



**Allowable Roof Construction Load ( $C_D = 1.25$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

3-1/8-INCH WIDTH		SPAN (ft)																				
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
6	533	295	169	105	69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	834	531	333	208	137	95	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	1202	767	530	362	240	167	120	88	66	51	---	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1637	1045	723	529	385	268	193	143	108	84	65	52	---	---	---	---	---	---	---	---	---	---
12	2139	1366	946	692	528	402	291	216	164	127	100	80	64	52	---	---	---	---	---	---	---	---
13-1/2	2709	1730	1198	878	670	527	417	311	237	184	145	116	94	77	63	52	---	---	---	---	---	---
15	3346	2137	1481	1085	828	652	526	429	328	255	202	162	132	108	89	74	62	52	---	---	---	---
16-1/2	4049	2587	1793	1314	1003	790	637	525	439	342	272	219	178	146	121	101	85	72	61	52	---	---
18	4820	3080	2135	1565	1195	941	760	626	521	438	355	286	234	192	160	134	113	96	81	70	60	---
19-1/2	5651	3616	2507	1838	1403	1106	893	733	608	511	436	367	299	247	206	173	146	124	106	91	78	---
21	6425	4195	2908	2132	1629	1284	1035	844	701	590	503	433	376	311	260	218	185	158	135	116	100	---
22-1/2	7290	4817	3340	2449	1871	1475	1181	964	800	674	574	494	429	376	322	271	230	196	169	145	126	---
24	8263	5482	3801	2788	2130	1672	1336	1091	905	763	650	560	487	426	376	332	282	241	207	179	155	---
25-1/2	9366	6102	4292	3148	2406	1877	1501	1225	1017	857	730	629	547	479	423	375	335	291	251	217	189	---
27	10627	6755	4813	3531	2687	2093	1674	1366	1135	956	815	703	611	535	473	420	375	336	300	260	227	---

3-1/2-INCH WIDTH		SPAN (ft)																				
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
6	596	331	189	117	77	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	934	595	373	233	154	106	76	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	1346	859	594	406	269	187	134	99	74	57	---	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1833	1170	810	593	431	300	216	160	121	94	73	58	---	---	---	---	---	---	---	---	---	---
12	2396	1530	1059	776	591	451	326	242	184	143	112	89	72	58	---	---	---	---	---	---	---	---
13-1/2	3034	1938	1342	983	750	590	467	348	265	206	163	130	105	86	71	58	---	---	---	---	---	---
15	3747	2393	1658	1215	927	730	589	480	367	286	226	182	147	121	100	83	69	58	---	---	---	---
16-1/2	4535	2898	2008	1471	1123	885	714	588	488	384	304	245	199	164	136	113	95	80	68	58	---	---
18	5399	3450	2391	1753	1338	1054	851	696	577	485	398	321	262	216	179	150	126	107	91	78	67	---
19-1/2	6329	4050	2807	2058	1572	1239	994	811	673	566	482	411	335	277	231	194	164	139	119	102	88	---
21	7196	4698	3257	2388	1824	1434	1146	935	776	653	556	479	416	349	291	245	207	177	151	130	112	---
22-1/2	8165	5395	3741	2743	2096	1636	1308	1067	886	746	635	547	475	416	361	304	258	220	189	163	141	---
24	9255	6140	4257	3122	2376	1851	1480	1208	1002	844	720	620	539	472	416	369	316	270	232	201	174	---
25-1/2	10490	6834	4808	3526	2668	2078	1661	1356	1126	948	809	697	606	531	468	416	371	326	281	243	212	---
27	11902	7566	5391	3945	2975	2318	1853	1513	1256	1058	903	778	676	593	523	464	415	372	335	292	254	---

