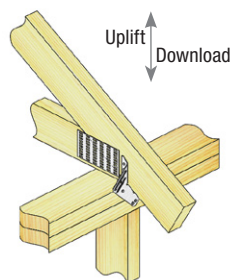


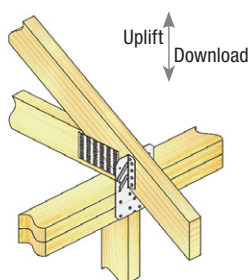


Supplemental Bearing Capacity of Hurricane Ties

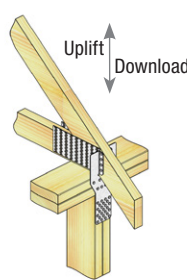
MiTek's hurricane ties are designed and typically used to resist uplift and lateral forces applied to roof framing members from wind and seismic events. As a secondary benefit, many MiTek hurricane ties provide supplemental bearing capacity of roofing members resting on the top of a supporting wall. See table below for single ply trusses and page 2 for multi-ply trusses for additional bearing capacity of select hurricane ties installed on 2x4 or 2x6 walls.



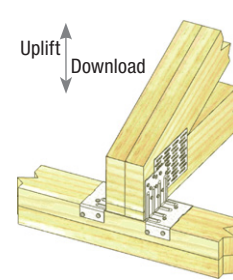
Typical RT15 installation



Typical RT16A installation



Typical LUGT1 installation



Typical SBP4 installation (SBP6 similar)

MiTek Stock No.	Ref No.	GA	Fastener Schedule ^{4,5}						Wood Species	Part Alone ^{1,3,7}			Part + 2x4 Wall Bearing ^{3,7}			Part + 2x6 Wall Bearing ^{3,7}		
			Truss/ Rafter ²		Plate		Stud ⁶			Download			Download			Download		
			Qty	Type	Qty	Type	Qty	Type		100%	115%	125%	100%	115%	125%	100%	115%	125%
1-PLY TRUSS																		
RT15	H1	18	5	8d x 1-1/2	5	8d	--	--	DF	450	450	450	3730	3730	3730	5605	5605	5605
									SP	450	450	450	3415	3415	3415	5110	5110	5110
									SPF	385	385	385	2615	2615	2615	3890	3890	3890
									Hem Fir	395	395	395	2520	2520	2520	3735	3735	3735
RT16A	H10A, H14	18	9	10d x 1-1/2	8	10d	--	--	DF	850	850	850	4130	4130	4130	6005	6005	6005
									SP	850	850	850	3815	3815	3815	5510	5510	5510
									SPF	730	730	730	2960	2960	2960	4235	4235	4235
									Hem Fir	750	750	750	2875	2875	2875	4090	4090	4090
LUGT1	H10S	18	8	8d x 1-1/2	8	8d x 1-1/2	7	8d x 1-1/2	DF	800	805	805	4080	4085	4085	5955	5960	5960
									SP	805	805	805	3770	3770	3770	5465	5465	5465
									SPF	690	690	690	2920	2920	2920	4195	4195	4195
									Hem Fir	705	705	705	2830	2830	2830	4045	4045	4045
SBP4	TBE4	16	12	10d x 1-1/2	20	10d x 1-1/2	--	--	DF	2260	2600	2825	5540	5880	6105	7415	7755	7980
									SP	2440	2805	3050	5405	5770	6015	7100	7465	7710
									SPF	1940	2230	2425	4170	4460	4655	5445	5735	5930
									Hem Fir	1980	2275	2475	4105	4400	4600	5320	5615	5815
SBP6	TBE6	16	12	10d x 1-1/2	28	10d x 1-1/2	--	--	DF	3165	3640	3955	--	--	--	8320	8795	9110
									SP	3415	3930	4270	--	--	--	8075	8590	8930
									SPF	2715	3125	3395	--	--	--	6220	6630	6900
									Hem Fir	2770	3190	3465	--	--	--	6110	6530	6805

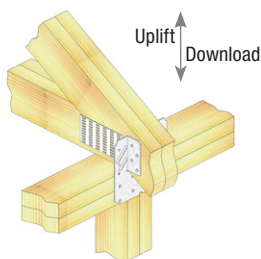
- 1) Allowable loads for "Part Alone" is derived by taking the minimum of calculated nail shear loads and the 1/8" deflection limit.
- 2) Truss/Rafter plies are based on dimensional lumber dimensions and assumed to be perpendicular to grain loading. Where supported and supporting members are different species, use the lower of the two values.
- 3) Allowable loads have been increased for load durations. No further increase is permitted.
- 4) **NAILS:** 8d x 1-1/2 are 0.131" dia. x 1-1/2" long, 10d x 1-1/2 are 0.148" 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.
- 5) **SCREWS:** WS25 Wood Screws are 1/4" dia. x 2-1/2" long (supplied with LUGT3) and WS3 Wood Screws are 1/4" dia. x 3" long (supplied with LUGT4).
- 6) The number of wall studs must be minimum of the number of truss plies.
- 7) Refer to current MiTek Product Catalog for lateral load design values.
- 8) Bearing calculations assume full bearing of truss on top plate of wall.

