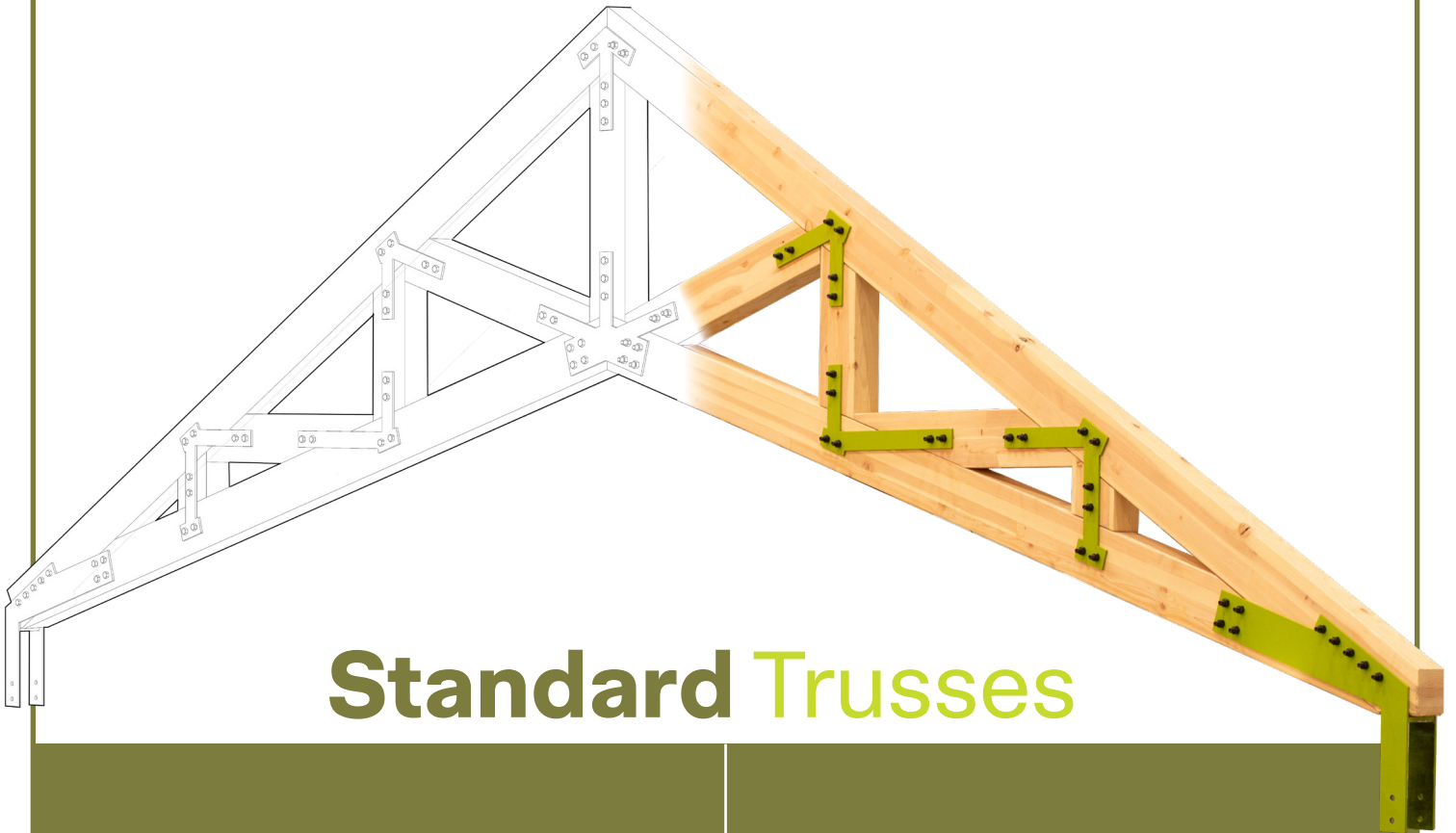




Standard Trusses



Kingpost



Double Howe



Howe



Fink



Scissor

Truss Guide

This guide provides specifiers with technical information about the Glulam and Timber* Truss product lines. We have done the analysis on the trusses in the tables below, but any truss can be specified within the limits of these tables. All trusses are assumed to have distributed loading. For trusses that fall in between depths and lengths, a linear interpolation can be used to get a general idea of possible loading. **These tables are intended to be used to assist in preliminary design. All values are approximate and intended as a guide for the specifying professional.**

Truss Selection

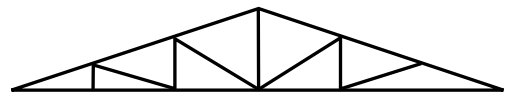
Trusses can be specified by using the following part number designation:

- 1. Truss Type:** Kingpost, Double Howe, Howe, Fink or Scissor
 - 2. Material:** Glulam, Timber
 - 3. Species:** Douglas Fir
 - 4. Pitch:** Pitch of the Top Chord of the Truss
 - 5. Truss Length:** The length of the truss**
 - 6. Column Connection:** "S" for a Steel Column or Concrete Pilaster, "W" for a Wood Column
 - 7. Truss Style:** Ultra-Light, Light, Medium or Heavy
 - 8. Connection Style:** "HP" for Hidden Plate, "SP" for Side Plate, and "HC" for Hidden Plate with Countersinks and Plugs
 - 9. Overhang:** Horizontal length of the top chord overhang**
- **To three decimal places

1 3 5 7 9
↑ ↑ ↑ ↑ ↑
DH-G-DF-4/12-54.000-S-L-HC-3.000
↓ ↓ ↓ ↓ ↓
2 4 6 8



KP-Kingpost
Available in Glulam & Timber



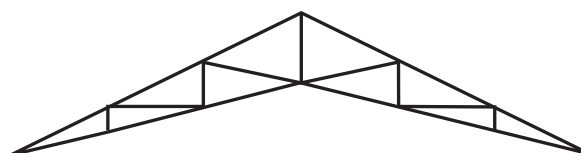
DH-Double Howe
*Available in Glulam Only



H-Howe
Available in Glulam & Timber



F-Fink
Available in Glulam & Timber



SC-Scissor
Available in Glulam & Timber

Truss Type Specifications

Glulam

Ultra-Light

Bottom Chords - 3 1/2" x 6"

Top Chords - 3 1/2" x 6"

Webs - 3 1/2" x 6"

Light

Bottom Chords - 5 1/8" x 13 1/2"

Top Chords - 5 1/8" x 13 1/2"

Webs - 5 1/8" x 7 1/2"

Medium

Bottom Chords - 6 3/4" x 18"

Top Chords - 6 3/4" x 18"

Webs - 6 3/4" x 7 1/2"

Heavy

Bottom Chords - 8 3/4" x 22 1/2"

Top Chords - 8 3/4" x 22 1/2"

Webs - 8 3/4" x 9"

Timber

Ultra-Light

Bottom Chords - 4" x 6"

Top Chords - 4" x 6"

Webs - 4" x 6"

Light

Bottom Chords - 6" x 12"

Top Chords - 6" x 12"

Webs - 6" x 6"

Medium

Bottom Chords - 8" x 18"

Top Chords - 8" x 18"

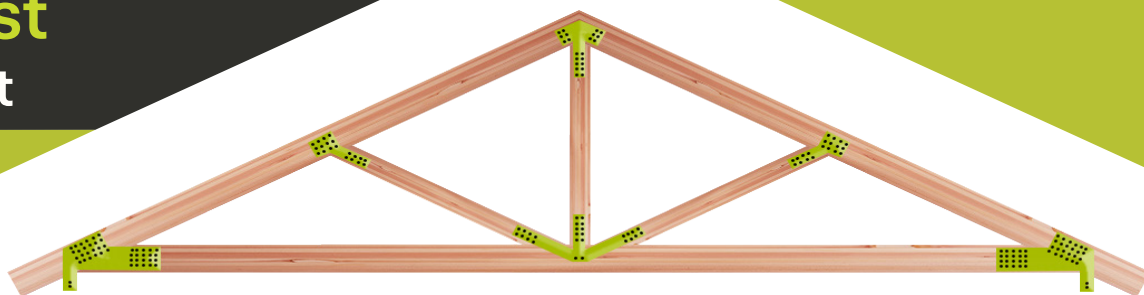
Webs - 8" x 8"

Engineering Responsibility Position Statement

Cascadia is a manufacturer of glulam and timber trusses. It contracts with Western Wood Structures to aid in the development and marketing of its product. Cascadia does not replace or accept the responsibility of the design professional of record for any structure.

Cascadia and Western Wood Structures accept delegation of engineering responsibility only for the products Cascadia manufactures, provided that the application conditions are specified by the design professional of record, or other responsible party when a design professional is not engaged. Cascadia and Western Wood Structures provide engineering in the design of its products and does not displace the need on any project for a design professional of record.

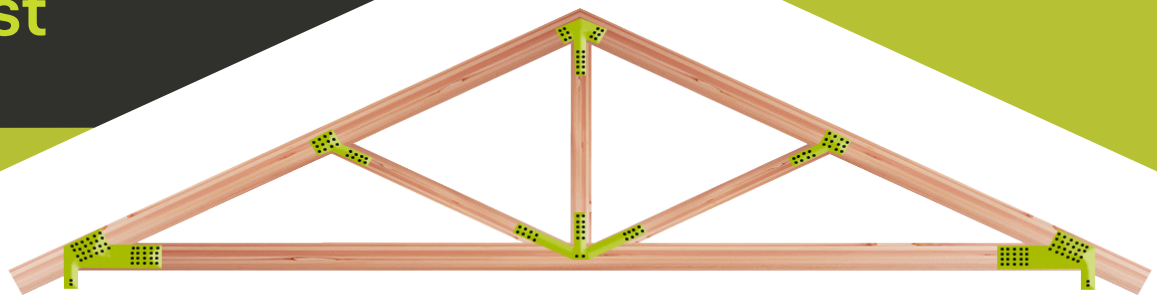
Kingpost Ultra Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - ULTRA LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1524	1956	2124	756	900	948	300	336	348	128	142	146
	5:12	1884	2388	2604	804	960	1020	288	324	336	132	148	153
	6:12	2220	2832	3072	768	924	972	276	324	336	132	148	154
	7:12	2496	3216	3492	732	876	924	264	312	324	128	145	151
	8:12	2388	3048	3300	696	828	876	259	300	315	123	140	145
	9:12	2328	2940	3204	660	792	840	246	284	300	117	132	138
	10:12	2280	2940	3180	624	744	792	234	270	280	110	124	129
	11:12	2280	2916	3144	588	696	744	220	253	265	103	116	121
	12:12	2268	2904	3144	552	660	696	206	235	247	96	108	111

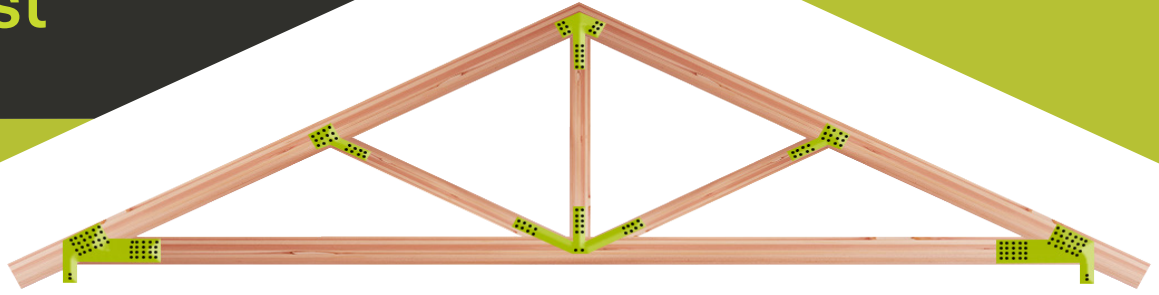
Kingpost Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	4668	5964	6480	2508	3180	3480	1728	2100	2220	1020	1140	1176
	5:12	5184	6636	7260	3060	3900	4272	2004	2400	2520	1128	1248	1296
	6:12	5760	7416	7956	3576	4560	4968	2136	2520	2652	984	1260	1356
	7:12	6240	7980	8640	3984	5100	5580	2196	2580	2700	1128	1260	1296
	8:12	6660	8544	9240	4080	5196	5700	2208	2544	2664	1068	1200	1236
	9:12	6996	9000	9720	3984	5100	5580	2160	2472	2604	1008	1128	1164
	10:12	7260	9264	10080	3900	4980	5436	2028	2328	2412	936	1056	1080
	11:12	7500	9660	10500	3900	4992	5448	1896	2160	2244	876	972	1008
	12:12	7680	9900	10680	3792	4920	5340	1764	2004	2076	816	900	936

