

1/4" DIAMETER (MINIMUM) x 3" LONG USP-WS SCREW (OR EQUAL) PER TABLES.

SOLID 4X WOOD BEVEL RIPPED TO FIT SLOPE AND CONNECTORS BY BUILDING DESIGN PROFESSIONAL

ADJACENT FRAMING FOR RESISTING OUT OF PLANE LOADS BY BUILDING DESIGN PROFESSIONAL

BUILDING DESIGN PROFESSIONAL MUST DESIGN:
1. STUDS OR STRAPS TO TRANSFER UPLIFT OF FILLER MATERIAL
2. ADDITIONAL DRIFT DUE TO THE ADDITIONAL FILLER HEIGHT
3. STUDS/POST AT EACH END OF PANEL FOR OUT OF PLANE LOAD

HARDY FRAME HFX-SERIES PANEL 4 HFX2

TOP TO SLOPING DOUBLE PLATE WITH BEVEL FILLER

CONNECTORS BY BUILDING DESIGN PROFESSIONAL

4x WOOD FILLER BY BUILDING DESIGN PROFESSIONAL

1/4" DIAMETER (MINIMUM) x 3" LONG USP-WS SCREW (OR EQUAL) PER TABLES.

ADJACENT FRAMING FOR RESISTING OUT OF PLANE LOADS BY BUILDING DESIGN PROFESSIONAL

HARDY FRAME HFX-SERIES PANEL 3 HFX2

TOP TO DOUBLE PLATES WITH FILLER HEIGHT GREATER THAN 1-1/2 INCHES

2x WOOD FILLER CONNECTION WITH 1/4" DIAMETER (MINIMUM) x 4 1/2" LONG USP-WS SCREWS OR EQUAL.

HARDY FRAME HFX-SERIES PANEL 2 HFX2

TOP TO DOUBLE PLATES WITH 2x FILLER

1/4" DIAMETER (MINIMUM) x 3" LONG USP-WS SCREW (OR EQUAL) PER TABLES.

HARDY FRAME HFX-SERIES PANEL 1 HFX2

TOP TO DOUBLE PLATES

THREADED ROD WITH HARDENED ROUND, (2) SAE OR (2) ROUND-FLAT WASHERS AND GRADE 8 HEX NUT CONNECTING TO HOLD DOWN ABOVE

3/4" THICK PLATEWASHER BUILT IN BY MANUFACTURER

ACCESS HOLE LOCATED AT EDGE OF POST

HARDY FRAME HFX-SERIES POST 8 HFX2

TOP TO DOUBLE PLATES

STEEL BEAM PER PLANS

CONNECTION BY BUILDING DESIGN PROFESSIONAL

1/4" DIAMETER (MINIMUM) USP-WS SCREWS (OR EQUAL) FOR SHEAR TRANSFER FROM WOOD NAILER TO **HARDY FRAME** PANEL

HARDY FRAME HFX-SERIES PANEL 7 HFX2

TOP TO STEEL BEAM WITH WOOD NAILER BELOW

6x HEADER

TRIMMER BEYOND

HARDY FRAME PANEL

TRIMMER (OR KINGSTUD @ OS CORNER) BY BUILDING DESIGN PROFESSIONAL

BACKING (OPTIONAL) SET FLUSH TO FACE OF WALL

WOOD MEMBER MAY BE INSERTED VERTICALLY OR HORIZONTALLY IN CAVITY FOR BACKING AS NEEDED.

NOTES:
1. TRIMMERS PROVIDE FULL BEARING FOR HEADER ABOVE. DESIGN AND CONNECTIONS BY OTHERS.
2. TRIMMER ATTACHMENT TO PANEL NOT REQUIRED.
3. ATTACHMENTS MAY BE MADE AT SCREW HOLES PROVIDED OR WITH SELF TAPPING SCREWS (#12 AT EDGES, #10 AT FACE).

HARDY FRAME HFX-SERIES PANEL 6 HFX2

6x HEADER ABOVE - SECTION VIEW

NOTE: STRAPS CONNECTING PANEL TO HEADER ARE RECOMMENDED. WHEN APPLIED IN THE FIELD STRAP DESIGN AND CONNECTION TO BE DETERMINED BY BUILDING DESIGN PROFESSIONAL.

