DATE: 1-1-2024

ADJUSTABLE INSTALLATION FOR HFBX EXTENDS HFX-S

WOOD MEMBERS PER DESIGN PROFESSIONAL BASE EXTENSION

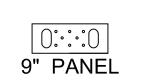
HFX-18 x 78 SPECIFIC SEISMIC PROVISIONS OF SECTION 17.2.3 AND THE 0.75 REDUCTION FACTOR HFX-9 x 79.5 79-1/2 93-3/4 HFX-9 x8 HFX-12 x 8 HFX-15 x 8 92-1/4 HFX-18 x 8

NET

HEIGHT (in)

78

9" WIDTH = 5 12" WIDTH = 6 HFX-12 x 9 15" WIDTH = 8 104-1/4 HFX-15 x 9 18" WIDTH = 10 HFX-18 x 9 HFX-15 x 10 116-1/4 HFX-18 x 10 HFX-15 x 11 128 1/4 HFX-18 x 11 HFX-15 x 12 140 1/4 HFX-18 x 12



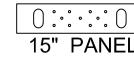
MODEL

NUMBER

HFX-12 x 78

HFX-15 x 78





DIAMETER (in)



GENERAL NOTES

SELF DRILLING WING TIP

#12 SELF-TAPPING SCREWS AT FACE OF

PANEL. (HEX HEAD

#12 SELF-TAPPING

SCREWS AT FACE OF

PANEL. (BUGLE HEAD

WITH SELF DRILLING

TIP SHOWN)

TIP SHOWN)

WITH SELF DRILLING

SELF DRILLING TIP

SCREW HOLE

QTY AVAILABLE

AT EDGES (EA)

TOP SCREW

QUANTITY (EA)

INSTALLATION INSTRUCTIONS

- WHEN INSTALLING DIRECTLY ON CONCRETE, PLACE PANEL OVER BOLTS AND CONNECT WITH (1 EA) HARDENED ROUND WASHER AND A GRADE 8 OR 2H HEAVY HEX NUT. SECURE WITH A DEEP SOCKET (RECOMMENDED) UNTIL "SNUG TIGHT"
- USE 1/4"x4-1/2" MITEK PRO-SERIES "WS-45" SCREWS AT TOP CONNECTIONS WITH A 2x FILLER. IF THE TOP OF PANEL IS IN DIRECT CONTACT WITH THE COLLECTOR ABOVE (TOP PLATES, HEADER, BEAM, ETC.) USE 1/4" x 3" (MINIMUM) FOR INSTALLATIONS WITH A FILLER GREATER THAN 2" THICK ABOVE. 1/4" DIAMETER SCREWS ARE
- REQUIRED AT THE PANEL EDGES TO BRACE FOR THE OUT-OF-PLANE HINGE OR WHEN THEY ARE SPECIFIED BY THE DESIGN PROFESSIONAL UP TO A 3/8" PLY, OSB OR WOOD SHIM MAY BE USED TO COMPENSATE FOR VARIATIONS IN STANDARD
- STUD HEIGHTS. THERE IS NO "INSIDE" OR "OUTSIDE" FACE OF PANEL. TO PREVENT THE NEED FOR ADDITIONAL HOLES

MODIFIED TRUSS

1. SURFACE FINISHES, CONNECTORS AND FIXTURES ARE ATTACHED TO THE PANEL

2. ATTACHMENTS TO THE PANEL EDGES ARE MADE WITH # 12 SELF-TAPPING SCREWS.

3. STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE DESIGN PROFESSIONAL

STRUCTURAL HARDWARE USED TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAGE.

CONNECTION SCREWS (2)

"BREAK-AWAY" TAB ALLOWS INSTALLATION

UP TO 6-1/2" BEYOND FACE OF PANEL.

AFTER PANEL HAS BEEN SET.

FACE WITH # 12 SELF-TAPPING SCREWS SPACED NO LESS THAN 2-1/4" OC.

