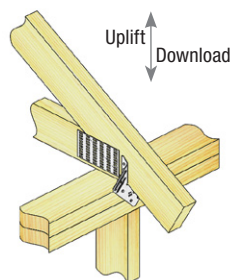
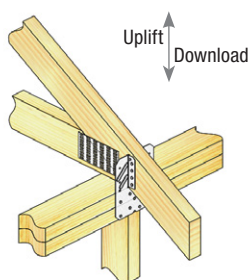


Supplemental Bearing Capacity of Hurricane Ties

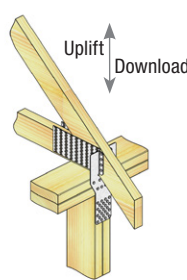
MiTek USP's hurricane ties are designed and typically used to resist uplift and lateral forces applied to roof framing members from wind and seismic events. As a secondary benefit, many USP hurricane ties provide supplemental bearing capacity of roofing members resting on the top of a supporting wall. 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.



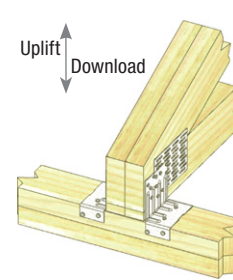
Typical RT15 installation



Typical RT16A installation



Typical LUGT1 installation



Typical SBP4 installation (SBP6 similar)

USP 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			Uplift 160%	Download			Uplift 160%			
			Qty	Type	Qty	Type	Qty	Type		100%	115%	125%		100%	115%	125%				
1-PLY TRUSS																				
RT15	H1	18	5	8d x 1-1/2	5	8d	--	--	DF	500	570	615	3780	3850	3895	650	5655	5725	5770	650
									SP	545	615	665	3510	3580	3630	705	5205	5275	5325	705
									SPF	430	490	525	2660	2720	2755	560	3935	3995	4030	560
									Hem Fir	440	500	540	2565	2625	2665	570	3780	3840	3880	570
RT16A	H10A, H14	18	9	10d x 1-1/2	8	10d	--	--	DF	960	1095	1180	4240	4375	4460	1255	6115	6250	6335	1255
									SP	1050	1185	1280	4015	4150	4245	1350	5710	5845	5940	1350
									SPF	825	940	1010	3055	3170	3240	1075	4330	4445	4515	1075
									Hem Fir	850	955	1040	2975	3080	3165	1095	4190	4295	4380	1095
LUGT1	H10S	18	8	8d x 1-1/2	8	8d x 1-1/2	7	8d x 1-1/2	DF	700	795	860	3980	4075	4140	1045	5855	5950	6015	1045
									SP	765	860	930	3730	3825	3895	1045	5425	5520	5590	1045
									SPF	600	685	735	2830	2915	2965	875	4105	4190	4240	875
									Hem Fir	615	700	755	2740	2825	2880	895	3955	4040	4095	895
SBP4	TBE4	16	20	10d x 1-1/2	20	10d x 1-1/2	--	--	DF	2260	2600	2825	5540	5880	6105	1255	7415	7755	7980	785
									SP	2440	2805	3050	5405	5770	6015	1255	7100	7465	7710	785
									SPF	1940	2230	2425	4170	4460	4655	1055	5445	5735	5930	660
									Hem Fir	1980	2275	2475	4105	4400	4600	1080	5320	5615	5815	675
SBP6	TBE6	16	20	10d x 1-1/2	20	10d x 1-1/2	--	--	DF	3165	3640	3955	--	--	--	--	8320	8795	9110	1255
									SP	3415	3930	4270	--	--	--	--	8075	8590	8930	1255
									SPF	2715	3125	3395	--	--	--	--	6220	6630	6900	1055
									Hem Fir	2770	3190	3465	--	--	--	--	6110	6530	6805	1080

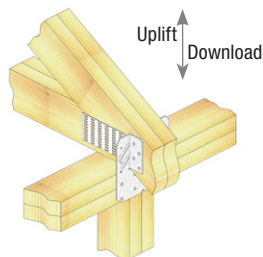
1) Allowable loads for "Part Alone" is derived by taking the minimum of calculated nail shear loads and the 1/8" deflection limit.
 2) Truss/Rafter plies are based on dimensional lumber dimensions and assumed to be perpendicular to grain loading. Where supported and supporting members are different species,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

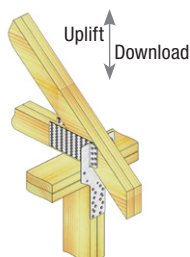
Customer Service & Technical Assistance

Phone: 1-800-328-5934 • Fax: 1-952-898-8605 • Email: USPcustomerservice@mii.com

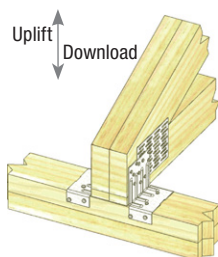
Supplemental Bearing Capacity of Hurricane Ties



