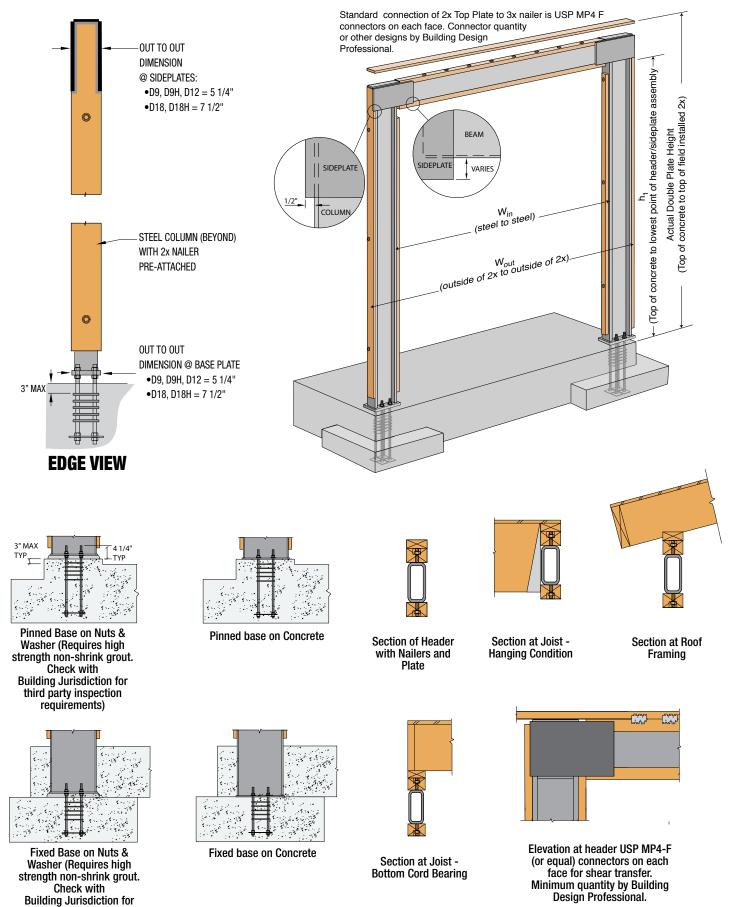


Pre-Assembled Moment Frame Installations



third party inspection requirements) FRAME.

Moment Frame Dimensions and Anchorage

See the Hardy Frame® Moment Frame Catalog for more complete product listing

			Wall Height					
			8' 0-3/4" 9' 0-3/4"			3/4"	10' 0-3/4"	
Col Type & Nom Opening Width	W _{in} (ft-in)	Wout (ft-in)	h ¹ Opening Height (ft-in)	Weight (lbs)	h ¹ Opening Height (ft-in)	Weight (lbs)	h ¹ Opening Height (ft-in)	Weight (lbs)
HF-D9 6x	6' 7"	8' 4"	7' 0-1/4"	987	8' 0-1/4"	1,064	9' 0-1/4"	1,141
HF-D9 8x		10' 4"	7 0-1/4	1,051	0 0-1/4	1,128	9 0-1/4	1,205
HF-D9H 8x	8' 7"		6' 11-1/4"	1,102	7' 11-1/4"	1,179	8' 11-1/4"	1,256
HF-D12 8x	0/	10' 10-1/2"	7' 0-1/4"	890	8' 0-1/4"	938	9' 0-1/4"	987
HF-D18 8x		11' 9-1/2"	6' 11-3/4"	1,412	7' 11-3/4"	1,490	8' 11-3/4"	1,567
HF-D9 10x		12' 4"	6' 11-1/4"	1,173	7' 11-1/4"	1,250	8' 11-1/4"	1,327
HF-D12 10x	10' 7"	12' 10-1/2"	7' 0-1/4"	954	8' 0-1/4"	1,002	9' 0-1/4"	1,051
HF-D18 10x		13' 9-1/2"	6' 9-1/4"	1,650	7' 9-1/4"	1,728	8' 9-1/4"	1,805
HF-D9 12x		14' 4"	6' 11-1/4"	1,244	7' 11-1/4"	1,321	8' 11-1/4"	1,398
HF-D12 12x	12' 7"	14' 10-1/2"	7' 0-1/4"	1,018	8' 0-1/4"	1,067	9' 0-1/4"	1,115
HF-D18 12x		15' 9-1/2"	6' 9-1/4"	1,746	7' 9-1/4"	1,824	8' 9-1/4"	1,901
HF-D9 14x		16' 4"	6' 11-1/4"	1,315	7' 11-1/4"	1,392	8' 11-1/4"	1,469
HF-D12 14x	14.7"	16' 10-1/2"	7' 0-1/4"	1,083	8' 0-1/4"	1,131	9' 0-1/4"	1,180
HF-D18 14x	- 14'7"	17' 9-1/2"	6' 9-1/4"	1,842	7' 9-1/4"	1,919	8' 9-1/4"	1,997
HF-D18H 14x		17' 10"	6' 5-3/4"	2,372	7' 5-3/4"	2,471	8' 5-3/4"	2,570
HF-D9 16x		18' 4"	6' 10-1/4"	1,462	7' 10-1/4"	1,539	8' 10-1/4"	1,616
HF-D18 16x	16' 7" 18' 7" 20' 7"	19' 9-1/2"	6' 9-1/4"	1,938	7' 9-1/4"	2,015	8' 9-1/4"	2,093
HF-D18H 16x		19' 10"		2,502	7' 5-3/4"	2,601	8' 5-3/4"	2,701
HF-D18H 18x		21' 10"	6' 5-3/4"	2,633		2,732		2,831
HF-D18H 20x		23' 10"		2,763		2,862		2,962