ORIENT THE PANEL CAVITY TOWARD THE FIXTURE BEING INSTALLED.

BUGLE HEAD

PANCAKE

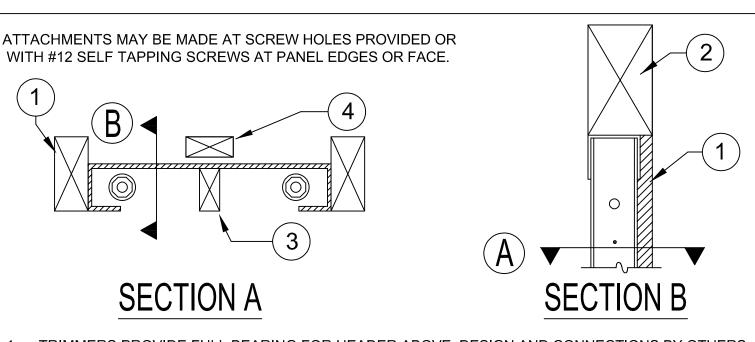
#12 SELF-TAPPING SCREWS AT EDGE OF PANEL. (BUGLE HEAD

WITH SELF DRILLING

HFBX46

WING TIP SHOWN)

AS NEEDED



ANCHORAGE NOTES

ASSUMPTIONS:

JURISDICTION.

c. DRY CONCRETE.

CONCRETE BREAKOUT

FOLLOWING FIELD CONDITIONS:

TOP OF THE HFXBB BOLT BRACE

THE FOOTING OR GRADE BEAM.

DESIGN PER DESIGN PROFESSIONAL

CAST-IN FOUNDATION ANCHORAGE SOLUTIONS ARE BASED ON THE REQUIREMENTS

OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-19, CHAPTER 17, INCLUDING THE

FOR CRACKED CONCRETE. A CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI IS

ASSUMED. TABULATED FOUNDATION DESIGN RECOMMENDATIONS REPRESENT

MINIMUM ANCHORAGE REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING

2. POST-INSTALLED FOUNDATION ANCHORAGE SOLUTIONS REQUIRE THE USE OF AN

APPROVED EPOXY ADHESIVE WITH 708 PSI (MIN) BOND STRENGTH UNDER THE

3. $\,$ $_{
m le}$ = LENGTH OF EMBEDMENT FROM THE TOP OF FOOTING OR GRADE BEAM TO THE

5. C_{a2} = DISTANCE FROM HD CENTERLINE TO BOTH THE FRONT AND THE BACK FACE OF

ANCHORS ARE ASTM F1554 GRADE 36 WITH A HARDY FRAME BOLT BRACE (HFXBB)

9. ANCHORAGE IS DESIGNED FOR TENSION AND SHEAR TRANSFER ONLY, FOUNDATION

REINFORCEMENT SHOWN IS THE MINIMUM REQUIREMENT PER CODE AND IS NOT

4. C_{a1} = DISTANCE FROM HD CENTERLINE TO THE END OF THE FOOTING OR GRADE

6. CONCRETE COVERAGES MUST COMPLY WITH ACI 318-14, SECTION 17.7.1

INTENDED TO REPLACE REINFORCEMENT DESIGNED BY THE EOR.

a. TEMPERATURE RANGE IS 110°F LONG TERM AND 130°F SHORT TERM.

a. NO SUPPLEMENTAL REINFORCEMENT FOR SPLITTING DUE TO

b. NO SHEAR REINFORCEMENT GREATER THAN NO. 4 BARS.

