

Girder Tiedowns

LUGT series

The LUGT series is an extremely adaptable tiedown for girder trusses and offers several installation options to accommodate different framing conditions. It is an ideal retrofit solution to reinforce truss connections to transfer high wind loads to supporting walls and can be used on either wood framed, concrete or CMU block walls.

- **LUGT1** is designed for wood framed walls
- **LUGTC2** is designed for corner hip trusses on wood framed walls
- **LUGT2, LUGT3** and **LUGT4** are designed for wood frame, concrete or CMU block walls

Features:

- May be installed on the interior or exterior of the wall
- Convenient for retrofit installations
- High uplift capacity suitable for most applications
- Sizes available for 1-ply, 2-ply, 3-ply and 4-ply trusses

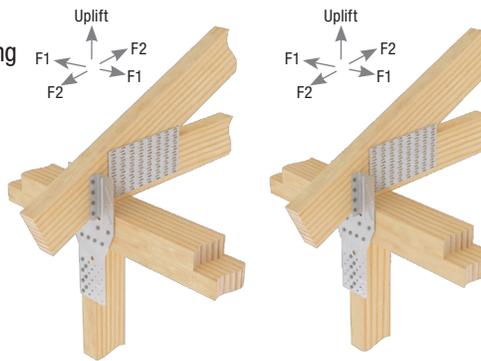
Materials: See chart

Finish: G90 galvanizing

Codes: IBC, FL, LA – LUGT2 / LUGTC2

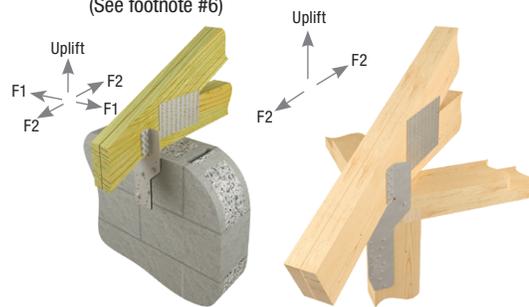
Installation:

- All nail holes must be filled with specified nails to achieve loads listed in the table. Large holes are for alternative concrete/masonry installations and do not need to be filled when used for girder-to-stud applications.
- MiTek WS structural wood screws are included with LUGT3 and LUGT4.
- **For concrete and masonry applications, a moisture barrier may be required, check local building code.**



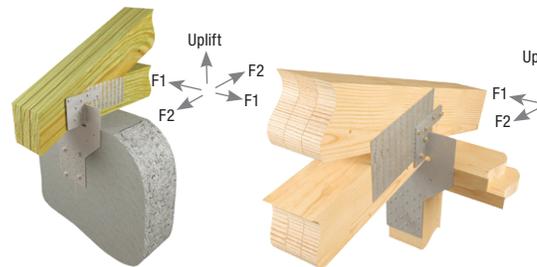
LUGT1
offset stud installation
(See footnote #6)

Typical LUGT1
installation (LUGT2 similar)



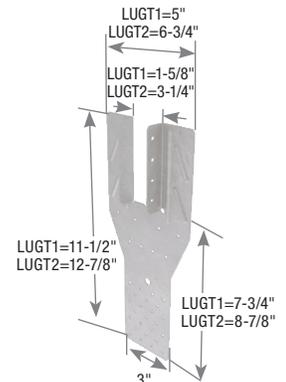
Typical LUGT2
masonry installation

Typical LUGTC2
corner hip installation

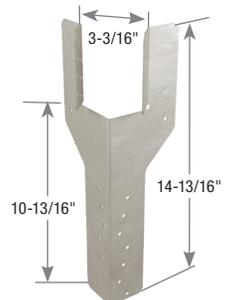


Typical LUGT4
masonry installation
(LUGT3 similar)

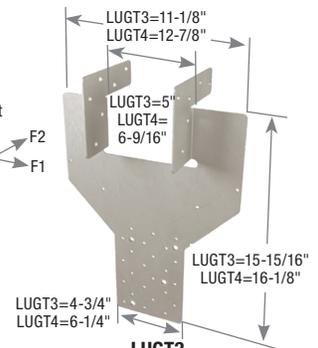
Typical LUGT3
installation
(LUGT4 similar)



LUGT1
(LUGT2 similar)



LUGTC2



LUGT3
(LUGT4 similar)

No. of Piles	MiTek Stock No.	Ref. No.	GA	Fastener Schedule ²								DF/SP			S-P-F			Ctn Qty
				Rafter/Truss		Plate Qty	Stud Qty	CMU/Concrete Wall ⁴		Uplift ⁶ 160%	F1 160%	F2 160%	Uplift ⁶ 160%	F1 160%	F2 160%			
				Qty	Type ^{7,8}			Qty	Screw Anchor ³									
Wood-to-Wood Application																		
1	LUGT1	H10S	18	8	8d x 1-1/2"	8	7	8d x 1-1/2"	--	--	1045	600	175	920	470	175	25	
2	LUGT2	LGT2	14	16	10d	2	14	10d	--	--	2020	880	495	1780	685	495	12	
	LUGTC2	--	14	16	10d	2	14	10d	--	--	2020	--	455	1780	--	355	16	
3	LUGT3	LGT3-SDS2.5	12	12	WS25	4	24	16d Sinker	--	--	3500	1980	890	3080	1575	665	8	
4	LUGT4	LGT4-SDS3	12	16	WS3	5	32	16d Sinker	--	--	4725	--	--	4160	--	--	6	
Concrete or Masonry Application																		
2	LUGT2	LGT2	14	16	10d	--	--	--	5	1/4" x 3"	1655	1015	475	1460	790	475	12	
3	LUGT3	LGT3-SDS2.5	12	12	WS25	--	--	--	4	3/8" x 5"	3380	--	--	3380	--	--	8	
4	LUGT4	LGT4-SDS3	12	16	WS3	--	--	--	4	3/8" x 5"	3380	--	--	3380	--	--	6	

1) Allowable loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) Additional anchorage products to be designed by others.

3) Use DeWalt Screw-Bolt™ + 1/4" dia. x 3" or 3/8" dia. x 5" screw anchors; or equal, installed in accordance with manufacturer's specification. Screw anchors must be ordered separately.

4) For concrete and masonry applications, screw anchors must be installed in fully grouted and reinforced concrete masonry ($f'_m = 1,500$ psi) or reinforced concrete ($f'_c = 2,500$ psi).

5) For proper installation, the number of studs must be equal-to or greater-than the number of roof truss plies.

6) The LUGT1 can be installed with the stud offset from the rafter a maximum of 1" (center-to-center) for a reduced allowable uplift load of 955-lb (DF/SP) and 840-lb (S-P-F).

7) MiTek's WS25 structural wood screws are 1/4" dia. x 2-1/2" long (supplied with LUGT3) and WS3 structural wood screws are 1/4" dia. x 3" long (supplied with LUGT4).

8) **NAILS:** 8d x 1-1/2" are 0.131" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d sinkers are 0.148" dia. x 3-1/4" long.