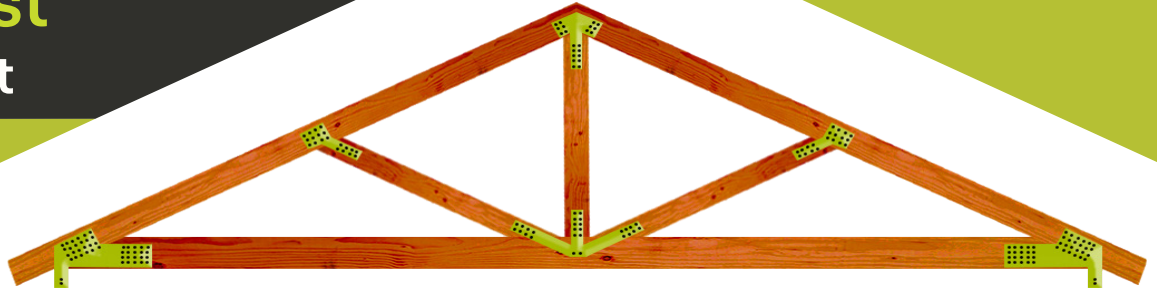
Kingpost Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	7452	9420	10200	4248	5460	5964	2832	3612	3972	2220	2700	2880
	5:12	8040	10320	11160	5100	6540	7140	3516	4440	4860	2568	3036	3216
	6:12	8700	11160	12240	5880	7476	8160	4092	5220	5712	2760	3240	3396
	7:12	9300	11952	12960	6600	8400	9216	4572	5640	6024	2868	3348	3480
	8:12	9900	12780	13800	7032	9000	9840	4656	5736	6120	2820	3288	3444
	9:12	10500	13380	14400	7320	9300	10080	4620	5700	6060	2784	3204	3348
	10:12	10920	13992	15000	7536	9600	10332	4536	5580	5940	2700	3084	3204
	11:12	11256	14160	15540	7656	9792	10596	4500	5424	5796	2520	2868	2976
	12:12	11496	14520	15996	7536	9540	10440	4416	5244	5496	2328	2640	2748

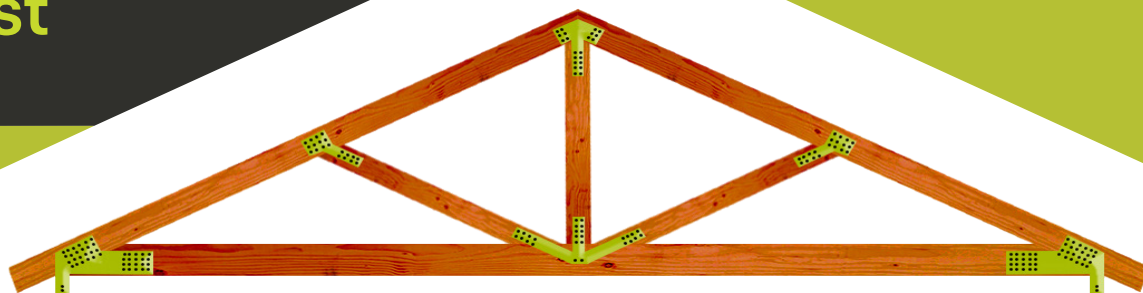
Kingpost Ultra Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - ULTRA LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	876	1116	1224	420	492	516	150	170	177	66	74	76
	5:12	1080	1380	1500	428	504	534	153	176	184	68	76	79
	6:12	1272	1632	1764	408	486	516	147	170	178	67	77	80
	7:12	1440	1848	2004	390	464	492	142	165	174	66	75	79
	8:12	1452	1848	2004	372	463	470	136	159	166	63	73	75
	9:12	1434	1836	1992	354	420	444	129	151	158	60	69	72
	10:12	1416	1800	1956	332	396	420	123	142	150	57	64	67
	11:12	1404	1788	1956	312	372	396	116	134	140	52	60	63
	12:12	1392	1776	1908	297	351	372	108	124	129	49	55	58

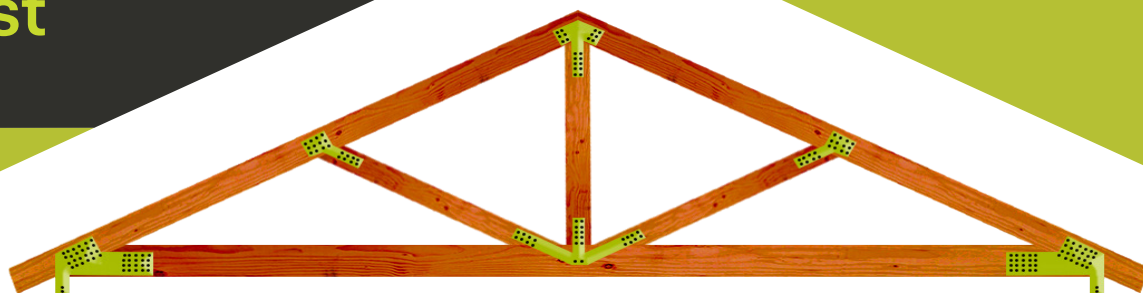
Kingpost Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - LIGHT-TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	2640	3396	3660	1224	1560	1704	786	972	1038	486	570	594
	5:12	3048	3900	4200	1476	1896	2076	900	1092	1170	546	636	660
	6:12	3432	4404	4788	1728	2208	2388	966	1176	1254	546	636	666
	7:12	3768	4800	5232	1872	2364	2544	1002	1212	1284	540	624	648
	8:12	4020	5196	5640	1884	2364	2544	996	1200	1272	516	600	628
	9:12	4272	5472	5880	1908	2388	2568	960	1152	1221	494	570	597
	10:12	4440	5700	6132	1896	2376	2556	924	1092	1161	468	540	565
	11:12	4500	5700	6180	1884	2328	2508	870	1032	1092	440	507	528
	12:12	4440	5640	6120	1836	2280	2448	828	978	1032	412	474	490

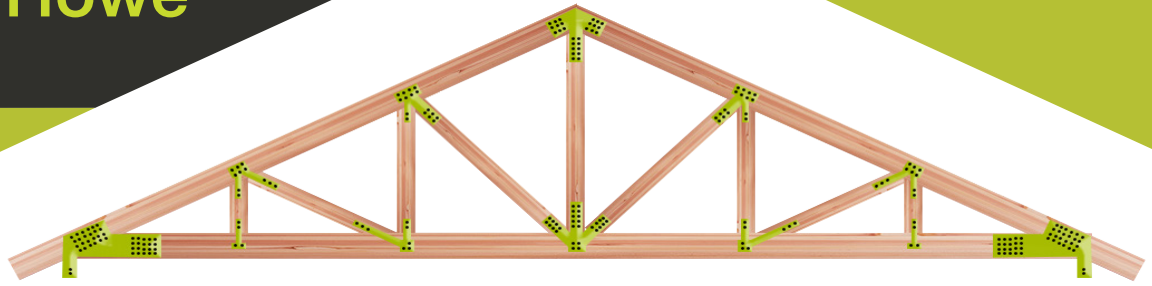
Kingpost Medium Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
KP - MEDIUM - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	5160	6612	7140	2520	3228	3480	1824	2280	2460	1224	1524	1620
	5:12	5664	7200	7824	2952	3828	4140	2088	2616	2820	1392	1716	1836
	6:12	6156	7788	8508	3384	4380	4764	2316	2880	3120	1536	1860	1980
	7:12	6600	8376	9192	3792	4860	5280	2412	3048	3288	1608	1932	2064
	8:12	7032	8964	9780	4080	5220	5676	2496	3120	3360	1620	1956	2064
	9:12	7380	9456	10272	4296	5460	5916	2520	3144	3372	1608	1932	2052
	10:12	7620	9828	10644	4320	5460	5880	2508	3108	3336	1560	1872	1980
	11:12	7860	10080	10896	4296	5400	5844	2484	3060	3276	1488	1764	1860
	12:12	8100	10332	11196	4224	5316	5772	2424	2976	3180	1404	1656	1740

Double Howe Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

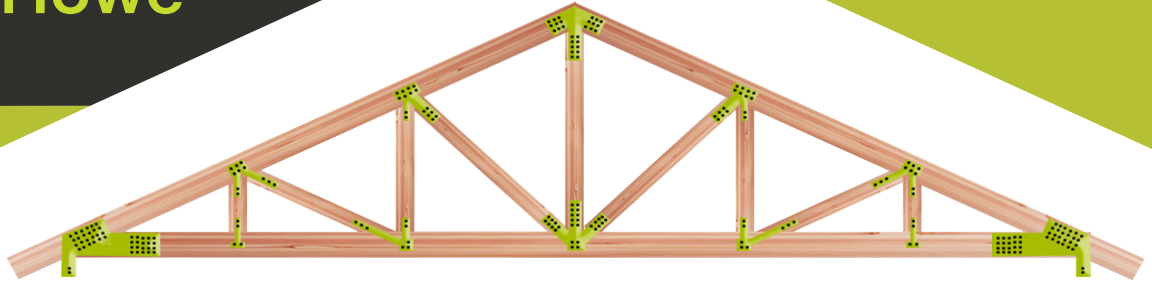
Length		40'			50'			60'			70'		
DH - LIGHT - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	972	1260	1368	816	1008	1092	684	756	780	468	504	516
	5:12	1224	1572	1716	996	1284	1392	756	840	864	504	540	552
	6:12	1452	1860	2028	1236	1404	1452	804	888	912	528	576	588

Length		80'			90'			100'		
DH - LIGHT - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	312	336	336	216	228	240	150	156	162
	5:12	384	408	420	240	252	252	168	174	180
	6:12	336	360	372	252	264	264	174	180	186

Double Howe

Medium

Glulam



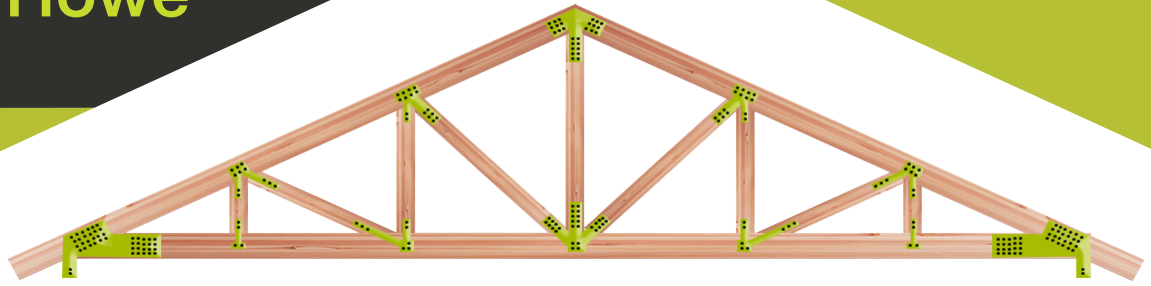
Glulam Allowable Uniform Load Tables (PLF)

Length		40'			50'			60'			70'		
DH - MEDIUM - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1668	2148	2328	1344	1740	1896	1116	1440	1572	960	1248	1368
	5:12	2028	2592	2844	1680	2136	2364	1416	1824	1992	1236	1524	1572
	6:12	2376	3072	3336	1992	2568	2784	1896	2196	2376	1428	1596	1632

Length		80'			90'			100'			110'		
DH - MEDIUM - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	852	972	996	648	708	732	480	516	528	360	384	390
	5:12	972	1080	1104	720	780	804	540	576	588	396	420	432
	6:12	1032	1128	1164	768	816	840	564	600	612	420	444	450

Length		120'		
DH - MEDIUM - G	Pitch	100TL	115TL	125TL
	4:12	264	276	288
	5:12	300	312	318
	6:12	NA	NA	NA

