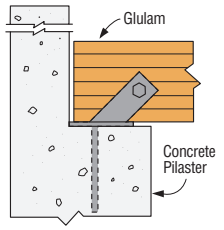
GLB/HGLB/GLBT *Beam Seats*

The GLB Series provides a connection between beam and concrete or CMU pilaster.

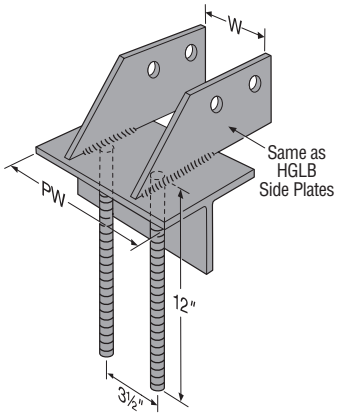
FINISH: Simpson gray paint

INSTALLATION: • Use all specified fasteners. See General Notes.
- Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter *(per 10.4.1.2 CSA 086-01)*.
- Check the rebar spacing requirements on all installations.

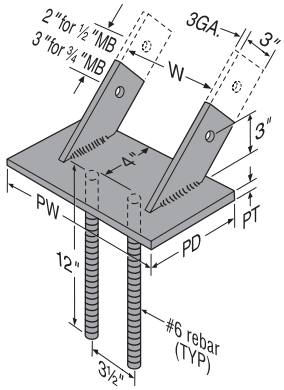
OPTIONS: • Sawn timber and other sizes may be ordered by specifying special dimensions; use the letter designations shown on the illustrations.
- Specify if two-bolt GLB model is desired; see illustration.



