



User Guide to Standard Plans Section S  
OVERHEAD SIGNS – VERSATILE TRUSS  
Appendix C: Quantities – Two Post Type

Instructions:

- (1) Determine the Truss Quantity using Tables 3A, 3B, and 3C.

\_\_\_\_\_ lbs

- (2) Determine the Post Quantity using Tables 4A, 4B, and 4C.

Left Post = \_\_\_\_\_ lbs  
Right Post = \_\_\_\_\_ lbs

*The Post Quantity Tables include the quantities for the post, base plate, and anchor bolts.*

- (3) Determine the quantity for the walkway system (excluding the aluminum grating) using the relationship below.

Length of Walkway (ft) x 70 lbs/ft = \_\_\_\_\_ lbs

*If the walkway nominally stops at the column centerline, add an additional 2 ft to the walkway length.*

- (4) Determine the quantity of mounting beams needed for signs using the relationship below.

Total Area of Sign Panels (sq. ft.) x 2.2 lbs/sq. ft. = \_\_\_\_\_ lbs

*The Total Area of Sign Panels includes all sign panels, exit plaques, CMS, and EMS to be mounted on the Versatile Truss using mounting beams.*

- (5) Determine the quantity of mounting beams needed for the walkway where there is no sign panel above, using the relationship below.

[ LW x ( FD /2 + SD /2 + 1.1') ] x 2.2 lbs/sq. ft. = \_\_\_\_\_ lbs

LW = Length of walkway w/o sign above (ft)  
FD = Frame Depth (ft)  
SD = Sign Depth (ft)

*Walkways are mounted using the same mounting beams used for mounting signs. When a walkway is mounted under a sign panel the mounting beam quantity is accounted for under step 4. If a section of walkway is mounted without a sign panel directly above it, this step accounts for the mounting beam quantity under these scenarios.*



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(6) Determine the quantity for connection assemblies using the relationship below.

$$(\text{Sum of Widths of Each Sign Panel (ft) + LW}) \times 2.1 \text{ lbs/ft} = \underline{\hspace{2cm}} \text{ lbs}$$

LW = Length of walkway w/o sign above (ft)

*Sum the widths for each sign panel, exit plaque, CMS, and EMS to be mounted on the Versatile Truss. The connection assemblies quantity is for mounting the sign panels to the mounting beams and the mounting beams to the truss.*

(7) Add up the quantities above for items 1 through 6.

$$\text{Subtotal} = \underline{\hspace{2cm}} \text{ lbs}$$

(8) Determine increase due to galvanizing.

$$3.5\% \times \text{Subtotal} = \underline{\hspace{2cm}} \text{ lbs}$$

(9) Versatile Truss Total Quantity (Subtotal + Galvanizing).

$$\text{TOTAL} = \underline{\hspace{2cm}} \text{ lbs}$$



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Table 3A: Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
30	5659	6586	6633	6696	6714	7054															
31	6404	7335	7385	7449	7467	7822															
32	6440	7373	7424	7487	7505	7862															
33	6508	7444	7494	7558	7576	7934	8003														
34	6578	7516	7566	7630	7648	8007	8076														
35	6882	7816	7866	7929	7947	8304	8373														
36	6949	7884	7934	7998	8016	8374	8443	8502													
37	7015	7953	8003	8066	8084	8443	8512	8571													
38	7357	8290	8340	8404	8422	8778	8847	8906													
39	7389	8324	8375	8438	8456	8814	8883	8942	8967												
40	7454	8391	8441	8504	8522	8881	8950	9009	9034												
41	7798	8731	8781	8844	8862	9219	9288	9347	9372												
42	7830	8764	8815	8878	8896	9254	9323	9382	9407	9767											
43	7914	8851	8901	8964	8982	9341	9410	9469	9494	9855											
44	7977	8915	8965	9029	9047	9406	9475	9534	9559	9920											
45	8270	9205	9255	9318	9336	9694	9763	9822	9847	10207	10268										
46	9068	10091	10155	10184	10259	10640	10674	10750	10825	11164	11233										
47	9168	10193	10256	10286	10360	10742	10776	10852	10927	11267	11336										
48	9509	10530	10593	10623	10697	11077	11111	11187	11262	11599	11668	11752									
49	9575	10597	10661	10690	10765	11145	11180	11256	11331	11669	11738	11822									
50	9649	10673	10737	10766	10840	11222	11256	11332	11407	11746	11815	11899									
51	9725	10750	10814	10843	10917	11300	11334	11410	11485	11825	11894	11978	12316								
52	10057	11079	11143	11173	11247	11628	11662	11738	11813	12151	12220	12304	12640								
53	10130	11153	11217	11246	11321	11702	11736	11812	11887	12226	12295	12379	12716								
54	10231	11256	11320	11349	11423	11805	11840	11916	11990	12330	12399	12483	12821	12894							
55	10540	11562	11626	11655	11729	12110	12144	12220	12295	12633	12702	12786	13122	13195							
56	10611	11634	11697	11727	11801	12182	12216	12293	12367	12706	12775	12859	13196	13269							
57	10678	11702	11766	11796	11870	12252	12286	12363	12437	12777	12846	12930	13268	13340	13413						
58	10748	11774	11838	11867	11942	12324	12358	12435	12509	12850	12919	13003	13341	13414	13487						
59	11092	12114	12178	12207	12281	12662	12697	12773	12847	13186	13255	13339	13676	13749	13821						
60	11159	12183	12247	12276	12350	12732	12766	12843	12917	13257	13326	13410	13747	13820	13893	13932					
61	11770	12863	12929	12949	13028	13444	13469	13546	13628	13989	14068	14146	14519	14594	14668	14698					
62	12138	13226	13293	13312	13392	13806	13830	13908	13990	14348	14428	14506	14876	14952	15026	15056					
63	12206	13296	13363	13382	13462	13877	13901	13979	14061	14420	14500	14578	14949	15025	15099	15129	15542				
64	12279	13370	13437	13456	13536	13952	13976	14054	14136	14496	14576	14653	15026	15101	15175	15205	15619				
65	12385	13478	13545	13564	13644	14061	14085	14162	14244	14605	14685	14763	15136	15211	15285	15315	15730				
66	12717	13806	13873	13892	13972	14387	14411	14489	14571	14930	15010	15087	15459	15534	15608	15638	16051	16121			
67	12787	13878	13945	13964	14044	14460	14484	14562	14643	15003	15083	15161	15533	15609	15683	15712	16126	16196			
68	12894	13986	14053	14072	14152	14568	14592	14670	14752	15113	15192	15270	15643	15718	15792	15822	16236	16306			
69	13227	14316	14383	14402	14482	14897	14921	14999	15080	15439	15519	15597	15968	16044	16118	16147	16560	16630	16668		

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3A (cont.): Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
70	13335	14426	14493	14512	14591	15007	15031	15109	15191	15550	15630	15708	16079	16155	16229	16259	16672	16742	16780		
71	13402	14494	14561	14580	14660	15076	15100	15178	15259	15620	15700	15777	16150	16225	16299	16329	16743	16813	16851		
72	13738	14826	14893	14912	14992	15407	15431	15508	15590	15949	16029	16107	16477	16553	16627	16657	17070	17140	17177	17259	
73	13846	14936	15003	15022	15101	15517	15541	15619	15700	16060	16140	16217	16589	16664	16739	16768	17182	17252	17289	17371	
74	13911	15002	15069	15088	15168	15584	15608	15685	15767	16127	16207	16285	16657	16733	16807	16836	17250	17320	17358	17440	
75	13979	15072	15138	15158	15237	15654	15678	15756	15838	16199	16278	16356	16729	16805	16879	16908	17323	17393	17431	17513	17922
76	18366	19804	19889	19915	20017	20566	20601	20697	20743	21287	21383	21427	21973	22074	22113	22214	22694	22791	22900	22948	23483
77	18461	19901	19986	20012	20114	20664	20699	20795	20841	21386	21482	21526	22073	22173	22213	22313	22795	22891	23000	23049	23585
78	18553	19994	20080	20106	20208	20759	20794	20890	20937	21482	21579	21622	22170	22271	22311	22412	22894	22990	23100	23148	23685
79	19038	20475	20561	20586	20689	21237	21272	21368	21414	21958	22054	22098	22643	22744	22783	22884	23364	23461	23570	23618	24153
80	19132	20571	20657	20682	20785	21334	21369	21465	21512	22056	22152	22196	22743	22844	22883	22984	23465	23562	23671	23719	24255
81	19223	20664	20749	20775	20877	21427	21462	21559	21605	22150	22247	22291	22838	22939	22978	23079	23561	23658	23767	23815	24352
82	19363	20806	20891	20917	21019	21570	21605	21702	21748	22294	22390	22434	22983	23083	23123	23224	23707	23803	23912	23961	24498
83	19804	21242	21328	21353	21456	22005	22040	22136	22183	22726	22823	22867	23413	23514	23553	23654	24135	24231	24341	24389	24925
84	19892	21333	21418	21444	21546	22096	22131	22228	22274	22819	22915	22959	23506	23607	23646	23747	24229	24325	24435	24483	25019
85	20033	21475	21560	21586	21688	22239	22274	22370	22417	22962	23059	23102	23651	23751	23791	23891	24374	24470	24580	24628	25165
86	20476	21913	21999	22025	22127	22676	22711	22807	22854	23397	23494	23537	24084	24184	24224	24325	24805	24901	25011	25059	25594
87	20562	22002	22088	22113	22215	22765	22800	22896	22943	23487	23583	23627	24174	24275	24314	24415	24896	24993	25102	25150	25687
88	20656	22097	22183	22208	22311	22862	22897	22993	23039	23585	23681	23725	24273	24374	24413	24514	24997	25093	25203	25251	25788
89	21148	22585	22671	22696	22799	23347	23382	23478	23525	24068	24164	24208	24754	24855	24894	24995	25475	25572	25681	25729	26264
90	21288	22727	22813	22838	22940	23490	23525	23621	23667	24211	24308	24352	24898	24999	25038	25139	25620	25717	25826	25874	26410
91	24503	25665	26224	26333	26376	27011	27048	27172	27224	27841	27895	28019	28066	28690	28741	28869	28910	29547	29668	29702	30337
92	24612	25776	26335	26445	26488	27124	27161	27286	27337	27956	28010	28133	28181	28805	28856	28985	29025	29664	29785	29818	30455
93	25176	26337	26894	27004	27046	27681	27717	27842	27894	28510	28564	28687	28735	29357	29408	29536	29577	30213	30334	30368	31002
94	25218	26380	26939	27048	27091	27726	27763	27888	27939	28556	28611	28734	28781	29405	29456	29584	29625	30262	30384	30417	31052
95	25388	26551	27110	27220	27263	27899	27935	28060	28112	28730	28784	28907	28955	29579	29630	29758	29799	30437	30558	30591	31227
96	25430	26595	27155	27264	27307	27944	27980	28106	28157	28776	28830	28954	29001	29626	29677	29806	29847	30486	30607	30640	31277
97	25992	27154	27712	27822	27864	28499	28536	28660	28712	29329	29383	29506	29554	30177	30228	30356	30397	31034	31155	31188	31823
98	26104	27267	27825	27935	27978	28614	28650	28775	28827	29445	29499	29622	29670	30294	30345	30473	30514	31152	31273	31306	31942
99	26202	27366	27925	28035	28078	28714	28751	28876	28928	29546	29600	29723	29771	30396	30447	30575	30616	31254	31376	31409	32045
100	26768	27930	28487	28597	28639	29274	29310	29435	29487	30103	30157	30280	30328	30951	31002	31130	31171	31807	31928	31962	32596
101	26878	28040	28599	28709	28751	29387	29423	29548	29600	30217	30271	30394	30442	31066	31117	31245	31286	31923	32045	32078	32713
102	27048	28211	28771	28880	28923	29559	29596	29720	29772	30390	30444	30567	30615	31239	31290	31419	31459	32097	32219	32252	32888
103	27085	28249	28810	28919	28962	29599	29635	29760	29812	30431	30485	30608	30656	31281	31333	31461	31502	32141	32262	32295	32932
104	27654	28816	29374	29484	29526	30162	30198	30323	30375	30991	31046	31169	31216	31840	31891	32019	32060	32697	32818	32851	33486
105	27764	28927	29486	29596	29638	30274	30310	30436	30487	31105	31159	31282	31330	31954	32005	32134	32174	32812	32934	32967	33603
106	29545	30705	31370	31410	31556	32205	32258	32396	32462	33099	33169	33310	33375	34025	34079	34214	34282	34932	34995	35121	35695
107	29992	31149	31813	31854	31999	32646	32700	32838	32904	33539	33609	33750	33815	34463	34517	34652	34720	35368	35431	35558	36130
108	30179	31337	32002	32042	32187	32835	32889	33027	33093	33728	33799	33939	34004	34654	34707	34842	34910	35559	35622	35748	36321
109	30306	31465	32130	32170	32316	32965	33018	33156	33222	33859	33929	34070	34135	34785	34838	34974	35042	35692	35754	35881	36455

