

GLB/HGLB/GLBT

Beam Seats

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

Finish: Simpson Strong-Tie® gray paint. Hot-dip galvanized available; specify HDG.

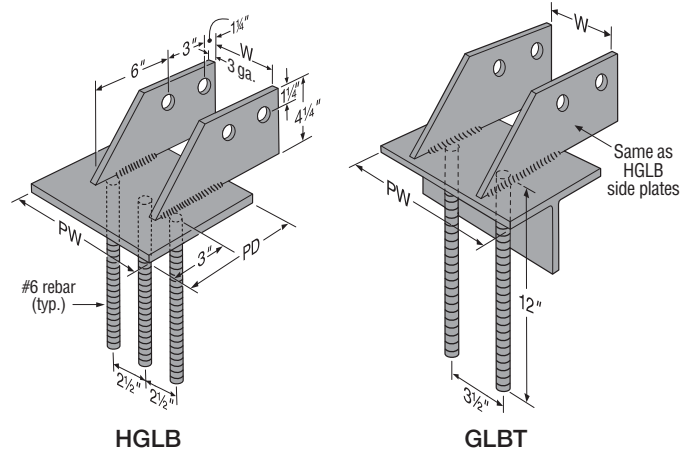
Installation:

- Use all specified fasteners; see General Notes
- Bolt holes in wood shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter (per the 2015 NDS, section 11.1.3.2)
- Check the rebar spacing requirements on all installations

Options:

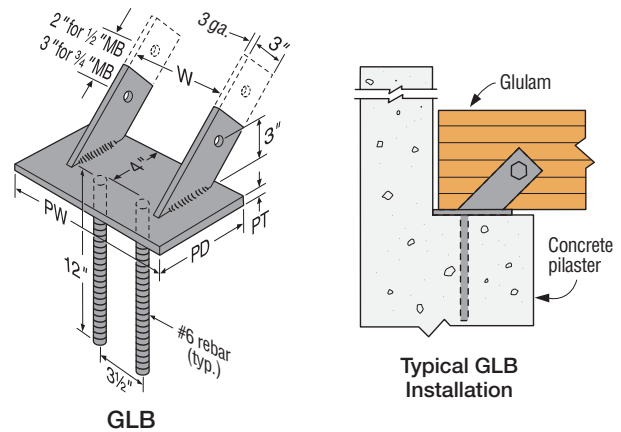
- Beam seats for sawn timber and other sizes may be ordered by specifying special dimensions; use the letter designations shown on the illustrations
- Specify if two-bolt GLB model is desired; see illustration

Codes: See p. 14 for Code Reference Key Chart



These products are available with additional corrosion protection. For more information, see p. 18.

Model No.	Dimensions (in.)				Bolts	Allowable Bearing Loads ^{1,2}		Code Ref.
	W	PD	PW	PT		Masonry @ 375 psi	Wood f _c -perp	
GLB5A	5 1/4	5	7	3 ga.	(1) 1/2	13,125	16,655	I20, L10, L16, FL
GLB5B	5 1/4	6	7	3/8	(1) 1/2	15,750	19,990	
GLB5C	5 1/4	7	7	3/8	(1) 1/2	18,375	23,320	
GLB5D	5 1/4	8	7	3/8	(1) 1/2	21,000	26,650	
GLB7A	6 7/8	5	9	3 ga.	(1) 3/4	16,875	21,940	
GLB7B	6 7/8	6	9	3/8	(1) 3/4	20,250	26,325	
GLB7C	6 7/8	7	9	3/8	(1) 3/4	23,625	30,715	
GLB7D	6 7/8	8	9	3/8	(1) 3/4	27,000	35,100	



1. Allowable bearing stress for masonry is based on an f_c of 1,500 psi using the IBC (ACI 530 2.1.9.3) Allowable Stress Design. Wood bearing is based on f_c-perp of 650 psi.
2. When installed on masonry, use the lesser of the masonry or the wood allowable load values. When installed on concrete, a minimum f_c = 2,500 psi shall be used and use the wood values as the limiting allowable bearing load values.

3. Allowable horizontal loads are bolt values and include increase for wind or earthquake loading. Loads must be reduced if stresses in masonry or concrete are limiting.
4. Beams must fully bear on base plate.
5. The GLBT5 has a WT4x9 structural tee; the GLBT6 has a WT4x12 structural tee.
6. Specify "W" dimension when ordering.
7. Uplift loads do not apply for this connector.

Model No.	Dimensions (in.)				Bolts (Qty. - Dia.)	Allowable Bearing Loads ^{1,2}					Allowable Horizontal Bolt Loads ^{3,4}	Code Ref.	
	Width for Beam (W)	Bearing Plate				Masonry Bearing @ 375 psi	Wood Bearing @ 650 psi on Glulam Width						
		Depth PD	Width PW	Thickness PT			Glulam Beam Width (in.)						
HGLBA	3 1/4 to 9	5	10	3/8	(2) 3/4	18,750	10,155	16,655	21,940	28,440	—	8,260	I20, L10, L16, FL
HGLBB		6	10	3/8	(2) 3/4	22,500	12,190	19,990	26,325	34,125	—	8,260	
HGLBC		7	10	3/8	(2) 3/4	26,250	14,220	23,320	30,715	39,815	—	8,260	
HGLBD		8	10	3/8	(2) 3/4	30,000	16,250	26,650	35,100	45,500	—	8,260	
GLBT512	3 1/4 to 11	5 1/4	12	5/16	(2) 3/4	23,625	10,665	17,490	23,035	29,860	36,685	8,260	
GLBT612		6 1/2	12	3/8	(2) 3/4	29,250	13,205	21,655	28,520	36,970	45,420	8,260	
GLBT516	3 1/4 to 15	5 1/4	16	5/16	(2) 3/4	31,500	10,665	17,490	23,035	29,860	36,685	8,260	
GLBT616		6 1/2	16	3/8	(2) 3/4	39,000	13,205	21,655	28,520	36,970	45,420	8,260	
GLBT520	3 1/4 to 19	5 1/4	20	5/16	(2) 3/4	39,375	10,665	17,490	23,035	29,860	36,685	8,260	
GLBT620		6 1/2	20	3/8	(2) 3/4	48,750	13,205	21,655	28,520	36,970	45,420	8,260	

1. Allowable bearing stress for masonry is based on an f_m of 1,500 psi using the IBC (ACI 530) Allowable Stress Design. Wood bearing is based on f_c-perp of 650 psi.
2. When installed on masonry, use the lesser of the masonry or the wood allowable load values. When installed on concrete, a minimum f_c = 2,500 psi shall be used and use the wood values as the limiting allowable bearing load values.

3. Allowable horizontal loads are bolt values and include increase for wind or earthquake loading. Loads must be reduced if stresses in masonry or concrete are limiting.
4. Beams must fully bear on base plate.
5. The GLBT5 has a WT4x9 structural tee; the GLBT6 has a WT4x12 structural tee.
6. Specify "W" dimension when ordering.
7. Uplift loads do not apply for this connector.