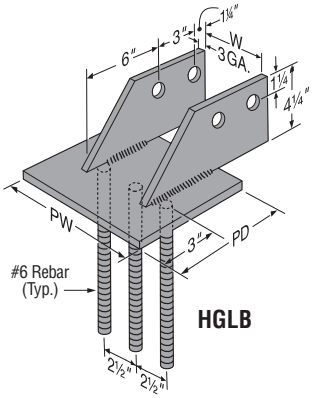
Typical GLB Installation



GLBT



GLB



HGLB

Model No.	Dimensions (in)				Bolts		Factored Bearing Resistance (K_D=1.00)						Factored Horizontal Resistance (K_D=1.15)	
							D.Fir-L Glulam			Spruce-Pine Glulam				
							Concrete Block Masonry[1]		Concrete[2]	Concrete Block Masonry[1]		Concrete[2]	D.Fir-L Glulam	Spruce-Pine Glulam
	W[6]	PD	PW	PT	Qty	Dia	Type N Mortar	Type S Mortar		Type N Mortar	Type S Mortar			
							lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN	lbs kN
GLB5A	5¼	5	7	3 ga	1	½	14220 63.4	17775 79.17	20785 92.58	14220 63.34	17220 76.71	17220 76.71	— —	— —
GLB5B	5¼	6	7	⅜	1	½	17065 76.01	21330 95.01	24715 110.10	17065 76.01	20665 92.05	20665 92.05	— —	— —
GLB5C	5¼	7	7	⅜	1	½	19905 88.67	24885 110.84	29095 129.61	19905 88.67	24110 107.39	24110 107.39	— —	— —
GLB5D	5¼	8	7	⅜	1	½	22750 101.34	28440 126.68	33255 148.13	22750 101.34	27555 122.47	27555 122.74	— —	— —
GLB7A	6⅞	5	9	3 ga	1	¾	18285 81.44	22850 101.79	27880 124.19	18285 81.44	22850 101.79	23100 102.90	— —	— —
GLB7B	6⅞	6	9	⅜	1	¾	21940 97.72	27425 122.15	33455 149.03	21940 97.72	27425 122.15	27720 123.48	— —	— —
GLB7C	6⅞	7	9	⅜	1	¾	25595 114.01	31995 142.51	39035 173.87	25595 114.01	31995 142.51	32340 144.06	— —	— —
GLB7D	6⅞	8	9	⅜	1	¾	29250 130.30	36565 162.87	44610 198.71	29250 130.30	36565 162.87	36960 164.64	— —	— —
HGLBA	3¼	5	10	⅜	2	¾	9635 42.91	9635 42.91	9635 42.91	9635 42.91	9635 42.91	9635 42.91	7980 35.54	7165 31.91
	5¼	5	10	⅜	2	¾	19160 85.34	19160 85.34	19160 85.34	17220 76.71	17220 76.71	17220 76.71	9115 40.60	9115 40.60
	7	5	10	⅜	2	¾	20315 90.48	25390 113.10	27880 124.19	20315 90.48	23100 102.90	23100 102.90	9115 40.60	9115 40.60
	8⅝	5	10	⅜	2	¾	20315 90.48	25390 113.10	34470 153.55	20315 90.48	25390 113.10	28565 127.23	9115 40.60	9115 40.60
HGLBB	3¼	6	10	⅜	2	¾	11560 51.49	11560 51.49	11560 51.49	11560 51.49	11560 51.49	11560 51.49	7980 35.54	7165 31.91
	5¼	6	10	⅜	2	¾	22990 102.41	22990 102.41	22990 102.41	20665 92.05	20665 92.05	20665 92.05	9115 40.60	9115 40.60
	7	6	10	⅜	2	¾	24375 108.58	30470 135.73	33460 149.03	24375 108.58	27720 123.48	27720 123.48	9115 40.60	9115 40.60
	8⅝	6	10	⅜	2	¾	24375 108.58	30470 135.73	41365 184.26	24375 108.58	30470 135.73	34275 152.67	9115 40.60	9115 40.60
HGLBC	3¼	7	10	⅜	2	¾	13490 60.08	13490 60.08	13490 60.08	13490 60.08	13490 60.08	13490 60.08	7980 35.54	7165 31.91
	5¼	7	10	⅜	2	¾	26825 119.48	26825 119.48	26825 119.48	24110 107.39	24110 107.39	24110 107.39	9115 40.60	9115 40.60
	7	7	10	⅜	2	¾	28440 126.68	35550 158.35	39035 173.87	28440 126.68	32340 144.06	32340 144.06	9115 40.60	9115 40.60
	8⅝	7	10	⅜	2	¾	28440 126.68	35550 158.35	48260 214.97	28350 126.28	35550 158.35	39990 178.12	9115 40.60	9115 40.60
HGLBD	3¼	8	10	⅜	2	¾	15415 68.66	15415 68.66	15415 68.66	15415 68.66	15415 68.66	15415 68.66	7980 35.54	7165 31.91
	5¼	8	10	⅜	2	¾	30655 136.55	30655 136.55	30655 136.55	27555 122.74	27555 122.74	27555 122.74	9115 40.60	9115 40.60
	7	8	10	⅜	2	¾	32500 144.77	40630 180.97	44610 198.71	32500 144.77	36960 164.64	36960 164.64	9115 40.60	9115 40.60
	8⅝	8	10	⅜	2	¾	32500 144.77	40630 180.97	55155 245.68	32500 144.77	40630 180.97	45700 203.56	9115 40.60	9115 40.60
GLBT512[4]	—	5¼	12	5/16	2	¾	25595 114.01	31995 142.51	44180 196.79	25595 114.01	31995 142.51	36605 163.05	See foonote 8	
GLBT612[4]	—	6½	12	⅜	2	¾	31690 141.15	39610 176.44	54700 243.64	31690 141.15	39610 176.44	45320 201.88		
GLBT516	—	5¼	16	5/16	2	¾	34125 152.01	42660 190.02	See footnote 3	34125 152.01	42660 190.02	See footnote 3		
GLBT616	—	6½	16	⅜	2	¾	42255 188.21	52815 235.26		42255 188.21	52815 235.26			
GLBT520	—	5¼	20	5/16	2	¾	42660 190.02	53325 237.52		42660 190.02	53325 237.52			
GLBT620	—	6½	20	⅜	2	¾	52815 235.26	66020 294.07		52815 235.26	66020 294.07			

1. Factored bearing resistances for concrete block masonry assume a compressive unit strength of 15.0 MPa (net area) using solid or grouted units as per Table 5 of CSA S304.1-94.
2. Factored bearing resistances for concrete assume a 28 day compressive strength (f'_C) of 15.0 MPa as per CSA A23.3-04.
3. Bearing resistance of wood member will govern for these applications. Calculate factored resistance in accordance with CSA O86.
4. Bearing resistances shown assume a glulam width of 10½". For smaller widths, ensure that the factored bearing resistance of the wood member does not govern.
5. The GLBT5 has a WT4x9 structural tee; the GLTB6 has a WT4x12 structural tee.
6. Specify "W" dimension when ordering HGLB and GLTB beam seats.
7. Factored horizontal resistances include a 15% increase for short term loading; reduce if masonry or concrete is limiting.
8. Use HGLBD factored horizontal resistances for corresponding beam species and width.