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3A (cont.): Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
70																				
71																				
72																				
73																				
74																				
75																				
76																				
77																				
78	23792																			
79	24260																			
80	24363																			
81	24459	24492																		
82	24605	24638																		
83	25032	25065																		
84	25126	25159	25265																	
85	25272	25305	25410																	
86	25702	25734	25840																	
87	25794	25826	25932	26413																
88	25895	25928	26033	26515																
89	26371	26404	26510	26989																
90	26517	26550	26655	27136	27241															
91	30398	30514	30559	31187	31245															
92	30515	30632	30677	31306	31364															
93	31062	31178	31224	31850	31908	32002														
94	31113	31229	31275	31902	31960	32054														
95	31288	31404	31450	32078	32136	32230														
96	31338	31454	31500	32129	32187	32281	32338													
97	31884	32000	32045	32672	32730	32825	32881													
98	32003	32119	32165	32793	32851	32945	33002													
99	32106	32222	32268	32896	32954	33049	33105	33741												
100	32657	32773	32818	33445	33503	33597	33654	34287												
101	32774	32890	32936	33563	33621	33715	33772	34406												
102	32949	33065	33111	33739	33797	33891	33947	34582	34638											
103	32993	33109	33155	33784	33842	33936	33993	34629	34684											
104	33547	33663	33709	34336	34394	34488	34544	35178	35234											
105	33664	33780	33826	34454	34512	34606	34662	35297	35353	35463										
106	35846	35906	36043	36609	36757	36816	36945	37517	37661	37716										
107	36281	36341	36478	37042	37191	37249	37378	37949	38093	38147										
108	36472	36532	36669	37234	37382	37441	37570	38141	38285	38340	38486									
109	36606	36665	36803	37368	37517	37575	37704	38277	38421	38475	38622									

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3A (cont.): Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
110	30415	31575	32241	32281	32426	33076	33129	33267	33333	33970	34041	34181	34246	34897	34951	35086	35154	35804	35867	35994	36568
111	30939	32097	32762	32802	32947	33595	33648	33787	33853	34488	34559	34699	34764	35413	35467	35602	35670	36319	36382	36508	37081
112	31125	32283	32948	32988	33134	33782	33835	33974	34040	34676	34746	34887	34951	35601	35655	35790	35858	36508	36570	36697	37270
113	31173	32332	32998	33038	33184	33833	33886	34025	34091	34728	34798	34939	35004	35654	35708	35843	35911	36562	36624	36751	37325
114	31758	32916	33580	33620	33765	34413	34466	34604	34670	35305	35376	35516	35581	36230	36284	36419	36487	37135	37198	37325	37897
115	31886	33045	33710	33750	33896	34544	34597	34735	34801	35437	35508	35648	35713	36363	36417	36552	36620	37269	37332	37459	38032
116	32072	33231	33896	33936	34082	34731	34784	34922	34988	35625	35695	35836	35901	36551	36605	36740	36808	37458	37521	37647	38221
117	32520	33678	34341	34382	34527	35175	35228	35366	35432	36067	36138	36278	36343	36992	37045	37181	37249	37897	37960	38086	38659
118	32705	33863	34528	34568	34714	35362	35415	35553	35619	36255	36325	36465	36530	37180	37233	37368	37437	38085	38148	38275	38848
119	32834	33993	34658	34698	34844	35493	35546	35684	35750	36387	36457	36597	36662	37313	37366	37501	37570	38219	38282	38409	38982
120	32933	34093	34759	34799	34945	35594	35647	35786	35852	36489	36559	36699	36764	37415	37469	37604	37672	38322	38385	38512	39086
121	39008	40362	41130	41191	41354	42113	42184	42337	42427	43175	43253	43411	43501	44239	44324	44485	44570	45319	45399	45554	46225
122	39160	40515	41284	41345	41508	42268	42339	42492	42582	43332	43410	43567	43657	44396	44481	44642	44727	45477	45557	45712	46384
123	39278	40634	41403	41465	41627	42388	42459	42612	42702	43452	43530	43687	43778	44518	44603	44764	44849	45599	45679	45834	46507
124	39910	41264	42032	42093	42256	43014	43085	43239	43328	44077	44155	44312	44403	45141	45226	45387	45472	46220	46300	46456	47126
125	40121	41475	42244	42306	42468	43227	43298	43452	43541	44291	44369	44526	44616	45355	45440	45601	45686	46435	46515	46670	47342
126	40178	41533	42303	42364	42527	43287	43358	43512	43601	44351	44429	44587	44677	45417	45502	45663	45748	46498	46578	46733	47405
127	40388	41744	42515	42576	42739	43499	43571	43724	43813	44565	44643	44800	44890	45631	45716	45876	45961	46713	46792	46948	47621
128	41023	42378	43146	43207	43370	44129	44200	44354	44443	45192	45270	45428	45518	46257	46342	46503	46588	47337	47417	47572	48243
129	41138	42493	43262	43324	43486	44246	44317	44470	44560	45310	45388	45545	45635	46375	46460	46620	46705	47455	47535	47691	48362
130	41288	42644	43414	43475	43638	44399	44470	44623	44713	45464	45542	45699	45789	46530	46615	46775	46860	47611	47691	47847	48519
131	41986	43340	44108	44169	44332	45091	45162	45315	45405	46154	46232	46389	46479	47217	47303	47463	47548	48297	48377	48532	49203
132	42136	43491	44260	44321	44484	45244	45315	45468	45558	46308	46386	46543	46633	47372	47457	47618	47703	48453	48533	48688	49360
133	42248	43604	44373	44435	44597	45358	45429	45582	45672	46422	46500	46657	46748	47488	47573	47733	47818	48569	48649	48804	49476
134	42888	44242	45010	45071	45234	45992	46064	46217	46307	47055	47133	47291	47381	48119	48204	48365	48450	49199	49279	49434	50105
135	43099	44453	45222	45283	45446	46205	46276	46430	46519	47269	47347	47504	47594	48333	48418	48579	48664	49413	49493	49648	50320
136	49161	50784	51598	51699	51919	52621	52831	52947	53163	53962	54080	54294	54414	55205	55329	55548	55683	56449	56585	56797	57493
137	49356	50980	51795	51896	52116	52819	53029	53144	53361	54161	54279	54493	54613	55405	55528	55748	55883	56649	56785	56998	57695
138	50097	51719	52532	52633	52853	53554	53764	53880	54096	54894	55012	55226	55346	56136	56260	56479	56614	57378	57514	57727	58422
139	50185	51808	52621	52722	52943	53644	53854	53970	54186	54986	55104	55318	55438	56229	56352	56572	56707	57472	57608	57820	58516
140	50450	52074	52888	52989	53209	53912	54122	54237	54454	55254	55371	55586	55705	56497	56620	56840	56975	57741	57877	58089	58786
141	51123	52746	53558	53659	53880	54580	54790	54906	55122	55921	56038	56253	56372	57163	57286	57505	57640	58405	58541	58753	59448
142	51389	53012	53825	53926	54146	54848	55058	55173	55390	56188	56306	56520	56640	57431	57554	57774	57909	58674	58810	59022	59718
143	51474	53098	53912	54013	54233	54935	55145	55261	55477	56277	56395	56609	56729	57521	57644	57863	57998	58764	58900	59112	59809
144	51739	53364	54178	54279	54500	55203	55412	55528	55744	56545	56663	56877	56997	57789	57912	58132	58267	59033	59169	59381	60079
145	52416	54038	54851	54952	55173	55874	56084	56199	56416	57215	57332	57547	57666	58457	58580	58800	58935	59700	59836	60048	60744
146	52568	54192	55005	55106	55327	56028	56238	56354	56570	57370	57487	57702	57821	58613	58736	58955	59090	59856	59992	60204	60900
147	52763	54387	55202	55303	55523	56226	56436	56552	56768	57568	57686	57900	58020	58812	58935	59155	59290	60056	60192	60404	61102
148	53513	55135	55947	56048	56269	56970	57180	57295	57512	58310	58428	58642	58762	59552	59675	59895	60030	60794	60930	61142	61838
149	53592	55215	56029	56130	56350	57052	57262	57377	57594	58393	58511	58725	58845	59636	59759	59979	60114	60879	61015	61227	61923
150	53858	55481	56295	56396	56617	57319	57529	57645	57861	58661	58779	58993	59113	59904	60028	60247	60382	61148	61284	61496	62193

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



User Guide to Standard Plans Section S  
**OVERHEAD SIGNS – VERSATILE TRUSS**  
 Appendix C: Quantities – Two Post Type