Double Howe Heavy Glulam

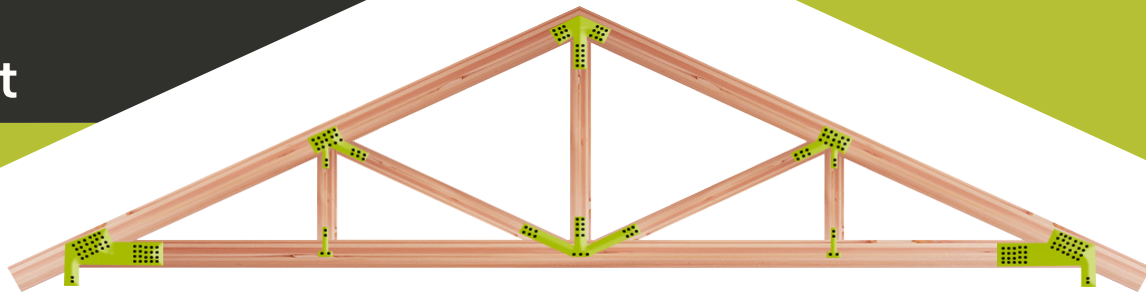


Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'			80'		
DH - HEAVY - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	2136	2736	3012	1728	2232	2436	1476	1920	2100	1296	1680	1836
	5:12	2604	3312	3624	2148	2796	3036	1848	2412	2616	1656	2148	2340
	6:12	3036	3888	4296	2556	3312	3624	2244	2880	3120	2004	2592	2760

Length		90'			100'			110'			120'		
DH - HEAVY - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1152	1500	1632	1044	1308	1344	924	1020	1044	720	780	804
	5:12	1476	1920	1992	1332	1476	1512	1020	1116	1152	804	876	888
	6:12	1800	2028	2100	1464	1596	1644	1092	1188	1212	840	912	936

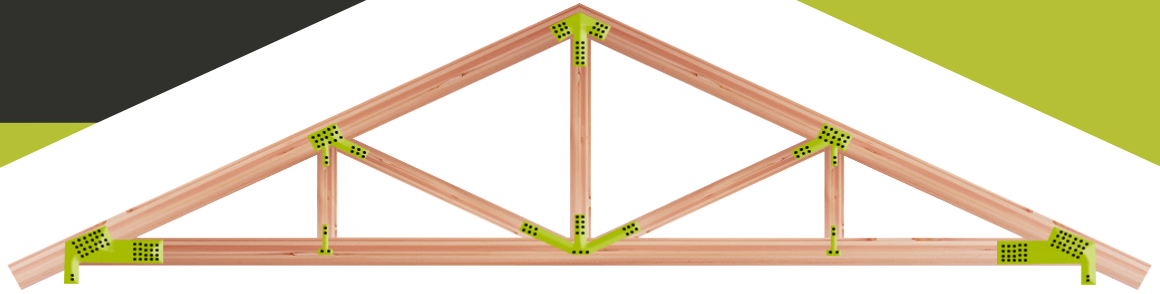
Howe Ultra Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H - ULTRA LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1284	1644	1800	696	888	960	288	324	336	128	141	147
	5:12	1572	2016	2196	816	972	1020	288	324	336	132	147	152
	6:12	1860	2388	2592	768	924	972	276	324	336	130	147	153
	7:12	2124	2712	2976	732	876	936	270	313	327	127	145	148
	8:12	2376	3000	3264	696	840	888	258	300	314	122	138	144
	9:12	2328	2988	3228	660	792	840	246	284	298	116	132	136
	10:12	2292	2916	3180	624	744	792	234	268	282	109	123	128
	11:12	2280	2916	3144	588	696	744	219	253	264	102	115	120
	12:12	2268	2880	3144	552	660	696	205	236	244	94	106	110

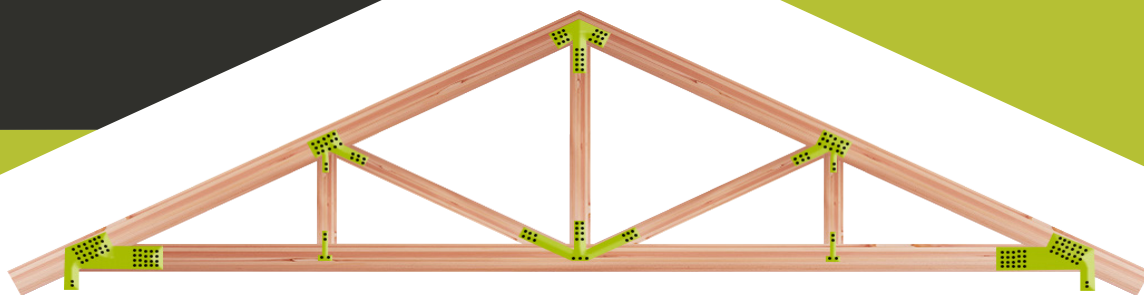
Howe Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	5280	6780	7284	2100	2688	2928	1320	1716	1860	1008	1176	1212
	5:12	5820	7464	8004	2508	3204	3492	1668	2136	2316	1140	1284	1320
	6:12	6240	7980	8580	2964	3780	4080	1992	2556	2700	1200	1332	1368
	7:12	6600	8532	9192	3360	4248	4680	2232	2604	2736	1128	1272	1308
	8:12	6996	8880	9600	3696	4764	5172	2220	2592	2712	1068	1200	1236
	9:12	7200	9204	9972	4020	5124	5520	2196	2508	2616	1008	1128	1164
	10:12	7500	9600	10440	3960	4980	5436	2040	2328	2436	948	1056	1092
	11:12	7680	9840	10716	3900	4980	5436	1908	2172	2244	888	972	1008
	12:12	7800	9996	10872	3840	4944	5316	1776	2016	2088	816	900	936

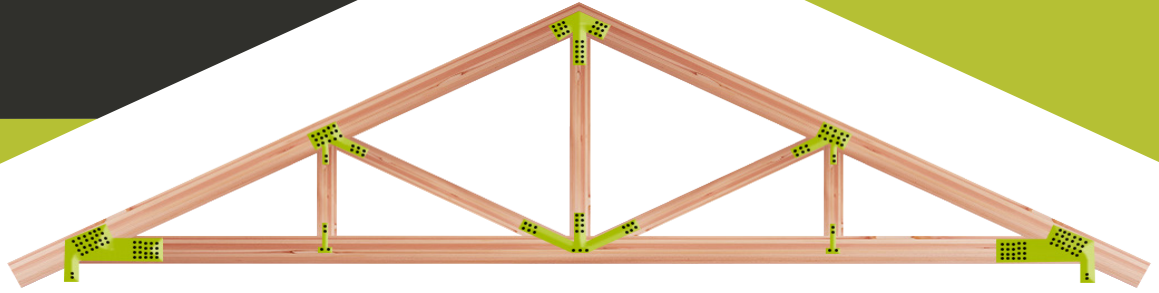
Howe Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'		
H - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	588	636	648	348	372	384	216	228	233
	5:12	612	672	696	360	396	402	222	240	246
	6:12	624	684	708	360	396	408	228	246	252
	7:12	600	660	684	356	387	397	222	240	244
	8:12	576	636	648	-	-	-	-	-	-
	9:12	540	600	612	-	-	-	-	-	-
	10:12	510	558	576	-	-	-	-	-	-
	11:12	474	516	534	-	-	-	-	-	-
	12:12	439	475	489	-	-	-	-	-	-

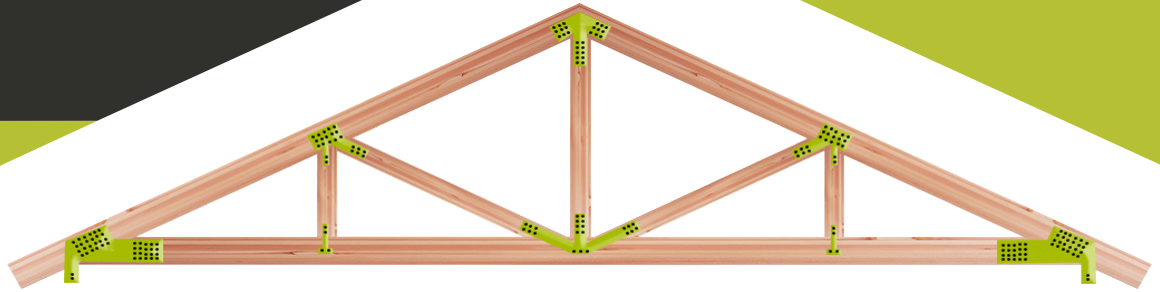
Howe Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	8532	10860	11916	3804	4932	5388	2256	2880	3132	1656	2124	2328
	5:12	9120	11520	12528	4392	5640	6240	2760	3540	3804	2076	2664	2916
	6:12	9672	12216	13440	5016	6480	6984	3228	4140	4500	2496	3180	3468
	7:12	10140	12840	14040	5700	7200	7860	3696	4740	5160	2892	3420	3552
	8:12	10560	13392	14580	6240	7920	8640	4104	5292	5820	2880	3324	3480
	9:12	10896	13800	15072	6648	8592	9240	4500	5796	6228	2820	3216	3384
	10:12	11292	14292	15492	7140	9204	9948	4560	5712	6000	2712	3096	3204
	11:12	11520	14520	15900	7476	9600	10440	4500	5520	5820	2532	2880	3000
	12:12	11760	15060	16320	7464	9600	10428	4440	5280	5580	2340	2640	2760

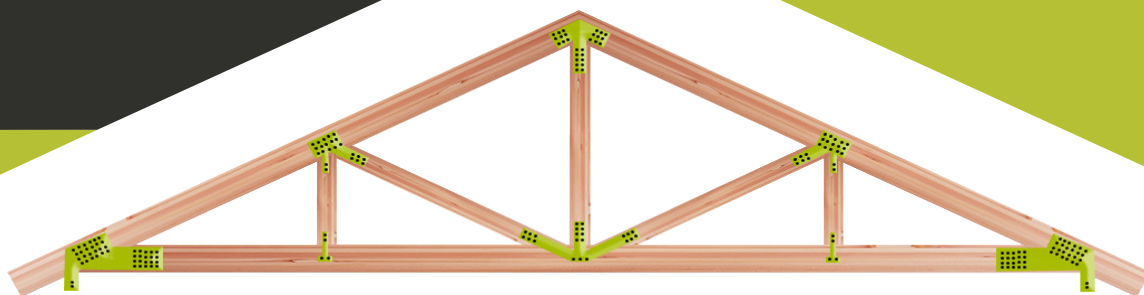
Howe Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'			80'		
H - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1452	1764	1812	1008	1104	1128	660	708	720	420	468	480
	5:12	1692	1956	1980	1080	1188	1224	684	744	768	432	480	492
	6:12	1752	1992	2052	1104	1212	1248	696	762	780	444	492	504
	7:12	1800	2004	2052	1056	1176	1200	678	738	758	450	492	504
	8:12	1680	1896	1956	-	-	-	-	-	-	-	-	-
	9:12	1584	1764	1836	-	Length		90'			100'		
	10:12	1476	1656	1704	-	H - MEDIUM - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL
	11:12	1380	1536	1572	-		4:12	276	300	312	192	204	216
	12:12	1272	1416	1464	-		5:12	300	324	336	216	228	234
							6:12	312	336	348	222	240	246
							7:12	307	336	342	NA	NA	NA

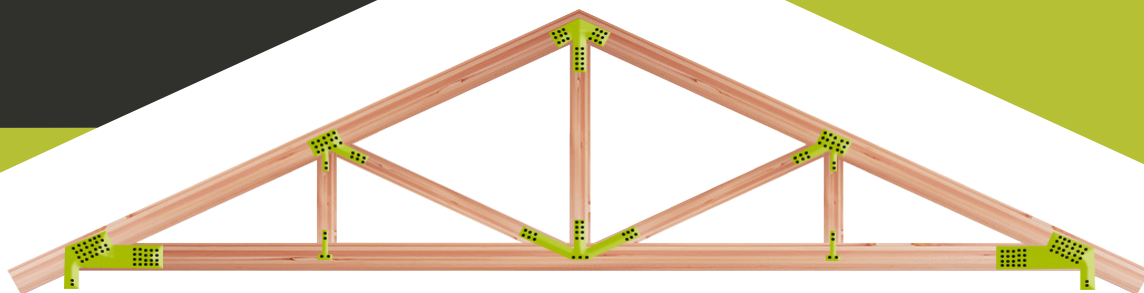
Howe Heavy Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		40'			50'			60'			70'		
H - HEAVY - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	2556	3300	3624	2208	2832	3060	1860	2400	2628	1584	1776	1836
	5:12	3144	4104	4476	2760	3540	3900	2364	2820	2940	1728	1932	1992
	6:12	3780	4884	5280	3444	4368	4620	2568	2940	3048	1800	1992	2040
	7:12	4356	5616	6000	3804	4500	4740	2604	2940	3060	1716	1920	1992
	8:12	4908	6228	6840	3780	4440	4644	2520	2832	2940	-	-	-
	9:12	5292	6780	7200	3720	4320	4500	2340	2652	2760	-	-	-
	10:12	5460	6600	7020	3588	4140	4320	2196	2496	2580	-	-	-
	11:12	5304	6360	6696	3384	3840	3996	2040	2316	2400	-	-	-
	12:12	5196	6144	6420	3144	3576	3696	1908	2136	2220	-	-	-