SHEAR TRANSFER DESIGN AND DETAILS BY THE BUILDING DESIGN PROFESSIONAL

CONTINUOUS HEADER PER PLAN

1/4" DIAMETER (MINIMUM) x 3" LONG USP-WS SCREW (OR EQUAL) PER TABLES.

HARDY FRAME HFX-SERIES PANEL 5 HFX2

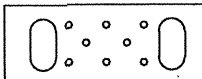
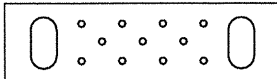
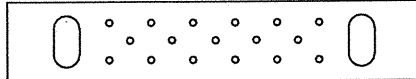
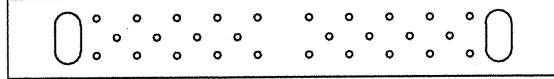
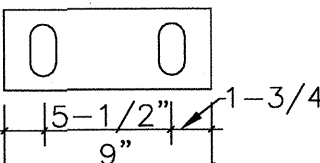
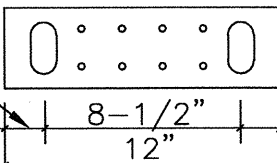
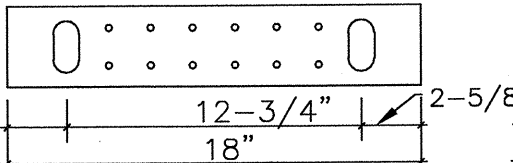
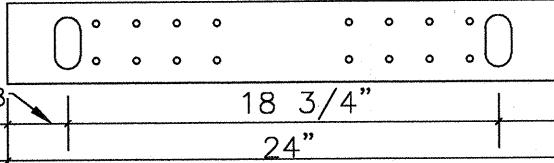
TOP TO HEADER WITH CRIPPLE STUDS ABOVE

MODEL NUMBER	NET HEIGHT (in)	DEPTH (in)	Hold Down Diameter ¹ (in)	Top Screw ² Qty (ea)	Bottom Screw ³ Qty (ea)	Screw Qty Available at Edges (ea)
HFX-9x79.5	79-1/2	3-1/2	1-1/8	8	NA	4
HFX-9x8	92-1/4					
HFX-12x78	78	3-1/2	1-1/8	7	6	4
HFX-12x8	92-1/4			6		5
HFX-12x9	104-1/4					
HFX-12x10	116-1/4					
HFX-18x78	78	3-1/2	1-1/8	10	10	4
HFX-18x8	92-1/4					5
HFX-18x9	104-1/4					
HFX-18x10	116-1/4					
HFX-18x11	128-1/4					6
HFX-18x12	140-1/4					8
HFX-18x13	152-1/4					
HFX-18x14	164-1/4					
HFX-18x15	176-1/4				NA	9
HFX-18x16	188-1/4					10
HFX-18x17	200-1/4					
HFX-18x18	212-1/4					
HFX-18x19	224-1/4					
HFX-18x20	236-1/4					
HFX-24x78	78	3-1/2	1-1/8	18	16	4
HFX-24x8	92-1/4			15	14	
HFX-24x9	104-1/4			14		6
HFX-24x10	116-1/4				NA	
HFX-24x11	128-1/4					
HFX-24x12	140-1/4					
HFX-24x13	152-1/4					
HFX-24x14	164-1/4					
HFX-24x15	176-1/4					
HFX-24x16	188-1/4					
HFX-24x17	200-1/4					
HFX-24x18	212-1/4					
HFX-24x19	224-1/4					
HFX-24x20	236-1/4					

Hold down bolts connect to the Panel base with one Hardened Round, two Round-Flat or two SAE Washers and a Grade 8 Hex Nut on each rod or as specified by the Building Design Professional.

Screws at top are USP-WS Series (or equal). Use 1/4 x 3" (minimum) when attached directly to the collector, 1/4 x 4-1/2" (minimum) when installing a 2x filler above the Panel.

Screws at bottom are USP-WS Series (or equal). Use 1/4 x 4-1/2" (minimum) through base of Panel, 1/4 x 3" (minimum) at **Hardy Frame** Bearing Plate (HFXBP).