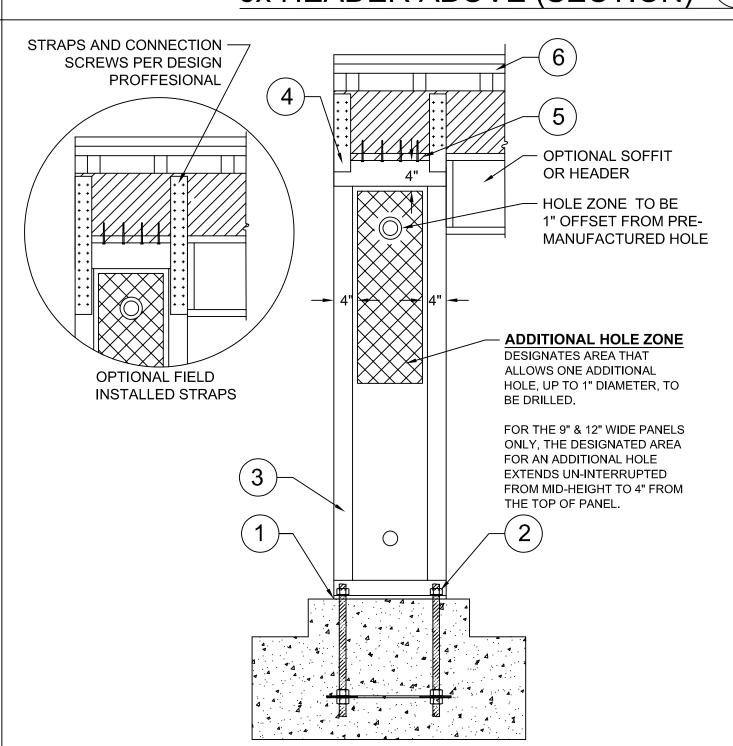
b. PERIODIC INSPECTION IN ACCORDANCE WITH THE LOCAL

d. 1 1/8 IN. ASTM F1554 GRADE A36 ANCHOR ROD.

INSTALLED WITH DOUBLE NUTS ON THE EMBED END.

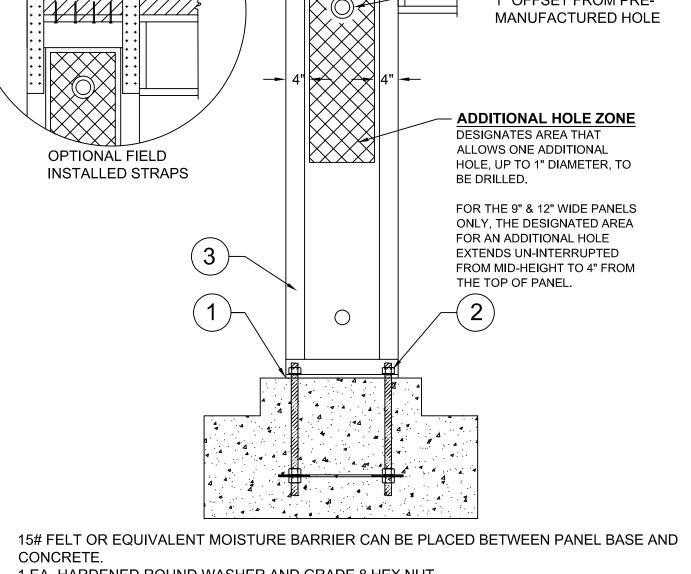
- TRIMMERS PROVIDE FULL BEARING FOR HEADER ABOVE, DESIGN AND CONNECTIONS BY OTHERS. 6x HEADER.
- WOOD MEMBERS MAY BE INSERTED VERTICALLY OR HORIZONTALLY IN CAVITY FOR BACKING AS

6x HEADER ABOVE (SECTION) 4



- 1. 15# FELT OR EQUIVALENT MOISTURE BARRIER CAN BE PLACED BETWEEN PANEL BASE AND
- 1 EA. HARDENED ROUND WASHER AND GRADE 8 HEX NUT.
- ADJACENT FRAMING OPTIONAL U.N.O. BY BUILDING DESIGN PROFESSIONAL WELDED STRAPS ARE AVAILABLE FROM MANUFACTURER WHEN REQUIRED BY THE DESIGN
- A 2x WOOD FILLER WITH 1/4"x4-1/2" (MIN.) MITEK PRO-SERIES "WS-45" SCREWS IS PERMITTED. WHEN CRIPPLE STUDS OCCUR, SHEAR TRANSFER DESIGN TO BE PER THE DESIGN PROFESSIONAL

INSTALLATION ON CURB (5)







15# FELT OR EQUIVALENT MOISTURE BARRIER CAN BE PLACED BETWEEN PANEL BASE AND CONCRETE.

