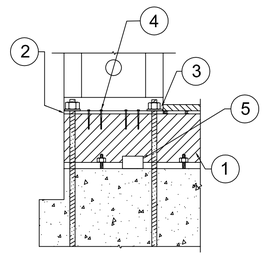
NOTE:
INSTALLATION WITHOUT *HARDY FRAME*® BEARING PLATE (HFXBP) RESULTS IN A DECREASE OF ALLOWABLE SHEAR VALUE. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS

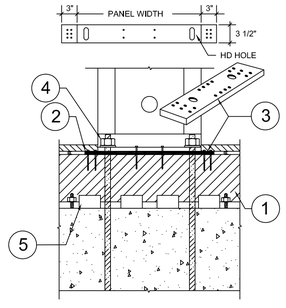
NOTE:
COUPLING NUTS MAY BE USED WHEN THREADED ROD IS SUBJECT TO TENSION LOADS ONLY.



1. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
2. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
3. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.
4. 1/4" x 4 1/2 (MIN) USP-WS SCREWS (OR EQUAL) THROUGH BOTTOM OF PANEL MIN QUANTITY PER TABLE.
5. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

RAISED-OS CORNER 4

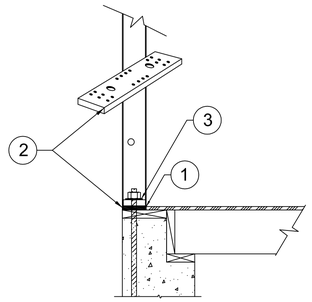
NOTE: COUPLING NUTS MAY BE USED WHEN THREADED ROD IS SUBJECT TO TENSION LOADS ONLY.



1. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
2. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
3. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
4. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT, SEE HFX1 FOR ANCHORAGE.
5. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

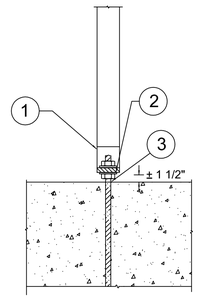
RAISED-BEARING PL 3

NOTE:
INSTALLATION WITHOUT *HARDY FRAME* BEARING PLATE (HFXBP) MAY INCREASE DEFLECTION AND RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUE. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS



1. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
2. ***HARDY FRAME*** BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
3. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT, SEE HFX1 FOR ANCHORAGE.

RAISED STEM WALL 2



1. ACCESS HOLE LOCATED AT EDGE OF POST.
2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT, SEE HFX1 FOR ANCHORAGE.
3. PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH MINIMUM 5,000 PSI STRENGTH NON-SHRJNK GROUT.

POST ON DBL. NUT 1

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter[1] (in)	Screw Quantity Panel	Top[2] (ea)	Bott[3] (ea)	Screw Qty[4] Available at Edges (ea)
HFX-12,15,18,21 & 24x8	92-1/4	3-1/2	1-1/8	12" Width	6	6	4
HFX-12,15,18,21 & 24x9	104-1/4			15" Width	8	8	
HFX-12,15,18,21 & 24x10	116-1/4			18" Width	10	10	5
HFX-15,18,21 & 24x11	128-1/4			21" Width	12	12	
HFX-15,18,21 & 24x12	140-1/4			24" Width	14	14	6
HFX-15,18,21 & 24x13	152-1/4						

NOTE: *HARDY FRAME*® "STK" WASHERS ARE REQUIRED IN THE TOP OF PANELS WHEN CONNECTING TO A HOLD DOWN ROD FROM ABOVE. *HARDY FRAME*® "STK PANELS" INCLUDE STK WASHERS PRE-WELDED IN THE TOP CHANNEL.