Port Orford Cedar  
Non-Snow Roof Loads





**Allowable Roof Construction Load ( $C_D = 1.25$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

5-1/8-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	3508	2240	1551	1136	866	660	477	355	270	209	164	131	105	85	69	57	---	---	---	---	---
13-1/2	4443	2837	1965	1439	1098	864	684	509	389	302	238	191	154	126	103	85	71	59	---	---	---
15	5487	3505	2428	1779	1358	1061	847	690	537	419	332	266	216	177	146	121	101	85	72	60	51
16-1/2	6641	4243	2940	2155	1637	1274	1017	829	687	562	446	358	292	240	199	166	139	118	100	85	72
18	7905	5051	3501	2566	1933	1505	1202	980	812	683	581	470	383	316	262	220	185	157	134	114	98
19-1/2	9268	5930	4111	2990	2253	1754	1401	1142	947	797	679	584	491	405	338	284	240	204	174	149	128
21	10537	6880	4770	3443	2595	2021	1614	1317	1092	919	783	674	585	511	426	358	303	259	221	191	165
22-1/2	11955	7900	5439	3927	2960	2305	1842	1503	1247	1050	895	770	669	586	516	445	377	322	277	239	207
24	13551	8990	6151	4442	3348	2608	2084	1701	1412	1189	1013	872	758	664	585	519	462	395	340	294	255
25-1/2	15360	10007	6904	4986	3759	2928	2341	1910	1586	1336	1139	981	852	747	659	585	522	468	412	356	310
27	17428	11078	7697	5559	4192	3266	2611	2131	1770	1491	1271	1095	952	834	736	653	583	523	471	426	372
28-1/2	19814	12252	8532	6163	4647	3621	2895	2364	1963	1654	1410	1215	1057	926	817	726	648	582	524	474	431
30	21984	13544	9407	6795	5124	3993	3193	2607	2166	1825	1556	1341	1167	1023	903	802	716	643	580	525	476
31-1/2	24239	14972	10323	7457	5624	4383	3505	2862	2378	2004	1709	1473	1282	1124	992	882	788	707	638	577	525
33	26481	16558	11278	8148	6145	4790	3831	3129	2599	2191	1869	1611	1402	1229	1086	965	862	774	698	632	575

5-1/2-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	3765	2404	1665	1219	929	708	512	381	290	224	176	140	113	91	74	61	---	---	---	---	---
13-1/2	4768	3045	2109	1545	1178	924	734	547	417	324	256	205	165	135	111	92	76	63	53	---	---
15	5888	3761	2606	1909	1454	1131	902	735	577	449	356	286	232	190	157	130	109	91	77	65	55
16-1/2	7127	4553	3155	2312	1744	1357	1084	883	732	603	478	385	313	257	213	178	150	126	107	91	77
18	8484	5421	3757	2734	2060	1603	1280	1044	865	728	619	504	411	339	281	236	199	168	143	122	105
19-1/2	9946	6364	4412	3186	2400	1869	1492	1217	1009	849	723	622	527	435	362	304	257	219	187	160	138
21	11308	7383	5082	3669	2765	2153	1720	1403	1164	980	834	718	623	546	457	384	326	277	238	205	177
22-1/2	12830	8478	5796	4185	3154	2456	1963	1601	1329	1119	953	821	713	624	550	477	405	346	297	256	222
24	14543	9627	6554	4733	3568	2779	2221	1812	1504	1267	1079	929	808	707	624	553	493	424	365	315	273
25-1/2	16484	10739	7356	5313	4005	3120	2494	2035	1690	1423	1213	1045	908	795	702	623	556	498	442	382	332
27	18703	11889	8202	5924	4467	3480	2782	2271	1886	1588	1354	1167	1014	889	784	696	621	557	502	454	399
28-1/2	21264	13149	9091	6567	4952	3858	3085	2518	2091	1762	1503	1295	1126	987	871	773	690	619	558	505	459
30	23541	14535	10024	7241	5460	4255	3403	2778	2307	1944	1658	1429	1243	1090	962	854	763	685	617	559	507
31-1/2	25830	16067	11000	7946	5993	4670	3735	3050	2533	2135	1821	1570	1366	1197	1057	939	839	753	679	615	559
33	28219	17645	12018	8682	6548	5104	4082	3334	2769	2334	1991	1717	1494	1310	1157	1028	918	825	744	674	612