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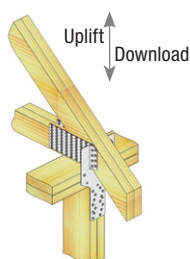
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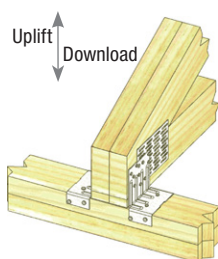
Supplemental Bearing Capacity of Hurricane Ties



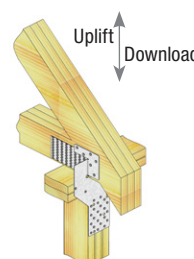
Typical RT16-2 installation



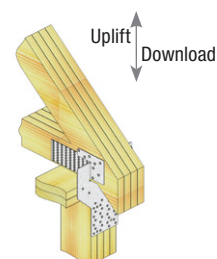
Typical LUGT2 installation



Typical SBP4 installation (SBP6 similar)



Typical LUGT3 installation



Typical LUGT4 installation

MiTek Stock No.	Ref No.	GA	Fastener Schedule ^{4,5}						Wood Species	Part Alone ^{1,3,7}			Part + 2x4 Wall Bearing ^{3,7}			Part + 2x6 Wall Bearing ^{3,7}		
			Truss/ Rafter ²		Plate		Stud ⁶			Download			Download			Download		
			Qty	Type	Qty	Type	Qty	Type		100%	115%	125%	100%	115%	125%	100%	115%	125%
2-PLY TRUSS																		
RT16-2	H10-2	18	8	8d	8	8d	--	--	DF	770	885	965	7335	8435	4260	11085	12750	13855
									SP	830	955	1040	6765	7780	8455	10155	11680	12695
									SPF	665	765	830	5130	5900	6415	7680	8830	9600
									Hem Fir	670	770	840	4925	5665	6155	7355	8460	9195
LUGT2	LGT2	14	16	10d	2	8d x 1-1/2	14	10d	DF	1585	1585	1585	8150	8150	8150	11900	11900	11900
									SP	1585	1585	1585	7520	7520	7520	10910	10910	10910
									SPF	1585	1585	1585	6050	6050	6050	8600	8600	8600
									Hem Fir	1585	1585	1585	5840	5840	5840	8270	8270	8270
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	8885	9235	9465	12635	12985	13215
									SP	2500	2875	3075	8435	8810	9010	11825	12200	12400
									SPF	2000	2300	2500	6465	6765	6965	9015	9315	9515
									Hem Fir	2040	2345	2550	6295	6600	6805	8725	9030	9235
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	13565	14050	14375
									SP	3500	4025	4375	--	--	--	12825	13350	13700
									SPF	2800	3220	3500	--	--	--	9815	10235	10515
									Hem Fir	2855	3285	3570	--	--	--	9540	9970	10255
3-PLY TRUSS																		
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	12165	12515	12745	17790	18140	18370
									SP	2500	2875	3075	11400	11775	11975	16485	16860	17060
									SPF	2000	2300	2500	8695	8995	9195	12520	12820	13020
									Hem Fir	2040	2345	2550	8420	8725	8930	12065	12370	12575
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	18720	19205	19530
									SP	3500	4025	4375	--	--	--	17485	18010	18360
									SPF	2800	3220	3500	--	--	--	13320	13740	14020
									Hem Fir	2855	3285	3570	--	--	--	12880	13310	13595
LUGT3	LGT3-SDS2.5	12	12	WS25	4	8d x 1-1/2	24	16d Sinker	DF	3300	3300	3300	13145	13145	13145	18770	18770	18770
									SP	3300	3300	3300	12200	12200	12200	17285	17285	17285
									SPF	2335	2335	2335	9030	9030	9030	12855	12855	12855
									Hem Fir	2335	2335	2335	8715	8715	8715	12360	12360	12360
4-PLY TRUSS																		
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	15445	15795	16025	22945	23295	23525
									SP	2500	2875	3075	14365	14740	14940	21145	21520	21720
									SPF	2000	2300	2500	10925	11225	11425	16025	16325	16525
									Hem Fir	2040	2345	2550	10545	10850	11055	15405	15710	15915
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	23875	24360	24685
									SP	3500	4025	4375	--	--	--	22145	22670	23020
									SPF	2800	3220	3500	--	--	--	16825	17245	17525
									Hem Fir	2855	3285	3570	--	--	--	16220	16650	16935
LUGT4	LGT4-SDS3	12	16	WS3	5	8d x 1-1/2	32	16d Sinker	DF	3300	3300	3300	16425	16425	16425	23925	23925	23925
									SP	3300	3300	3300	15165	15165	15165	21945	21945	21945
									SPF	2335	2335	2335	11260	11260	11260	16360	16360	16360
									Hem Fir	2335	2335	2335	10840	10840	10840	15700	15700	15700

- 1) Allowable loads for "Part Alone" is derived by taking the minimum of calculated nail shear loads and the 1/8" deflection limit.
- 2) Truss/Rafter plies are based on dimensional lumber dimensions and assumed to be perpendicular to grain loading. Where supported and supporting members are different species, use the lower of the two values.
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