	DATE:
	DRAWING #: COLHS REV:

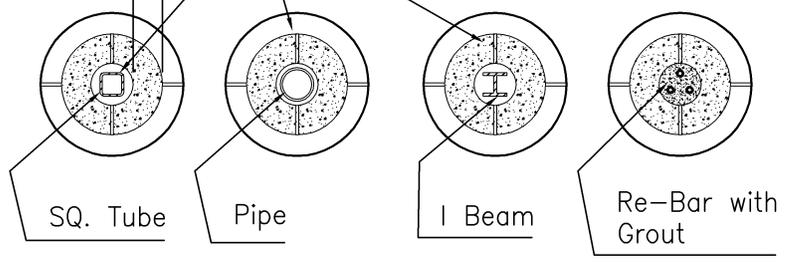
# Interface/Attachment dwg. Hollow Column to Internal Steel Structure using I Beams, Sq. tube, Pipe & Rebar with Grout



Note: Top Structure is carried by inner column. See Section ②

Min. stone thickness required = 2-1/2"  
 Preferred stone thickness req = 3"

Min. clearance between stone & steel = 1/4"  
 Preferred clearance between stone & steel = 3/8" to 1/2"



## ② Suggested Inner Column Structures

Note: The requirements for attaching stone to structures, varies among the different States. A certified engineer that is familiar with the Geologic Seismic & Climatic conditions of your area must determine the best method for attaching the stone to the structure. The stone supplier is not responsible for providing information on attachment methods and can only provide suggested attachment methods. These suggested methods are well known and have been used throughout the industry.

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Care should be taken to prevent the inside of the hollow column to touch the inner steel structure as condensation on the steel can run down the column and cause rust marks. It is advisable to paint the steel with a good rust prevention paint. Re-bar with a grout filling can be uses in cases where the load on top of the column is minimal.

<input checked="" type="checkbox"/>	Type Drawing
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## ① General Column Dimensioning View

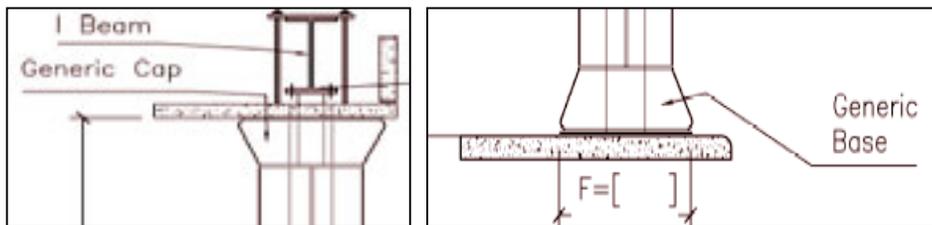
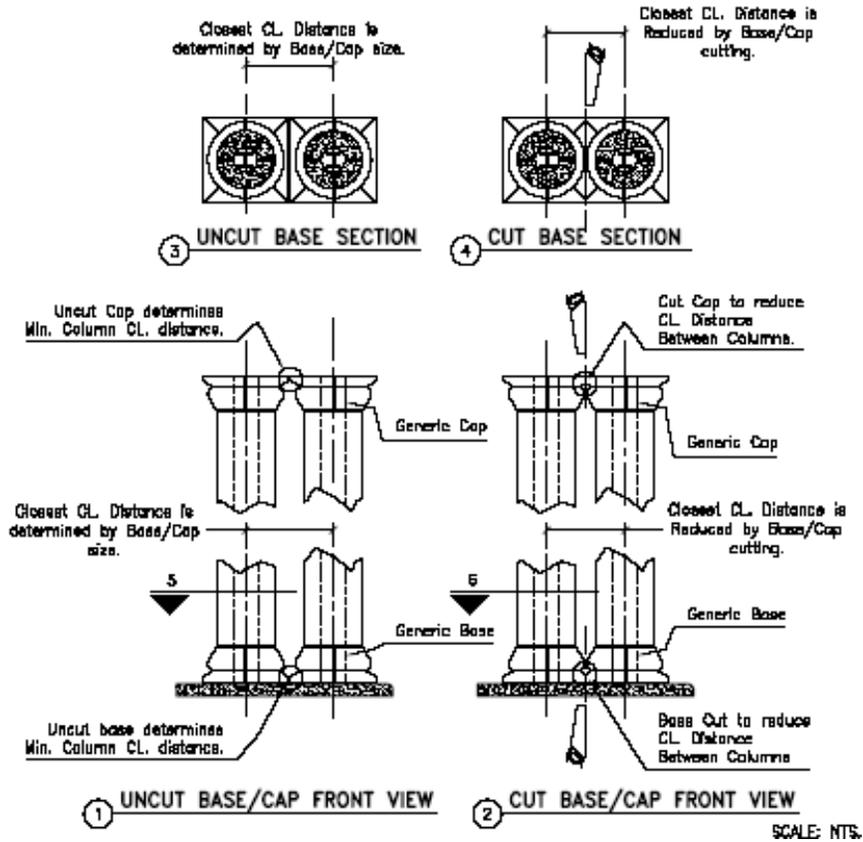
—●— = 3/8" M.J.

SCALE: NTS.

DEVELOPMENT DRAWING	TITLE: Installation Guide/Hollow columns to steel structures
DRAWING DETAIL: MULTIVIEWS	
DESCRIPTION: Hollow Column	
NOTES:	
	DATE:
	DRAWING #: COLHS2REV:

## Technical Information: Cutting Details

For: Column Base or Caps that require closer fitting.



Many columns are designed to be load bearing and support structures above that require both base and cap cutting to fit attachment assemblies or weld plates. See next pages Installation Information for more detailed explanations.