Table 3A (cont.): Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
110	36719	36779	36916	37482	37631	37689	37818	38391	38536	38590	38736									
111	37232	37292	37429	37994	38142	38201	38330	38901	39045	39100	39246	39827								
112	37421	37481	37618	38183	38332	38390	38519	39091	39236	39290	39436	40018								
113	37476	37536	37673	38239	38388	38446	38575	39148	39292	39347	39493	40076								
114	38048	38108	38245	38809	38957	39016	39145	39716	39860	39914	40061	40641	40764							
115	38183	38243	38380	38945	39093	39152	39281	39853	39997	40051	40198	40779	40902							
116	38372	38432	38569	39134	39283	39341	39470	40043	40187	40241	40388	40970	41093							
117	38810	38869	39007	39571	39719	39778	39907	40478	40622	40676	40823	41403	41526	41596						
118	38999	39058	39195	39760	39909	39967	40096	40668	40812	40866	41013	41594	41717	41787						
119	39133	39193	39330	39896	40044	40103	40232	40804	40949	41003	41149	41731	41854	41924						
120	39237	39297	39434	40000	40149	40207	40336	40909	41053	41107	41254	41836	41959	42030	42670					
121	46375	46469	46638	47298	47464	47535	47701	48366	48530	48619	48780	49456	49614	49701	50430					
122	46534	46629	46797	47459	47624	47696	47861	48528	48691	48781	48942	49618	49777	49864	50594					
123	46657	46752	46920	47582	47748	47819	47985	48652	48815	48905	49066	49743	49902	49989	50719	50803				
124	47276	47371	47540	48200	48366	48437	48603	49268	49431	49521	49682	50357	50516	50603	51331	51416				
125	47492	47587	47755	48416	48582	48653	48819	49485	49648	49737	49899	50574	50733	50820	51549	51634				
126	47556	47650	47819	48481	48647	48718	48884	49551	49714	49803	49965	50641	50800	50887	51617	51702	51860			
127	47771	47866	48034	48697	48862	48933	49099	49767	49930	50020	50181	50859	51017	51104	51835	51919	52077			
128	48393	48488	48657	49317	49483	49554	49720	50386	50549	50639	50800	51476	51635	51721	52451	52535	52693			
129	48513	48607	48776	49437	49603	49674	49840	50507	50670	50759	50921	51597	51756	51842	52572	52657	52815	52899		
130	48670	48764	48933	49595	49761	49832	49998	50665	50829	50918	51080	51757	51916	52002	52733	52818	52976	53060		
131	49353	49448	49616	50277	50442	50514	50679	51345	51508	51598	51759	52434	52593	52680	53409	53493	53651	53735		
132	49510	49605	49773	50434	50600	50672	50837	51504	51667	51757	51918	52594	52753	52840	53569	53654	53812	53896	54628	
133	49626	49721	49890	50552	50717	50788	50954	51621	51785	51874	52035	52712	52871	52958	53688	53773	53931	54015	54748	
134	50255	50349	50518	51178	51344	51415	51581	52246	52410	52499	52661	53336	53494	53581	54310	54394	54552	54636	55368	
135	50470	50565	50733	51394	51560	51631	51797	52463	52626	52715	52877	53552	53711	53798	54527	54612	54770	54854	55586	55699
136	57700	57835	58042	58746	58948	59078	59303	59992	60212	60342	60580	61235	61452	61579	62377	62502	62716	62841	63614	63736
137	57902	58037	58244	58949	59151	59281	59506	60196	60416	60546	60784	61440	61657	61784	62583	62707	62922	63047	63821	63943
138	58629	58764	58971	59674	59875	60006	60231	60919	61139	61269	61507	62160	62378	62505	63302	63426	63641	63766	64538	64659
139	58723	58858	59065	59770	59971	60102	60327	61015	61236	61366	61603	62258	62475	62603	63400	63525	63739	63864	64637	64759
140	58993	59128	59335	60040	60241	60372	60597	61286	61506	61636	61874	62529	62746	62874	63672	63796	64011	64136	64909	65031
141	59655	59790	59997	60700	60902	61032	61257	61945	62165	62295	62533	63186	63404	63531	64328	64452	64667	64792	65564	65685
142	59924	60060	60266	60970	61172	61302	61527	62216	62436	62566	62804	63458	63675	63802	64599	64724	64939	65063	65836	65958
143	60016	60151	60358	61063	61264	61395	61620	62309	62529	62659	62897	63552	63770	63897	64695	64819	65034	65159	65932	66054
144	60285	60421	60627	61333	61534	61665	61890	62580	62800	62930	63167	63823	64040	64168	64966	65091	65306	65430	66204	66326
145	60950	61086	61293	61996	62198	62328	62553	63242	63462	63592	63830	64483	64701	64828	65625	65750	65965	66089	66862	66984
146	61107	61242	61449	62154	62355	62485	62710	63399	63619	63749	63987	64642	64859	64987	65784	65908	66123	66248	67021	67143
147	61308	61444	61651	62356	62557	62688	62913	63602	63823	63953	64191	64846	65063	65191	65989	66114	66328	66453	67227	67349
148	62044	62180	62386	63090	63291	63422	63647	64335	64555	64685	64923	65576	65794	65921	66717	66842	67057	67181	67953	68075
149	62130	62266	62472	63177	63378	63509	63734	64422	64643	64773	65011	65665	65882	66010	66807	66932	67146	67271	68044	68166
150	62400	62535	62742	63447	63648	63778	64003	64693	64913	65043	65281	65936	66153	66280	67078	67203	67418	67542	68316	68438

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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**OVERHEAD SIGNS – VERSATILE TRUSS**  
 Appendix C: Quantities – Two Post Type

Table 3A (cont.): Truss Quantity (lbs) – 60 inch Frame Depth

Main Span (ft)	Cantilever (ft)				
	46	47	48	49	50
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					
133					
134					
135					
136					
137					
138	64904				
139	65003				
140	65276				
141	65930	66052			
142	66202	66324			
143	66299	66421			
144	66571	66693	67472		
145	67228	67350	68128		
146	67387	67509	68288		
147	67593	67715	68495	68614	
148	68320	68442	69219	69338	
149	68410	68532	69311	69430	
150	68682	68804	69583	69702	69912

*Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.*



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 OVERHEAD SIGNS – VERSATILE TRUSS  
 Appendix C: Quantities – Two Post Type

Table 3B: Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
30	6760	7637	8003	8093	8194	8290															
31	7929	8892	9411	9457	9562	9669															
32	8052	9017	9538	9583	9688	9796															
33	8503	9461	9976	10022	10127	10234	10687														
34	8581	9542	10060	10105	10210	10318	10773														
35	8702	9665	10184	10230	10335	10442	10899														
36	8821	9786	10307	10353	10457	10565	11024	11123													
37	9237	10197	10713	10758	10864	10971	11425	11524													
38	9356	10318	10835	10881	10986	11093	11549	11648													
39	9474	10437	10956	11001	11106	11213	11671	11770	11875												
40	9550	10515	11036	11082	11187	11294	11753	11853	11959												
41	10015	10975	11491	11536	11641	11749	12203	12302	12408												
42	10130	11091	11609	11655	11760	11867	12323	12422	12527	12586											
43	10204	11168	11688	11733	11838	11946	12403	12502	12608	12667											
44	10341	11306	11827	11872	11977	12084	12543	12643	12748	12807											
45	10456	11422	11945	11990	12095	12202	12663	12762	12868	12926	13038										
46	11447	12484	13010	13056	13182	13309	13758	13883	13940	14063	14195										
47	11600	12637	13165	13211	13336	13464	13914	14039	14096	14219	14351										
48	11679	12719	13248	13294	13420	13548	13999	14125	14181	14305	14437	14882									
49	11832	12873	13403	13449	13575	13702	14155	14281	14337	14461	14592	15039									
50	12271	13307	13833	13879	14005	14132	14581	14707	14763	14887	15018	15460									
51	12372	13411	13938	13984	14110	14238	14688	14813	14870	14993	15125	15569	15695								
52	12501	13540	14069	14115	14241	14369	14820	14945	15002	15125	15257	15702	15828								
53	12655	13696	14226	14272	14397	14525	14977	15103	15159	15283	15414	15861	15986								
54	13043	14081	14607	14653	14779	14906	15355	15481	15537	15661	15793	16235	16361	16487							
55	13196	14234	14761	14807	14933	15061	15511	15636	15692	15816	15948	16392	16517	16643							
56	13272	14312	14841	14887	15012	15140	15591	15717	15773	15897	16029	16474	16600	16726							
57	13424	14465	14995	15041	15166	15294	15746	15872	15929	16052	16184	16630	16756	16882	16950						
58	13867	14904	15430	15476	15602	15730	16178	16304	16360	16484	16616	17058	17184	17310	17378						
59	13968	15007	15535	15581	15706	15834	16284	16410	16466	16590	16722	17166	17291	17417	17486						
60	14093	15133	15662	15708	15833	15961	16412	16538	16594	16718	16849	17294	17420	17546	17614	18120					
61	15982	17084	17672	17807	17876	18030	18103	18665	18733	18885	18966	19520	19592	19744	19833	19984					
62	16096	17199	17789	17925	17994	18147	18221	18784	18852	19004	19085	19641	19713	19864	19954	20105					
63	16554	17654	18241	18376	18445	18598	18672	19232	19300	19451	19533	20084	20156	20308	20398	20549	21021				
64	16700	17801	18389	18524	18593	18747	18821	19382	19450	19601	19683	20236	20308	20459	20549	20700	21174				
65	16843	17945	18534	18669	18738	18891	18965	19527	19595	19746	19828	20382	20454	20605	20695	20846	21321				
66	17020	18123	18712	18847	18916	19070	19143	19706	19774	19925	20007	20562	20634	20785	20875	21026	21501	21647			
67	17418	18518	19105	19240	19309	19462	19536	20096	20164	20315	20397	20949	21021	21172	21262	21413	21886	22031			
68	17626	18727	19314	19449	19518	19672	19745	20306	20374	20525	20607	21160	21232	21383	21473	21624	22097	22243			
69	17740	18842	19431	19566	19635	19789	19862	20424	20492	20644	20725	21279	21351	21503	21593	21744	22218	22364	22531		

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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 OVERHEAD SIGNS – VERSATILE TRUSS  
 Appendix C: Quantities – Two Post Type

