INSTALLATION MANUAL

For the most current release of this manual,
please visit our website at **cogan.com**

STEP 2
I-BEAM TO COLUMN

STEP 1
CHANNEL TO COLUMN

STEP 3
JOIST TO BEAM
AND BRIDGING

STEP 4
BRACES

STEP 5
ANCHORING
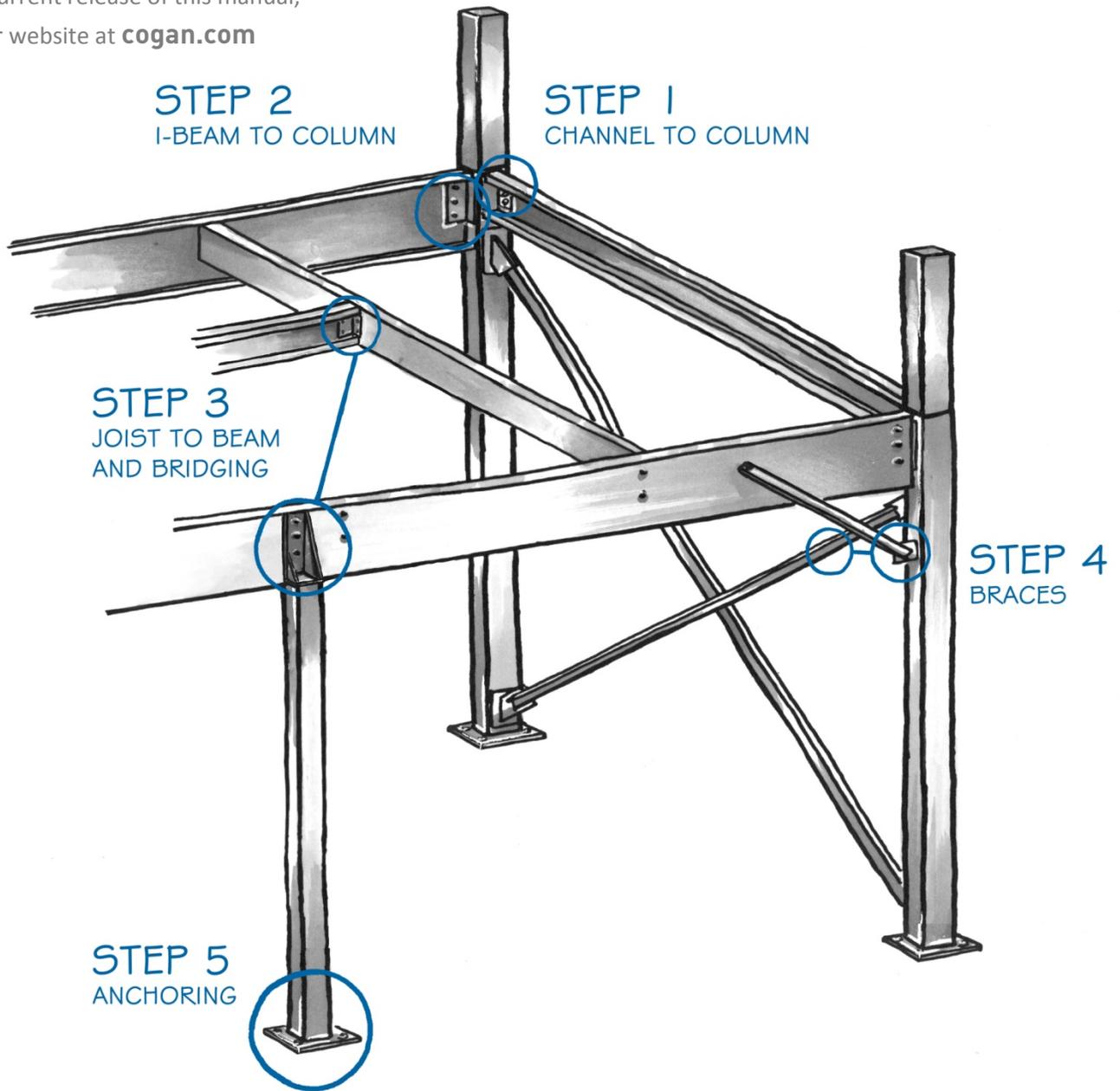
Product	Mezzanine
Sub-product	General structure

- All bolted connections.

- Step by step assembly for columns, beams, joists, bridging and braces.

- Refer to assembly drawing for additional details to your specific structure.

Cogan
Since 1901

A Tradition of Quality Since 1901

cogan.com

ø1/4"x1" HEX
HEAD TEK SCREW

ø5/8"x6" BOLT
(ANCHOR)

ø5/8"x2 1/4" BOLT
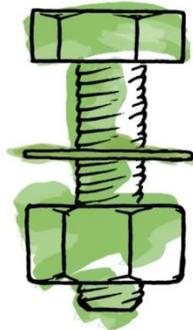
ø5/8"x1 3/4" BOLT
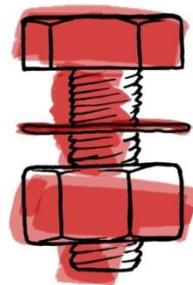
ø5/8"x1 1/4" BOLT

USE ASTM A325 STRUCTURAL BOLTS ONLY

STEP 1

CHANNEL TO COLUMN CONNECTION (SINGLE CHANNEL)

C8 - C10 - C12

⚠️ ASSEMBLE ACCORDING TO THE ORIENTATION INDICATED ON THE INSTALLATION PLAN

Channel   Connection plate

⚠️ On C8 only

2 1/2"

1 1/2"

1 1/2"

2 1/2"

ø5/8"x1 1/4"
bolts (1 washer)

Column

SIDE VIEW
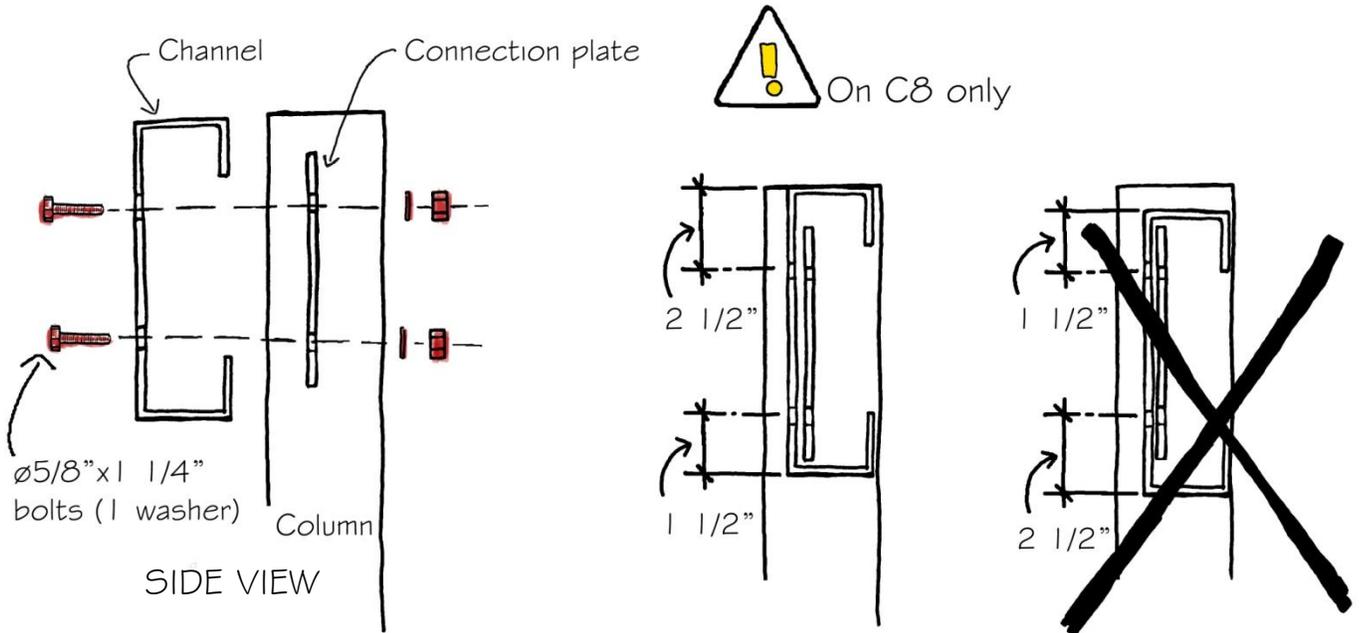
C14 - C16

⚠️ ASSEMBLE ACCORDING TO THE ORIENTATION INDICATED ON THE INSTALLATION PLAN

Connection plate

ø5/8"x1 1/4"
bolts(1 washer)
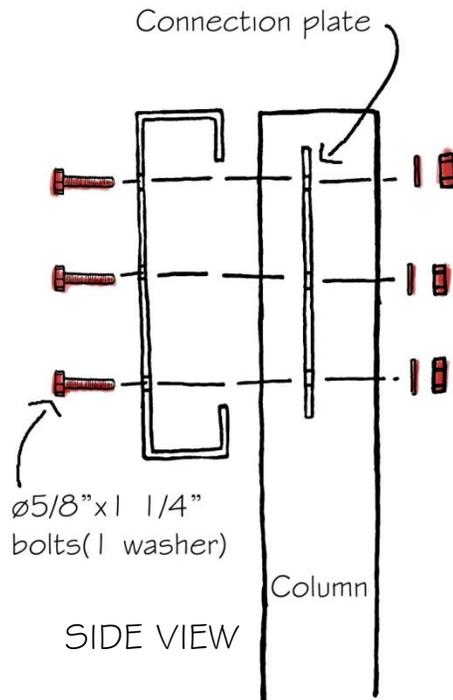
Column

SIDE VIEW

CHANNEL TO COLUMN CONNECTION (BACK TO BACK CHANNEL)