**Allowable Roof Construction Load ( $C_D = 1.25$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

6-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
18	6653	4555	3287	2476	1927	1539	1254	1040	874	744	618	504	416	345	289	244	207	176	150	129	110
19-1/2	7796	5306	3830	2885	2246	1794	1463	1213	1020	869	747	647	534	445	373	316	268	229	197	169	146
21	8977	6110	4411	3324	2588	2068	1686	1399	1177	1002	863	749	655	561	472	400	341	292	251	217	188
22-1/2	10237	6969	5031	3792	2953	2359	1925	1597	1344	1145	986	856	749	660	586	497	424	364	314	272	236
24	11574	7880	5690	4289	3341	2670	2178	1808	1522	1297	1117	970	850	749	664	593	520	447	387	336	292
25-1/2	12990	8844	6387	4815	3751	2998	2447	2031	1710	1458	1255	1091	956	843	748	667	598	539	469	408	356
27	14482	9861	7122	5370	4183	3344	2730	2266	1909	1627	1402	1219	1068	942	836	746	669	603	545	490	428
28-1/2	16051	10931	7895	5953	4638	3708	3027	2514	2118	1806	1556	1353	1185	1046	929	829	744	670	606	551	501
30	17697	12052	8705	6565	5115	4090	3339	2773	2337	1993	1717	1494	1309	1155	1026	916	822	741	671	609	555
31-1/2	19418	13225	9553	7205	5615	4490	3666	3045	2566	2189	1887	1641	1439	1270	1128	1008	905	816	738	671	611
33	21215	14449	10438	7873	6136	4907	4007	3329	2805	2393	2063	1795	1574	1390	1235	1103	990	893	809	735	670
34-1/2	23087	15725	11361	8569	6679	5342	4363	3625	3055	2607	2247	1955	1715	1514	1346	1203	1080	974	882	802	732
36	25034	17052	12320	9293	7244	5794	4732	3932	3315	2828	2439	2122	1862	1644	1461	1306	1173	1059	959	872	795
37-1/2	27055	18429	13316	10045	7830	6264	5116	4252	3584	3059	2638	2296	2014	1779	1582	1414	1270	1146	1039	945	862
39	29150	19857	14348	10824	8438	6750	5514	4583	3864	3298	2844	2476	2172	1919	1706	1526	1371	1237	1121	1020	931

8-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
24	9952	7186	5416	4218	3371	2750	2282	1921	1637	1409	1224	1072	945	838	747	669	580	501	435	379	331
25-1/2	11170	8066	6080	4736	3785	3089	2564	2159	1840	1584	1377	1206	1063	943	841	754	679	608	529	462	404
27	12454	8994	6781	5282	4222	3446	2861	2409	2054	1769	1538	1347	1188	1054	941	844	760	687	623	555	487
28-1/2	13805	9970	7517	5857	4682	3822	3174	2673	2279	1964	1707	1496	1320	1172	1046	938	845	764	694	632	577
30	15221	10994	8290	6459	5165	4216	3501	2950	2516	2168	1885	1652	1458	1294	1156	1037	935	846	768	700	639
31-1/2	16702	12065	9098	7090	5669	4629	3845	3239	2763	2381	2071	1815	1602	1423	1271	1141	1028	931	845	770	704
33	18249	13183	9942	7748	6196	5060	4203	3542	3021	2604	2265	1986	1753	1558	1392	1249	1126	1020	927	845	772
34-1/2	19860	14348	10821	8434	6745	5508	4576	3857	3290	2837	2468	2164	1911	1698	1517	1362	1229	1113	1011	922	843
36	21536	15559	11736	9147	7316	5975	4965	4185	3571	3079	2679	2349	2075	1844	1648	1480	1335	1209	1099	1003	917
37-1/2	23276	16817	12685	9888	7909	6460	5368	4525	3862	3330	2898	2542	2245	1996	1784	1602	1446	1310	1191	1087	994
39	25079	18121	13669	10656	8524	6963	5786	4878	4163	3591	3125	2741	2422	2153	1925	1729	1561	1414	1286	1174	1074
40-1/2	26947	19471	14689	11451	9161	7484	6219	5244	4476	3860	3360	2948	2605	2316	2071	1861	1680	1522	1385	1264	1157
42	28877	20867	15742	12273	9819	8022	6667	5622	4799	4140	3604	3162	2794	2485	2222	1997	1803	1634	1487	1357	1243
43-1/2	30871	22308	16831	13122	10499	8578	7130	6013	5133	4428	3855	3383	2990	2659	2378	2138	1930	1750	1592	1454	1332
45	32928	23796	17954	13998	11201	9152	7607	6416	5477	4726	4114	3611	3192	2839	2539	2283	2061	1869	1701	1553	1423