1) Hold down bolts specified as Standard Grade (STD) must comply with ASTM F1554 Grade 36 (or equal)
Hold down bolts specified as High Strength (HS) must comply with ASTM A 193 Grade B7 (or equal).
HD bolts (both grades) connect to the base of the Panel above with one Hardened Round, two Flat or two SAE Washers and a Grade 8 Hex Nut (or equal).
HD bolts (both grades) connect to the top channel of the Panel below with a ***Hardy Frame***® Stacking (STK) Washer (may be pre-welded in a ***Hardy Frame***® "STK" Panel), one Hardened Round, two Flat or two SAE Washers and a Grade 8 Hex Nut (or equal).
2) 1/4" diameter USP-WS Series screws (or equal). Length is 3" (minimum) when attaching directly to the collector and 4-1/2" (minimum) when installing a 2x filler above the Panel.
3) 1/4" diameter USP-WS Series screws (or equal). Length is 4-1/2" (minimum) through base of Panel and 3" (minimum) at ***Hardy Frame***® Bearing Plate (HFXBP).
4) 1/4" diameter screws are required at the edges when installing a 4x filler above or when specified by the Design Professional.

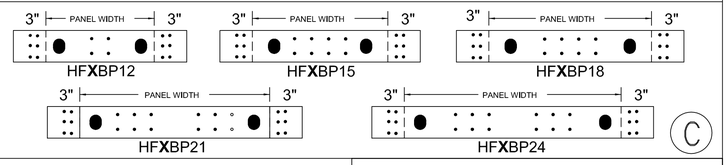
A

INSTALLATION ON FLOOR SYSTEMS WITH *HARDY FRAME*® BEARING PLATE (HFXBP)

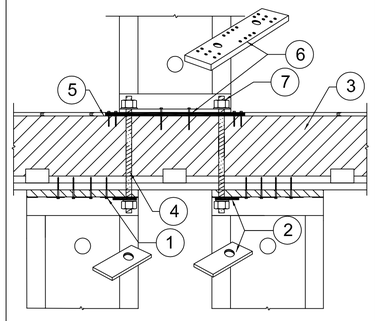
A) Install a solid 4x (min) rim in floor system below Panel. Table values assume Engineered Wood Product (EWP).
B) Notch floor sheathing and screw ends of HFXBP to rim with 1/4"x3" (min) USP "WS" Series Screws (or equal).
C) Install Panel on HFXBP, connect with threaded rod grade specified on plans and secure base of Panel with Hardened Round Washer and Grade 8 Nut (or equal). Nuts to be snug tight.
D) When stacking to a Panel below, "STK" Panels include "STK Washers" pre-welded in the top channel, or field install "STK" Washer, Hardened Round Washer and a Grade 8 Nut in the top channel of the Panel below.
E) When more than 12 screws are required for minimum bottom screw quantity, install 1/4"x4-1/2" Screws through Panel base and HFXBP into rim.
F) For standard wall heights, install a 2x filler above Panel (Dtl 6/HFX2). For larger fillers see Dtl 10/HFX2.

NOTE: Installations may vary with specific job conditions and/or specifications by the Design Professional.

B



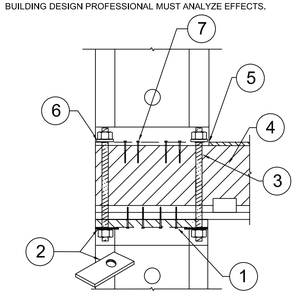
C



1. 1/4" x 4 1/2" (MIN) USP-WS SCREWS (OR EQUAL) PER TABLE.
2. ***HARDY FRAME*** "STK WASHER" AT TOP OF PANEL WHEN CONNECTING TO HOLD DOWN ABOVE.
3. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
4. ALL THREAD ROD PER PLANS.
5. FLOOR SHEATHING NOTCHED FOR BEARING PLATE.
6. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
7. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.

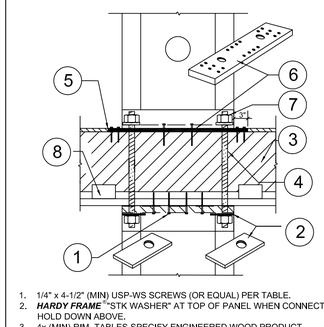
PYRAMID STACK 8

NOTE
INSTALLATION WITHOUT ***HARDY FRAME***® BEARING PLATE (HFXBP) MAY INCREASE DEFLECTION AND RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUE, BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.