DC8 - DC10 -DC12

Channels

ø5/8"x1 3/4"
bolts(1 washer)

Connection plate

Column

SIDE VIEW

⚠ On C8 only

2 1/2"

1 1/2"

1 1/2"

2 1/2"

DC14 - DC16

Connection plate

ø5/8"x1 3/4"
bolts(1 washer)

Channels
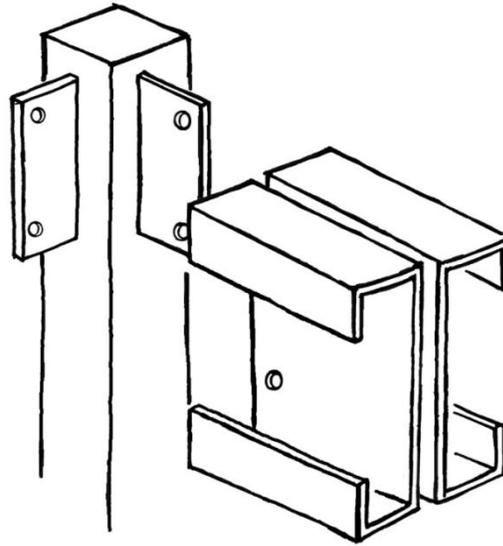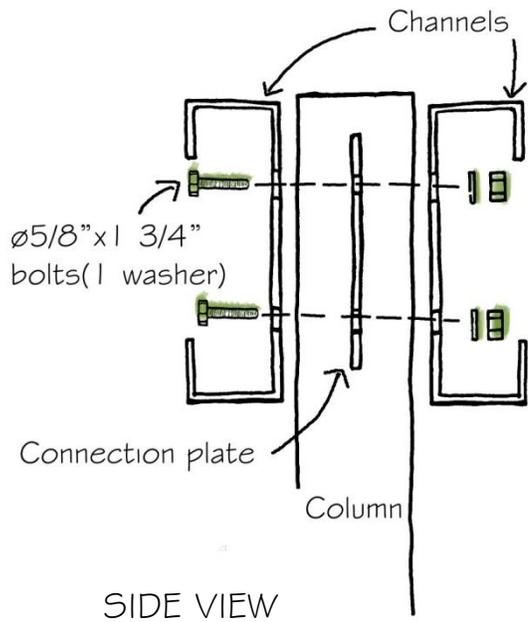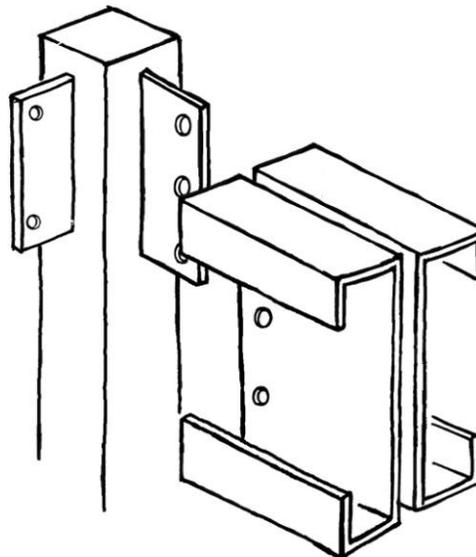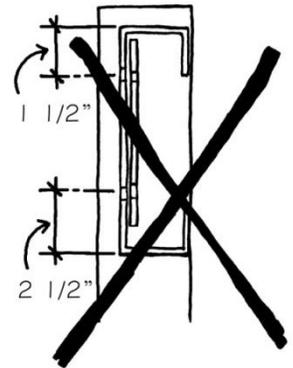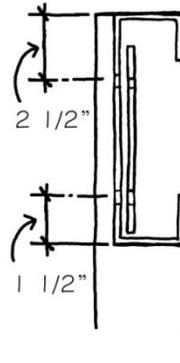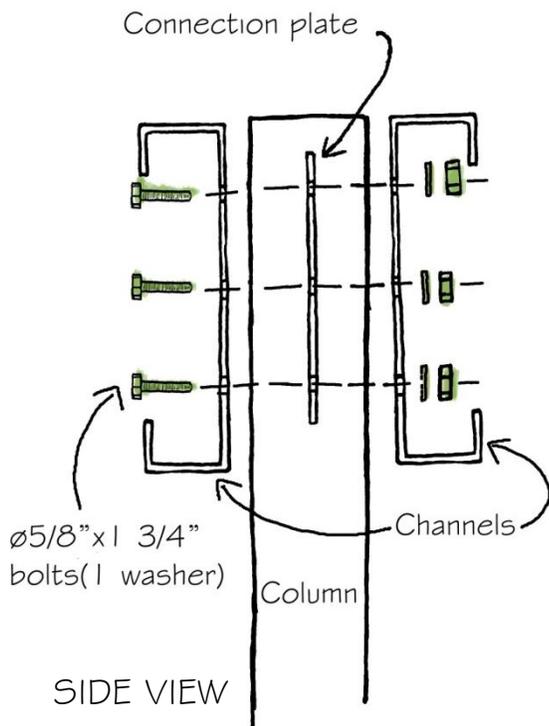
Column

SIDE VIEW

STEP 2

I-BEAM TO COLUMN CONNECTION (DOUBLE CONNECTION ANGLE)

⚠ ASSEMBLE ACCORDING TO THE ORIENTATION INDICATED ON THE INSTALLATION PLAN

''I'' Beam

or

ø5/8"x1 3/4"
bolts(1 washer)
(or 2 1/4" bolts)

Connection plate

Column

SIDE VIEW

Connection plate
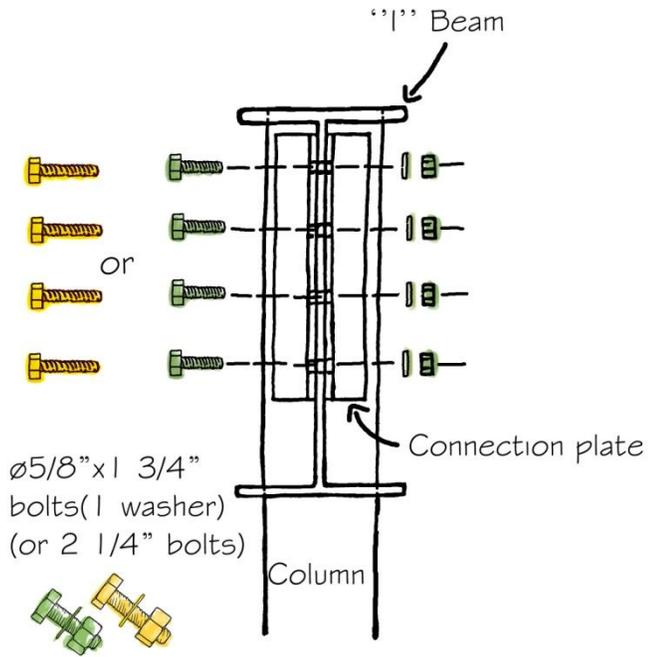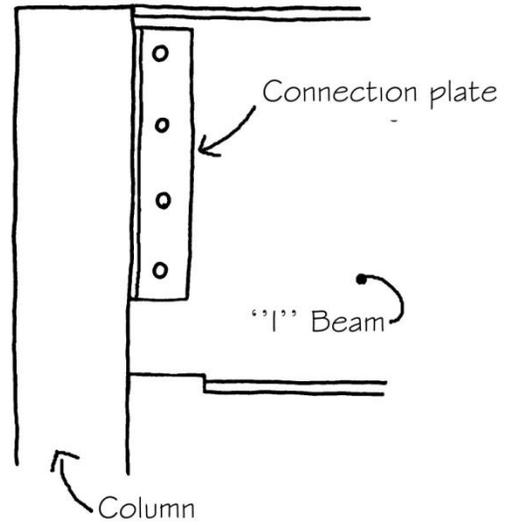
''I'' Beam

Column

FRONT VIEW
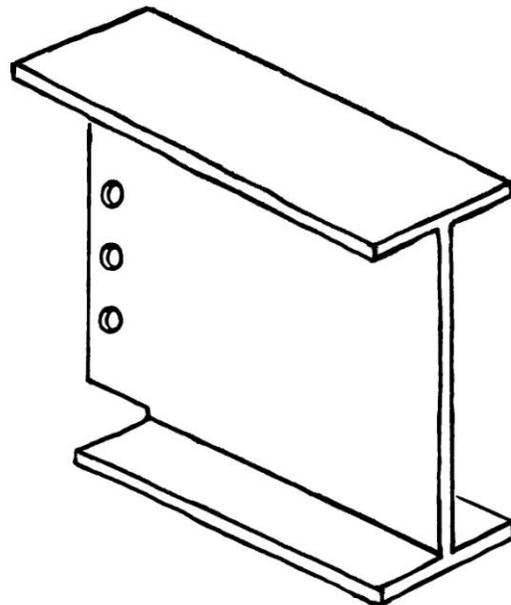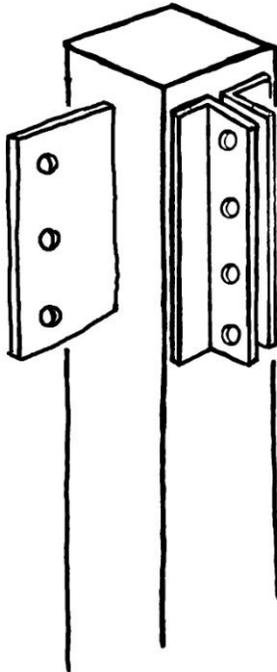
I-BEAM TO COLUMN CONNECTION (MOUNTED TO COLUMN TOP PLATE)