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
- (4) Service condition = Dry
- (5) Tabulated values represent total loads and have taken the beam weight (assumed 35 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.



**Allowable Roof Snow Load ( $C_D = 1.15$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

3-1/8-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
6	490	295	169	105	69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	766	488	333	208	137	95	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	1105	705	487	356	240	167	120	88	66	51	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1505	961	665	486	370	268	193	143	108	84	65	52	---	---	---	---	---	---	---	---	---
12	1967	1256	869	636	485	381	291	216	164	127	100	80	64	52	---	---	---	---	---	---	---
13-1/2	2491	1591	1102	807	615	484	390	311	237	184	145	116	94	77	63	52	---	---	---	---	---
15	3077	1965	1361	997	761	599	483	397	328	255	202	162	132	108	89	74	62	52	---	---	---
16-1/2	3724	2379	1648	1208	922	726	585	482	403	340	272	219	178	146	121	101	85	72	61	52	---
18	4434	2833	1963	1438	1098	865	698	574	478	402	342	286	234	192	160	134	113	96	81	70	60
19-1/2	5198	3326	2305	1689	1290	1016	820	673	558	469	400	344	298	247	206	173	146	124	106	91	78
21	5910	3858	2674	1961	1497	1180	951	776	643	541	461	397	344	301	260	218	185	158	135	116	100
22-1/2	6705	4430	3071	2252	1720	1356	1085	885	735	618	527	453	394	345	304	269	230	196	169	145	126
24	7601	5042	3496	2563	1958	1537	1228	1002	832	700	597	514	446	391	344	306	272	241	207	179	155
25-1/2	8615	5612	3947	2895	2212	1725	1379	1125	934	787	670	577	502	439	388	344	307	275	248	217	189
27	9775	6213	4427	3247	2470	1924	1538	1256	1042	878	748	645	560	491	433	384	343	308	277	251	227

3-1/2-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
6	548	331	189	117	77	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	858	547	373	233	154	106	76	55	---	---	---	---	---	---	---	---	---	---	---	---	---
9	1238	789	546	399	269	187	134	99	74	57	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1686	1076	744	545	415	300	216	160	121	94	73	58	---	---	---	---	---	---	---	---	---
12	2204	1407	974	713	543	427	326	242	184	143	112	89	72	58	---	---	---	---	---	---	---
13-1/2	2790	1782	1234	903	689	542	437	348	265	206	163	130	105	86	71	58	---	---	---	---	---
15	3446	2201	1525	1117	852	670	541	445	367	286	226	182	147	121	100	83	69	58	---	---	---
16-1/2	4171	2665	1846	1353	1032	813	656	539	448	376	304	245	199	164	136	113	95	80	68	58	---
18	4966	3172	2198	1611	1230	969	782	639	529	445	379	321	262	216	179	150	126	107	91	78	67
19-1/2	5822	3725	2581	1892	1445	1138	914	745	618	520	442	380	330	277	231	194	164	139	119	102	88
21	6619	4321	2995	2196	1677	1318	1053	859	712	599	510	439	381	334	291	245	207	177	151	130	112
22-1/2	7510	4962	3440	2522	1927	1504	1202	980	813	685	583	502	436	381	336	298	258	220	189	163	141
24	8513	5647	3915	2871	2185	1701	1360	1109	921	775	660	569	494	432	381	338	301	270	232	201	174
25-1/2	9649	6285	4421	3242	2452	1910	1527	1246	1034	871	742	639	555	486	429	381	340	304	274	243	212
27	10948	6959	4958	3628	2735	2131	1703	1390	1154	972	829	714	620	543	479	425	380	340	307	277	252