Table 3B (cont.): Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
70	17883	18986	19576	19711	19780	19933	20007	20570	20638	20789	20870	21425	21497	21648	21738	21889	22365	22510	22677		
71	18282	19382	19969	20104	20173	20326	20400	20960	21028	21179	21261	21813	21885	22037	22126	22278	22750	22896	23063		
72	18492	19592	20180	20315	20384	20537	20611	21172	21240	21391	21473	22026	22098	22249	22339	22490	22963	23109	23276	23356	
73	18606	19708	20297	20432	20501	20654	20728	21290	21358	21509	21591	22145	22217	22369	22458	22610	23084	23230	23397	23477	
74	18745	19848	20437	20572	20641	20795	20868	21431	21499	21650	21732	22287	22359	22510	22600	22751	23226	23372	23539	23619	
75	19145	20246	20832	20968	21037	21190	21264	21824	21892	22044	22125	22677	22749	22901	22991	23142	23615	23760	23927	24007	24541
76	22144	23418	24140	24181	24356	24419	24599	25285	25355	25524	25602	26284	26356	26519	26601	26782	27352	27530	27611	27778	28360
77	22347	23621	24344	24385	24560	24623	24803	25489	25559	25729	25807	26489	26561	26724	26806	26987	27558	27736	27817	27983	28567
78	22429	23705	24429	24471	24646	24709	24889	25577	25647	25817	25894	26578	26650	26813	26895	27076	27649	27827	27908	28075	28659
79	22629	23906	24631	24672	24847	24910	25090	25779	25849	26019	26096	26781	26853	27016	27098	27279	27853	28030	28111	28278	28864
80	23151	24424	25146	25187	25362	25425	25605	26291	26361	26531	26608	27290	27362	27525	27607	27788	28358	28536	28617	28784	29366
81	23350	24625	25347	25389	25563	25626	25807	26493	26563	26733	26810	27493	27565	27728	27810	27990	28562	28740	28820	28987	29571
82	23433	24709	25433	25474	25649	25712	25893	26581	26650	26820	26898	27582	27654	27817	27899	28080	28653	28830	28911	29078	29663
83	23633	24909	25635	25676	25851	25914	26094	26783	26852	27022	27100	27785	27857	28020	28101	28282	28856	29034	29114	29281	29867
84	24233	25506	26227	26268	26443	26506	26686	27371	27441	27611	27688	28370	28441	28604	28686	28867	29437	29615	29695	29862	30444
85	24357	25631	26354	26395	26570	26633	26813	27499	27569	27739	27817	28499	28571	28734	28816	28997	29568	29746	29827	29994	30577
86	24513	25788	26512	26553	26728	26791	26971	27658	27728	27897	27975	28659	28731	28893	28975	29156	29729	29906	29987	30154	30738
87	24637	25913	26638	26679	26854	26917	27097	27786	27856	28026	28103	28788	28860	29023	29105	29286	29859	30037	30118	30285	30870
88	25239	26512	27233	27275	27449	27512	27692	28378	28447	28617	28695	29376	29448	29611	29692	29873	30444	30621	30702	30869	31451
89	25363	26637	27360	27401	27576	27639	27819	28505	28575	28745	28823	29505	29577	29740	29822	30003	30574	30752	30833	31000	31583
90	25517	26792	27515	27557	27731	27794	27974	28662	28732	28901	28979	29662	29734	29897	29979	30160	30732	30910	30990	31157	31742
91	29767	31274	32139	32194	32378	32583	32663	33488	33577	33760	33852	34677	34766	34957	35046	35248	35954	36151	36235	36429	37135
92	30468	31970	32831	32886	33070	33275	33355	34175	34264	34447	34540	35360	35449	35640	35729	35931	36633	36829	36913	37107	37810
93	30620	32124	32987	33042	33225	33430	33511	34333	34422	34605	34697	35519	35608	35799	35888	36090	36794	36990	37074	37268	37972
94	30858	32362	33227	33282	33465	33670	33750	34573	34662	34845	34937	35760	35849	36040	36130	36331	37036	37232	37316	37510	38215
95	30953	32459	33325	33380	33564	33769	33849	34674	34762	34946	35038	35862	35951	36142	36232	36433	37140	37336	37420	37614	38320
96	31656	33158	34020	34075	34258	34463	34544	35364	35453	35636	35728	36548	36638	36829	36918	37119	37822	38018	38102	38296	38998
97	31809	33312	34175	34230	34414	34619	34699	35521	35610	35793	35885	36707	36796	36987	37077	37279	37982	38179	38263	38457	39160
98	32047	33551	34415	34470	34654	34858	34939	35762	35850	36034	36126	36948	37038	37229	37318	37520	38224	38421	38505	38699	39403
99	32139	33645	34511	34565	34749	34954	35035	35859	35948	36131	36223	37047	37137	37328	37417	37619	38325	38521	38605	38800	39506
100	32845	34347	35208	35263	35447	35652	35732	36553	36642	36825	36917	37737	37826	38017	38107	38308	39011	39207	39291	39485	40187
101	32997	34501	35364	35418	35602	35807	35888	36710	36798	36982	37074	37895	37985	38176	38265	38467	39170	39367	39451	39645	40349
102	33235	34739	35603	35658	35842	36047	36127	36950	37039	37222	37314	38137	38226	38417	38506	38708	39413	39609	39693	39887	40592
103	33325	34831	35696	35751	35935	36140	36220	37045	37133	37317	37409	38233	38322	38513	38603	38804	39510	39707	39791	39985	40691
104	33563	35069	35936	35991	36174	36379	36460	37285	37374	37557	37649	38474	38563	38754	38843	39045	39752	39948	40032	40227	40934
105	34186	35689	36552	36607	36791	36996	37076	37898	37987	38170	38262	39084	39173	39364	39454	39655	40359	40555	40639	40834	41537
106	38061	39768	40668	40753	40979	41211	41332	42182	42306	42534	42659	43519	43633	43856	43981	44217	44955	45186	45305	45547	46289
107	38334	40042	40943	41027	41253	41485	41606	42457	42581	42809	42934	43795	43909	44132	44256	44493	45232	45463	45581	45823	46567
108	38456	40165	41067	41152	41378	41610	41731	42584	42707	42936	43060	43923	44037	44260	44384	44621	45361	45592	45711	45953	46698
109	39201	40906	41805	41889	42115	42347	42468	43317	43441	43669	43793	44653	44766	44990	45114	45350	46087	46318	46437	46678	47420

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3B (cont.): Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
70																				
71																				
72																				
73																				
74																				
75																				
76																				
77																				
78	28832																			
79	29037																			
80	29539																			
81	29743	29824																		
82	29836	29916																		
83	30040	30120																		
84	30617	30698	30872																	
85	30750	30830	31004																	
86	30910	30991	31165																	
87	31043	31124	31298	31378																
88	31624	31704	31878	31959																
89	31756	31836	32010	32091																
90	31914	31995	32169	32249	32921															
91	37342	37421	37628	37722	38534															
92	38016	38095	38302	38396	39203															
93	38179	38258	38464	38559	39367	39443														
94	38422	38501	38708	38802	39612	39687														
95	38527	38606	38813	38908	39719	39795														
96	39205	39284	39491	39585	40392	40468	40670													
97	39367	39446	39653	39747	40556	40632	40834													
98	39610	39689	39896	39990	40800	40876	41077													
99	39713	39791	39998	40093	40904	40980	41182	41276												
100	40394	40473	40680	40774	41581	41657	41859	41953												
101	40556	40634	40841	40936	41744	41820	42022	42116												
102	40798	40877	41084	41178	41988	42064	42266	42360	43180											
103	40898	40977	41184	41278	42089	42165	42367	42461	43282											
104	41140	41219	41426	41520	42332	42408	42610	42704	43527											
105	41744	41823	42030	42124	42933	43009	43211	43305	44124	44215										
106	46513	46642	46868	46998	47843	47969	48188	48317	49170	49296										
107	46791	46920	47146	47275	48121	48247	48466	48595	49449	49575										
108	46922	47051	47277	47406	48253	48380	48598	48727	49583	49709	49943									
109	47643	47773	47999	48128	48971	49098	49316	49445	50297	50423	50657									

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3B (cont.): Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
110	39387	41094	41994	42079	42305	42537	42658	43508	43632	43860	43985	44845	44959	45182	45307	45543	46281	46512	46631	46873	47615
111	39660	41368	42269	42353	42579	42811	42932	43783	43907	44135	44260	45121	45235	45458	45582	45819	46557	46788	46907	47149	47893
112	39780	41489	42391	42475	42701	42934	43054	43907	44031	44259	44383	45246	45360	45583	45707	45944	46684	46915	47034	47276	48021
113	40527	42232	43131	43215	43441	43673	43794	44643	44767	44995	45120	45979	46092	46316	46440	46676	47413	47644	47763	48005	48746
114	40714	42420	43320	43405	43631	43863	43984	44834	44958	45186	45311	46171	46285	46508	46633	46869	47607	47838	47957	48199	48941
115	40986	42694	43594	43679	43905	44137	44258	45109	45233	45461	45586	46447	46560	46784	46908	47144	47883	48114	48233	48475	49218
116	41103	42812	43714	43799	44025	44257	44377	45230	45354	45582	45707	46569	46683	46906	47031	47267	48007	48238	48357	48599	49343
117	41853	43558	44457	44541	44767	44999	45120	45969	46093	46321	46446	47305	47419	47642	47766	48003	48739	48970	49089	49331	50072
118	42040	43747	44646	44731	44957	45189	45310	46160	46284	46512	46637	47497	47611	47834	47959	48195	48933	49164	49283	49525	50267
119	42312	44020	44920	45005	45231	45463	45584	46435	46559	46787	46911	47773	47886	48110	48234	48470	49209	49440	49559	49801	50544
120	42427	44135	45037	45122	45348	45580	45701	46553	46677	46905	47030	47892	48006	48230	48354	48590	49330	49561	49680	49922	50666
121	51691	53742	54842	54945	55206	55340	55621	56532	56807	57069	57222	58263	58408	58678	58817	59096	60009	60284	60429	60702	61601
122	51938	53990	55091	55194	55455	55589	55869	56782	57057	57319	57471	58513	58659	58929	59067	59346	60260	60536	60680	60953	61854
123	52161	54214	55317	55420	55682	55816	56096	57010	57285	57547	57699	58743	58889	59159	59297	59576	60492	60767	60912	61185	62087
124	52486	54540	55644	55746	56008	56142	56422	57338	57612	57874	58027	59071	59217	59487	59625	59904	60821	61096	61240	61514	62417
125	53294	55345	56445	56548	56810	56944	57224	58136	58410	58672	58825	59866	60012	60282	60420	60699	61612	61888	62032	62305	63204
126	53536	55588	56689	56792	57053	57187	57467	58380	58655	58917	59069	60112	60257	60527	60666	60944	61858	62134	62278	62551	63452
127	53762	55815	56917	57020	57282	57416	57696	58610	58885	59147	59300	60343	60489	60759	60898	61177	62092	62367	62512	62785	63687
128	54086	56140	57244	57347	57608	57742	58022	58938	59212	59474	59627	60671	60817	61087	61225	61504	62421	62696	62840	63114	64016
129	54228	56284	57389	57492	57754	57888	58168	59085	59359	59621	59774	60820	60965	61236	61374	61653	62571	62847	62991	63264	64168
130	55137	57188	58289	58392	58654	58788	59068	59981	60255	60517	60670	61712	61857	62127	62266	62545	63459	63734	63878	64152	65052
131	55362	57415	58518	58621	58882	59016	59297	60211	60485	60747	60900	61944	62089	62359	62498	62777	63692	63968	64112	64385	65287
132	55687	57741	58844	58947	59209	59343	59623	60538	60812	61074	61227	62272	62417	62687	62826	63104	64021	64296	64440	64714	65616
133	55826	57882	58987	59089	59351	59485	59766	60682	60956	61219	61371	62417	62563	62833	62971	63250	64168	64444	64588	64861	65765
134	56737	58789	59890	59993	60254	60388	60668	61581	61856	62118	62270	63312	63458	63728	63866	64145	65059	65335	65479	65752	66652
135	56963	59016	60118	60221	60483	60617	60897	61811	62086	62348	62500	63544	63689	63959	64098	64377	65292	65568	65712	65985	66887
136	63477	65812	65963	67170	67301	67613	67776	68954	69108	69270	69584	69757	70920	71080	71254	71567	72577	72894	73064	73381	73553
137	63646	65982	66133	67342	67472	67785	67948	69128	69282	69444	69758	69930	71095	71255	71429	71743	72754	73071	73241	73559	73731
138	64640	66971	67123	68327	68458	68770	68933	70108	70262	70424	70737	70910	72070	72231	72404	72718	73725	74042	74212	74529	74701
139	64901	67235	67386	68592	68722	69035	69198	70374	70529	70690	71004	71177	72339	72499	72673	72986	73994	74312	74482	74799	74971
140	65272	67606	67757	68965	69095	69407	69570	70748	70902	71064	71378	71550	72713	72873	73047	73360	74370	74687	74857	75174	75346
141	65438	67773	67925	69133	69264	69576	69739	70918	71073	71234	71548	71721	72885	73046	73219	73533	74544	74861	75031	75348	75521
142	65811	68147	68298	69508	69639	69951	70114	71294	71448	71610	71924	72097	73262	73422	73596	73909	74921	75238	75408	75725	75898
143	66696	69029	69180	70386	70517	70829	70992	72168	72323	72484	72798	72971	74132	74293	74466	74780	75788	76105	76275	76592	76764
144	66958	69292	69443	70651	70781	71094	71257	72435	72589	72751	73064	73237	74400	74561	74734	75048	76057	76375	76545	76862	77034
145	67230	69565	69716	70925	71055	71367	71531	72709	72863	73025	73339	73512	74676	74836	75010	75323	76334	76651	76821	77138	77310
146	67491	69828	69979	71189	71319	71632	71795	72975	73129	73291	73605	73778	74943	75104	75277	75591	76603	76920	77090	77408	77580
147	68491	70824	70975	72181	72311	72623	72786	73962	74117	74278	74592	74765	75926	76086	76260	76573	77581	77898	78068	78385	78558
148	68753	71087	71238	72445	72575	72888	73051	74228	74383	74544	74858	75031	76194	76354	76528	76841	77850	78168	78338	78655	78827
149	69014	71349	71501	72709	72840	73152	73316	74494	74649	74810	75124	75297	76461	76622	76795	77109	78120	78437	78607	78924	79097
150	69283	71619	71770	72980	73110	73423	73586	74766	74920	75082	75396	75569	76734	76894	77068	77381	78393	78710	78880	79197	79370