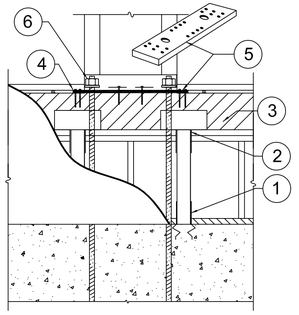
1. 1/4" x 4-1/2" (MIN) USP-WS SCREWS (OR EQUAL) PER TABLE.
2. ***HARDY FRAME*** "STK WASHER" AT TOP OF PANEL WHEN CONNECTING TO HOLD DOWN ABOVE.
3. ALL THREAD ROD PER PLANS.
4. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
5. FLOOR SHEATHING NOTCHED INSTALL PANEL DIRECTLY ON RIM.
6. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
7. 1/4" x 4 1/2 (MIN) USP-WS SCREWS (OR EQUAL) THROUGH BOTTOM OF PANEL MIN QUANTITY PER TABLE.

STACK @ OS CORNER 7



1. 1/4" x 4-1/2" (MIN) USP-WS SCREWS (OR EQUAL) PER TABLE.
2. ***HARDY FRAME*** "STK WASHER" AT TOP OF PANEL WHEN CONNECTING TO HOLD DOWN ABOVE.
3. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
4. ALL THREAD ROD PER PLANS.
5. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
6. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
7. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT.
8. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

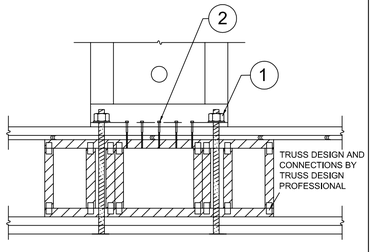
STRAIGHT STACK 6



1) USP POST BASE BY THE DESIGN PROFESSIONAL
2) USP POST CAP BY THE DESIGN PROFESSIONAL
3) 4x (MIN) RIM AND STRUCTURAL FRAMING BY THE DESIGN PROFESSIONAL
4) FLOOR SHEATHING NOTCHED FOR BEARING PLATE.
5) ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
6) 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.

CRIPPLE WALL 5

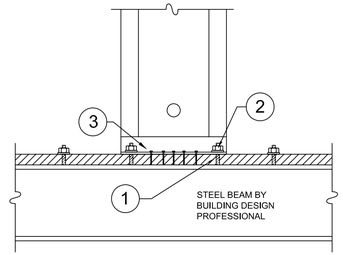
NOTE:
A. INSTALLATION WITHOUT *HARDY FRAME*® BEARING PLATE (HFXBP) INCREASES DEFLECTION AND MAY RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUES BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.
B. TRUSS DESIGN PROFESSION TO CHECK LATERAL SHEAR AND OVERTURNING MOMENT OF TRUSS SYSTEM.
C. END BLOCK CONFIGURATION MAY CHANGE TO ACCOMMODATE SPECIFIC JOB CONDITIONS.



1. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
2. 1/4" MIN USP-WS SCREWS (OR EQUAL) WITH FULL PENETRATION INTO TOP CHORD OF BLOCK.

OPEN WEB TRUSS 14

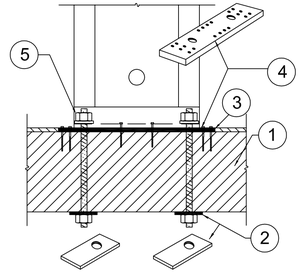
BUILDING DESIGN PROFESSIONAL TO DESIGN
A. LOAD PATH FROM BEAM TO FOUNDATION.
B. INSTALLATION WITHOUT *HARDY FRAME*® BEARING PLATE (HFXBP) INCREASES PANEL DEFLECTION AND MAY RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUES. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.
C. BEAM DEFLECTION MAY INCREASE TOTAL DRIFT OF PANEL. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.



1. HOLD DOWN ALL THREAD RODS WELDED TO STEEL BEAM BY BUILDING DESIGN PROFESSIONAL.
2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT.
3. 1/4" MIN USP-WS SCREWS (OR EQUAL)MAY BE INSTALLED FOR ADDITIONAL SHEAR TRANSFER.