			
HOLE PATTERN TOP	HOLE PATTERN TOP	HOLE PATTERN TOP	HOLE PATTERN TOP
			
HOLE PATTERN BOTTOM	HOLE PATTERN BOTTOM	HOLE PATTERN BOTTOM	HOLE PATTERN BOTTOM
9" PANEL	12" PANEL	18" PANEL	24" PANEL

2x WOOD FILLER CONNECTION WITH 1/4" DIAMETER x 4 1/2" LONG USP-WS SCREWS (OR EQUAL). FOR FILLERS GREATER THAN 1 1/2" SEE DETAIL 3-HFX2.

WELDED CONNECTION BY HARDY FRAMES, INC. (NO FIELD CONNECTION REQUIRED)

MOISTURE BARRIER RECOMMENDED (USE 15# FELT, OR EQUIVALENT)

FOUNDATION DESIGN BY BUILDING DESIGN PROFESSIONAL

3" MIN.

HARDY FRAME HFX-SERIES PANEL 14 HFX2

BALLOON WALL INSTALLATION

2x WOOD FILLER CONNECTION WITH 1/4" DIAMETER x 4 1/2" LONG USP-WS SCREWS (OR EQUAL). FOR FILLERS GREATER THAN 1 1/2" SEE DETAIL 3-HFX2.

SIDE MEMBERS TO BE DESIGNED BY BUILDING DESIGN PROFESSIONAL FOR OUT-OF-PLANE AND VERTICAL LOADS. MINIMUM SIDE MEMBERS TO BE 4X6 OR 2-2X6 CONNECTED TOGETHER WITH 10d NAILS AT 16" OC

ATTACH SIDE MEMBERS TO PANEL BY FILLING ALL HOLES PROVIDED WITH 1/4" DIAMETER USP-WS SCREWS (OR EQUAL) THROUGH THE PANEL EDGE INTO THE WOOD MEMBER. WHEN REQUIRED BY THE BUILDING DESIGN PROFESSIONAL, ADDITIONAL ATTACHMENT MAY BE MADE WITH # 12 SELF TAPPING SCREWS.

HARDENED ROUND, (2) SAE OR (2) ROUND-FLAT WASHERS AND GRADE 8 NUT.

A.B. PER PLANS

USE HIGH STRENGTH THREADED ROD WITH 1/2"x3"x3" ASTM A 36 PLATE WASHERS DOUBLE NUTTED ON THE EMBED END. **Hardy Frame** BOLT BRACE (HFXBB) IS RECOMMENDED.

USE #12 SELF-TAPPING SCREWS WHEN ATTACHMENT TO EDGE OF PANEL IS REQUIRED BY THE BUILDING DESIGN PROFESSIONAL (HEX HEAD WITH SELF DRILLING WING TIP SHOWN)

NAIL OR SCREW SURFACE FINISHES TO WOOD MEMBERS PER PLAN

USE #10 SELF-TAPPING SCREWS FOR NON-STRUCTURAL ATTACHMENTS TO THE FACE OF PANEL OR WHEN REQUIRED BY THE BUILDING DESIGN PROFESSIONAL (BUGLE HEAD WITH SELF DRILLING TIP SHOWN)

BUGLE HEAD WAFFER HEAD FLAT TRUSS MODIFIED TRUSS HEX HEAD

SELF DRILLING WING TIP

NOTES:
1) ATTACHMENTS TO THE FACE OF **HARDY FRAME** PANELS, INCLUDING SURFACE FINISHES, CONNECTORS AND FIXTURES, ARE MADE WITH # 10 SELF-TAPPING SCREWS SPACED NO LESS THAN 2 1/4" OC.
2) ATTACHMENTS TO THE EDGES OF **HFX-SERIES** PANELS ARE MADE WITH # 12 SELF-TAPPING SCREWS.
3) STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE BUILDING DESIGN PROFESSIONAL.
4) HARDWARE USED STRUCTURALLY TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAUGE.

HARDY FRAME HFX-SERIES PANEL 13 HFX2

ATTACHMENT WITH SELF TAPPING SCREWS

Clearspan 4-1/2" MAX

OMT FASTENERS AT THESE SPACES WHEN THE END DISTANCE IS LESS THAN 1 INCH

Section A A - Alternate 1 A - Alternate 2

Section A: HFS Installed over Double Top Plates
A - Alternate 1: HFS Installed to Underside of Double Top Plates
A - Alternate 2: HFS Separated into Two "L" Shapes to allow for Installation over Wood Structural Panel Sheeting or for Installation at 2x6 and Greater Wall Depths.