''I'' Beam

ø5/8"x2 1/4"
bolts (1 washer)

Top plate

Column

SIDE VIEW

ø5/8"x2 1/4"
bolts (1 washer)

Top plate

Column
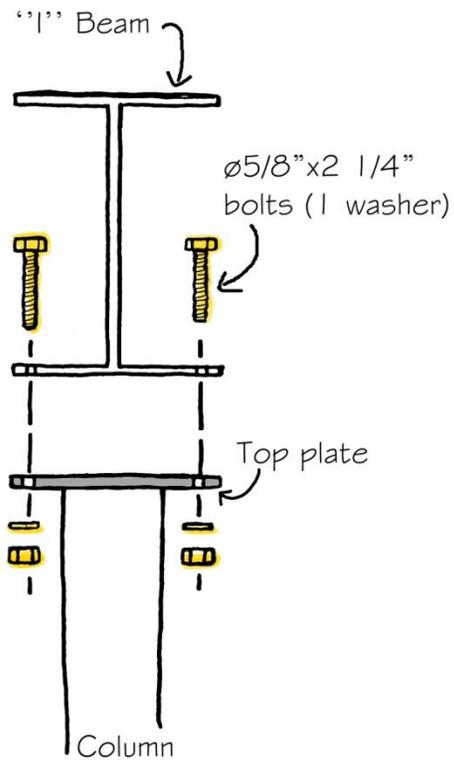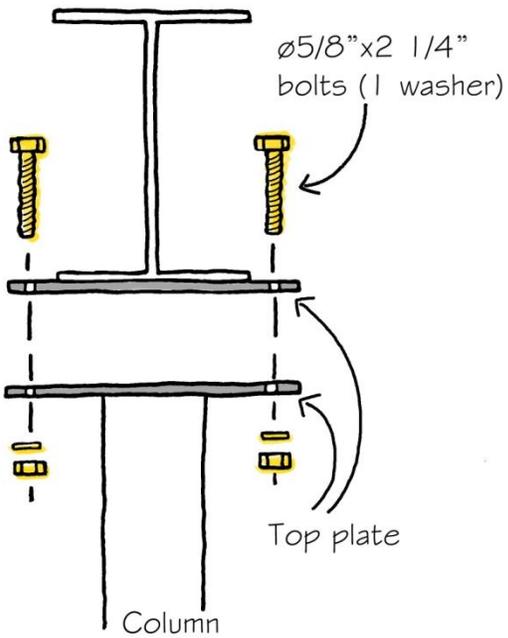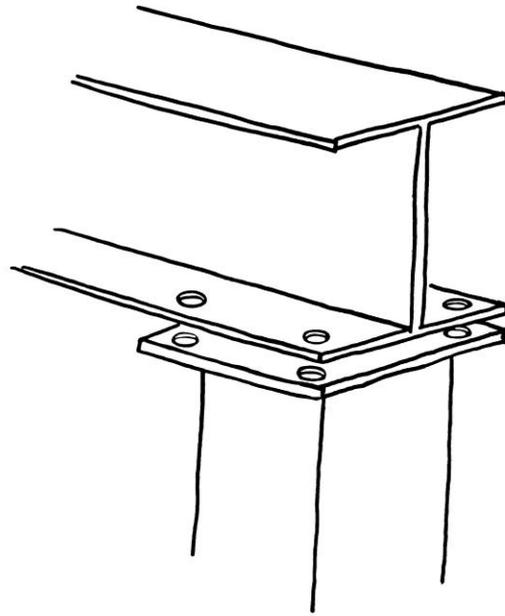
SIDE VIEW
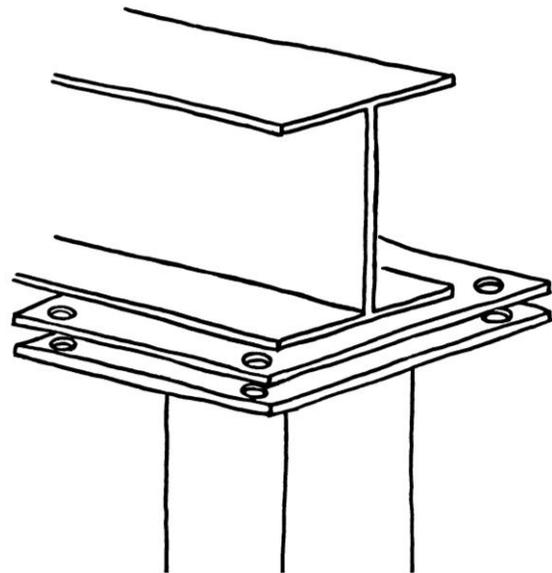
STEP 3

JOIST TO BEAM CONNECTION (CANTILEVER SINGLE CHANNEL ASSEMBLY)

C8 - C10 - C12

ø5/8"x1 1/4"
bolts (1 washer)

Channel

Column

SIDE VIEW

⚠ On C8 only

2 1/2"

1 1/2"

1 1/2"

2 1/2"

C14 - C16

ø5/8"x1 1/4"
bolts (1 washer)

Channel

Column

SIDE VIEW
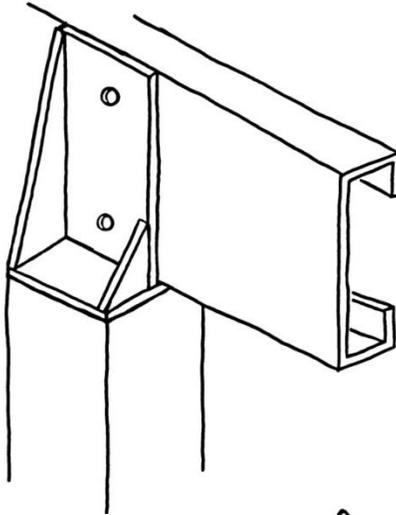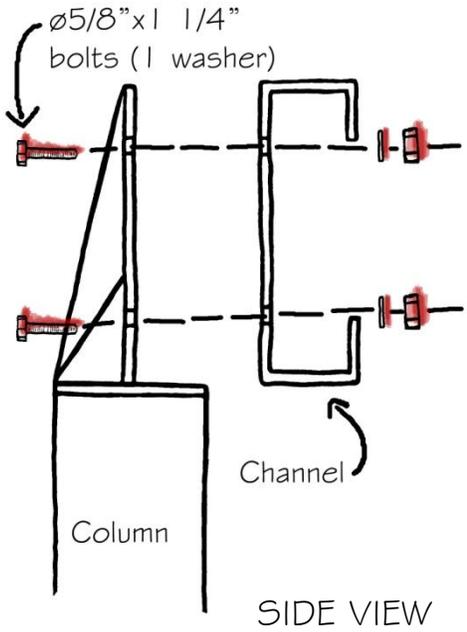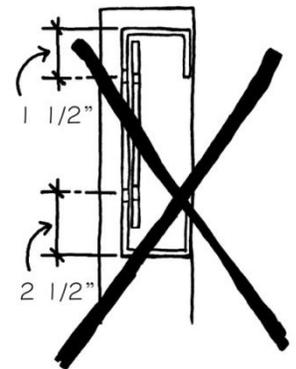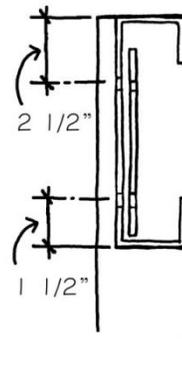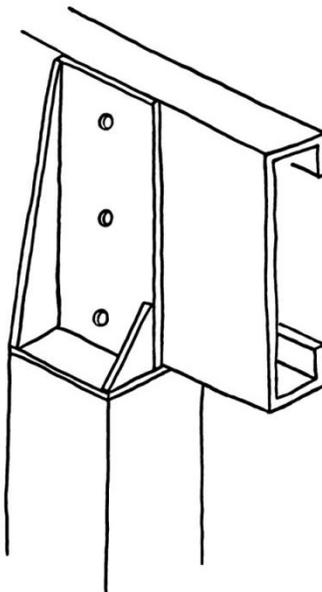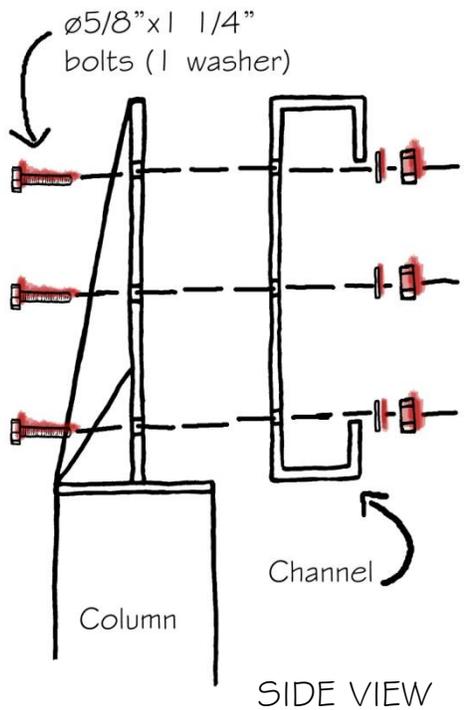
JOIST TO BEAM CONNECTION (CANTILEVER BACK TO BACK CHANNEL ASSEMBLY)
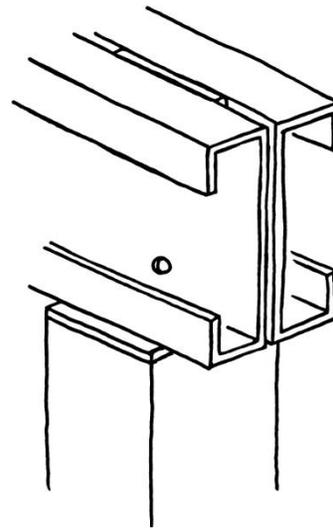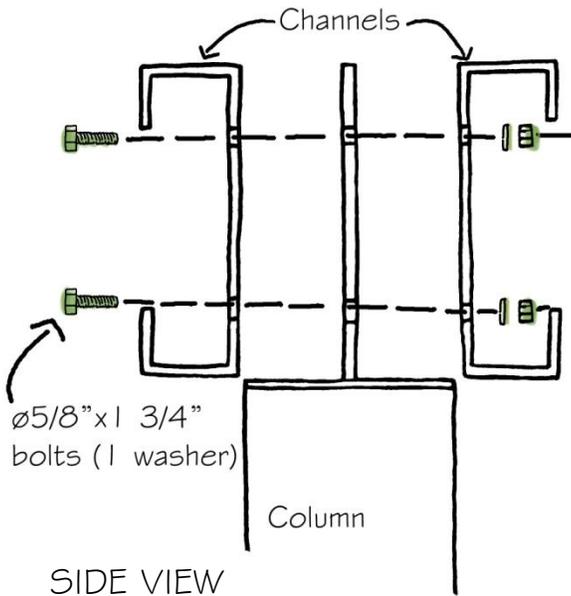
C8 - C10 - C12