Howe Heavy Glulam

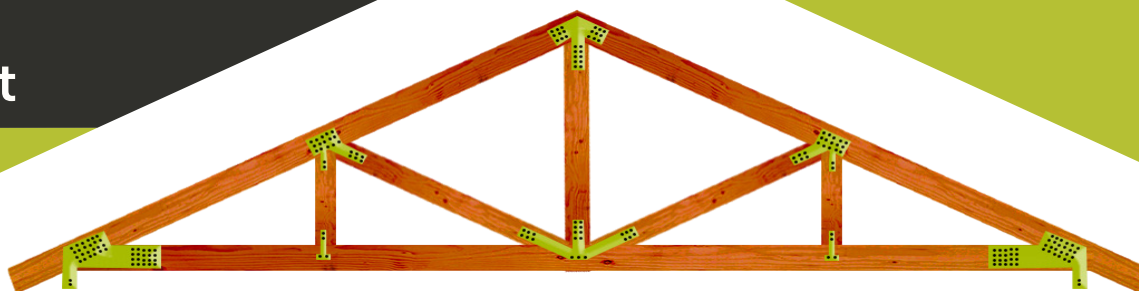


Glulam Allowable Uniform Load Tables (PLF)

Length		80'			90'			100'			110'		
H - HEAVY - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1044	1164	1212	732	804	828	540	588	600	396	432	444
	5:12	1080	1236	1272	780	864	900	576	636	648	432	468	480
	6:12	1104	1248	1296	828	912	948	588	648	672	438	480	492
	7:12	1080	1224	1272	780	876	900	576	636	660	432	480	492

Length		120'		
H - HEAVY - G	Pitch	100TL	115TL	125TL
	4:12	288	312	324
	5:12	324	348	360
	6:12	330	360	372
	7:12	324	360	369

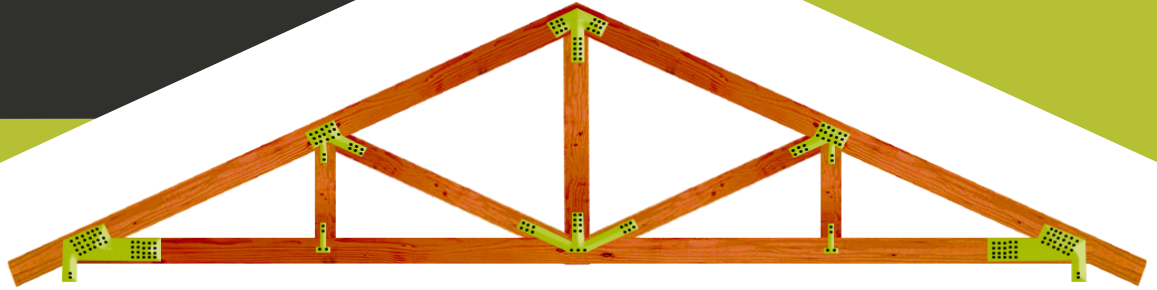
Howe Ultra Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H-ULTRA LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	732	936	1020	396	504	528	150	169	177	64	73	75
	5:12	900	1164	1260	430	510	534	150	171	180	67	75	79
	6:12	1068	1380	1488	408	486	516	171	170	177	67	76	79
	7:12	1236	1584	1704	392	462	495	141	165	172	64	75	78
	8:12	1380	1764	1896	372	439	471	135	158	165	62	72	74
	9:12	1428	1800	1968	352	416	444	129	150	157	59	67	70
	10:12	1416	1788	1968	331	393	417	123	141	148	55	63	66
	11:12	1404	1776	1944	312	372	392	115	132	138	51	58	61
	12:12	1392	1764	1920	294	351	369	106	123	128	48	54	56

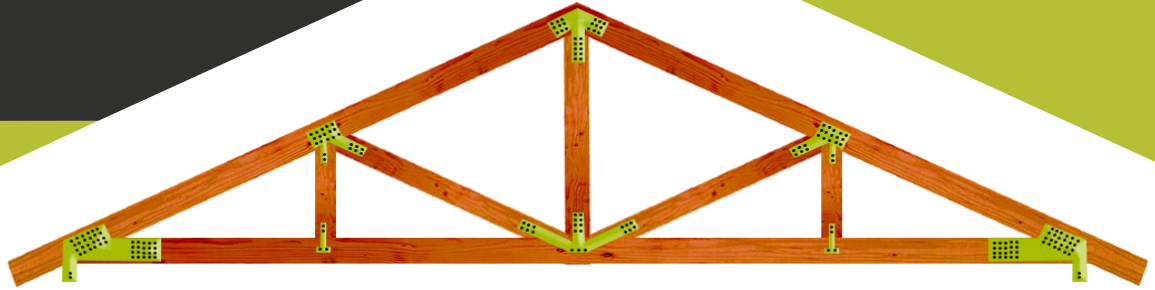
Howe Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H- LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	2640	3396	3660	1044	1344	1464	696	900	972	492	576	606
	5:12	2940	3780	4116	1260	1620	1740	870	1116	1206	552	642	672
	6:12	3240	4164	4554	1470	1890	2028	984	1188	1272	552	636	672
	7:12	3540	4548	4968	1668	2148	2304	1014	1233	1296	540	624	648
	8:12	3840	4932	5364	1848	2382	2568	996	1200	1272	516	600	624
	9:12	4080	5220	5700	1944	2424	2604	960	1152	1224	492	570	594
	10:12	4320	5508	6012	1920	2412	2592	924	1104	1164	468	540	564
	11:12	4512	5760	6276	1896	2376	2544	876	1044	1092	438	504	528
	12:12	4596	5820	6300	1860	2304	2472	828	984	1032	414	468	492

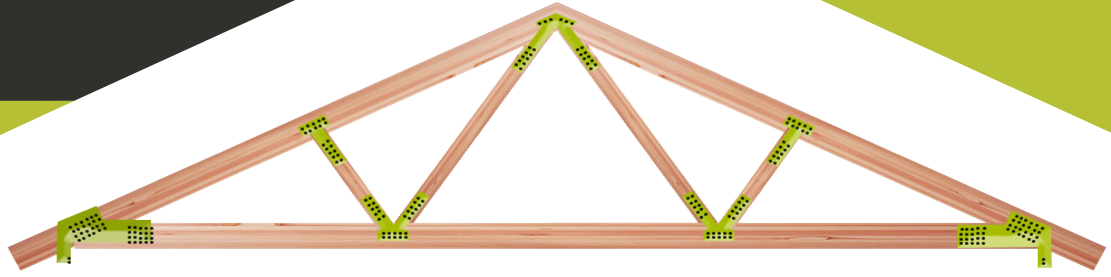
Howe Medium Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
H-MEDIUM - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	5940	7620	8280	2280	2928	3216	1380	1788	1944	1020	1320	1440
	5:12	6300	8040	8880	2616	3360	3660	1680	2160	2340	1260	1620	1776
	6:12	6660	8580	9360	3000	3840	4152	1980	2532	2736	1500	1920	2040
	7:12	7020	9120	9840	3348	4308	4644	2220	2880	3108	1632	1980	2100
	8:12	7380	9480	10200	3672	4716	5064	2460	3156	3468	1620	1980	2100
	9:12	7680	9780	10560	3936	5064	5448	2580	3204	3444	1620	1944	2064
	10:12	7860	10020	10860	4140	5352	5772	2544	3180	3408	1572	1872	1992
	11:12	8040	10260	11160	4368	5544	6024	2508	3096	3324	1488	1776	1860
	12:12	8220	10500	11460	4320	5460	5844	2472	3012	3240	1416	1668	1752

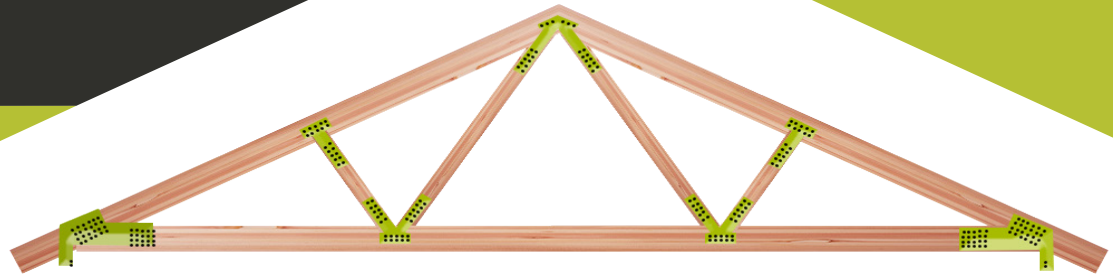
Fink Ultra Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F - ULTRA LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1608	2052	2232	756	900	960	276	312	324	127	141	146
	5:12	1968	2520	2736	792	948	1008	276	324	336	132	147	152
	6:12	2280	2904	3204	756	912	972	276	312	336	130	147	153
	7:12	2436	3120	3396	732	876	924	271	314	328	128	145	151
	8:12	2388	3048	3300	696	840	888	260	301	314	122	139	145
	9:12	2352	2976	3228	660	792	840	248	283	296	116	132	138
	10:12	2328	2976	3216	632	754	792	234	268	280	109	124	129
	11:12	2280	2916	3204	598	710	750	219	253	265	103	115	120
	12:12	2292	2916	3156	564	660	702	206	236	247	96	108	111

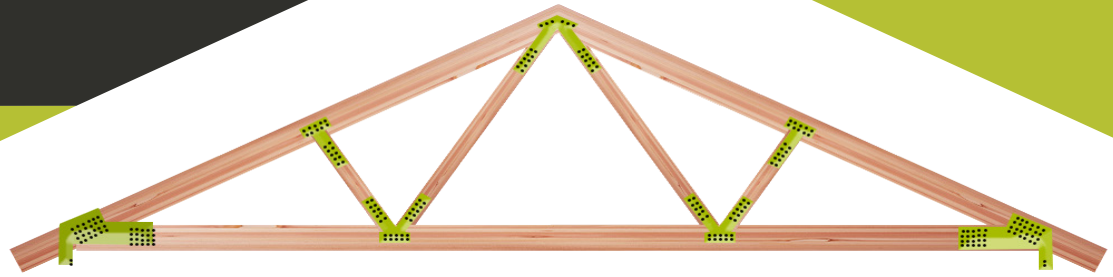
Fink Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	4920	6240	6840	2616	3348	3648	1740	2160	2280	1032	1152	1176
	5:12	5424	7032	7536	3120	4020	4392	2040	2424	2520	1128	1260	1308
	6:12	6000	7560	8340	3696	4680	5100	2148	2544	2652	1176	1308	1356
	7:12	6396	8160	8880	4092	5280	5760	2208	2580	2700	1128	1260	1296
	8:12	6660	8544	9240	4116	5232	5712	2196	2544	2664	1068	1200	1236
	9:12	6900	8900	9600	4056	5124	5580	2160	2484	2580	1008	1128	1164
	10:12	7200	9240	9960	3996	5040	5496	2052	2364	2436	948	1056	1092
	11:12	7320	9396	10140	3936	5040	5472	1944	2196	2268	888	984	1020
	12:12	7440	9552	10320	3876	4980	5280	1812	2028	2124	828	912	942

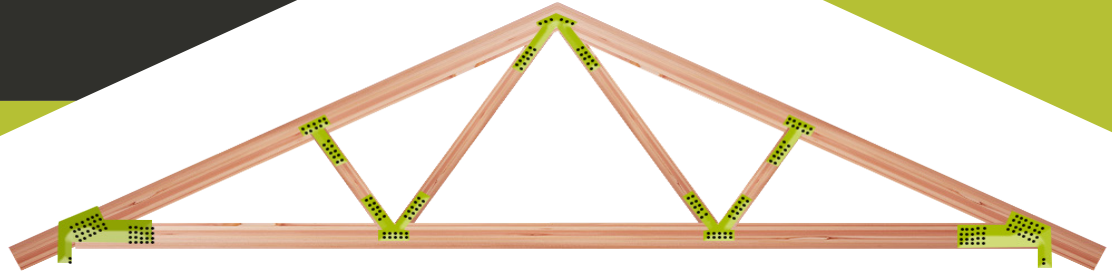
Fink Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'		
F - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	576	624	648	348	360	372	216	228	234
	5:12	600	660	684	360	384	396	222	240	246
	6:12	612	672	696	366	396	402	228	240	246
	7:12	600	660	678	354	384	396	223	240	246
	8:12	576	633	648	-	-	-	-	-	-
	9:12	540	600	612	-	-	-	-	-	-
	10:12	510	564	576	-	-	-	-	-	-
	11:12	480	522	534	-	-	-	-	-	-
	12:12	438	480	492	-	-	-	-	-	--

