

**Table 1.0 Hardy Frame® HFX-Series Product Data and Connectors**

Model Number	Net Height (in)	Depth (in)	HD Dia <sup>1,2</sup> (in)	Top Screw Qty <sup>3A</sup> (ea)	Bottom Screw Qty <sup>3B</sup> (ea)	Edge Screw QTY Available <sup>4</sup> (ea)
HFX-12x78	78"	3 1/2"	1 1/8"	7	6	4
HFX-12x8	92 1/4"			6		
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"					
HFX-18x9	104 1/4"					
HFX-18x10	116 1/4"					
HFX-18x11	128 1/4"					5
HFX-18x12	140 1/4"					
HFX-18x13	152 1/4"					
HFX-24x78	78"	3 1/2"	1 1/8"	18	16	4
HFX-24x8	92 1/4"			15		
HFX-24x9	104 1/4"					
HFX-24x10	116 1/4"					
HFX-24x11	128 1/4"			14	14	5
HFX-24x12	140 1/4"					
HFX-24x13	152 1/4"					
		6				
HFX-32x8	92 1/4"	3 1/2"	7/8"	14	14	N/A
HFX-32x9	104 1/4"					
HFX-32x10	116 1/4"					
HFX-32x11	128 1/4"					
HFX-32x12	140 1/4"					
HFX-32x13	152 1/4"					
HFX-44x8	92 1/4"	3 1/2"	7/8"	17	14	N/A
HFX-44x9	104 1/4"			15		
HFX-44x10	116 1/4"					
HFX-44x11	128 1/4"					
HFX-44x12	140 1/4"			14		
HFX-44x13	152 1/4"					

- Hold Downs must have a 1/2"x3"x3" ASTM A36 Plate Washer double nutted on the embed end that connects to the Panel or Brace Frame base with one Hardened Round, two Flat or two SAE Washers and an ASTM A563 Grade A hex nut on each rod or as specified by the Building Design Professional. Alternate: Plate Washers may be omitted at Panels when rods are ASTM F 1554 GR 36 and a Hardy Frame® Bolt Brace (HFxBB) is installed at the embed end.
- High Strength Hold Downs can be ASTM A 193 Grade B7 (or specified by the Building Design Professional) with 1/2"x3"x3" ASTM A36 Plate Washers double nutted on the embed end that connect to the Panel or Brace Frame base with one Hardened Round and an ASTM A194 Grade 2H heavy hex nut on each rod.
- Screws: 1/4" diameter wood screws with a minimum allowable design value of 311 lbs. (excluding the allowable 1.33 stress increase) when connecting 12 ga. Metal to wood with a specific gravity of 0.50 or greater. Complying screws are Hardy Frame® HFS-Series, USP "WS" Series or equal. **A** Top Screw length is 3" (min) when attaching directly to the collector, 4 1/2" (min) when installing a 2 by filler above. **B** Bottom Screw length is 4 1/2" (min) at Panel and Brace Frame connections, 3" (min) at Hardy Frame® Bearing Plate (HFxBP).
- 1/4" diameter screws at edges are required when installing fillers above greater than 1 1/2" or when specified by the building design professional.