Channels
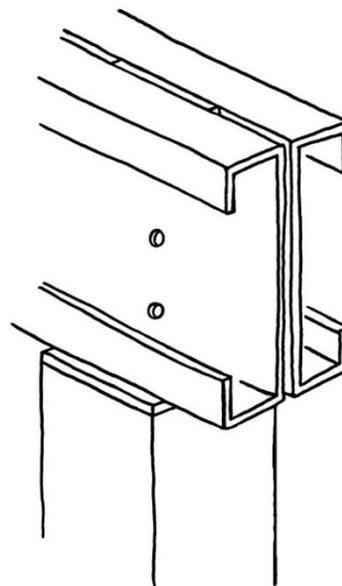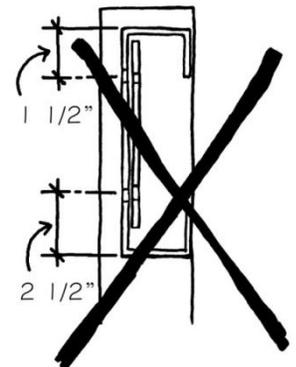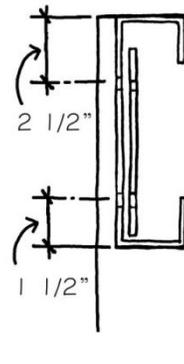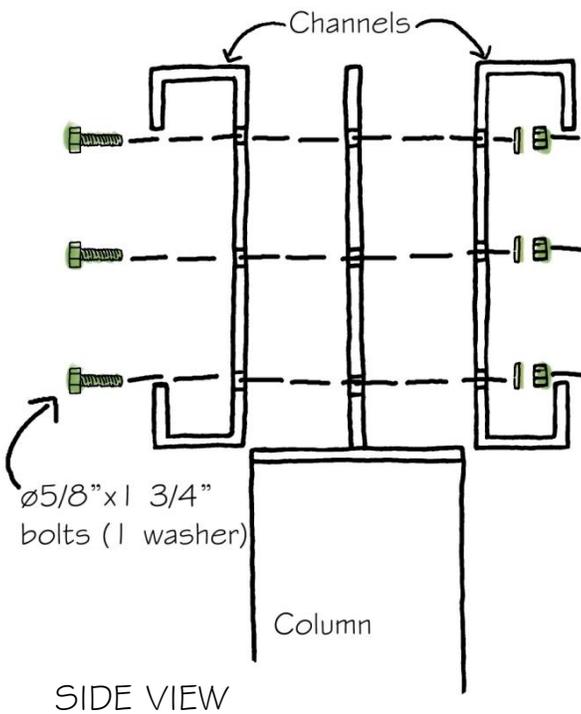
ø5/8"x1 3/4"
bolts (1 washer)

Column

SIDE VIEW

⚠️ On C8 only

2 1/2"

1 1/2"

1 1/2"

2 1/2"

C14 - C16

Channels

ø5/8"x1 3/4"
bolts (1 washer)

Column

SIDE VIEW

C8 - C10 - C12

ONE SINGLE CHANNEL TO SINGLE CHANNEL USING WEB ANGLE

ø5/8"x1 1/4" bolts

3 BOLTS WHEN USED WITH C14 OR C16

ø5/8"x1 1/4" bolts

ONE SINGLE CHANNEL TO BACK TO BACK CHANNELS USING WEB ANGLE
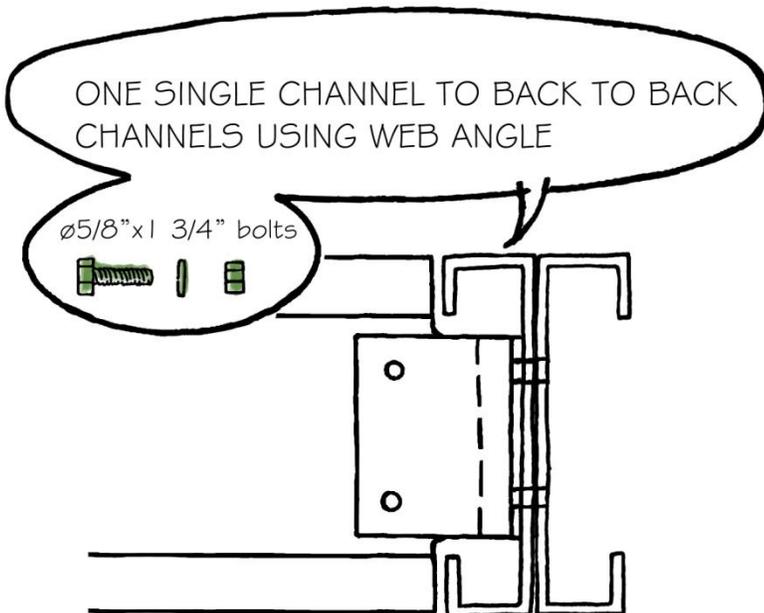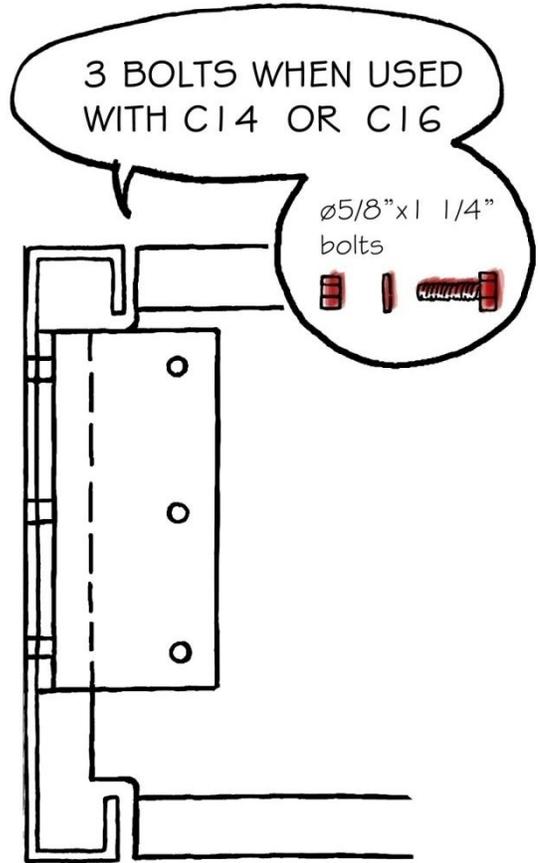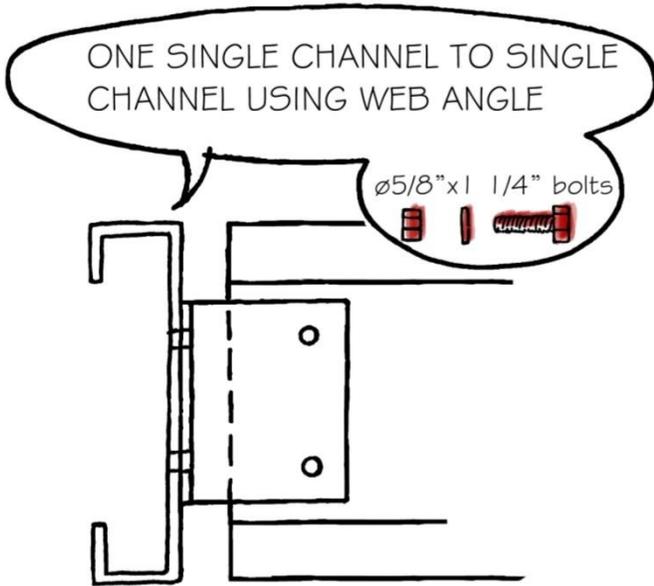
ø5/8"x1 3/4" bolts

JOIST TO BEAM CONNECTION (CHANNEL TO CHANNEL USING WEB ANGLE)