3. ADJACENT FRAMING WITH 1/4" DIAMETER PRO-SERIES SCREWS INSTALLED AT THE EDGES AS SPECIFIED BY

POST INSTALLED

CURB AT OUTSIDE CORNER (6A)

EPOXY

HOLE

EPOXY

HOLE

CONNECTION

W/ SLOPED DOUBLE

TOP PLATE

2. 1 EA. HARDENED ROUND WASHER AND GRADE 8 HEX NUT

4. 1/4" x 3" (MIN) MITEK PRO-SERIES "WS-3" SCREWS. QUANTITY PER TABLES.

IN 1/8" OVERSIZED

IN 1/8" OVERSIZED

3" MIN OR BY EPOXY

1-#4 REBAR

GRADE 36 |

2" - 4"

PER IRC CODE,

TOP & BOTTOM

1-1/8" ASTM F1554 -

- EPOXY

HOLE

\ IN 1/8" OVERSIZED

- 1-1/8" ASTM F1554

1-#4 REBAR

└- 2" - 4"

CURB (EDGE) CONDITION (6B)

PER IRC CODE,

,TOP & BOTTOM

1-1/8" ASTM F1554

GRADE 36

GRADE 36

3" MIN OF

BY EPOXY

MFR

CAST IN PLACE

CURB AT OUTSIDE CORNER (6D)

1-1/8" ASTM F1554

GRADE 36

2" - 4"

1-1/8" ASTM F1554 -

1-1/8" ASTM F1554 -

GRADE 36

3" MIN

1" OFFSET FROM PRE-

MANUFACTURED HOLE

ADDITIONAL HOLE ZONE

HOLE, UP TO 1" DIAMETER, TO

ONLY, THE DESIGNATED AREA

FOR AN ADDITIONAL HOLE

THE TOP OF PANEL.

EXTENDS UN-INTERRUPTED

FROM MID-HEIGHT TO 4" FROM

ALLOWS ONE ADDITIONAL

BE DRILLED.

GRADE 36

- 1**-**#4 REBAR

1-#4 REBAR

└<u>2" - 4"</u>

3" MIN

CURB (EDGE) CONDITION (6E)

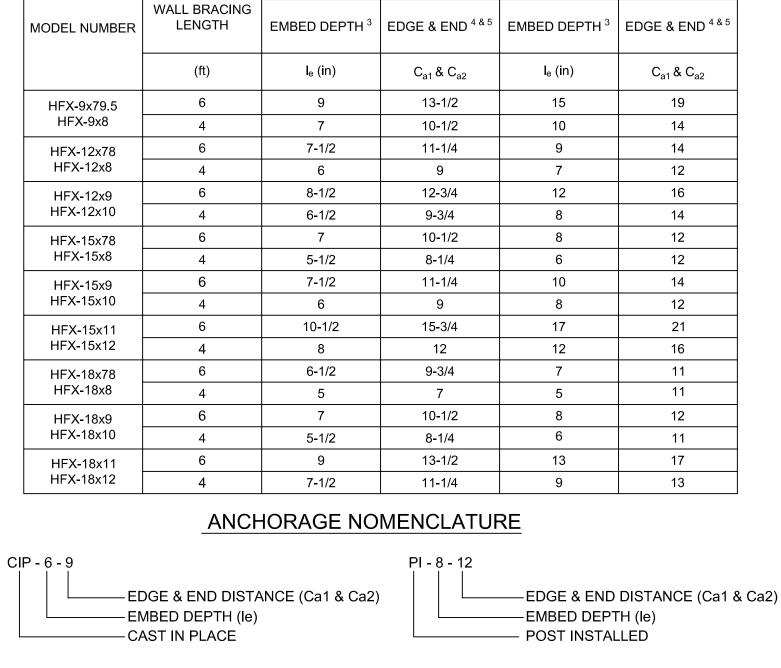
INTERIOR CONDITION (6F)