MOMENT FRAME NOMENCLATURE HF-D18 H 8 X 9 FB

FIXED BASE (AS OCCURS) NOMINAL 1ST STORY DOUBLE PLATE HEIGHT (FT) NOMINAL CLEAR SPAN (FT)

HEAVY DUTY
 NOMINAL WIDTH OF COLUMN (IN)

HARDY FRAME®

Moment Frame Template Kits							
		Hold Down Rods					
Column Type	HFT Model	Grade	Diameter(in)	Length (in)			
D9 & D9H	HFTK-D9	STD		32			
D12	HFTK-D12	510	3/4	32			
D18 & D18H	HFTK-D18	HS		36			

STD (Standard) rods are ASTM F1554 Grade 36

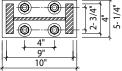
HS (High Strength) rods are ASTM A 193 Grade B7

All Template Kits include: 2-Templates (HFT)

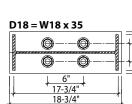
2-Bolt Braces (HFBB)

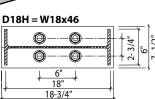
8-Threaded Rods with 2 washers & 4 nuts for each rod #3 Grade 40 rebar Shear Ties per the Anchorage Schedule

D9 & D9H =BUILT UP COLUMN



D12=W12 x 22	4
	3/4
	- <u>+</u>
4" 12-1/4"	
13-1/4"	ļ.





Hardy Frame Moment Frame: Anchorage Schedule ^{1,2}							
Column Type	Anchorage Designation	Embed From Top of Footing le (in)	Min Edge & End Dist at Footing (in)	Min Edge Dist at T.O. Conc (IN)	Min End Dist at T.O. Conc (IN)	Anchor QTY DIA & Grade Per Column (IN)	Closed Shear Tie Min QTY, Size & Spacing
D9	D9-Pinned						
D9H	D9H-Pinned	12	19	2 3/8	4	4 EA 3/4-STD	4 EA #3 @ 3" OC
D12	D12-Pinned						
D18	D18-Pinned	- 18	27	2 3/8	7 3/8	4 EA 3/4 - HS	5 EA #3 @ 3" OC
D18H	D18H-Pinned	10					

FOUNDATION DESIGN, FOOTINGS AND STEM WALLS SHALL BE DESIGNED BY THE ENGINEER OF RECORD

Notes: 1. Anchors are designed per AISC 341-10 and ACI 318 Appendix D based on fc=2500 psi, fu=60,000 psi and fy=40,000 psi (min0 2. For alternate shear transfers or pull-out resistance, calculations shall be supplied by the Engineer of Record

Refer to the Hardy Frame Moment Frame Catalog and Installation Details for more specific information

Two Story Frames available
All model numbers shown ship pre-assembled; over-sized frames ship as "knock-down" units that require field welding and special inspection by others

 For a complete list of standard sizes see the Hardy Frame[®] Moment Frame Catalog