TWO SINGLE CHANNELS TO SINGLE CHANNEL USING WEB ANGLE
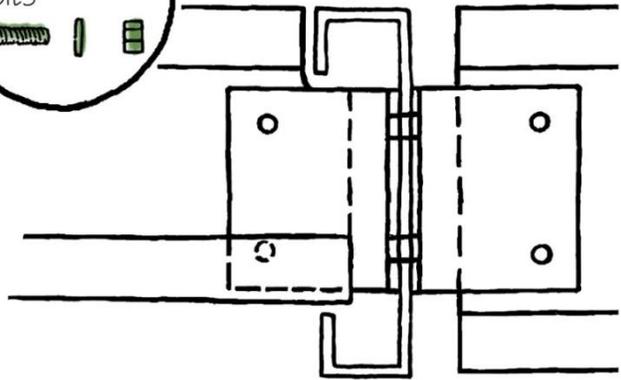
ø5/8"x1 3/4" bolts

TWO SINGLE CHANNELS TO BACK TO BACK CHANNELS USING WEB ANGLE

ø5/8"x1 3/4" bolts
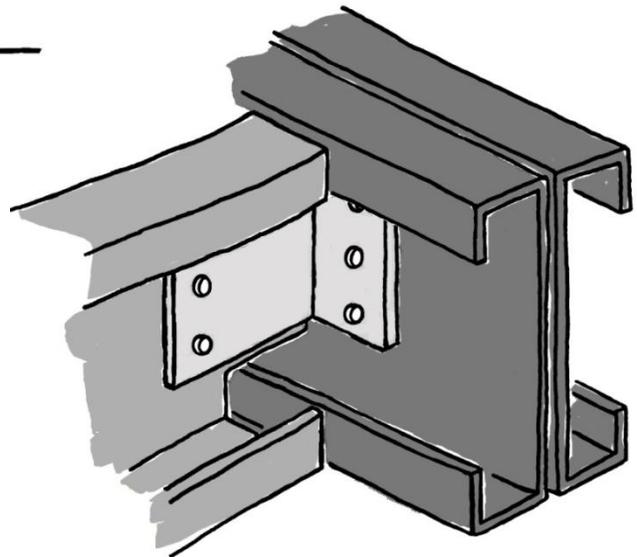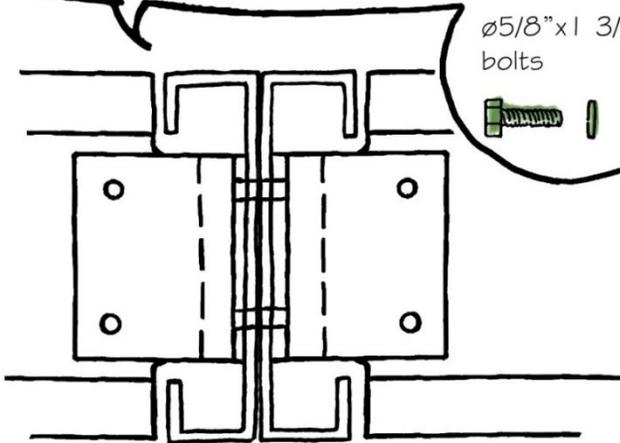
JOIST TO BEAM CONNECTION (CHANNEL TO CHANNEL USING WELDED CONNECTION PLATE)

SINGLE CHANNEL TO SINGLE CHANNEL
USING WELDED CONNECTION PLATE

ø5/8"x1 1/4" bolts
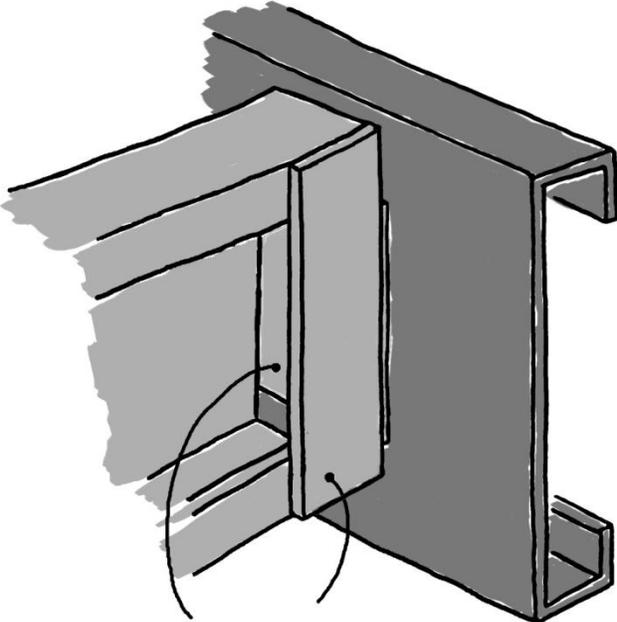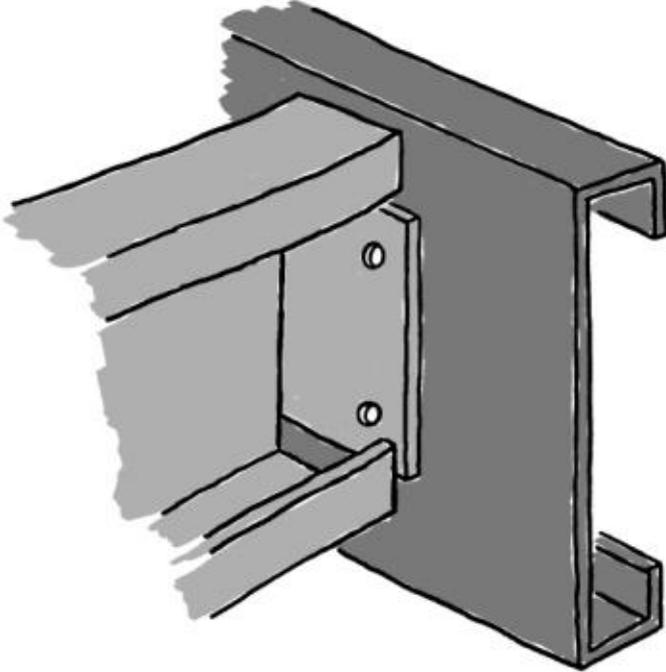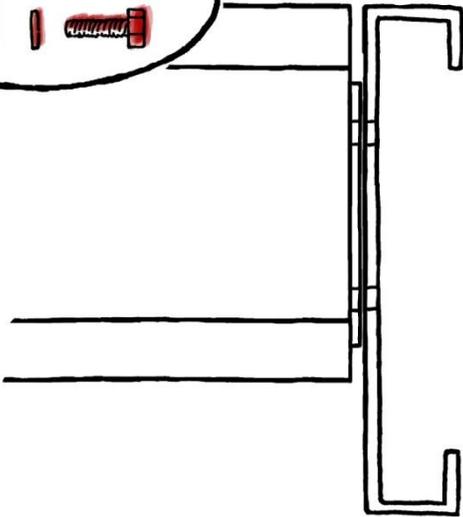
OPTION WITH WELDED
CONNECTION PLATE AND STIFFENER

JOIST TO BEAM CONNECTION (CHANNEL TO I-BEAM USING WEB ANGLE)

ONE SINGLE CHANNEL TO SINGLE I-BEAM USING WEB ANGLE
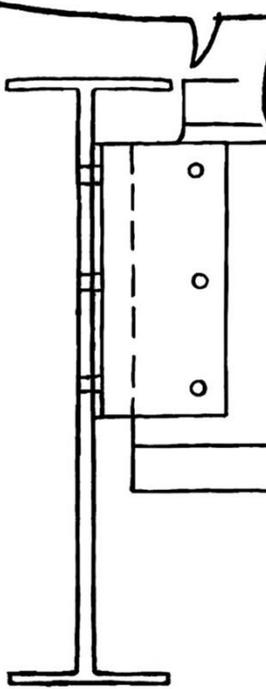
ø5/8"x1 3/4" bolts (or 2 1/4")
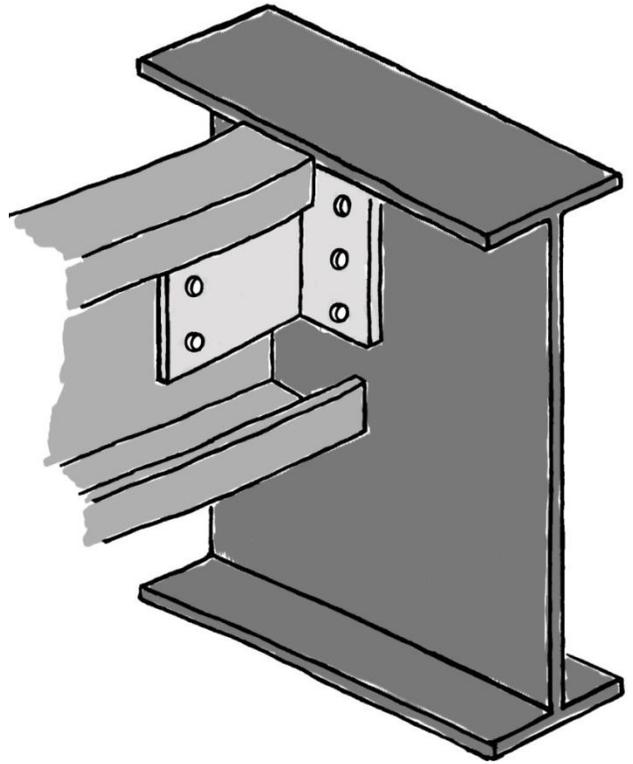
TWO SINGLE CHANNELS TO SINGLE I-BEAM USING WEB ANGLE
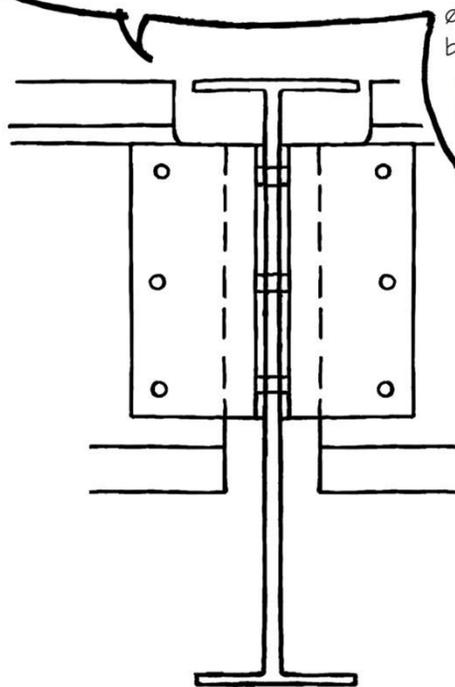
ø5/8"x1 3/4" bolts (or 2 1/4")