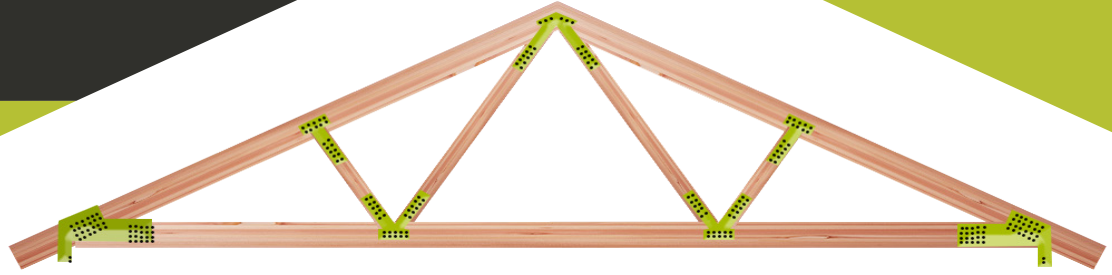
Fink Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	7800	9936	10896	4536	5820	6240	2928	3720	4056	2220	2808	2964
	5:12	8496	10860	11868	5376	6900	7440	3564	4536	4980	2628	3120	3276
	6:12	9792	11700	12660	6216	7920	8640	4200	5352	5844	2808	3300	3468
	7:12	9600	12240	13440	6720	8640	9300	4620	5724	6060	2880	3360	3516
	8:12	10080	13020	14100	7080	9000	9720	4740	5976	6540	2820	3288	3420
	9:12	10500	13320	14592	7200	9276	10092	4620	5700	6060	2784	3180	3324
	10:12	10800	13596	15000	7392	9396	10296	4560	5556	5880	2664	3060	3180
	11:12	10920	13896	15276	7452	9480	10440	4464	5352	5688	2544	2880	3000
	12:12	11004	14100	15492	7596	9576	10440	4344	5148	5448	2400	2700	2820

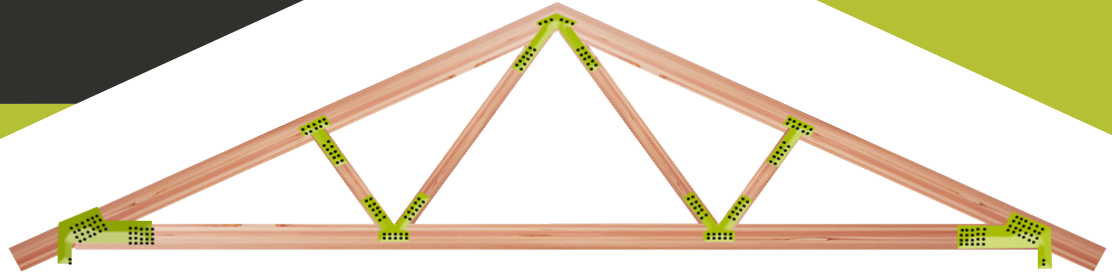
Fink Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'			80'		
F - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1512	1704	1764	984	1080	1104	636	684	708	408	444	456
	5:12	1668	1872	1944	1116	1176	1200	672	732	756	432	480	492
	6:12	1740	1956	2028	1086	1188	1224	684	744	768	444	492	504
	7:12	1752	1956	2016	1056	1152	1188	672	732	756	456	489	504
	8:12	1668	1860	1920	-	-	-	-	-	-	-	-	-
	9:12	1572	1764	1824	-	Length			90'			100'	
	10:12	1476	1644	1716	-	F - MEDIUM - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL
	11:12	1380	1536	1596	-		4:12	276	300	312	192	204	216
	12:12	1284	1428	1476	-		5:12	300	324	336	216	228	240
							6:12	312	336	348	228	240	252
							7:12	309	339	345	-	-	-

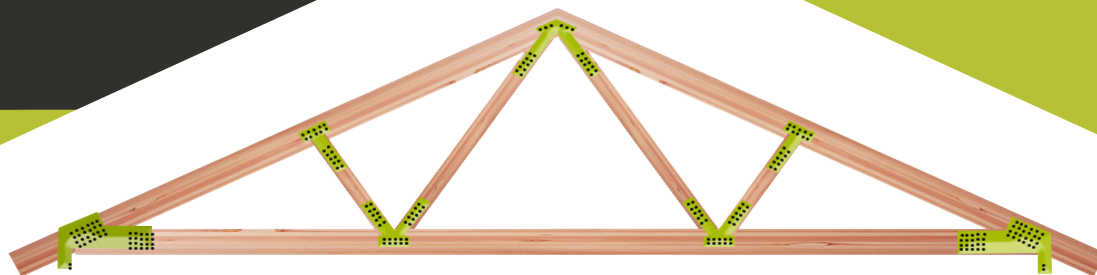
Fink Heavy Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		40'			50'			60'			70'		
F - HEAVY - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	3408	4428	4800	3000	3624	3840	2184	2496	2604	1512	1680	1728
	5:12	4260	5460	5880	3384	4020	4284	2412	2772	2880	1704	1896	1956
	6:12	4980	6420	6840	3600	4284	4500	2520	2880	3000	1776	1968	2040
	7:12	5400	6660	7080	3720	4380	4620	2544	2904	3000	1704	1896	1956
	8:12	5460	6720	7176	3720	4356	4560	2508	2820	2940	-	-	-
	9:12	5496	6660	7080	3660	4260	4440	2364	2652	2760	-	-	-
	10:12	5304	6480	6840	3528	4068	4224	2208	2484	2580	-	-	-
	11:12	5220	6240	6552	3396	3840	3996	2100	2328	2412	-	-	-
	12:12	5040	6000	6300	3180	3600	3732	1740	1980	2052	-	-	-

Fink Heavy Glulam

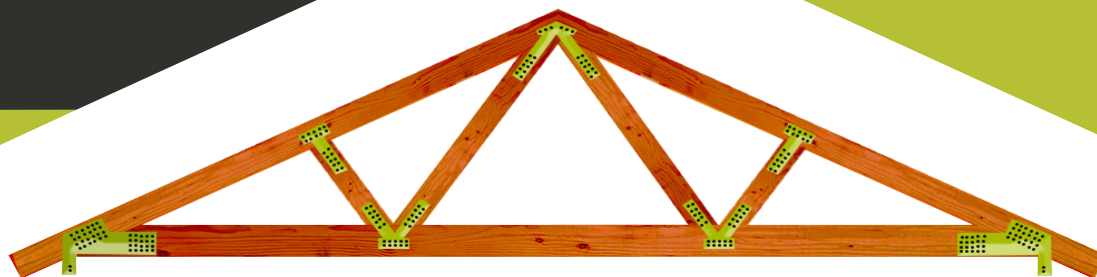


Glulam Allowable Uniform Load Tables (PLF)

Length		80'			90'			100'			110'		
F - HEAVY - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	1512	1680	1728	1032	1140	1176	744	816	840	540	588	612
	5:12	1704	1896	1956	1080	1212	1260	780	876	900	576	636	660
	6:12	1776	1968	2040	1092	1236	1284	792	888	924	588	648	672
	7:12	1704	1896	1956	1092	1212	1260	792	876	900	588	648	666

Length		120'		
F - HEAVY - G	Pitch	100TL	115TL	125TL
	4:12	396	432	444
	5:12	432	468	480
	6:12	444	480	492
	7:12	444	480	498

Fink Ultra Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F-ULTRA LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	912	1164	1260	420	498	522	147	168	175	64	73	75
	5:12	1116	1428	1536	420	498	522	147	170	177	67	76	79
	6:12	1308	1680	1800	408	480	510	147	170	177	67	76	79
	7:12	1476	1896	2064	390	462	492	141	165	173	66	75	78
	8:12	1440	1860	2016	372	444	468	136	159	165	63	72	75
	9:12	1428	1824	1980	354	354	444	130	151	157	60	68	71
	10:12	1416	1812	1968	336	318	420	123	142	148	56	63	66
	11:12	1404	1800	1944	318	376	396	115	133	139	52	59	61
	12:12	1392	1788	1944	300	354	372	108	123	129	48	55	57

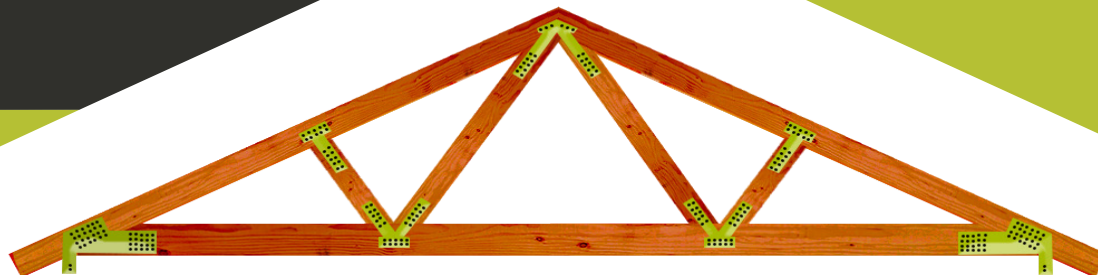
Fink Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F- LGIHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	2820	3588	3936	1236	1584	1740	792	972	1044	486	570	597
	5:12	3204	4092	4476	1500	1920	2100	900	1104	1176	540	624	654
	6:12	3588	4596	5016	1752	2244	2448	960	1176	1248	540	624	654
	7:12	3960	5040	5496	1884	2364	2544	1002	1212	1284	528	618	648
	8:12	4200	5400	5892	1896	2364	2556	990	1200	1272	516	600	624
	9:12	4320	5580	6060	1908	2364	2568	966	1158	1224	492	570	597
	10:12	4440	5760	6228	1884	2364	2520	930	1104	1164	456	528	552
	11:12	4464	5700	6180	1860	2304	2472	900	1080	1140	444	507	528
	12:12	4380	5580	6060	1824	2244	2424	840	984	1044	417	474	492

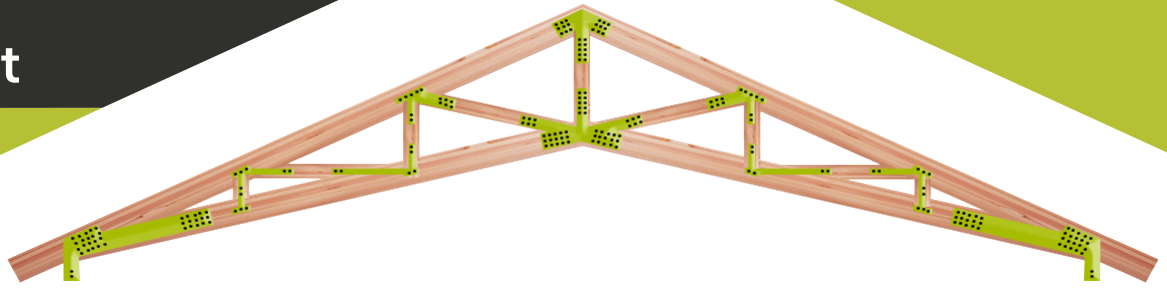
Fink Medium Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
F-MEDIUM - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	5400	6984	7500	2580	3336	3660	1848	2328	2520	1248	1536	1632
	5:12	5940	7500	8280	3060	3912	4308	2124	2664	2892	1404	1740	1848
	6:12	6360	8100	8880	3480	4488	4860	2304	2916	3120	1524	1872	1980
	7:12	6780	8700	9480	3900	4980	5388	2436	3060	3276	1596	1944	2076
	8:12	7080	9060	9900	4260	5400	5880	2484	3120	3348	1596	1944	2064
	9:12	7380	9420	10200	4284	5460	5892	2496	3108	3360	1584	1920	2016
	10:12	7560	9600	10380	4260	5400	5820	2460	3072	3312	1572	1860	1968
	11:12	7728	9768	10560	4236	5340	5748	2448	3012	3228	1500	1788	1884
	12:12	7800	9936	10740	4164	5220	5640	2376	2928	3120	1440	1692	1776