Port Orford Cedar  
Snow Roof Loads





**Allowable Roof Snow Load ( $C_D = 1.15$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

5-1/8-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	3227	2060	1426	1044	795	625	477	355	270	209	164	131	105	85	69	57	---	---	---	---	---
13-1/2	4086	2609	1807	1323	1009	794	635	509	389	302	238	191	154	126	103	85	71	59	---	---	---
15	5046	3223	2232	1635	1248	975	778	633	524	419	332	266	216	177	146	121	101	85	72	60	51
16-1/2	6108	3902	2703	1981	1504	1170	934	761	630	530	446	358	292	240	199	166	139	118	100	85	72
18	7271	4645	3219	2359	1777	1383	1104	899	745	627	533	458	383	316	262	220	185	157	134	114	98
19-1/2	8525	5454	3780	2748	2070	1611	1287	1049	870	731	622	535	464	405	338	284	240	204	174	149	128
21	9692	6327	4386	3166	2385	1857	1483	1209	1003	844	718	618	536	469	413	358	303	259	221	191	165
22-1/2	10997	7265	5002	3611	2721	2119	1693	1381	1145	964	821	706	613	537	473	419	373	322	277	239	207
24	12465	8269	5656	4084	3078	2397	1915	1562	1296	1091	930	800	695	608	536	475	424	380	340	294	255
25-1/2	14129	9203	6349	4584	3456	2691	2151	1755	1457	1226	1045	900	782	684	603	535	477	428	385	348	310
27	16031	10189	7079	5112	3854	3002	2399	1958	1625	1369	1167	1005	873	765	674	598	534	479	431	390	353
28-1/2	18226	11269	7847	5667	4272	3328	2661	2172	1803	1519	1295	1115	969	849	749	665	593	532	479	433	393
30	20222	12457	8651	6249	4712	3671	2935	2396	1989	1676	1429	1231	1070	938	828	735	656	588	530	480	435
31-1/2	22297	13771	9494	6857	5171	4029	3222	2630	2184	1840	1569	1352	1176	1031	910	808	721	647	583	528	479
33	24359	15230	10373	7493	5651	4403	3521	2875	2388	2012	1716	1479	1287	1128	996	884	790	709	639	578	526

5-1/2-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	3463	2210	1530	1120	854	671	512	381	290	224	176	140	113	91	74	61	---	---	---	---	---
13-1/2	4385	2800	1939	1420	1083	849	677	547	417	324	256	205	165	135	111	92	76	63	53	---	---
15	5415	3459	2396	1755	1336	1039	829	675	559	449	356	286	232	190	157	130	109	91	77	65	55
16-1/2	6555	4187	2901	2126	1603	1247	995	811	672	564	478	385	313	257	213	178	150	126	107	91	77
18	7803	4985	3455	2514	1893	1473	1176	958	794	668	568	488	411	339	281	236	199	168	143	122	105
19-1/2	9149	5853	4057	2929	2206	1717	1371	1118	927	779	663	570	495	432	362	304	257	219	187	160	138
21	10401	6790	4674	3373	2542	1979	1580	1288	1069	899	765	658	571	500	440	384	326	277	238	205	177
22-1/2	11801	7797	5330	3848	2900	2258	1803	1471	1220	1027	874	752	653	572	504	446	398	346	297	256	222
24	13377	8854	6027	4352	3280	2554	2041	1665	1381	1163	990	853	740	648	571	506	451	404	364	315	273
25-1/2	15163	9877	6765	4885	3682	2868	2292	1870	1552	1307	1113	959	833	729	643	570	508	456	410	370	332
27	17204	10935	7543	5447	4106	3199	2557	2086	1732	1458	1243	1070	930	815	718	637	569	510	459	415	376
28-1/2	19560	12094	8361	6038	4552	3547	2835	2314	1921	1618	1379	1188	1033	905	798	708	632	567	511	462	419
30	21655	13369	9219	6658	5020	3911	3127	2553	2120	1785	1522	1312	1140	999	882	783	699	627	565	511	464
31-1/2	23760	14778	10116	7307	5510	4293	3433	2802	2327	1961	1672	1441	1253	1098	969	861	768	690	621	562	511
33	25958	16230	11053	7984	6021	4692	3752	3063	2544	2144	1829	1576	1371	1202	1061	942	841	755	681	616	560