BRIDGING

⚠️ ASSEMBLE ACCORDING TO THE ORIENTATION INDICATED ON THE INSTALLATION PLAN

FLOORING

JOIST

BRIDGING

ø1/4"x1" hex head tek screw

=

CUT

FOLD

+
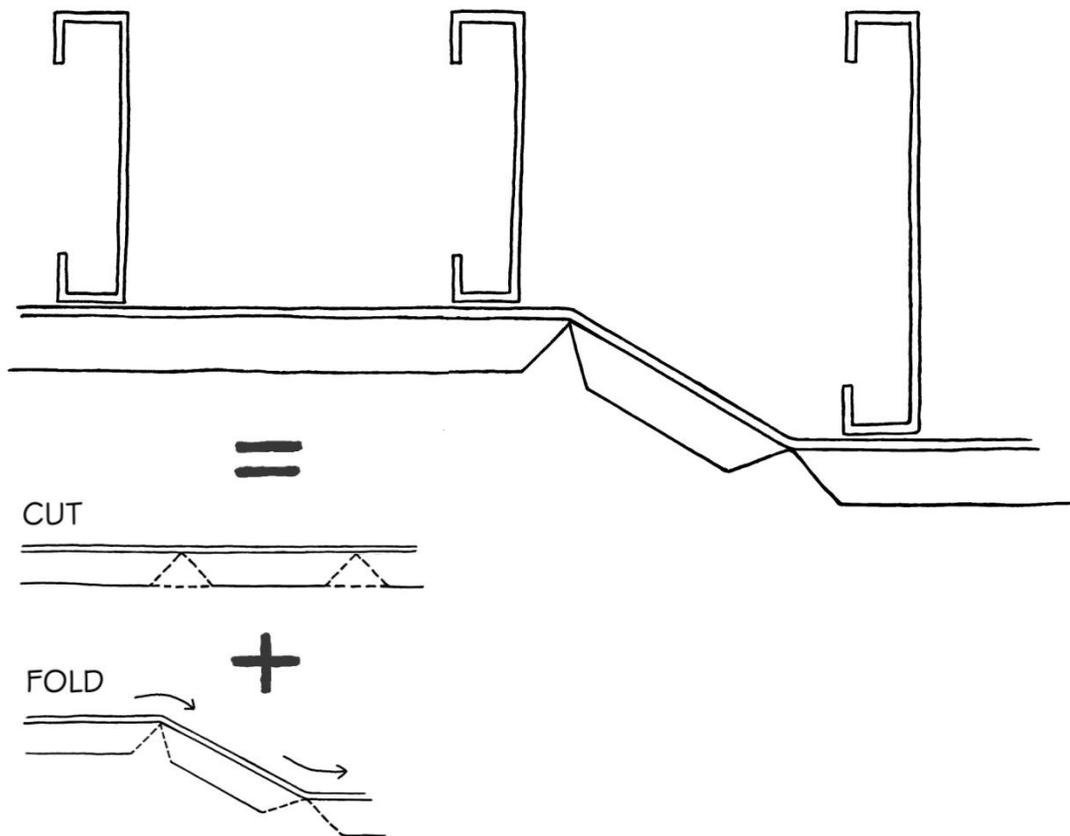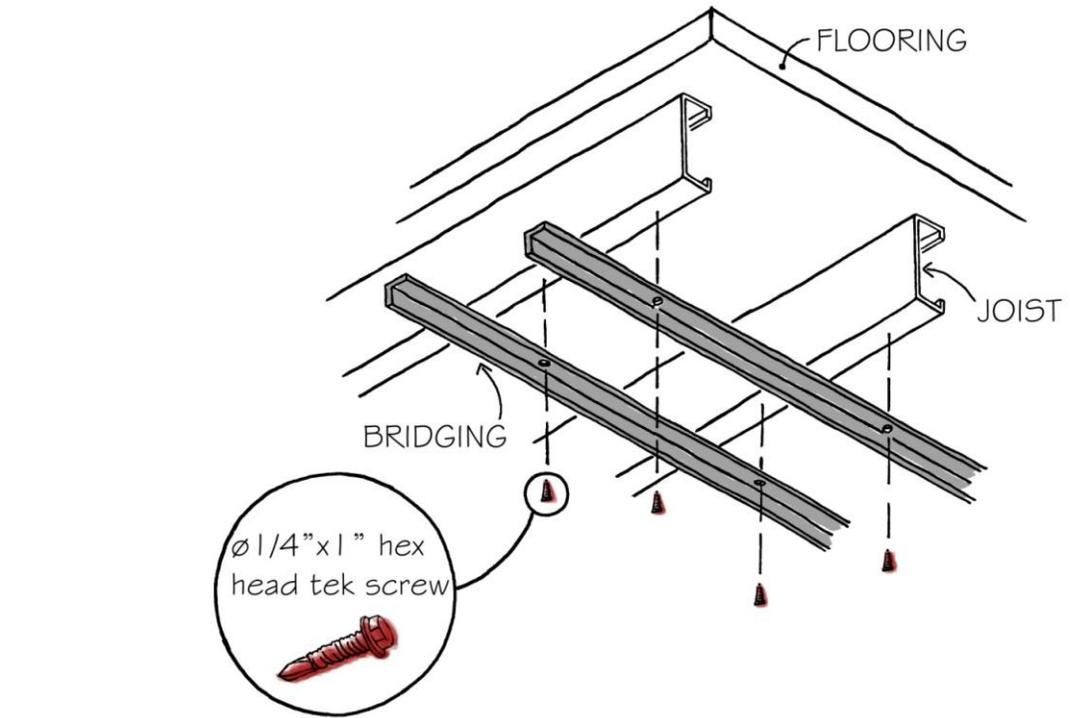
STEP 4

BRACES (KNEE BRACE TO SINGLE CHANNEL)

ø5/8"x1 1/4" bolts

WELDED PLATE
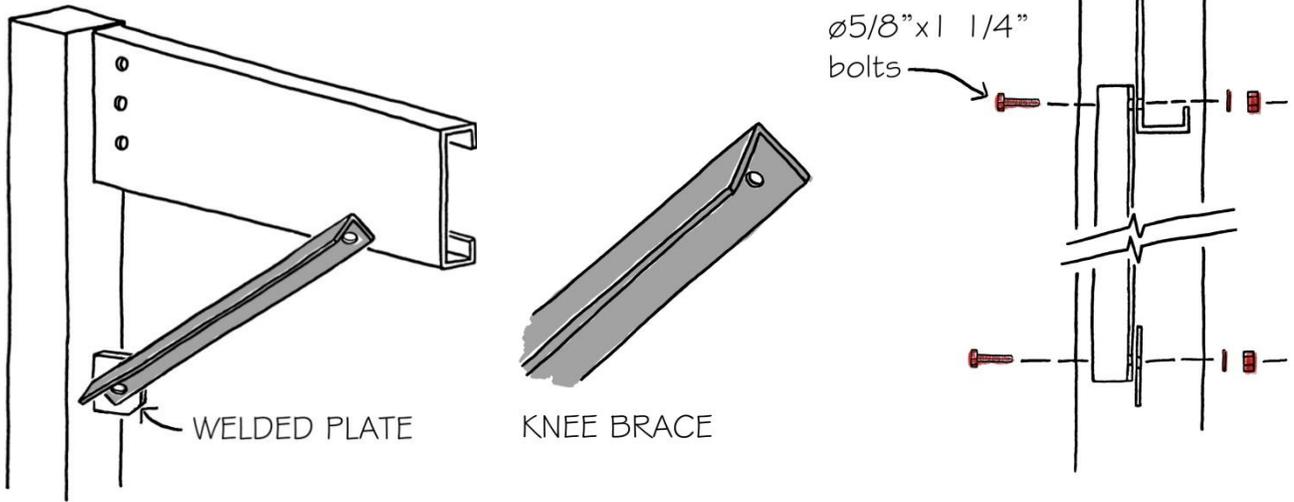
KNEE BRACE

BRACES (KNEE BRACE TO BACK TO BACK CHANNEL)