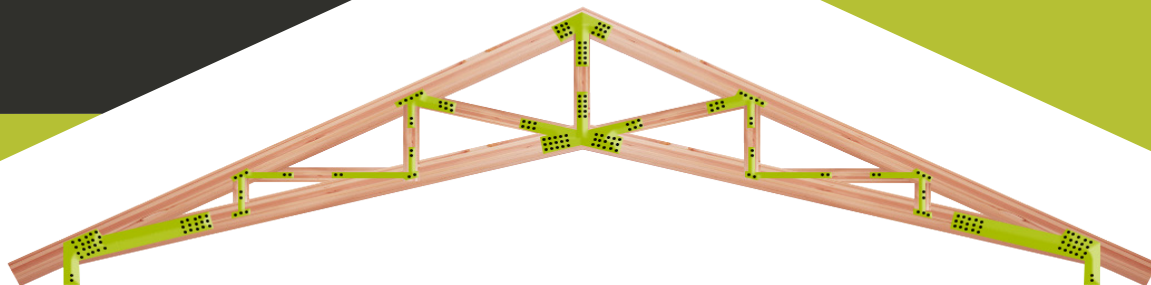
Scissor Ultra Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
SC - ULTRA LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	708	912	996	288	372	408	192	252	276	144	177	184
	5:12	780	1008	1092	348	456	492	240	300	336	177	198	204
	6:12	852	1092	1188	408	528	576	276	360	396	189	208	214
	7:12	924	1176	1284	456	588	648	312	408	444	193	212	218
	8:12	984	1260	1368	504	648	708	354	432	450	192	210	216
	9:12	1032	1332	1440	540	696	756	372	427	442	186	202	207
	10:12	1080	1380	1512	564	732	804	366	412	427	177	192	196
	11:12	1116	1428	1548	600	768	840	348	393	405	166	180	183
	12:12	1140	1464	1596	612	792	864	331	367	378	154	165	169

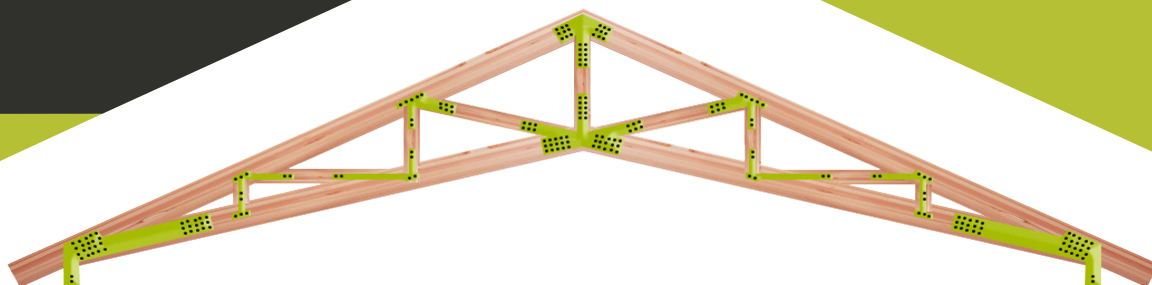
Scissor Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
SC - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	4164	5340	5820	1380	1776	1920	792	1020	1116	564	708	756
	6:12	4296	5412	5952	1476	1896	2052	888	1152	1260	660	852	924
	7:12	4320	5520	6000	1572	2028	2184	984	1272	1380	732	948	1032
	8:12	4392	5652	6120	1644	2136	2304	1056	1368	1488	792	1032	1116
	9:12	4392	5664	6180	1740	2220	2400	1140	1452	1596	852	1092	1188
	10:12	4380	5664	6180	1800	2304	2508	1176	1512	1656	900	1152	1260
	11:12	4392	5664	6156	1824	2352	2556	1212	1572	1716	936	1200	1296
	12:12	4392	5640	6132	1860	2400	2616	1248	1608	1752	960	1188	1224

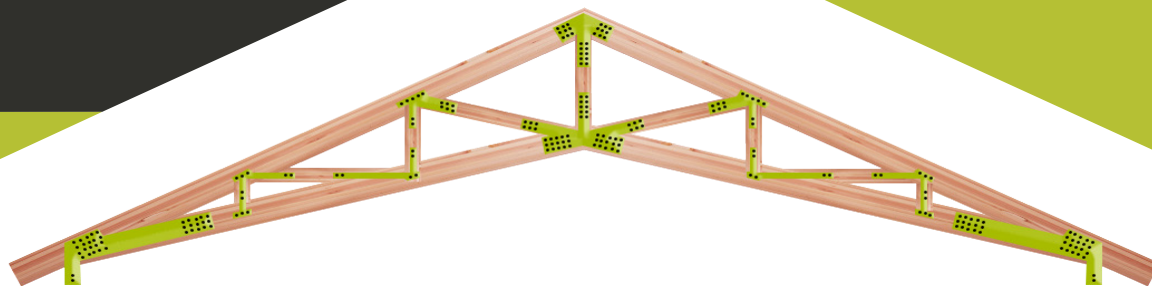
Scissor Light Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'			80'		
SC - LIGHT - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	444	576	636	360	456	480	276	288	300	42	48	52
	6:12	504	672	732	420	480	492	282	300	312	48	54	57
	7:12	576	756	816	456	492	504	294	312	318	51	57	58
	8:12	636	804	828	-	-	-	-	-	-	-	-	-
	9:12	684	780	804	-	-	-	-	-	-	-	-	-
	10:12	672	744	756	-	-	-	-	-	-	-	-	-
	11:12	648	696	720	-	-	-	-	-	-	-	-	-
	12:12	600	648	660	-	-	-	-	-	-	-	-	-

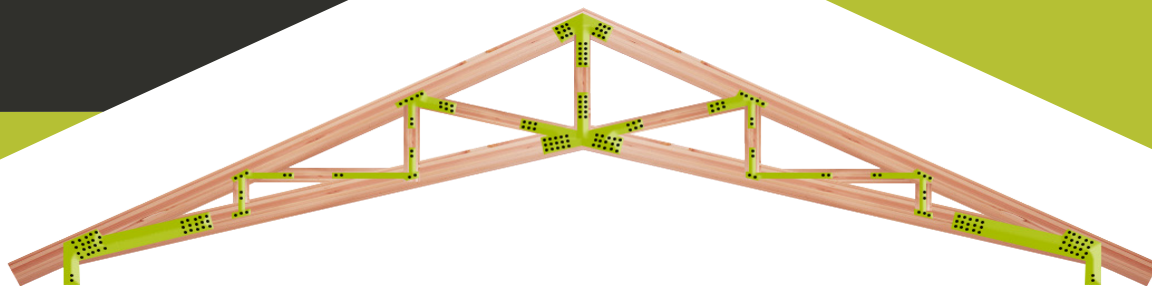
Scissor Medium Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
SC - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	6420	8160	8880	2856	3672	3960	1500	1944	2112	1008	1308	1428
	6:12	6576	8508	9156	2940	3792	4188	1620	2112	2280	1128	1464	1596
	7:12	6840	8640	9360	3084	3948	4320	1740	2256	2472	1248	1608	1764
	8:12	6960	8940	9600	3180	4068	4440	1872	2412	2592	1356	1740	1896
	9:12	7092	9156	9936	3288	4224	4584	1968	2532	2760	1428	1836	2004
	10:12	7308	9180	10020	3300	4260	4620	2040	2604	2832	1488	1896	2100
	11:12	7380	9360	10200	3396	4356	4716	2100	2688	2904	1536	1968	2136
	12:12	7500	9480	10320	3360	4380	4728	2100	2724	2988	1572	2016	2208

Scissor Medium Glulam

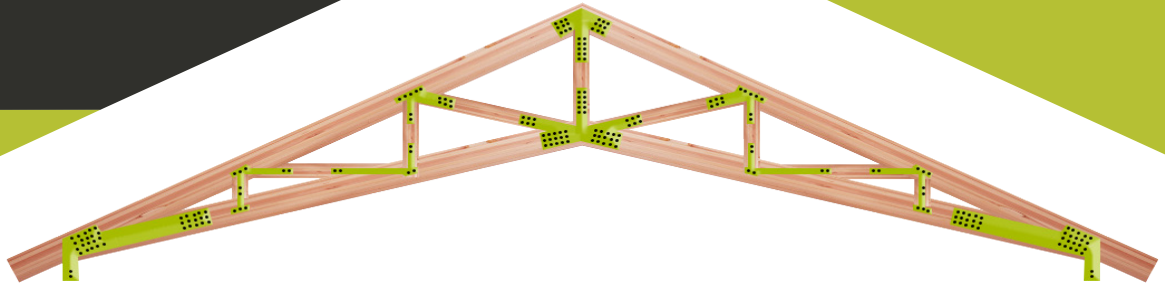


Glulam Allowable Uniform Load Tables (PLF)

Length		50'			60'			70'			80'		
SC - MEDIUM - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	756	984	1080	612	804	876	516	672	744	444	576	636
	6:12	876	1140	1236	708	924	1020	588	768	852	516	624	636
	7:12	972	1260	1380	804	1044	1140	684	888	936	576	636	648
	8:12	1044	1368	1488	-	-	-	-	-	-	-	-	-
	9:12	1128	1464	1596	-	-	-	-	-	-	-	-	-
	10:12	1176	1524	1680	-	-	-	-	-	-	-	-	-
	11:12	1236	1596	1752	-	-	-	-	-	-	-	-	-
	12:12	1272	1632	1800	-	-	-	-	-	-	-	-	-

Length		90'			100'			110'			120'		
SC - MEDIUM - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	384	420	432	276	288	300	192	204	210	141	150	152
	5:12	468	528	552	288	306	312	204	216	222	150	157	158
	6:12	408	444	450	294	312	318	212	222	226	151	158	160

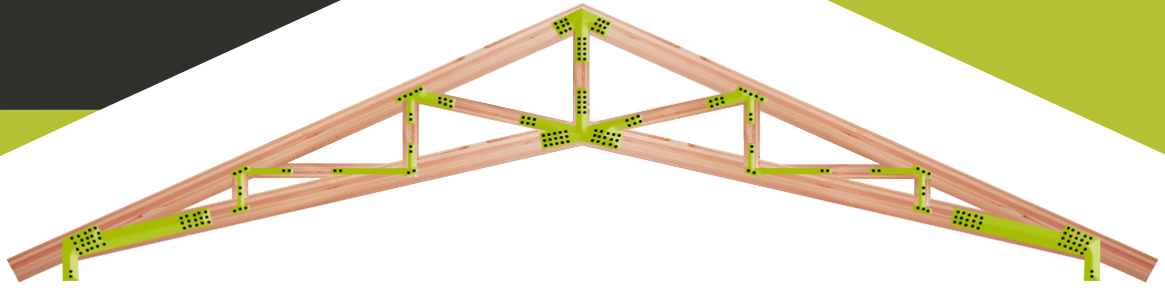
Scissor Heavy Glulam



Glulam Allowable Uniform Load Tables (PLF)

Length		40'			50'			60'			70'		
SC - HEAVY - GLULAM	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	1680	2196	2388	1236	1596	1740	960	1260	1392	804	1056	1152
	6:12	1848	2388	2616	1380	1800	1968	1116	1452	1584	936	1236	1344
	7:12	1992	2592	2808	1524	1992	2148	1248	1632	1788	1056	1368	1500
	8:12	2100	2748	3000	1656	2148	2340	1356	1764	1920	-	-	-
	9:12	2244	2892	3120	1740	2280	2484	1440	1884	2040	-	-	-
	10:12	2340	3036	3312	1824	2376	2556	1512	1968	2160	-	-	-
	11:12	2388	3108	3384	1896	2448	2676	1584	2064	2244	-	-	-
	12:12	2412	3144	3444	1944	2496	2748	1644	2112	2292	-	-	-