**Allowable Roof Snow Load ( $C_D = 1.15$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

6-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
18	6118	4188	3022	2276	1771	1413	1152	954	802	682	586	504	416	345	289	244	207	176	150	129	110
19-1/2	7170	4879	3521	2652	2064	1648	1343	1113	936	797	685	594	519	445	373	316	268	229	197	169	146
21	8256	5619	4055	3055	2378	1899	1549	1284	1080	920	791	686	600	528	468	400	341	292	251	217	188
22-1/2	9415	6408	4626	3486	2714	2168	1768	1466	1234	1051	904	785	687	605	536	477	424	364	314	272	236
24	10645	7246	5232	3943	3070	2453	2001	1660	1397	1190	1024	889	778	686	608	542	485	437	387	336	292
25-1/2	11947	8134	5873	4426	3447	2755	2247	1865	1570	1338	1152	1000	876	772	685	610	547	492	445	403	356
27	13320	9069	6549	4937	3845	3073	2508	2081	1753	1494	1286	1118	979	863	766	683	612	551	498	452	411
28-1/2	14764	10052	7260	5473	4263	3408	2781	2309	1944	1657	1428	1241	1087	959	851	759	681	613	554	503	458
30	16277	11084	8005	6035	4702	3759	3068	2548	2146	1829	1576	1370	1200	1059	940	839	753	678	613	557	507
31-1/2	17861	12163	8785	6624	5161	4127	3369	2797	2357	2010	1732	1505	1319	1164	1034	923	828	746	675	613	558
33	19513	13289	9599	7239	5640	4510	3682	3058	2577	2198	1894	1647	1444	1274	1132	1011	907	817	740	672	612
34-1/2	21235	14462	10447	7879	6140	4910	4009	3330	2806	2394	2063	1794	1573	1389	1234	1102	989	892	807	733	668
36	23026	15683	11329	8545	6659	5326	4349	3613	3045	2597	2239	1948	1708	1508	1340	1197	1075	969	878	797	727
37-1/2	24886	16950	12245	9236	7199	5758	4702	3907	3293	2809	2422	2107	1848	1632	1450	1296	1164	1050	951	864	788
39	26813	18264	13195	9953	7758	6205	5068	4211	3550	3029	2612	2273	1993	1761	1565	1398	1256	1133	1026	933	851