PER IRC CODE,

,TOP & BOTTOM

PER IRC CODE,

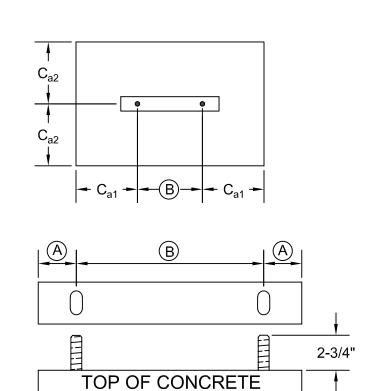
TOP & BOTTOM



FOUNDATION ANCHORAGE REQUIREMENTS - SEISMIC

CAST IN PLACE

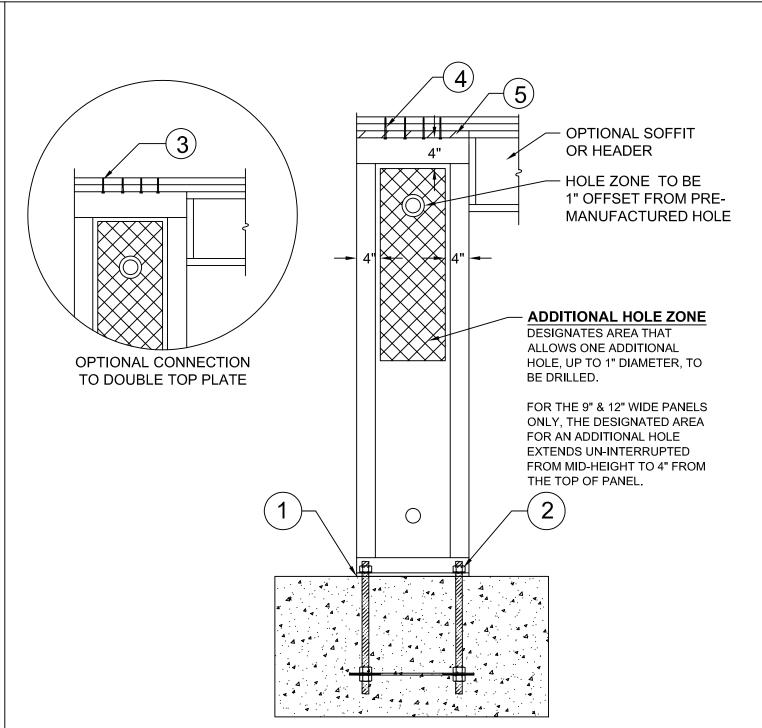
EQUIVALENT



MODEL WIDTH HFX-9x 1-3/4" HFX-12x 8-1/2" HFX-15x 9-3/4" 2-5/8" 12-3/4" HFX-18x

POST INSTALLED 2

CAST IN PLACE & POST INSTALLED ANCHORAGE (6)



- 1. 15# FELT OR EQUIVALENT MOISTURE BARRIER CAN BE PLACED BETWEEN PANEL BASE AND CONCRETE
- 1 EA. HARDENED ROUND WASHER AND GRADE 8 HEX NUT 1/4" x 3" (MIN) MITEK PRO-SERIES "WS-3" SCREWS. QUANTITY PER TABLES.
- 4. 1/4" x 4-1/2" (MIN) MITEK PRO-SERIES "WS-45" SCREWS. QUANTITY PER TABLES
- 5. 2x WOOD FILLER.

INSTALLATION ON SLAB FOUNDATION (7)