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3B (cont.): Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
110	47839	47968	48194	48324	49168	49295	49513	49642	50495	50622	50856									
111	48116	48245	48471	48601	49446	49573	49791	49920	50774	50901	51135	51261								
112	48244	48374	48600	48729	49576	49703	49921	50050	50905	51031	51266	51392								
113	48970	49099	49325	49454	50298	50424	50643	50772	51623	51750	51984	52110								
114	49165	49294	49520	49649	50494	50621	50839	50968	51821	51948	52182	52308	52542							
115	49442	49571	49797	49926	50772	50899	51117	51246	52100	52226	52460	52587	52821							
116	49567	49696	49922	50052	50899	51025	51244	51373	52228	52354	52588	52715	52949							
117	50296	50425	50651	50780	51624	51750	51969	52098	52950	53076	53310	53436	53670	54401						
118	50491	50620	50846	50975	51820	51947	52165	52294	53147	53274	53508	53634	53868	54600						
119	50768	50897	51123	51252	52098	52224	52443	52572	53425	53552	53786	53912	54146	54879						
120	50890	51019	51245	51375	52221	52348	52567	52695	53550	53677	53911	54037	54272	55006	55237					
121	61871	62027	62297	62452	63472	63627	63909	64044	65075	65228	65507	65659	65938	66828	67102					
122	62124	62279	62549	62704	63725	63880	64162	64297	65330	65482	65761	65913	66191	67083	67357					
123	62357	62512	62782	62938	63960	64115	64397	64532	65566	65718	65997	66149	66428	67321	67595	67744				
124	62687	62842	63112	63267	64291	64446	64728	64863	65898	66050	66329	66481	66760	67654	67927	68077				
125	63475	63630	63900	64056	65076	65230	65512	65648	66679	66831	67110	67262	67541	68431	68705	68855				
126	63722	63877	64147	64302	65323	65478	65760	65895	66928	67080	67359	67511	67789	68681	68955	69104	69380			
127	63957	64112	64382	64538	65560	65715	65997	66132	67166	67318	67597	67749	68028	68921	69195	69344	69621			
128	64287	64442	64712	64867	65891	66046	66327	66463	67497	67650	67928	68080	68359	69253	69527	69676	69952			
129	64439	64594	64864	65019	66044	66199	66481	66616	67653	67805	68084	68236	68515	69410	69684	69833	70110	71013		
130	65322	65477	65747	65903	66924	67079	67360	67496	68528	68680	68959	69111	69390	70281	70555	70704	70980	71880		
131	65557	65712	65983	66138	67160	67315	67597	67732	68766	68918	69197	69349	69628	70521	70795	70944	71220	72121		
132	65886	66042	66312	66467	67491	67646	67927	68063	69097	69249	69528	69680	69959	70853	71127	71276	71552	72454	72728	
133	66035	66191	66461	66616	67641	67796	68078	68213	69249	69401	69680	69832	70111	71006	71280	71430	71706	72609	72883	
134	66922	67078	67348	67503	68524	68679	68961	69096	70128	70280	70559	70711	70990	71882	72155	72305	72581	73481	73754	
135	67157	67312	67583	67738	68760	68915	69197	69332	70366	70518	70797	70949	71228	72121	72395	72544	72820	73721	73995	74141
136	74563	74874	75041	75370	76379	76685	76866	77024	77350	78351	78671	78849	79028	80159	80334	80654	80829	81147	82141	82314
137	74742	75053	75220	75549	76560	76866	77047	77205	77531	78533	78854	79032	79210	80343	80518	80839	81014	81332	82328	82500
138	75708	76019	76186	76514	77521	77826	78008	78166	78492	79489	79810	79988	80166	81294	81470	81790	81965	82282	83274	83446
139	75980	76291	76457	76786	77795	78100	78281	78440	78766	79764	80085	80263	80442	81571	81747	82067	82242	82560	83553	83725
140	76356	76667	76834	77162	78172	78477	78658	78816	79142	80142	80463	80641	80819	81950	82125	82445	82621	82938	83932	84105
141	76531	76843	77009	77338	78349	78655	78836	78994	79320	80322	80642	80820	80999	82131	82306	82626	82802	83119	84115	84288
142	76910	77221	77387	77716	78728	79033	79215	79373	79699	80702	81022	81200	81379	82512	82687	83007	83182	83500	84497	84669
143	77772	78084	78250	78579	79587	79893	80074	80232	80558	81557	81877	82055	82234	83363	83538	83858	84034	84351	85344	85517
144	78044	78355	78522	78851	79860	80166	80347	80505	80831	81831	82152	82330	82509	83640	83815	84135	84310	84628	85622	85795
145	78321	78632	78799	79128	80138	80444	80625	80783	81109	82110	82431	82609	82787	83919	84095	84415	84590	84907	85903	86075
146	78592	78903	79070	79399	80411	80716	80898	81056	81382	82385	82705	82884	83062	84195	84371	84691	84866	85184	86181	86353
147	79566	79877	80043	80372	81380	81685	81866	82025	82350	83349	83669	83848	84026	85155	85330	85650	85826	86143	87136	87308
148	79836	80148	80314	80643	81652	81958	82139	82297	82623	83623	83944	84122	84300	85431	85606	85926	86102	86420	87414	87586
149	80107	80419	80585	80914	81925	82231	82412	82570	82896	83897	84218	84397	84575	85707	85882	86203	86378	86696	87691	87864
150	80381	80693	80859	81188	82200	82505	82686	82845	83171	84173	84494	84672	84850	85983	86159	86479	86654	86972	87968	88141

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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 Appendix C: Quantities – Two Post Type

Table 3B (cont.): Truss Quantity (lbs) – 72 inch Frame Depth

Main Span (ft)	Cantilever (ft)				
	46	47	48	49	50
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					
133					
134					
135					
136					
137					
138	83761				
139	84040				
140	84419				
141	84602	84775			
142	84984	85156			
143	85831	86004			
144	86110	86282	87428		
145	86390	86562	87709		
146	86668	86840	87988		
147	87623	87795	88939	89143	
148	87901	88073	89218	89422	
149	88179	88351	89498	89702	
150	88455	88628	89776	89980	90291

*Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.*



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 OVERHEAD SIGNS – VERSATILE TRUSS  
 Appendix C: Quantities – Two Post Type

