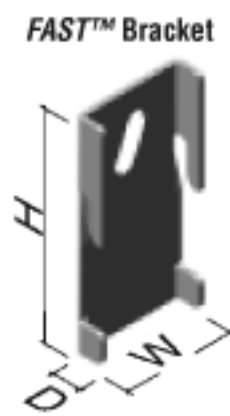


# TABLE 1 - DESIGN INFORMATION



H = 152 (6.0)  
W = 76 (3.0)



H = 51 (2.0)  
W = 65 (2.56)

FAST™ Bracket Size	D mm(in)	W mm (in)	H mm (in)	Maximum Allowable Vertical Load per Bracket <sup>1</sup> [kN (lb.)]	Bracket Spacing <sup>6</sup> [m (ft.)]	MAXIMUM ALLOWABLE VENEER HEIGHT <sup>1</sup>			
						Clay Brick <sup>3</sup> [m (ft.)]	Lightweight Concrete Block <sup>3</sup> [m (ft.)]	Normal weight Concrete Block <sup>3</sup> [m (ft.)]	Natural Stone <sup>3</sup> [m (ft.)]
25 (1.0)	95 (3.75)	188 (7.37)	6.7 (1500)	600 (2)	6.0 (20.0)	8.4 (27.5)	5.5 (18.0)	4.6 (15.3)	
				900 (3)	4.0 (13.0)	5.6 (18.3)	3.7 (12.0)	3.1 (10.4)	
				1200 (4) <sup>8</sup>	3.0 (10.0)	4.2 (13.8)	2.7 (9.0)	2.3 (7.7)	
38 (1.5)	95 (3.75)	188 (7.37)	6.2 (1400)	600 (2)	6.0 (20.0)	8.4 (27.5)	5.5 (18.0)	4.6 (15.3)	
				900 (3)	4.0 (13.0)	5.6 (18.3)	3.7 (12.0)	3.1 (10.4)	
				1200 (4) <sup>8</sup>	3.0 (10.0)	4.2 (13.8)	2.7 (9.0)	2.3 (7.7)	
51 (2.0)	95 (3.75)	151 (5.93)	9.3 (2100)	600 (2)	9.2 (30.0)	12.5 (41.0) <sup>5</sup>	8.2 (27.0)	7.1 (23.3)	
				900 (3)	6.0 (20.0)	8.3 (27.3)	5.5 (18.0)	4.7 (15.6)	
				1200 (4) <sup>8</sup>	4.6 (15.0)	6.2 (20.5)	4.1 (13.5)	3.6 (11.6)	
64 (2.5)	95 (3.75)	151 (5.93)	9.3 (2100)	600 (2)	9.2 (30.0)	12.5 (41.0) <sup>5</sup>	8.2 (27.0)	7.1 (23.3)	
				900 (3)	6.0 (20.0)	8.3 (27.3)	5.5 (18.0)	4.7 (15.6)	
				1200 (4) <sup>8</sup>	4.6 (15.0)	6.2 (20.5)	4.1 (13.5)	3.6 (11.6)	
76 (3.0)	95 (3.75)	151 (5.93)	9.3 (2100)	600 (2)	9.2 (30.0)	12.5 (41.0) <sup>5</sup>	8.2 (27.0)	7.1 (23.3)	
				900 (3)	6.0 (20.0)	8.3 (27.3)	5.5 (18.0)	4.7 (15.6)	
				1200 (4) <sup>8</sup>	4.6 (15.0)	6.2 (20.5)	4.1 (13.5)	3.6 (11.6)	
89 (3.5)	95 (3.75)	151 (5.93)	9.3 (2100)	600 (2)	9.2 (30.0)	12.5 (41.0) <sup>5</sup>	8.2 (27.0)	7.1 (23.3)	
				900 (3)	6.0 (20.0)	8.3 (27.3)	5.5 (18.0)	4.7 (15.6)	
				1200 (4) <sup>8</sup>	4.6 (15.0)	6.2 (20.5)	4.1 (13.5)	3.6 (11.6)	
102 (4.0)	95 (3.75)	151 (5.93)	8.6 (1925)	600 (2)	8.4 (27.5)	11.5 (37.6) <sup>5</sup>	7.5 (24.8)	6.5 (21.4)	
				900 (3)	5.6 (18.5)	7.6 (25.0)	5.0 (16.5)	4.4 (14.3)	
				1200 (4) <sup>8</sup>	4.2 (13.7)	5.7 (18.8)	3.8 (12.4)	3.2 (10.6)	
114 (4.5)	95 (3.75)	151 (5.93)	7.8 (1750)	600 (2)	7.6 (25.0)	10.4 (34.1)	6.9 (22.5)	5.9 (19.4)	
				900 (3)	5.1 (16.7)	7.0 (22.8)	4.6 (15.0)	4.0 (13.0)	
				1200 (4) <sup>8</sup>	3.8 (12.5)	5.2 (17.0)	3.4 (11.2)	2.9 (9.7)	
127 (5.0)	95 (3.75)	151 (5.93)	7.0 (1575)	600 (2)	6.9 (22.5)	9.4 (30.8)	6.2 (20.2)	5.3 (17.5)	
				900 (3)	4.6 (15.0)	6.2 (20.5)	4.1 (13.5)	3.6 (11.7)	
				1200 (4) <sup>8</sup>	3.4 (11.2)	4.7 (15.4)	3.1 (10.1)	2.7 (8.7)	
140 (5.5)	95 (3.75)	151 (5.93)	6.2 (1400)	600 (2)	6.0 (20.0)	8.3 (27.3)	5.5 (18.0)	4.7 (15.5)	
				900 (3)	4.0 (13.3)	5.6 (18.2)	3.7 (12.0)	3.2 (10.4)	
				1200 (4) <sup>8</sup>	3.0 (10.0)	4.1 (13.6)	2.8 (9.0)	2.4 (7.7)	
152 (6.0)	95 (3.75)	151 (5.93)	5.6 (1250)	600 (2)	5.4 (17.9)	7.4 (24.4)	4.9 (16.1)	4.2 (13.9)	
				900 (3)	3.6 (11.9)	5.0 (16.2)	3.3 (10.7)	2.8 (9.3)	
				1200 (4) <sup>8</sup>	2.7 (8.9)	3.7 (12.2)	2.5 (8.0)	2.1 (6.9)	
165 (6.5)	95 (3.75)	151 (5.93)	4.9 (1100)	600 (2)	4.8 (15.7)	6.5 (21.5)	4.3 (14.1)	3.7 (12.2)	
				900 (3)	3.2 (10.5)	4.4 (14.3)	2.9 (9.4)	2.5 (8.2)	
				1200 (4) <sup>8</sup>	2.4 (7.8)	3.2 (10.2)	2.1 (7.1)	1.9 (6.1)	