ø5/8"x1 3/4" bolts

ø5/8"x1 1/4" bolts

WELDED PLATE

NOTCHED KNEE BRACE
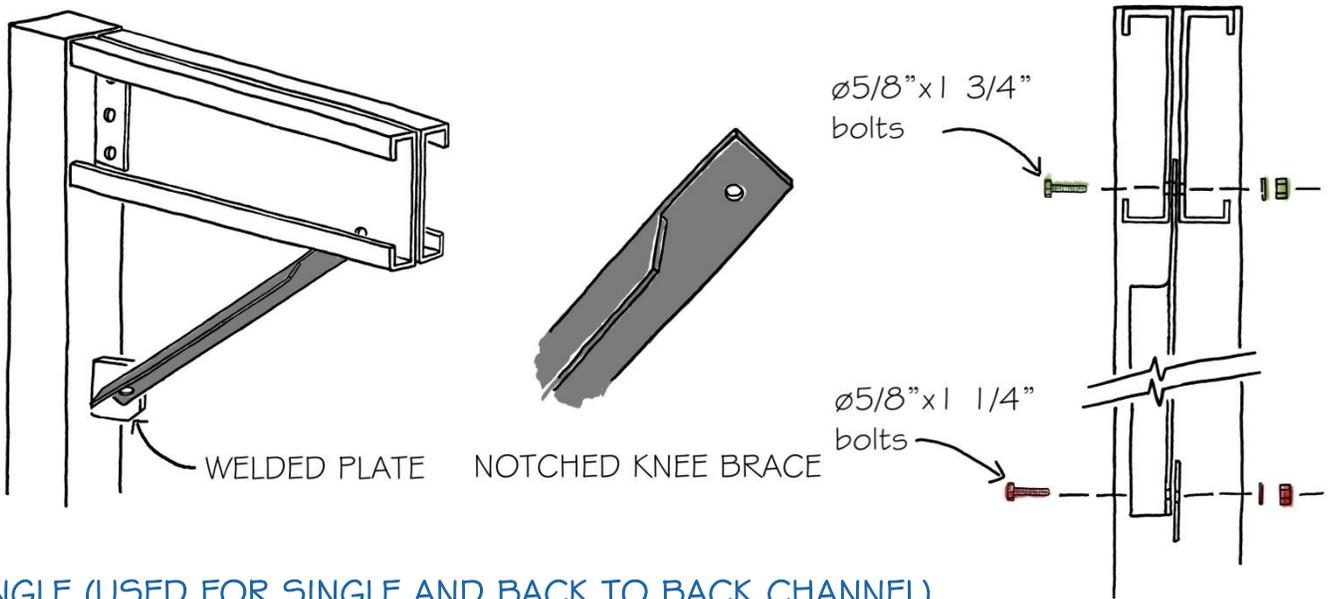
ANGLE (USED FOR SINGLE AND BACK TO BACK CHANNEL)

WELDED ANGLE

ø5/8"x1 1/4" bolts

BRACES (KNEE BRACE TO I-BEAM)

WELDED TAB

WELDED PLATE

KNEE BRACE

ø5/8"x1 1/4" bolts

BRACES (CROSS BRACE)

Fix both angles together with a ø5/8"x1 3/4" bolt

Install braces back to back

ø5/8"x1 3/4" bolts
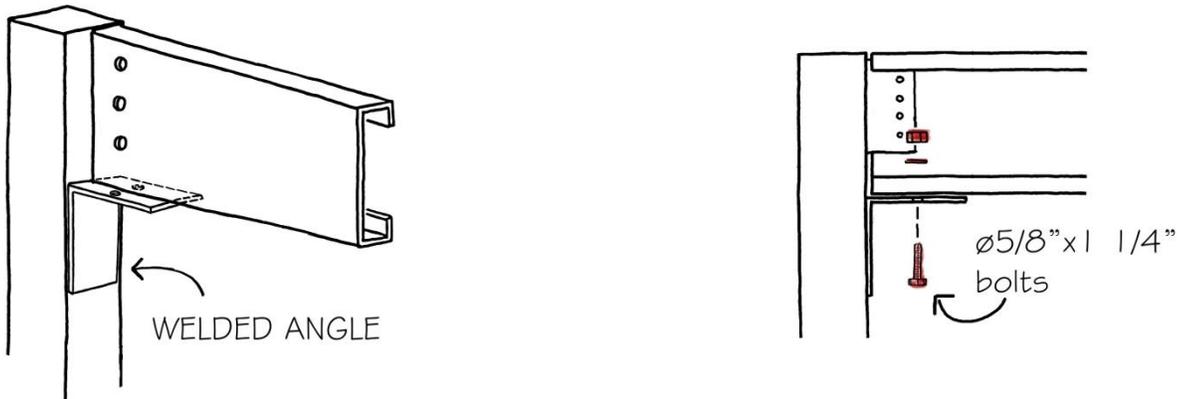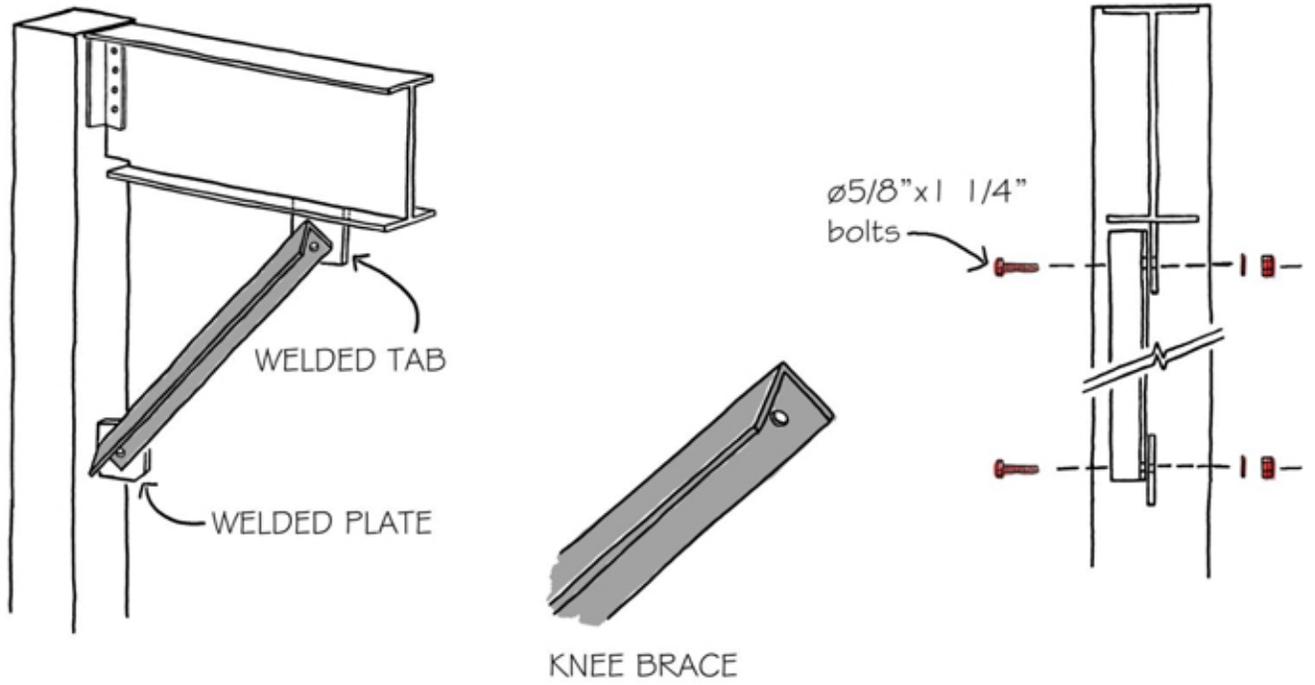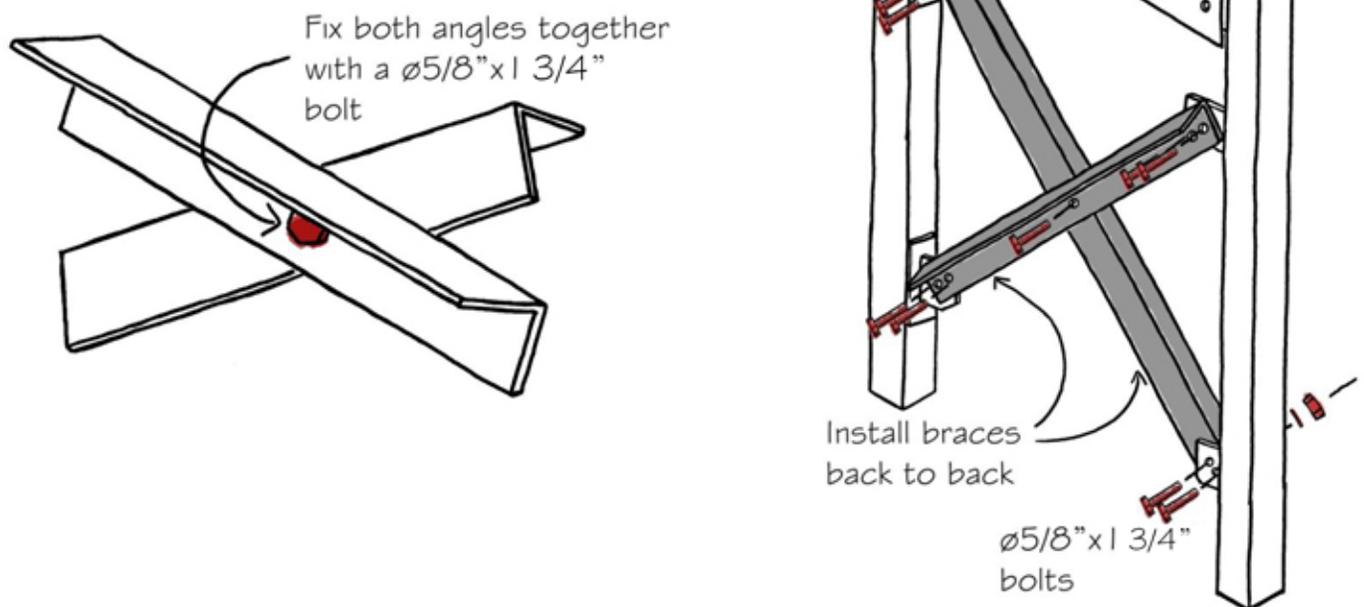
BRACES (DOUBLE CROSS BRACE)