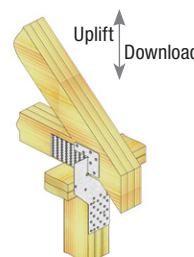
Typical RT16-2 installation



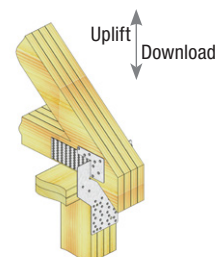
Typical LUGT2 installation



Typical SBP4 installation (SBP6 similar)



Typical LUGT3 installation



Typical LUGT4 installation

USP 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			Uplift 160%	Download			Uplift 160%			
			Qty	Type	Qty	Type	Qty	Type		100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%
2-PLY TRUSS																							
RT16-2	H10-2	18	8	8d	8	8d	--	--	DF	770	885	965	7335	8435	4260	1060	11085	12750	13855	1060			
									SP	830	955	1040	6765	7780	8455	1060	10155	11680	12695	1060			
									SPF	665	765	830	5130	5900	6415	1060	7680	8830	9600	1060			
									Hem Fir	670	770	840	4925	5665	6155	1060	7355	8460	9195	1060			
LUGT2	LGT2	14	16	10d	2	8d x 1-1/2	14	10d	DF	1585	1585	1585	8150	8150	8150	2260	11900	11900	11900	2260			
									SP	1585	1585	1585	7520	7520	7520	2260	10910	10910	10910	2260			
									SPF	1585	1585	1585	6050	6050	6050	1900	8600	8600	8600	1900			
									Hem Fir	1585	1585	1585	5840	5840	5840	1940	8270	8270	8270	1940			
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	8885	9235	9465	1255	12635	12985	13215	785			
									SP	2500	2875	3075	8435	8810	9010	1255	11825	12200	12400	785			
									SPF	2000	2300	2500	6465	6765	6965	1055	9015	9315	9515	660			
									Hem Fir	2040	2345	2550	6295	6600	6805	1080	8725	9030	9235	675			
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	--	13565	14050	14375	1255			
									SP	3500	4025	4375	--	--	--	--	12825	13350	13700	1255			
									SPF	2800	3220	3500	--	--	--	--	9815	10235	10515	1055			
									Hem Fir	2855	3285	3570	--	--	--	--	9540	9970	10255	1080			
3-PLY TRUSS																							
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	12165	12515	12745	1255	17790	18140	18370	785			
									SP	2500	2875	3075	11400	11775	11975	1255	16485	16860	17060	785			
									SPF	2000	2300	2500	8695	8995	9195	1055	12520	12820	13020	660			
									Hem Fir	2040	2345	2550	8420	8725	8930	1080	12065	12370	12575	675			
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	--	18720	19205	19530	1255			
									SP	3500	4025	4375	--	--	--	--	17485	18010	18360	1255			
									SPF	2800	3220	3500	--	--	--	--	13320	13740	14020	1055			
									Hem Fir	2855	3285	3570	--	--	--	--	12880	13310	13595	1080			
LUGT3	LGT3-SDS2.5	12	12	WS25	4	8d x 1-1/2	24	16d Sinker	DF	3300	3300	3300	13145	13145	13145	3855	18770	18770	18770	3855			
									SP	3300	3300	3300	12200	12200	12200	3855	17285	17285	17285	3855			
									SPF	3070	3070	3070	9765	9995	9995	3240	13590	13820	13820	3240			
									Hem Fir	3070	3070	3070	9450	9680	9680	3315	13095	13325	13325	3315			
4-PLY TRUSS																							
SBP4	TBE4	16	20	10d	20	10d	--	--	DF	2320	2670	2900	15445	15795	16025	1255	22945	23295	23525	785			
									SP	2500	2875	3075	14365	14740	14940	1255	21145	21520	21720	785			
									SPF	2000	2300	2500	10925	11225	11425	1055	16025	16325	16525	660			
									Hem Fir	2040	2345	2550	10545	10850	11055	1080	15405	15710	15915	675			
SBP6	TBE6	16	20	10d	20	10d	--	--	DF	3250	3735	4060	--	--	--	--	23875	24360	24685	1255			
									SP	3500	4025	4375	--	--	--	--	22145	22670	23020	1255			
									SPF	2800	3220	3500	--	--	--	--	16825	17245	17525	1055			
									Hem Fir	2855	3285	3570	--	--	--	--	16220	16650	16935	1080			
LUGT4	LGT4-SDS3	12	16	WS3	5	8d x 1-1/2	32	16d Sinker	DF	3300	3300	3300	16425	16425	16425	4640	23925	23925	23925	4640			
									SP	3300	3300	3300	15165	15165	15165	4640	21945	21945	21945	4640			
									SPF	3300	3300	3300	12225	12225	12225	3900	17325	17325	17325	3900			
									Hem Fir	3300	3300	3300	11805	11805	11805	3990	16665	16665	16665	3990			

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.

Customer Service & Technical Assistance

Phone: 1-800-328-5934 • Fax: 1-952-898-8605 • Email: USPcustomerservice@mii.com