

HARDY FRAME SPECIAL MOMENT FRAME DESIGN MANAGER

The interactive **HF SMF Design Manager** from MiTek enables you to easily input SMF design parameters then submit to our engineers with the click of a mouse. Custom SMF Designs and job specific installation details have never been so easy.

Visit: <https://builderproducts.mii.com/specialmomentframe>

1. "Distance A" and "Distance B" are measured centerline.
 2. Magnitudes of applied wind and seismic load calculated at ASD level WITHOUT the overstrength factor.
 3. Hold Down load patterns are seismic forces multiplied by the system overstrength factor.
 4. Magnitudes of an applied Hold Down load calculated at ASD level WITHOUT the overstrength factor.
 5. The overstrength factor will be applied in the combinations during analysis.

Frame Dimensions and Constraints

- # of Stories: 1-Story
- # of Bays: 1-Bay
- Bay 1 Width: 10' 0"
- Maximum Allowable Frame Thickness: 8"

Story 1

- Joint Configuration: Hanging
- Minimum Allowable Opening Elevation: 0"
- Top of Beam Assembly Elevation: 10' 0"
- Left Cantilever Length from Column CL: 0"
- Right Cantilever Length from Column CL: 0"

Beam Parameters

- Top Connection: 2x Nailer
- Bottom Nailers: 2x Nailer

Column Parameters

- Maximum Exterior Column Depth: 1' 0"
- Nailers on Exterior Flanges of Frame: 2x Nailers
- Nailers on Interior Flanges of Frame: 2x Nailers
- Nailers on Column Webs: 2x Nailers

Boundary Conditions

- Boundary Condition / Foundation Type: Pinned / Rectangular Footing w/Slab
- Slab Depth: 8"
- Footing Depth: 2' 8"

Diagram Labels:

- Total Frame Ht = 10' 0"
- Frame Ht = 10' 0"
- Allowable Clearance Ht = 8' 0"
- Top of Beam Assembly Elev. = 10' 0"
- Min. Allowable Opening Elev. = 8' 0"
- Top of Concrete Elev. = 0' 0"
- Top of Footing Elev. = -4"
- Bottom of Footing Elev. = -3' 2"
- Win(wood-wood) = 8' 9"
- Woi-cl = 10' 0"
- Wout = 11' 3"



1732 Palma Dr., Suite 200, Ventura, California 93003 800 754-3030
hardyframe.com

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