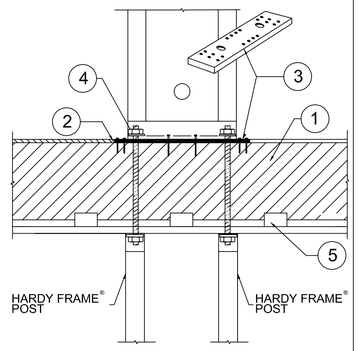
STEEL BM-WELDED HD 13

BUILDING DESIGN PROFESSIONAL TO DESIGN
A. LOAD PATH FROM BEAM TO FOUNDATION.
B. INSTALLATION WITHOUT *HARDY FRAME*® BEARING PLATE (HFXBP) INCREASES PANEL DEFLECTION AND MAY RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUES. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.
C. BEAM DEFLECTION MAY INCREASE TOTAL DRIFT OF PANEL. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS.



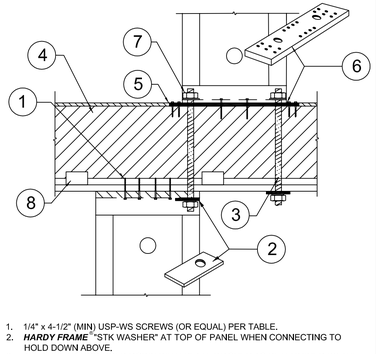
1. WOOD BEAM PER PLAN.
2. ALL THREAD HOLD DOWN WITH PLATE WASHER AS DETERMINED BY THE BUILDING DESIGN PROFESSIONAL AT UNDERSIDE OF BEAM PER PLAN.
3. FLOOR SHEATHING NOTCHED FOR BEARING PLATE.
4. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
5. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT.

WOOD BM THRU BOLT 12



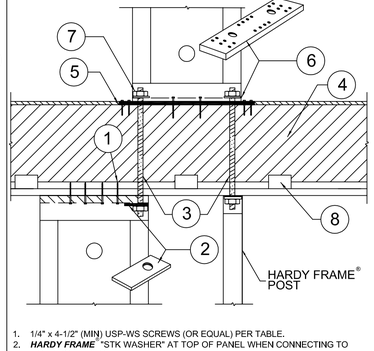
1. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
2. FLOOR SHEATHING NOTCHED FOR BEARING PLATE.
3. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
4. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
5. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

POSTS BELOW 11



1. 1/4" x 4-1/2" (MIN) USP-WS SCREWS (OR EQUAL) PER TABLE.
2. ***HARDY FRAME*** "STK WASHER" AT TOP OF PANEL WHEN CONNECTING TO HOLD DOWN ABOVE.
3. ALL THREAD ROD HOLD DOWN WITH PLATE WASHER AS DETERMINED BY THE BUILDING DESIGN PROFESSIONAL AT UNDERSIDE OF BEAM PER PLANS.
4. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
5. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
6. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
7. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
8. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

STAGGERED-THRU BOLT 10



1. 1/4" x 4-1/2" (MIN) USP-WS SCREWS (OR EQUAL) PER TABLE.
2. ***HARDY FRAME*** "STK WASHER" AT TOP OF PANEL WHEN CONNECTING TO HOLD DOWN ABOVE.
3. ALL THREAD ROD PER PLANS.
4. 4x (MIN) RIM, TABLES SPECIFY ENGINEERED WOOD PRODUCT.
5. FLOOR SHEATHING NOTCHED FOR BEARING PLATE (HFXBP).
6. ***HARDY FRAME***® BEARING PLATE (HFXBP) WITH 6 EA.1/4" DIA. x 3" (MIN) USP-WS SCREWS (OR EQUAL) AT EACH END. WHEN MORE THAN 12 EA. SCREWS ARE REQUIRED INSTALL 1/4" x 4-1/2" (MIN) SCREWS THROUGH BASE OF PANEL.
7. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS.
8. USP MP4 F CONNECTORS OR EQUAL BY BUILDING DESIGN PROFESSIONAL.

STAGGERED TO POST 9

REVISIONS	DATE

HFX-Series Panels at Typical Floor System Details

THIS DETAIL SHEET IS NOT PROPRIETARY AND IS NOT REQUIRED FOR PLAN SUBMITTAL WITH *HARDY FRAME* PRODUCTS

HARDY FRAME®
A MiTek Company
1732 PALMA DRIVE, SUITE 200, VENTURA, CA 93003
TELEPHONE: 800 754-3030 / www.hardyframe.com

HFX SERIES

DATE:
4-1-2014

HFX3
FLRS