Scissor Heavy Glulam

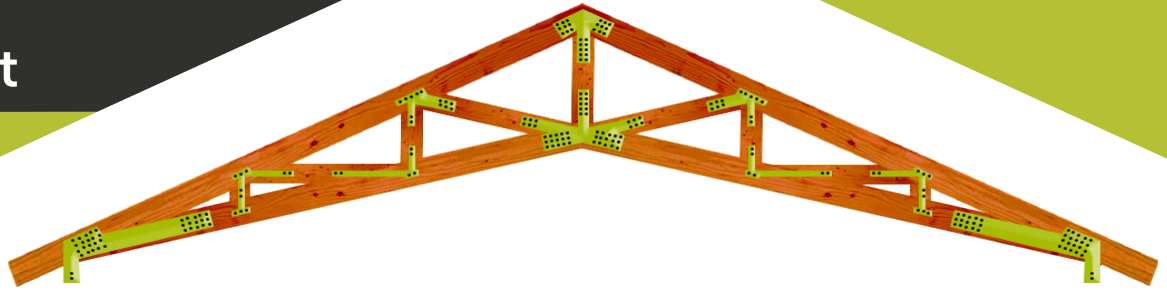


Glulam Allowable Uniform Load Tables (PLF)

Length		80'			90'			100'			110'		
SC - HEAVY - G	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	4:12	696	912	1008	600	792	876	528	708	780	468	600	612
	5:12	804	1056	1164	708	936	1032	636	828	852	576	624	636
	6:12	912	1200	1308	804	1056	1164	732	852	870	588	636	648

Length		120'		
SC - HEAVY - G	Pitch	100TL	115TL	125TL
	4:12	408	444	456
	5:12	432	468	480
	6:12	516	564	576

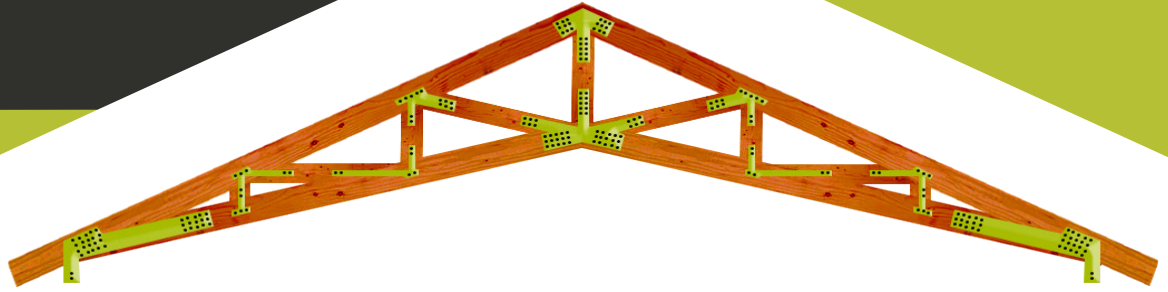
Scissor Ultra Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
S - ULTRA LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	432	558	609	200	260	284	133	174	190	92	103	106
	6:12	480	612	672	234	300	330	159	207	225	99	109	112
	7:12	516	666	732	261	338	369	182	234	252	100	111	114
	8:12	558	720	784	288	372	402	202	234	243	100	110	112
	9:12	588	756	828	310	399	434	201	228	236	97	105	109
	10:12	624	792	864	327	420	462	196	220	228	92	99	102
	11:12	645	828	900	342	440	481	186	207	213	85	93	95
	12:12	654	840	912	354	456	492	178	196	204	79	85	87

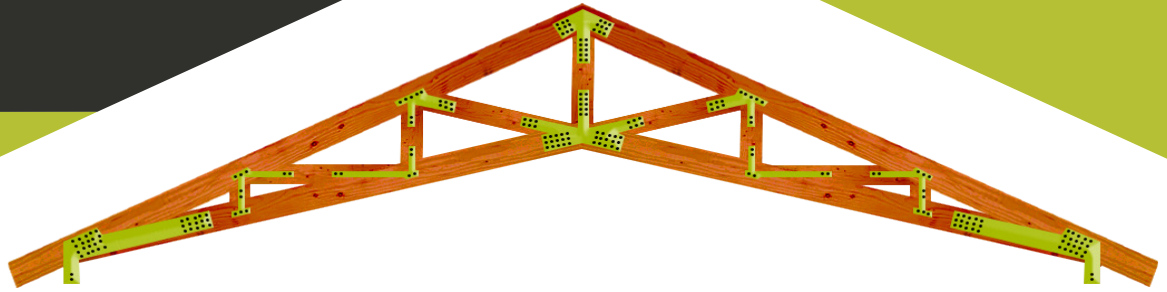
Scissor Light Timber



Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
S - LIGHT - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	1932	2484	2712	648	840	924	384	501	541	276	360	396
	6:12	1992	2568	2808	720	924	1008	438	570	624	318	420	457
	7:12	2052	2640	2880	768	996	1080	492	636	702	354	462	504
	8:12	2100	2688	2928	816	1068	1152	522	684	744	387	504	549
	9:12	2124	2712	2952	864	1128	1212	558	726	792	414	540	588
	10:12	2148	2736	2976	912	1164	1272	588	756	822	438	564	618
	11:12	2160	2760	3000	936	1200	1320	606	786	852	456	576	606
	12:12	2160	2772	3012	948	1212	1320	624	804	876	468	558	585

Scissor Medium Timber



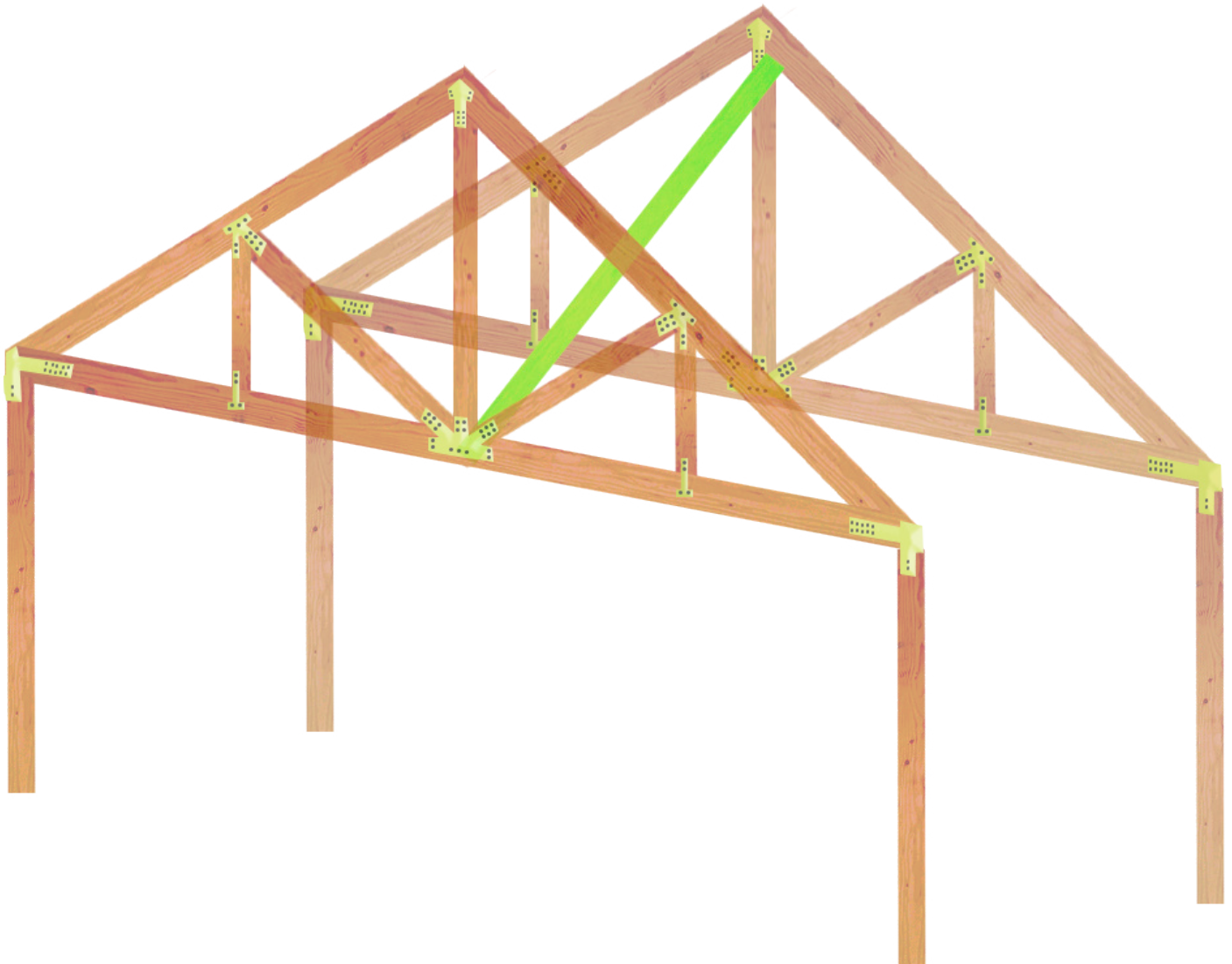
Timber Allowable Uniform Load Tables (PLF)

Length		10'			20'			30'			40'		
S - MEDIUM - TIMBER	Pitch	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL	100TL	115TL	125TL
	5:12	4440	5688	6240	1608	2064	2256	852	1104	1212	564	744	816
	6:12	4596	5880	6396	1680	2184	2376	936	1212	1332	648	840	924
	7:12	4752	6072	6660	1752	2256	2460	1008	1308	1428	720	936	1020
	8:12	4896	6264	6888	1824	2328	2544	1080	1404	1524	780	1020	1104
	9:12	5040	6456	7056	1872	2400	2628	1128	1464	1608	816	1068	1164
	10:12	5136	6600	7176	1920	2472	2700	1176	1524	1668	852	1116	1224
	11:12	5232	6720	7296	1944	2508	2736	1224	1584	1728	888	1152	1260
	12:12	5316	6816	7392	1968	2544	2772	1236	1596	1752	912	1176	1284

Bracing

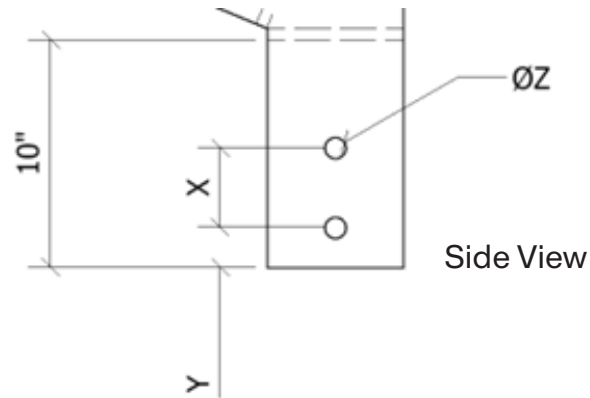
Trusses must be braced during erection and the following condition must be met $L/D < 75$. Where L is the length of the bracing member and D is the smallest cross-sectional dimension.

Example: 20 ft bracing is being used to install a truss, at minimum a 4x4 would need to be used for bracing. $240\text{in}/3.5\text{in} = 68.5$.