Table 3C: Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
30	6969	7968	8069	8131	8239	8789															
31	7746	8899	9007	9066	9181	9863															
32	8327	9464	9572	9630	9746	10411															
33	8442	9581	9689	9747	9863	10530	10584														
34	8525	9667	9775	9834	9949	10620	10674														
35	8659	9804	9912	9970	10086	10759	10813														
36	8783	9931	10038	10097	10212	10888	10942	11050													
37	8866	10017	10125	10183	10298	10978	11032	11140													
38	8991	10145	10252	10311	10426	11108	11162	11270													
39	9561	10700	10808	10866	10981	11650	11704	11812	11923												
40	9652	10795	10903	10961	11077	11747	11801	11909	12022												
41	9776	10920	11028	11086	11202	11875	11929	12037	12149												
42	9898	11044	11152	11210	11326	12001	12055	12163	12274	12334											
43	9979	11128	11236	11294	11410	12087	12141	12249	12361	12421											
44	10113	11264	11372	11430	11546	12226	12280	12388	12500	12559											
45	10235	11388	11496	11554	11670	12352	12406	12514	12626	12685	12801										
46	11263	12464	12586	12645	12777	13453	13510	13634	13695	13827	13953										
47	11411	12614	12736	12795	12927	13604	13661	13786	13847	13979	14105										
48	11496	12702	12823	12883	13015	13694	13751	13876	13937	14069	14195	14264									
49	11632	12839	12960	13020	13151	13833	13890	14014	14075	14207	14334	14402									
50	11778	12987	13108	13168	13299	13983	14040	14164	14225	14357	14483	14552									
51	11863	13074	13196	13255	13387	14073	14130	14254	14315	14447	14573	14642	15314								
52	12011	13224	13346	13405	13537	14224	14281	14406	14467	14599	14725	14794	15467								
53	12145	13360	13481	13540	13672	14361	14418	14543	14604	14736	14862	14930	15606								
54	12670	13874	13996	14055	14187	14866	14923	15048	15109	15241	15367	15436	16101	16227							
55	12818	14024	14146	14205	14337	15017	15074	15199	15260	15392	15518	15587	16253	16380							
56	12901	14109	14231	14290	14422	15105	15162	15286	15347	15479	15606	15674	16343	16470							
57	13047	14257	14379	14438	14570	15254	15311	15435	15497	15629	15755	15824	16494	16620	16685						
58	13181	14392	14514	14573	14705	15390	15448	15572	15633	15765	15891	15960	16632	16758	16823						
59	13279	14492	14614	14673	14805	15493	15550	15674	15735	15867	15994	16062	16736	16863	16928						
60	13412	14627	14749	14808	14940	15629	15686	15811	15872	16004	16130	16199	16874	17001	17065	17197					
61	15647	16917	17072	17224	17302	18025	18095	18248	18325	18476	18553	18709	18792	19499	19578	19734					
62	15744	17015	17171	17323	17401	18125	18196	18349	18426	18578	18655	18811	18894	19602	19681	19838					
63	15913	17186	17341	17493	17571	18297	18367	18520	18597	18749	18826	18982	19064	19775	19853	20009	20088				
64	16008	17283	17438	17591	17668	18396	18466	18619	18696	18848	18925	19081	19164	19876	19955	20111	20190				
65	16179	17455	17610	17762	17840	18569	18639	18792	18869	19021	19098	19254	19337	20050	20129	20285	20364				
66	16330	17607	17762	17915	17992	18723	18793	18946	19023	19175	19252	19407	19490	20205	20284	20440	20518	20670			
67	16445	17724	17879	18032	18109	18841	18911	19064	19141	19293	19370	19526	19609	20325	20404	20560	20639	20791			
68	17052	18323	18478	18630	18707	19431	19501	19654	19731	19883	19960	20116	20199	20907	20985	21141	21220	21372			
69	17166	18439	18594	18747	18824	19549	19619	19772	19849	20001	20078	20234	20317	21027	21105	21262	21340	21492	21649		

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3C (cont.): Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
70	17316	18589	18744	18897	18974	19701	19771	19924	20001	20153	20230	20385	20468	21179	21258	21414	21493	21645	21801		
71	17430	18705	18861	19013	19091	19819	19889	20042	20119	20271	20348	20504	20587	21299	21378	21534	21613	21765	21921		
72	17599	18875	19030	19183	19260	19990	20060	20213	20290	20442	20519	20675	20757	21471	21550	21706	21785	21937	22093	22177	
73	17694	18972	19127	19280	19357	20088	20159	20312	20389	20541	20618	20774	20856	21572	21650	21807	21885	22038	22194	22279	
74	17863	19142	19297	19450	19527	20260	20330	20483	20560	20712	20788	20944	21027	21744	21822	21978	22057	22209	22365	22450	
75	18420	19692	19847	20000	20077	20802	20872	21025	21102	21254	21331	21487	21570	22279	22358	22514	22593	22745	22901	22986	23693
76	22159	23723	23906	23972	24159	25015	25185	25362	25439	25616	25697	25889	25967	26900	26979	27159	27240	27423	27507	27694	28517
77	22365	23929	24112	24178	24365	25223	25393	25569	25646	25823	25905	26096	26174	27109	27188	27368	27449	27631	27716	27903	28727
78	22483	24050	24233	24299	24486	25346	25516	25692	25769	25946	26028	26219	26298	27235	27313	27494	27574	27757	27842	28029	28855
79	22688	24257	24439	24506	24692	25554	25724	25900	25977	26154	26236	26427	26505	27443	27522	27702	27783	27966	28050	28237	29065
80	22785	24355	24538	24604	24791	25654	25824	26001	26078	26255	26337	26528	26606	27546	27625	27805	27886	28069	28153	28340	29170
81	22990	24561	24744	24811	24997	25862	26032	26208	26285	26462	26544	26735	26813	27755	27834	28014	28095	28277	28362	28549	29380
82	23686	25249	25432	25498	25685	26541	26711	26887	26964	27141	27223	27414	27493	28425	28504	28684	28765	28948	29032	29219	30041
83	23892	25455	25638	25705	25891	26749	26918	27095	27172	27348	27430	27621	27700	28634	28712	28892	28973	29156	29240	29427	30251
84	24095	25660	25842	25909	26095	26954	27124	27300	27377	27553	27635	27826	27905	28840	28918	29098	29179	29362	29446	29633	30458
85	24215	25782	25965	26031	26218	27079	27248	27425	27502	27678	27760	27951	28030	28967	29045	29226	29307	29489	29574	29760	30587
86	24418	25986	26169	26235	26422	27284	27454	27630	27707	27883	27965	28156	28235	29173	29252	29432	29513	29695	29779	29966	30794
87	24515	26085	26267	26334	26521	27384	27554	27730	27807	27984	28066	28257	28335	29275	29354	29534	29615	29798	29882	30069	30899
88	24718	26289	26472	26538	26725	27590	27759	27935	28012	28189	28271	28462	28540	29482	29560	29740	29821	30004	30088	30275	31106
89	24841	26414	26597	26663	26850	27717	27886	28063	28140	28317	28398	28589	28668	29611	29690	29870	29951	30134	30218	30405	31238
90	25622	27186	27369	27435	27622	28480	28649	28825	28902	29079	29161	29352	29430	30365	30443	30623	30704	30887	30971	31158	31982
91	30118	32019	32225	32294	32380	32608	33629	33833	33918	34129	34231	34444	34544	35549	35762	35862	36074	36169	36387	36489	36708
92	30360	32263	32468	32538	32624	32851	33874	34078	34163	34374	34476	34688	34788	35795	36008	36108	36320	36414	36632	36735	36953
93	30475	32380	32586	32655	32741	32969	33993	34198	34283	34494	34596	34808	34908	35917	36130	36230	36443	36537	36755	36858	37076
94	30718	32624	32830	32899	32985	33213	34239	34443	34528	34739	34841	35053	35153	36163	36376	36476	36688	36783	37001	37103	37321
95	30866	32774	32980	33049	33136	33364	34391	34596	34681	34892	34994	35206	35306	36319	36532	36632	36844	36939	37157	37259	37477
96	30979	32889	33096	33165	33251	33479	34509	34713	34799	35010	35112	35324	35424	36439	36652	36752	36965	37059	37277	37380	37598
97	31929	33829	34035	34104	34190	34418	35437	35641	35727	35938	36039	36252	36352	37356	37569	37668	37881	37975	38194	38296	38514
98	32077	33979	34185	34254	34341	34569	35590	35794	35880	36091	36192	36405	36505	37511	37724	37824	38037	38131	38349	38452	38670
99	32320	34223	34429	34498	34584	34812	35835	36039	36124	36335	36437	36649	36749	37757	37970	38069	38282	38376	38594	38697	38915
100	32432	34337	34544	34613	34699	34927	35951	36156	36241	36452	36554	36767	36867	37876	38089	38189	38401	38496	38714	38816	39035
101	32675	34581	34787	34856	34943	35170	36196	36400	36486	36697	36799	37011	37111	38122	38335	38434	38647	38741	38959	39062	39280
102	32823	34732	34938	35007	35093	35321	36349	36553	36639	36850	36952	37164	37264	38277	38490	38590	38802	38897	39115	39217	39435
103	33030	34940	35145	35215	35301	35528	36558	36762	36848	37059	37160	37372	37473	38487	38700	38800	39012	39106	39324	39427	39645
104	33889	35789	35995	36064	36151	36378	37398	37602	37688	37899	38001	38213	38313	39318	39531	39631	39843	39938	40156	40258	40476
105	34035	35937	36143	36212	36299	36527	37548	37753	37838	38050	38151	38364	38464	39470	39683	39783	39996	40090	40309	40411	40630
106	37948	40054	40297	40401	40522	40783	41840	42076	42202	42447	42579	42828	42969	44003	44251	44385	44640	44762	45023	45152	45405
107	38189	40296	40539	40643	40765	41025	42083	42320	42445	42691	42822	43071	43211	44247	44495	44629	44885	45006	45266	45396	45648
108	38370	40479	40722	40826	40948	41208	42268	42504	42630	42876	43007	43257	43397	44434	44682	44817	45072	45193	45454	45583	45836
109	38553	40664	40908	41012	41133	41393	42455	42692	42817	43063	43195	43444	43584	44624	44872	45006	45262	45383	45644	45773	46026

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3C (cont.): Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
70																				
71																				
72																				
73																				
74																				
75																				
76																				
77																				
78	29042																			
79	29252																			
80	29357																			
81	29567	29641																		
82	30229	30303																		
83	30438	30512																		
84	30645	30719	30906																	
85	30774	30848	31035																	
86	30981	31055	31242																	
87	31086	31160	31347	31430																
88	31293	31367	31554	31637																
89	31425	31499	31686	31769																
90	32169	32243	32430	32513	32696															
91	37702	37794	38015	38106	38330															
92	37949	38041	38262	38353	38576															
93	38074	38166	38387	38478	38702	38801														
94	38321	38413	38634	38725	38948	39048														
95	38480	38571	38792	38884	39107	39207														
96	38602	38694	38915	39006	39230	39330	39553													
97	39508	39599	39820	39912	40135	40235	40458													
98	39665	39757	39978	40069	40293	40393	40616													
99	39912	40003	40224	40316	40539	40639	40862	41859												
100	40034	40125	40346	40438	40661	40761	40984	41983												
101	40280	40372	40593	40684	40907	41007	41230	42231												
102	40438	40529	40750	40842	41065	41165	41388	42391	42599											
103	40649	40740	40961	41053	41276	41375	41599	42603	42810											
104	41471	41562	41783	41875	42098	42198	42421	43415	43623											
105	41625	41717	41938	42030	42253	42353	42577	43572	43780	43880										
106	46436	46695	46821	46955	47203	47337	47596	48630	48883	49004										
107	46682	46940	47066	47200	47448	47582	47840	48876	49129	49250										
108	46871	47129	47255	47390	47637	47772	48030	49067	49320	49441	49695									
109	47063	47321	47447	47582	47830	47964	48222	49261	49515	49636	49889									

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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 Appendix C: Quantities – Two Post Type