Model Number	Fastener Qty	ASD Tension (lbs)	ASD Compression (lbs)
HFS24	24 - 16d common	2950	2500
HFS36	32 - 16d common	4280	2500

Notes:
1) Maximum Clearspan splice is 4-1/2".
2) Fastener quantity is the number of 16d common nails to be installed at each end of the splice.
3) When the distance from the splice to the first nail hole is less than 1 inch, omit the (2) nails in the 3 inch sideplate and the (1) nail in the 1-1/2 inch sideplate closest to the splice.
4) For the HFS24 that is installed with 22 - 16d common nails on each end of the splice (44 total) there is no reduction in the values.
5) For the HFS36 that is installed with 31 - 16d common nails on each end of the splice (62 total) there is no reduction in the values.
6) Allowable tension capacity is based on attachment to lumber with a minimum specific gravity of 0.49.
7) Loads shown are allowable stress design (ASD) and exclude a 1.33 stress increase.

HARDY FRAME HFX-SERIES PANEL 12 HFX2

PRE-DRILL 3/16" DIA. HOLE IN FACE OF **HARDY FRAME** PANEL AND INSTALL EVENLY SPACED 1/4" DIA. WOOD SCREWS THROUGH FACE INTO 2x (MIN.) WOOD LEDGER LOCATED IN PANEL CAVITY

FOR 24" WIDE PANELS LEDGER TERMINATES INSIDE EDGE OF "POSTS"

CONNECTOR AND ATTACHMENT BY BUILDING DESIGN PROFESSIONAL

VIEW OF PANEL CAVITY

NOTE: ADDITIONAL LOADS APPLIED ON PANEL ARE TO BE EVENLY DISTRIBUTED AND MAY NOT EXCEED THE ALLOWABLE "P" LOAD AS PROVIDED IN TABLE 1.1.

HARDY FRAME HFX-SERIES PANEL 11 HFX2

CONCEALED LEDGER

A 3" DIAMETER HOLE IS PROVIDED IN THE FACE OF ALL 18" AND 24" WIDE PANELS

DESIGNATES AREA THAT ALLOWS ONE ADDITIONAL HOLE, UP TO 1" DIAMETER, TO BE DRILLED.

FOR THE 12" WIDE PANEL ONLY, THE DESIGNATED AREA FOR AN ADDITIONAL HOLE EXTENDS UN-INTERRUPTED FROM MID-HEIGHT TO 4" FROM THE TOP OF PANEL

NOTES:
1. THE SOLID FACE OF THE PANEL MAY BE ORIENTED TOWARDS THE INSIDE OR OUTSIDE FACE OF WALL. CHANGING THE ORIENTATION OF THE SOLID FACE WILL USUALLY PREVENT THE NEED FOR ADDITIONAL HOLES.
2. TO DRILL HOLES LARGER THAN 1" DIAMETER, MORE THAN ONE HOLE OR HOLES LOCATED OUTSIDE THE DESIGNATED AREA, CONTACT HARDY FRAMES, INC.

HARDY FRAME HFX-SERIES PANEL 10 HFX2

ADDITIONAL HOLE LOCATION CHART

WOOD MEMBER MAY BE INSERTED VERTICALLY OR HORIZONTALLY IN CAVITY FOR BACKING AS NEEDED.

CAVITY ORIENTED FOR CONNECTION ACCESS.

2x WOOD FILLER CONNECTION WITH 1/4" DIAMETER (MINIMUM) x 4 1/2" LONG USP-WS SCREWS OR EQUAL.

HARDY FRAME PANELS

HARDY FRAME HFX-SERIES PANEL 9 HFX2

TOP TO DOUBLE PLATES WITH 2x FILLER - FACE TO FACE CONDITION

REVISIONS DATE

HFX SERIES

HARDY FRAME A MiTek Company

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DATE: 1-1-2011

HFX2 FRMG

HFX-Series Panels Typical Framing Details

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