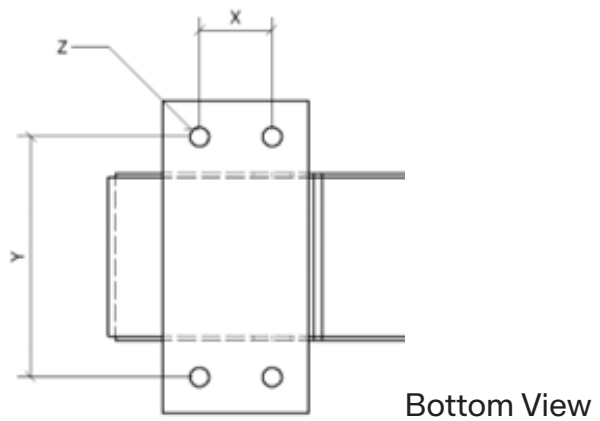
Mounting Configurations

Wood Column Mounting



WOOD		Ultra-Light	Light	Medium	Heavy
	X	2"	3"	3-1/2"	4"
	Y	1"	1-1/2"	1-3/4"	2"
	Z	9/16"	13/16"	15/16"	1-1/8"

Steel/CMU Column Mounting



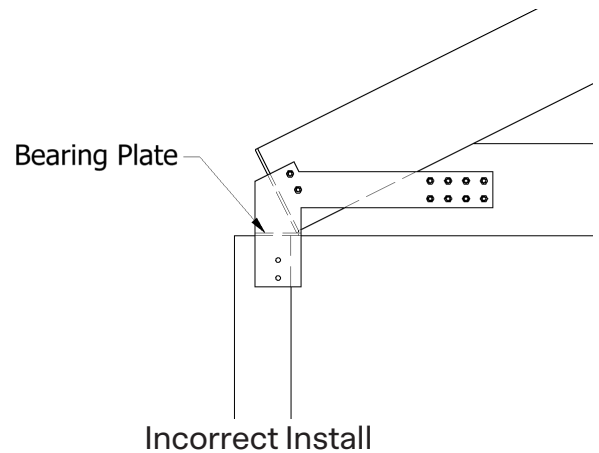
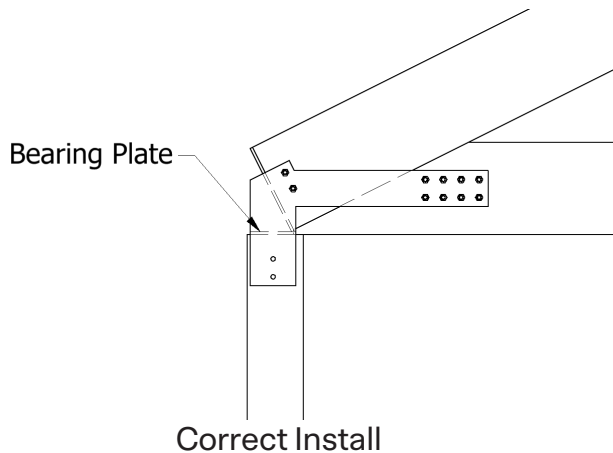
STEEL/ CMU		Ultra-Light	Light	Medium	Heavy
	X	2"	3"	3-1/2"	4"
	Y	6"	8-5/8"	10-3/4"	13-1/4"
	Z	9/16"	13/16"	15/16"	1-1/8"

Non-Standard Loading

All trusses are assumed to be loaded as a distributive load, meaning purlins must be 4' on center or less. If this is not the case, please reach out to Cascadia to check that the proposed loading for your specific application will work with the truss you are working with.

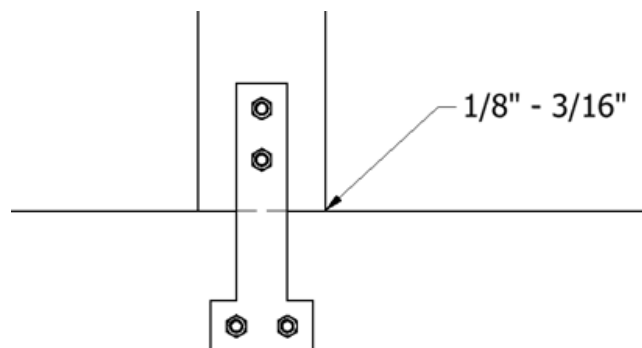
Installation Tolerances

Truss bearing plate must be fully seated on column or beam.



Allowable Gaps in Truss Members

Cascadia Trusses will have a gap between members of $1/8''$ to $3/16''$



Architectural Truss Specification

1.0 GENERAL REQUIREMENTS

1.1 Description: This section includes the design, fabrication and supply of the heavy timber trusses as shown and described on the contract drawings. The trusses are to be of glulam construction and the supplier shall furnish all materials including connecting steel and hardware for a complete installation.

1.2 Design Criteria:

Dead Load: _____ psf (specify ASD or LRFD)

Roof Live Load: _____ psf (specify ASD or LRFD)

Roof Snow Load: _____ psf (specify ASD or LRFD)

Wind and seismic loads by EOR.

1.3 Qualifications: The heavy timber truss manufacturer must be a company specializing in the design and fabrication of timber trusses with a minimum of five (5) years documented experience. Approved manufacturers include:

Western Wood Structures, Inc.
P.O. Box 130
Tualatin, Oregon 97062-0130
(503) 692-6900

and

Cascadia Structural Timber Solutions
2800 N Lombard St #418
Portland, OR 97217
(503) 226-7065

1.4 Submittals:

1.4.1 Submit shop drawings and product data under the provisions of section 01300. Shop drawings shall include: general framing plan, truss profiles, loads, and fabrication details for all wood members and steel assemblies. Also indicate dimensions, wood grades, drilled holes, fasteners and cambers. Shop drawings to be stamped by a registered engineer, licensed to practice in the state where the building is being constructed.

1.4.2 Submit design calculations stamped by a registered engineer, licensed to practice in the state where the building is being constructed.

1.4.3 Furnish an APA-EWS Certificate of Conformance stating that the glulams conform to ANSI/APA A190.1.

1.4.4 Provide a written warranty against defects in material and workmanship for a period of five (5) years.

Specification Continued

2.0 PRODUCTS

2.1 Materials:

2.1.1 Glulam shall be Douglas Fir. Combination 3 per ANSI/APA 117. The appearance shall be Architectural per AITC 110 or other (select one). Adhesive shall be 100% waterproof phenolic resin glue per ANS 405-2023. Surfaces of truss members shall be S4S.

2.1.2 Sawn Lumber shall conform to the latest edition of "Grading and Dressing Rules" by WCLIB or "Western Lumber Grading Rules by WWP. Lumber shall be seasoned dry with a maximum moisture content of 19% and be Douglas Fir #1 or Better.

2.1.3 Manufacturer to supply all necessary steel and hardware required to assemble trusses. Steel to be ASTM A-36 and hardware to be ASTM A-307. Welding by certified welders per AWS specifications D1.1. All steel and hardware shall be prime coated / epoxy powder coated / galvanized (select one).

2.2 Fabrication:

2.2.1 Heavy timber trusses shall be fabricated and assembled in a plant with facilities for performing work specified to the fullest extent possible. Factory drill all holes using CNC Machine. Holes for timber connections shall be 1/16" larger than the bolt diameter. Where trusses cannot be shipped fully assembled due to their configuration, fabricate and trial assemble to ensure proper fit. Individually wrap trusses after assembly. Field fabrication of heavy timber trusses is not permitted.

2.2.2 Concealed connector locations shall be fabricated to within 1/8" of true position. Fabricate length of members to be within 1/8" of required length to achieve tight connections. Make end cuts flat and true to ensure consistent load transfer.

3.0 EXECUTION

3.1 Delivery, storage and handling per AITC 111-2005 Transit, Storage and Erection:

3.1.1 The purchaser or installer is responsible for handling and protection of heavy timber trusses after arrival at destination. All trusses shall be unloaded and handled with a forklift or crane using nylon slings.

3.1.2 If the trusses are to be stored at the site, they must be placed on a level surface and stickered to prevent warpage and twisting.

3.1.3 Any damage must be reported immediately to the truss manufacturer's professional engineer.

3.2 Installation:

3.2.1 Install the trusses according to manufacturer's shop details and installation drawings. Do not field cut, drill, or alter structural members without written approval from the timber truss manufacturer's professional engineer. Set trusses in locations and to elevations indicated. Make provisions for erection loads and provide temporary bracing to maintain trusses true and plumb, and in true alignment until completion of erection.

3.2.2 Maintain factory-applied wrapping until roof structure is enclosed. Touch up primed surfaces of steel assemblies with primer coat compatible with shop coat.

General Structural Note

1. THE MANUFACTURE OF STRUCTURAL GLUED-LAMINATED TIMBER SHALL COMPLY WITH REQUIREMENTS OF ANSI/APA A190.1. ALL BEAMS SHALL BEAR THE APA/EWS TRADEMARK INDICATING CONFORMANCE.

2. ALL GLUED-LAMINATED MEMBERS SHALL BE DOUGLAS FIR/LARCH COMBINATION 3 WITH WATERPROOF RESORCINOL OR PHENOL RESORCINOL GLUE CONFORMING TO ANSI/APA 405-2023. ALLOWABLE STRESS REQUIREMENTS ARE AS FOLLOWS:

- a. MODULUS OF ELASTICITY..... $E = 1.9 \times 10^6$ PSI
- b. FLEXURAL STRESS..... $F_b = 2000$ PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN..... $F_c \perp = 650$ PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN..... $F_v = 265$ PSI

3. ALL SAWN LUMBER SHALL BE DOUGLAS FIR #1 OR BETTER PER "GRADING AND DRESSING RULES" BY WCLIB OR "WESTERN LUMBER GRADING RULES" BY WWP. ALLOWABLE STRESS REQUIREMENTS ARE AS FOLLOWS:

SIZE: 4" X 6"

- a. MODULUS OF ELASTICITY..... $E = 1.7 \times 10^6$ PSI
- b. FLEXURAL STRESS..... $F_b = 1800$ PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN..... $F_c \perp = 1650$ PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN..... $F_v = 180$ PSI

SIZE: 6" X 6"

- a. MODULUS OF ELASTICITY..... $E = 1.6 \times 10^6$ PSI
- b. FLEXURAL STRESS..... $F_b = 1200$ PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN..... $F_c \perp = 1000$ PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN..... $F_v = 170$ PSI

SIZE: 6" X 12"

- a. MODULUS OF ELASTICITY..... $E = 1.6 \times 10^6$ PSI
- b. FLEXURAL STRESS..... $F_b = 1350$ PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN..... $F_c \perp = 925$ PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN..... $F_v = 170$ PSI

SIZE: 8" X 8"

- a. MODULUS OF ELASTICITY..... $E = 1.6 \times 10^6$ PSI
- b. FLEXURAL STRESS..... $F_b = 1200$ PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN..... $F_c \perp = 1000$ PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN..... $F_v = 170$ PSI

General Structural Note Continued

SIZE: 8" X 18"

- a. MODULUS OF ELASTICITY.....E = 1.6×10^6 PSI
- b. FLEXURAL STRESS.....Fb = 1290.5 PSI
- c. COMPRESSION PERPENDICULAR TO GRAIN.....Fc = 925 PSI
- d. HORIZONTAL SHEAR PARALLEL TO GRAIN.....FV = 170 PSI

4. ALL EXPOSED GLULAM MEMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE IN CONFORMANCE WITH THE STANDARD APPEARANCE GRADES OF ANSI A190.1.

5. THE MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO ANY FABRICATION.

6. PROVIDE CAMBERS AS NOTED ON DRAWINGS.

7. GLUED-LAMINATED MEMBERS SHOWN ON THESE PLANS ARE FOR DRY SERVICE CONDITIONS OF USE, DEFINED BY MOISTURE CONTENT OF MEMBER REMAINING BELOW 16%.

8. WOOD MEMBERS MUST BE PROTECTED FROM MOISTURE DURING CONSTRUCTION.

9. THE STEEL USED SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATION OF LATEST ADOPTION: ASTM A36/A36M.

10. ALL HARDWARE TO CONFORM TO ANSI A307.

11. STEEL AND HARDWARE TO BE PRIME PAINTED.

12. GLUED-LAMINATED AND SAWN LUMBER TRUSS TO BE DESIGNED AS A DEFERRED SUBMITTAL BY CASCADIA STRUCTURAL.

CASCADIA STRUCTURAL CONTACT INFO:

503-226-7065

INFO@CASCADIASTRUCTURAL.COM

FAQ

What if the truss I want is outside the parameters of the Load Table?

Trusses whose size is outside our load table are considered custom trusses. Cascadia and their sister company Western Wood Structures have been providing custom trusses for decades and can still help you with designing and pricing, simply contact either Western Wood Structures (dherr@wwsi.com) or Cascadia Structural (info@cascadiastructural.com) for a custom truss quote.

What is the fire rating on these trusses?

All the truss material meets the requirement for HT Type IV which is allowed for roof construction of Type I B, Type II A and B, Type III A and B and Type V A and B if they have a 1 hour or less fire-resistance rating required.

What species and finish of glulam is available?

All of our trusses uses Architectural Combination 3 Glulam made with Douglas Fir.

What is the standard lead time?

For most projects where there are less than 10 trusses lead times are 6-9 weeks after receiving your approved engineering drawings.

How do you purchase these trusses?

To learn more about purchasing these trusses reach out to us at info@cascadiastructural.com

Is this a deferred submittal?

Yes, this product is a deferred submittal, drawings can be produced within 2 weeks of receiving approved engineering drawings.

Do you have EPDs for your product?

We do not currently have a specific EPD for these trusses.

Do these trusses come with stain?

They absolutley can, our standard offering does not include stain but it is an option we can add before the trusses ship to the job site. Reach out to our sales team to learn what options we have.

Can I change the color of the steel?

Absolutely, our standard offering is a black primer but we can accomodate any color you specify.

How can I add this to my BIM Model?

You can visit the following website to find our BIM models that you can use in your projects <https://www.bimobject.com/en-us/cascadia-structural-timber-solutions>