Table 3C (cont.): Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)																				
	Minimum	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
110	38791	40904	41147	41251	41373	41633	42696	42933	43058	43304	43435	43685	43825	44866	45113	45248	45503	45625	45885	46015	46267
111	39690	41794	42037	42141	42262	42522	43577	43813	43939	44185	44316	44566	44706	45738	45986	46120	46376	46497	46758	46887	47140
112	39967	42072	42315	42419	42540	42800	43856	44093	44218	44464	44595	44845	44985	46018	46266	46400	46655	46777	47038	47167	47420
113	40150	42257	42500	42604	42726	42986	44043	44280	44405	44651	44783	45032	45172	46207	46455	46589	46845	46966	47227	47356	47609
114	40386	42494	42738	42841	42963	43223	44282	44518	44644	44889	45021	45270	45410	46446	46694	46829	47084	47205	47466	47595	47848
115	40569	42679	42923	43027	43148	43408	44468	44705	44831	45076	45208	45457	45598	46635	46883	47018	47273	47394	47655	47784	48037
116	40849	42960	43203	43307	43428	43688	44750	44987	45112	45358	45489	45739	45879	46918	47166	47300	47555	47677	47937	48067	48319
117	40989	43102	43345	43449	43570	43830	44894	45130	45256	45502	45633	45883	46023	47063	47311	47446	47701	47822	48083	48212	48465
118	41892	43997	44240	44344	44465	44726	45781	46017	46143	46389	46520	46770	46910	47942	48190	48325	48580	48702	48963	49092	49345
119	42170	44275	44518	44622	44744	45004	46060	46297	46422	46668	46799	47049	47189	48222	48470	48605	48860	48981	49242	49371	49624
120	42353	44460	44704	44807	44929	45189	46247	46483	46609	46855	46986	47236	47376	48411	48659	48794	49049	49170	49431	49560	49814
121	52032	54643	54926	55053	55195	55503	56875	57162	57302	57596	57748	58044	58205	59560	59846	60001	60305	60449	60751	60909	61217
122	52365	54978	55260	55386	55529	55837	57211	57497	57637	57931	58083	58379	58540	59897	60182	60337	60641	60785	61087	61245	61552
123	52536	55151	55433	55560	55702	56011	57386	57673	57813	58107	58259	58555	58716	60075	60360	60515	60819	60964	61266	61423	61731
124	52868	55485	55767	55894	56036	56344	57722	58008	58148	58442	58594	58890	59051	60411	60696	60851	61155	61300	61601	61759	62066
125	53086	55705	55987	56114	56256	56565	57944	58230	58371	58665	58817	59113	59274	60636	60921	61076	61380	61525	61826	61984	62292
126	54363	56971	57253	57380	57522	57830	59199	59485	59625	59919	60071	60367	60528	61879	62165	62319	62623	62768	63069	63227	63534
127	54531	57141	57424	57550	57693	58001	59371	59658	59798	60092	60244	60540	60701	62054	62340	62495	62799	62943	63245	63403	63710
128	54751	57364	57646	57773	57915	58224	59596	59883	60023	60317	60469	60765	60926	62281	62567	62722	63026	63171	63472	63630	63938
129	55082	57695	57978	58104	58246	58555	59929	60215	60355	60649	60801	61097	61258	62615	62900	63055	63359	63504	63805	63963	64271
130	55253	57868	58151	58277	58419	58728	60104	60390	60531	60824	60977	61273	61434	62792	63078	63233	63537	63682	63983	64141	64449
131	55585	58202	58484	58611	58753	59062	60439	60725	60866	61159	61311	61607	61768	63129	63414	63569	63873	64017	64319	64476	64784
132	55803	58422	58704	58831	58973	59282	60661	60947	61088	61382	61534	61830	61991	63353	63638	63793	64097	64242	64544	64701	65009
133	57086	59694	59976	60103	60245	60553	61922	62209	62349	62643	62795	63090	63252	64604	64889	65044	65348	65492	65794	65951	66259
134	57251	59862	60144	60271	60413	60721	62092	62379	62519	62813	62965	63261	63422	64776	65061	65216	65520	65665	65966	66124	66432
135	57584	60196	60478	60604	60747	61055	62427	62714	62854	63147	63299	63595	63756	65112	65397	65552	65856	66000	66302	66459	66767
136	63126	65996	66127	66455	66620	66953	68463	68778	68941	69109	69435	69616	69940	71441	71612	71926	72107	72427	72609	72938	73122
137	63380	66253	66384	66712	66877	67210	68722	69038	69201	69368	69694	69876	70199	71703	71874	72188	72369	72690	72871	73201	73385
138	63744	66618	66749	67077	67242	67575	69089	69404	69567	69735	70060	70242	70565	72071	72242	72555	72737	73057	73239	73568	73752
139	63943	66820	66951	67279	67444	67777	69293	69609	69772	69939	70265	70447	70770	72278	72449	72762	72944	73264	73446	73775	73959
140	65312	68176	68308	68635	68800	69133	70637	70953	71116	71283	71609	71790	72113	73610	73780	74094	74276	74595	74777	75106	75290
141	65566	68433	68564	68892	69057	69390	70896	71212	71375	71542	71868	72050	72373	73871	74042	74355	74537	74857	75039	75368	75552
142	65932	68801	68932	69259	69425	69757	71265	71581	71744	71911	72237	72418	72741	74241	74412	74725	74907	75227	75409	75738	75921
143	66127	68997	69129	69456	69621	69954	71464	71780	71943	72110	72436	72617	72941	74443	74613	74927	75109	75429	75611	75939	76123
144	66381	69254	69385	69713	69878	70211	71723	72039	72202	72369	72695	72877	73200	74704	74875	75189	75370	75691	75872	76201	76385
145	66745	69619	69750	70078	70243	70576	72089	72405	72568	72736	73061	73243	73566	75072	75242	75556	75738	76058	76240	76568	76752
146	66941	69818	69949	70277	70442	70775	72291	72606	72769	72937	73263	73444	73768	75275	75446	75760	75942	76262	76444	76773	76957
147	68316	71180	71312	71639	71805	72137	73642	73957	74120	74288	74613	74795	75118	76615	76785	77099	77281	77601	77782	78111	78295
148	68570	71437	71569	71896	72061	72394	73901	74216	74379	74547	74872	75054	75378	76876	77047	77360	77542	77862	78044	78373	78557
149	68824	71694	71825	72153	72318	72651	74159	74475	74638	74806	75132	75313	75637	77137	77308	77622	77803	78124	78305	78635	78819
150	69128	71998	72130	72457	72622	72955	74465	74781	74944	75112	75437	75619	75942	77444	77615	77928	78110	78430	78612	78941	79125

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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Table 3C (cont.): Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)																			
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
110	47305	47564	47690	47824	48072	48206	48465	49505	49758	49879	50132									
111	48169	48427	48554	48688	48936	49070	49329	50360	50613	50734	50988	51122								
112	48450	48708	48834	48969	49216	49351	49609	50642	50895	51016	51269	51403								
113	48641	48899	49026	49160	49408	49542	49801	50835	51088	51209	51463	51597								
114	48881	49139	49265	49400	49648	49782	50040	51076	51329	51450	51703	51837	51971							
115	49072	49331	49457	49591	49839	49973	50232	51269	51522	51643	51897	52031	52165							
116	49356	49614	49740	49875	50122	50257	50515	51553	51806	51928	52181	52315	52449							
117	49503	49762	49888	50022	50270	50405	50663	51703	51956	52077	52331	52465	52599	52852						
118	50374	50633	50759	50893	51141	51276	51534	52566	52819	52940	53194	53328	53462	53715						
119	50655	50913	51039	51174	51422	51556	51814	52847	53101	53222	53475	53609	53743	53996						
120	50846	51104	51230	51365	51613	51747	52006	53040	53293	53415	53668	53802	53936	54190	54324					
121	62557	62707	63003	63167	63460	63624	63920	65258	65563	65707	65867	66172	66332	66635	66781					
122	62895	63044	63340	63503	63797	63960	64256	65596	65901	66045	66205	66510	66670	66972	67119					
123	63075	63225	63521	63685	63978	64142	64438	65780	66084	66228	66389	66693	66854	67156	67303	68791				
124	63413	63562	63858	64022	64315	64478	64774	66118	66422	66566	66727	67031	67192	67493	67640	69130				
125	63640	63790	64086	64249	64543	64706	65002	66348	66652	66797	66957	67261	67422	67724	67871	69363				
126	64872	65022	65317	65481	65774	65937	66233	67568	67872	68017	68177	68481	68642	68944	69090	70572	70729			
127	65049	65199	65495	65658	65952	66115	66411	67748	68053	68197	68357	68662	68822	69124	69271	70754	70912			
128	65279	65429	65725	65888	66182	66345	66642	67980	68285	68429	68589	68894	69055	69357	69503	70989	71147			
129	65613	65763	66059	66222	66516	66679	66975	68316	68620	68764	68925	69229	69389	69691	69838	71325	71483	71782		
130	65793	65943	66239	66403	66696	66860	67156	68498	68802	68947	69107	69412	69572	69874	70021	71510	71668	71967		
131	66130	66280	66576	66739	67033	67196	67492	68836	69140	69284	69445	69749	69910	70211	70358	71848	72006	72305		
132	66357	66507	66803	66966	67260	67423	67719	69065	69370	69514	69674	69979	70139	70441	70588	72080	72238	72537	72695	
133	67597	67747	68042	68206	68499	68663	68958	70294	70598	70742	70903	71207	71368	71670	71816	73298	73456	73755	73913	
134	67771	67921	68217	68380	68674	68837	69133	70471	70775	70919	71080	71384	71545	71847	71993	73477	73635	73934	74092	
135	68108	68258	68554	68717	69010	69174	69469	70808	71112	71257	71417	71721	71882	72184	72330	73816	73973	74272	74430	74588
136	74599	74921	75100	75423	75610	75933	76123	77591	77923	78095	78424	78611	78784	79113	79300	80918	81102	81429	81613	81779
137	74863	75186	75364	75688	75875	76198	76388	77858	78190	78362	78692	78879	79051	79381	79568	81188	81372	81699	81883	82049
138	75232	75555	75733	76056	76244	76567	76757	78228	78560	78732	79062	79249	79421	79750	79937	81559	81743	82070	82254	82420
139	75442	75765	75943	76266	76454	76777	76967	78440	78772	78945	79274	79461	79634	79963	80150	81774	81958	82285	82469	82636
140	76761	77084	77262	77585	77772	78095	78285	79747	80079	80251	80580	80767	80940	81269	81456	83068	83252	83579	83763	83929
141	77025	77348	77526	77849	78037	78360	78550	80014	80346	80518	80847	81034	81207	81536	81723	83337	83522	83848	84032	84199
142	77396	77719	77897	78220	78408	78730	78920	80386	80718	80890	81219	81406	81579	81908	82095	83711	83895	84221	84405	84572
143	77600	77923	78101	78424	78612	78935	79125	80593	80924	81097	81426	81613	81786	82115	82302	83920	84104	84430	84614	84781
144	77864	78187	78365	78689	78876	79199	79389	80859	81191	81363	81693	81880	82052	82382	82569	84189	84373	84700	84884	85050
145	78233	78556	78734	79057	79244	79567	79757	81229	81561	81733	82062	82249	82422	82751	82938	84560	84744	85070	85254	85421
146	78439	78762	78940	79263	79451	79774	79964	81438	81769	81942	82271	82458	82631	82960	83147	84771	84955	85282	85466	85632
147	79766	80089	80267	80590	80778	81101	81291	82753	83085	83257	83586	83773	83946	84275	84462	86074	86259	86585	86769	86936
148	80030	80353	80531	80854	81042	81365	81555	83019	83351	83523	83853	84040	84212	84542	84729	86343	86527	86854	87038	87204
149	80294	80617	80795	81118	81306	81629	81819	83285	83617	83790	84119	84306	84479	84808	84995	86612	86796	87123	87307	87473
150	80602	80924	81103	81426	81613	81936	82126	83594	83926	84098	84428	84615	84787	85116	85304	86921	87106	87432	87616	87783

Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.