- Design load is based on results of testing 25 mm (1") and 89 mm (3.5") **FAST™** brackets using a 90 x 90 x 6 mm (3-1/2" x 3-1/2" x 1/4") stiffened shelf angle. Brackets were connected to a steel column with a 12.7 (1/2") bolt vertically centred in the bracket slot. A point load was applied 20 mm (0.79") o/c from the end (toe) of the angle. Tabled allowable loads are (unfactored) service loads, and have been established by test and calculation, and demonstrate a level of safety and performance consistent with North American design standards. Tabled allowable veneer heights are calculated as (maximum allowable vertical load per bracket) ÷ (weight of veneer per unit area x bracket spacing).
- Bolt slip resistance is higher than the stated design loads.
- Veneer weights used are: 170 kg/m<sup>2</sup> (34.8 lb/ft<sup>2</sup>) for clay brick; 125 kg/m<sup>2</sup> (25.6 lb/ft<sup>2</sup>) for 1600 kg/m<sup>3</sup> (100 lb/ft<sup>3</sup>) concrete block; 190 kg/m<sup>2</sup> (38.9 lb/ft<sup>2</sup>) for 2400 kg/m<sup>3</sup> (150 lb/ft<sup>3</sup>) concrete block; and 220 kg/m<sup>2</sup> (45.0 lb/ft<sup>2</sup>) for natural stone. All veneer widths are 90 mm.
- A 15.9 mm (5/8") diameter anchor bolt is recommended for use with the **FAST™** system. Comply with all manufacturer's design and installation requirements pertaining to capacity, edge distances, torquing, etc.
- Where the **FAST™** system is designed/intended to support masonry veneer having panel height exceeding 11m (36'), contact **FERO** for additional design information.
- The bracket spacing may vary by ±100 mm (4").
- Use a heavy duty washer manufactured by **FERO** under the bracket bolt head of the **FAST™** system.
- If bracket spacing is designed/intended to exceed 900 mm, contact **FERO** for additional design information.