

# GIRDER/TRUSS TO MASONRY/CONCRETE

These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model No.	Qty. Req'd	No. of Plies Min.	Fasteners		DF/SP Uplift	SPF Uplift
			Girder/Truss	Masonry/Concrete <sup>3</sup>	(160)	(160)
H10S	1	1	8-8dx1½	2-¾"x4" Titen HD	1065	915
LTA1	1	1	12-10dx1½	Embedded	1420	1220
H16 <sup>13</sup>	1	1	2-10dx1½	6-¼"x2¼" Titen <sup>9</sup>	1470	1265
H16-2 <sup>13</sup>	1	2	2-10dx1½	6-¼"x2¼" Titen <sup>9</sup>	1470	1265
FSC	1	1	15-10dx1½	1-¾"x7½" Titen HD (Concrete)	1830	1570
LGT2	1	2	14-16d Sinkers	7-¼"x2¼" Titen	2150	1850
THA222-2	1	2	6-16dx2½	14-¾"x1¼" Titen	2150	1850
VGT L/R	1	2	16-SDS ¼"x3"	1-⅝" ATR	2230	1605
PA28 <sup>7</sup>	1	2	20-16d	Embed 4"	2765	2765
HDU2-SDS2.5	1	2	6-SDS ¼"x2½"	1-⅝" ATR	3075	2215
LGT3-SDS2.5	1	3	12-SDS ¼"x2½"	4-¾"x5" Titen HD	3285	2365
LGT4-SDS3	1	4	16-SDS ¼"x2½"	4-¾"x5" Titen HD	3285	2365
HTT4	1	2	18-10dx1½	1-⅝" ATR	3320	2855
FSC	2	1	30-10dx1½	2-¾"x7½" Titen HD	3660	3140
MGT	1	2	22-10d	1-⅝" ATR	3965	3330
HTT22	1	2	32-10d	1-⅝" ATR	4165	3580
HTT4	1	2	18-16dx2½	1-⅝" ATR	4235	3640
THA222-2	2	2	12-16dx2½	28-¼"x2¼" Titen <sup>9</sup>	4300	3700
HTT5	1	2	26-10dx1½	1-⅝" ATR	4350	3740
HDU4-SDS2.5	1	2	10-SDS ¼"x2½"	1-⅝" ATR	4565	3285
HTT5	1	2	26-10d	1-⅝" ATR	4670	4275
VGT	1	2	16-SDS ¼"x3"	1-⅝" ATR	4940	3555
FGTR <sup>10,11</sup>	1	2	18-SDS ¼"x3"	2-½"x5" Titen HD	5000	4300
HTT5	1	2	26-16dx2½	1-⅝" ATR	5090	4375
HPA35 <sup>7</sup>	1	2	27-16d	Embed 8¼"	5265	4525
VGT L/R <sup>12</sup>	2	2	32-SDS ¼"x3"	2-⅝" ATR	5545	3990
HDU5-SDS2.5	1	2	14-SDS ¼"x2½"	1-⅝" ATR	5645	4065
HDU2-SDS2.5	2	2	12-SDS ¼"x2½"	2-⅝" ATR	6150	4430
VGT <sup>12</sup>	2	2	32-SDS ¼"x3"	2-⅝" ATR	7185	5175
HDQ8-SDS3	1	2	20-SDS ¼"x3"	1-7/8" ATR	8325	7210
HTT22 <sup>8</sup>	2	2	64-10d	2-⅝" ATR	8330	7160
VGT <sup>12</sup>	2	3	32-SDS ¼"x3"	2-⅝" ATR	8890	6400
HGT-4	1	4	16-10d	2-¾" ATR	9250	9250
FGTR <sup>10,11,12</sup>	2	2	36-SDS ¼"x3"	4-½"x5" Titen HD	9400	8080
HGT-3	1	3	16-10d	2-¾" ATR	10530	9035
HGT-2	1	2	16-10d	2-¾" ATR	10980	6485
HDU5-SDS2.5	2	2	28-SDS ¼"x2½"	2-⅝" ATR	11290	8130

- Holdown load values are based on a 3" thick vertical member. See Simpson Strong-Tie® Wood Construction Connectors catalog for load values based on different wood thicknesses.
- The Designer must specify anchor type, length and embedment. Refer to technical bulletin T-ANCHORSPEC for guidance on selected products.
- The Designer must evaluate multiple installations not listed.
- ATR—All-Thread Rod or Anchor Bolt.
- PA28 and HPA35 must be embedded in center of a concrete tie beam (*minimum width = 7%*).
- Multiple HDU's and HTT's must be installed staggered on truss.
- For concrete applications use ¼"x1¼" Titen® screws.
- To achieve the published loads, the FGTR must be attached to a grouted and reinforced block concrete wall designed by others to transfer the uplift loads to the foundation.
- FGTR is packaged with Simpson Strong-Tie® Strong-Drive® screws (SDS) and Titen HD® anchors.
- Screw holes on FGTR and VGT are configured to allow for a double installation on a two ply truss.
- For multiple holdowns, verify the allowable tension capacity of the wood member.
- To achieve the loads listed for the MGT and HGT, anchorage into a 8" wide concrete tie-beam or grouted and reinforced CMU tie-beam can be made using Simpson Strong-Tie® SET Epoxy-Tie® adhesive with a minimum embedment depth of 12". Vertical reinforcement may be required to transfer the loads per Designer.
- H16/H16-2 factory sloped to 5:12, but 3:12-7:12 roof slope is acceptable.
- To achieve the loads listed for the VGT single and double connector options, anchorage into a 8" wide concrete tie-beam or grouted and reinforced CMU tie-beam can be made using Simpson Strong-Tie® SET Epoxy-Tie® with a minimum embedment depth of 12", a minimum end distance of 12" and centered in the 8" member. Vertical reinforcement may be required to transfer the loads per Designer.