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 Appendix C: Quantities – Two Post Type

Table 3C (cont.): Truss Quantity (lbs) – 120 inch Frame Depth

Main Span (ft)	Cantilever (ft)				
	46	47	48	49	50
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					
129					
130					
131					
132					
133					
134					
135					
136					
137					
138	82764				
139	82980				
140	84273				
141	84543	84727			
142	84915	85100			
143	85125	85309			
144	85395	85579	87179		
145	85765	85949	87551		
146	85977	86161	87764		
147	87279	87464	89056	89240	
148	87548	87733	89327	89511	
149	87817	88002	89598	89782	
150	88127	88311	89909	90092	90416

*Note: Truss Quantity includes quantities for truss members (angles), gusset plates, and upper/lower juncture connections to post.*



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Table 4A: Steel Post Quantity (lbs) – 60 inch Frame Depth

Post Clear Height (ft)	Post Type							
	2A	2B	2C	2D	2E	2F	2G	2H
10	4085	4620	4696	5574	5591	6155	8874	10870
11	4278	4828	4905	5825	5830	6402	9265	11325
12	4470	5036	5114	6076	6068	6650	9657	11781
13	4663	5244	5323	6327	6307	6897	10049	12237
14	4855	5452	5532	6578	6545	7144	10440	12693
15	5047	5660	5741	6829	6784	7392	10832	13149
16	5240	5869	5950	7080	7022	7639	11224	13605
17	5432	6077	6159	7331	7261	7886	11616	14060
18	5625	6285	6368	7582	7500	8133	12007	14516
19	5817	6493	6577	7834	7738	8381	12399	14972
20	6010	6701	6786	8085	7977	8628	12791	15428
21	6202	6909	6995	8336	8215	8875	13182	15884
22	6395	7118	7204	8587	8454	9123	13574	16339
23	6587	7326	7414	8838	8692	9370	13966	16795
24	6780	7534	7623	9089	8931	9617	14357	17251
25	6972	7742	7832	9340	9170	9865	14749	17707
26	7165	7950	8041	9591	9408	10112	15141	18163
27	7357	8158	8250	9842	9647	10359	15532	18619
28	7550	8367	8459	10093	9885	10607	15924	19074

*Note: Steel Post Quantity includes quantities for the steel post, base plate, and anchor bolts.*



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Table 4B: Steel Post Quantity (lbs) – 72 inch Frame Depth

Post Clear Height (ft)	Post Type							
	2A	2B	2C	2D	2E	2F	2G	2H
10	4278	4828	4905	5825	5830	6351	9184	11244
11	4470	5036	5114	6076	6068	6599	9575	11700
12	4663	5244	5323	6327	6307	6846	9967	12155
13	4855	5452	5532	6578	6545	7093	10359	12611
14	5047	5660	5741	6829	6784	7341	10751	13067
15	5240	5869	5950	7080	7022	7588	11142	13523
16	5432	6077	6159	7331	7261	7835	11534	13979
17	5625	6285	6368	7582	7500	8082	11926	14435
18	5817	6493	6577	7834	7738	8330	12317	14890
19	6010	6701	6786	8085	7977	8577	12709	15346
20	6202	6909	6995	8336	8215	8824	13101	15802
21	6395	7118	7204	8587	8454	9072	13492	16258
22	6587	7326	7414	8838	8692	9319	13884	16714
23	6780	7534	7623	9089	8931	9566	14276	17169
24	6972	7742	7832	9340	9170	9814	14667	17625
25	7165	7950	8041	9591	9408	10061	15059	18081
26	7357	8158	8250	9842	9647	10308	15451	18537
27	7550	8367	8459	10093	9885	10555	15842	18993
28	7742	8575	8668	10344	10124	10803	16234	19449

*Note: Steel Post Quantity includes quantities for the steel post, base plate, and anchor bolts.*



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Table 4C: Steel Post Quantity (lbs) – 120 inch Frame Depth

Post Clear Height (ft)	Post Type							
	2A	2B	2C	2D	2E	2F	2G	2H
10	5047	5660	5741	6829	6784	7136	10424	12740
11	5240	5869	5950	7080	7022	7384	10816	13196
12	5432	6077	6159	7331	7261	7631	11207	13652
13	5625	6285	6368	7582	7500	7878	11599	14108
14	5817	6493	6577	7834	7738	8126	11991	14564
15	6010	6701	6786	8085	7977	8373	12382	15019
16	6202	6909	6995	8336	8215	8620	12774	15475
17	6395	7118	7204	8587	8454	8867	13166	15931
18	6587	7326	7414	8838	8692	9115	13557	16387
19	6780	7534	7623	9089	8931	9362	13949	16843
20	6972	7742	7832	9340	9170	9609	14341	17299
21	7165	7950	8041	9591	9408	9857	14732	17754
22	7357	8158	8250	9842	9647	10104	15124	18210
23	7550	8367	8459	10093	9885	10351	15516	18666
24	7742	8575	8668	10344	10124	10599	15907	19122
25	7935	8783	8877	10595	10362	10846	16299	19578
26	8127	8991	9086	10846	10601	11093	16691	20034
27	8319	9199	9295	11097	10840	11341	17082	20489
28	8512	9407	9504	11348	11078	11588	17474	20945

*Note: Steel Post Quantity includes quantities for the steel post, base plate, and anchor bolts.*



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Example:

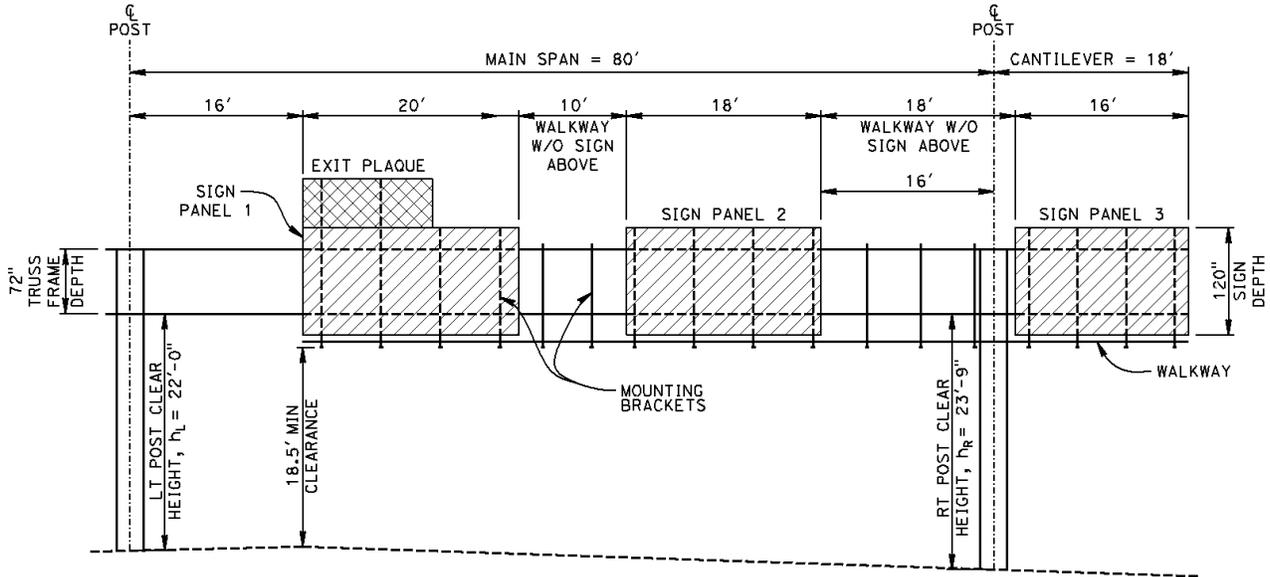


Figure 1: Two Post Type Versatile Truss

Given:

Sign Panel 1:	120" Depth x 20' Length
Sign Panel 2:	120" Depth x 18' Length
Sign Panel 3:	120" Depth x 16' Length
Exit Plaque:	4'-6" Depth x 12' Length
Walkway Length:	82'
Truss Frame Depth:	72" Depth (determined based on sign depth)
Lt Post Clear Height, $h_L$ :	22'-0" (determined based on clearance requirements, finish grade elevations, and site topography)
Lt Post Type:	2F (determined based on sign depth, main span length, and post clear height)
Rt Post Clear Height, $h_R$ :	23'-9" (determined based on clearance requirements, finish grade elevations, and site topography)
Rt Post Type:	2F (determined based on sign depth, main span length, and post clear height)



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Solution:

(1) Determine the Truss Quantity.	<i>Using Table 3B:</i>	<u>27,525 lbs</u>
(2) Determine the Post Quantity.	Lt Post ( <i>Using Table 4B</i> ):	<u>9,319 lbs</u>
	Rt Post ( <i>Using Table 4B</i> ):	<u>9,814 lbs</u>
(3) Determine the quantity for the walkway system (excluding the aluminum grating).	82' x 70 lbs/ft =	<u>5,740 lbs</u>
	<i>Length of Walkway</i>	
(4) Determine the quantity of mounting beams needed for signs.		
	[(10' x 20') + (10' x 18') + (10' x 16') + (4.5' x 12')] x 2.2 lbs/sq. ft. =	<u>1,307 lbs</u>
	<i>Sign Panel 1 Sign Panel 2 Sign Panel 3 Exit Plaque</i>	
(5) Determine the quantity of mounting beams for walkway where there is no sign panel above.		
	[ (10' + 18') x ( 6' /2 + 10' /2 + 1.1' ) ] x 2.2 lbs/sq. ft. =	<u>561 lbs</u>
	<i>Length of Walkway w/o sign above Frame Depth Sign Depth</i>	
(6) Determine the quantity of connection assemblies for mounting beams.		
	( 20' + 18' + 16' + 12' + 28' ) x 2.1 lbs/ft. =	<u>197 lbs</u>
	<i>Sign Panel 1 Sign Panel 2 Sign Panel 3 Exit Plaque Length of Walkway w/o sign above</i>	
(7) Add up the quantities above for items 1 through 6.	Subtotal =	<u>54,463 lbs</u>
(8) Determine increase due to galvanizing.	3.5% x Subtotal =	<u>1,906 lbs</u>
(9) Versatile Truss Total Quantity.	TOTAL =	<u>56,369 lbs</u>