ø5/8"x1 3/4" bolts

⚠️ Or as specified on your installation drawings (could be ø3/4"X1 3/4" bolts)

connection plate
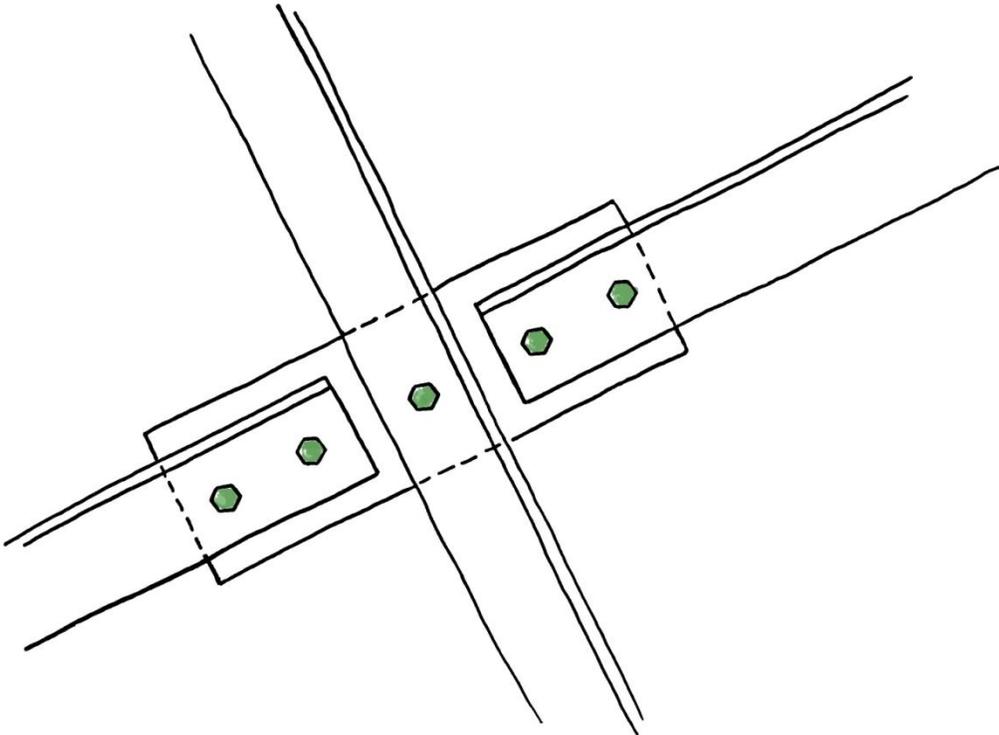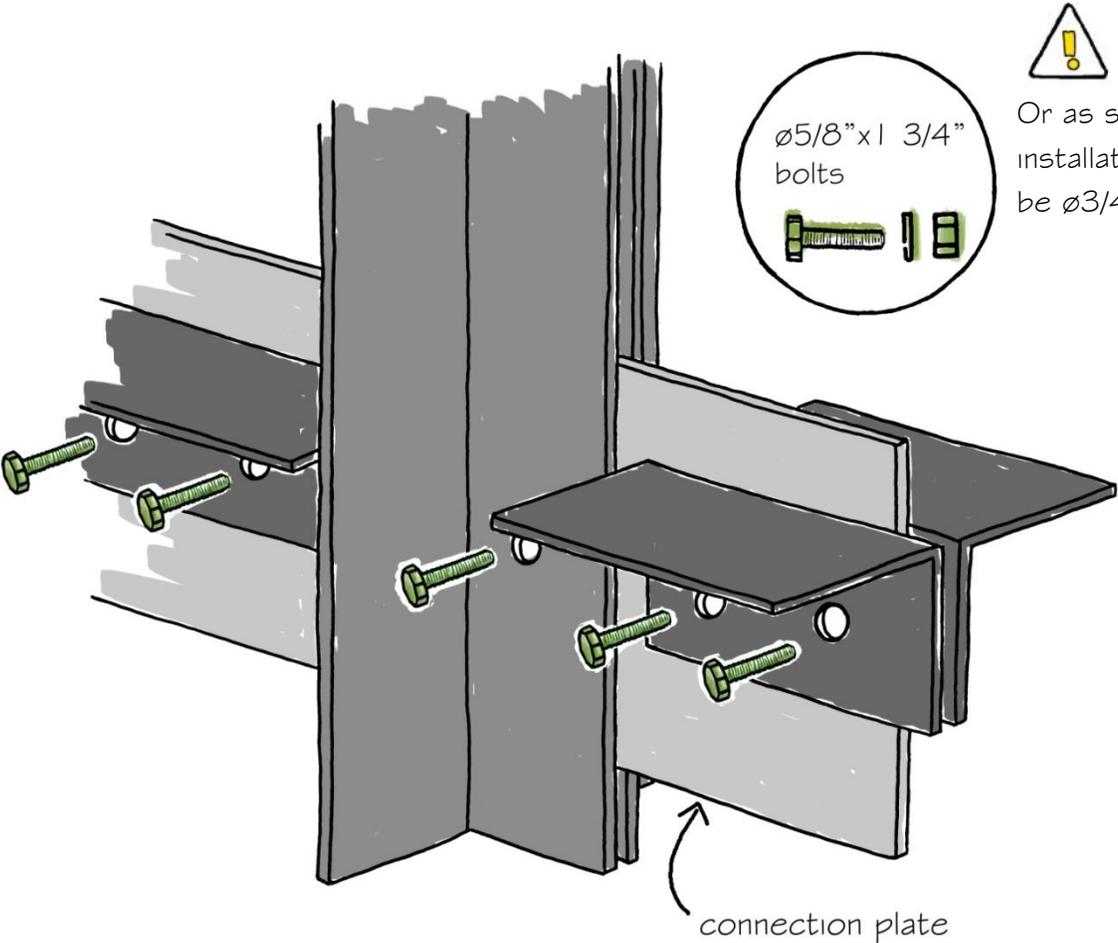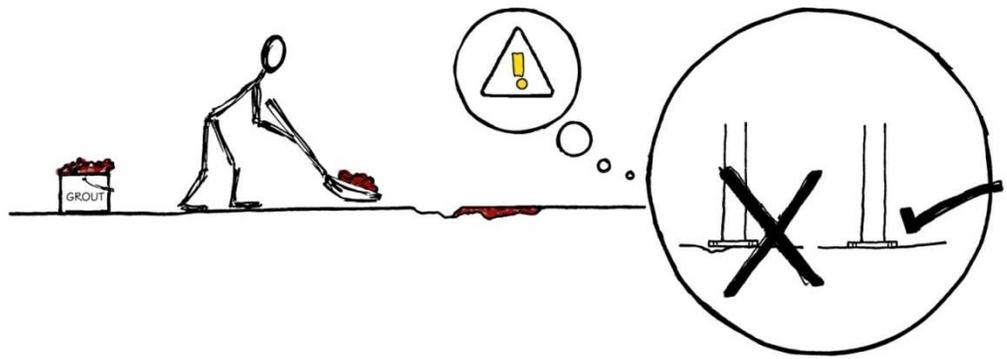
FOR ADEQUATE ANCHORING CONDITIONS, THE ENTIRE SURFACE OF THE BASE PLATE MUST BE IN CONTACT WITH THE CONCRETE SLAB. WHEN CONCRETE SLABS ARE UNEVEN OR UNLEVEL, NON-SHRINK GROUT MUST BE USED TO FILL UNDER BASE PLATES. SHIM PLATES ARE NOT PERMITTED.

Hammer drill a hole same nominal diameter and at least as deep as the lenght of anchors

Clean hole with blow out bulb
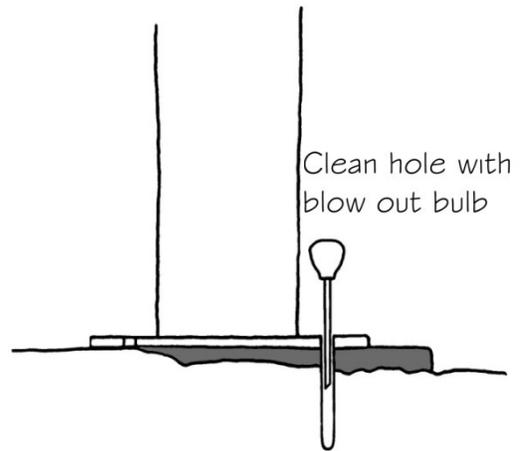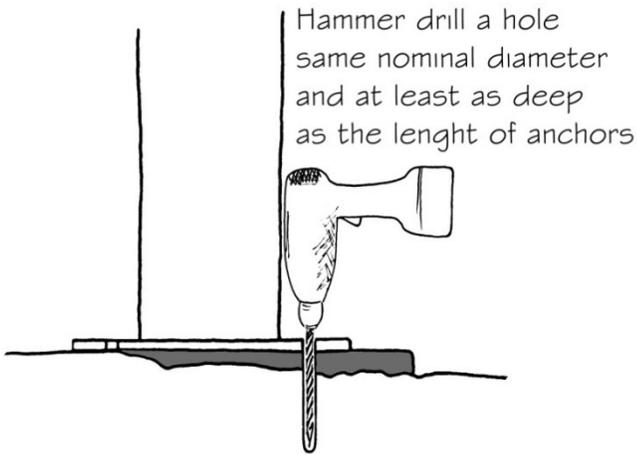
Drive the hilti bolt in the hole so that at least 6 threads are below the top surface of fixture. Then thighten to the recommended torque value to achieve proper anchor setting

gound level

4 1/2"min for 6" anchor bolts

ø5/8"x6" min bolts (anchors) are used for baseplates