8-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
24	9152	6607	4979	3877	3097	2526	2096	1763	1502	1292	1122	982	865	767	683	612	550	496	435	379	331
25-1/2	10272	7416	5590	4353	3478	2837	2354	1982	1688	1453	1262	1105	974	863	770	689	620	560	508	461	404
27	11453	8270	6234	4855	3880	3166	2628	2212	1885	1623	1410	1235	1088	965	861	772	694	627	569	517	472
28-1/2	12696	9168	6911	5384	4303	3511	2915	2454	2092	1802	1566	1371	1209	1073	957	858	773	698	633	576	526
30	13998	10109	7622	5938	4746	3874	3216	2709	2309	1989	1729	1515	1336	1186	1058	949	855	773	701	638	583
31-1/2	15361	11094	8365	6517	5210	4253	3532	2975	2536	2185	1900	1665	1469	1304	1164	1044	941	851	772	703	643
33	16783	12123	9141	7123	5695	4649	3861	3253	2774	2390	2078	1822	1608	1428	1275	1144	1031	933	847	771	705
34-1/2	18265	13194	9950	7753	6200	5062	4204	3542	3021	2604	2265	1985	1752	1556	1390	1247	1124	1018	924	842	770
36	19807	14308	10791	8409	6725	5491	4561	3844	3279	2826	2458	2155	1903	1690	1510	1355	1222	1106	1005	916	838
37-1/2	21407	15465	11664	9091	7270	5937	4932	4157	3546	3057	2660	2332	2059	1830	1635	1468	1324	1199	1089	993	908
39	23066	16665	12569	9797	7836	6399	5317	4481	3824	3297	2868	2515	2222	1974	1764	1584	1429	1294	1177	1073	982
40-1/2	24784	17906	13507	10528	8421	6878	5715	4817	4111	3545	3084	2705	2390	2124	1898	1705	1538	1394	1267	1156	1058
42	26560	19190	14476	11284	9027	7373	6127	5165	4408	3801	3308	2902	2564	2279	2037	1830	1651	1496	1361	1242	1136
43-1/2	28394	20516	15477	12065	9652	7884	6552	5524	4715	4066	3539	3105	2743	2439	2180	1959	1768	1602	1457	1330	1218
45	30286	21884	16510	12871	10297	8412	6991	5895	5031	4340	3778	3315	2929	2604	2329	2092	1889	1712	1557	1422	1302

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
- (4) Service condition = Dry
- (5) Tabulated values represent total loads and have taken the beam weight (assumed 35 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.



**Allowable Floor Load ( $C_D = 1.0$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

3-1/8-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
6	362	183	104	64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	666	361	206	128	84	57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	960	612	359	224	148	102	72	53	---	---	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1308	834	574	358	237	164	118	86	65	---	---	---	---	---	---	---	---	---	---	---	---
12	1710	1091	755	538	357	248	178	132	99	76	59	---	---	---	---	---	---	---	---	---	---
13-1/2	2165	1382	957	700	511	356	257	190	144	111	87	69	55	---	---	---	---	---	---	---	---
15	2674	1707	1182	866	660	491	355	264	201	155	122	97	78	63	51	---	---	---	---	---	---
16-1/2	3237	2067	1432	1049	800	629	475	354	270	209	165	132	106	87	71	59	---	---	---	---	---
18	3854	2461	1705	1249	953	750	605	462	353	274	217	174	141	115	95	79	65	55	---	---	---
19-1/2	4518	2890	2002	1467	1120	882	711	583	451	351	278	224	182	149	123	102	86	72	61	51	---
21	5137	3353	2323	1703	1300	1024	825	672	557	441	350	282	229	189	156	131	110	93	78	67	57
22-1/2	5828	3850	2668	1956	1494	1176	942	768	637	535	433	349	285	234	195	163	137	116	99	84	72
24	6607	4382	3037	2227	1701	1334	1065	869	721	606	516	426	348	287	239	200	169	144	123	105	90
25-1/2	7489	4877	3430	2515	1921	1498	1197	976	810	682	580	500	420	347	289	243	206	175	150	129	111
27	8497	5400	3847	2821	2145	1671	1335	1089	904	761	648	558	485	414	346	291	246	210	180	155	134

3-1/2-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
6	405	205	116	71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7-1/2	746	404	231	143	94	64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	1075	685	403	251	165	114	81	59	---	---	---	---	---	---	---	---	---	---	---	---	---
10-1/2	1465	934	642	401	266	184	132	97	72	55	---	---	---	---	---	---	---	---	---	---	---
12	1915	1222	845	602	400	278	200	148	111	85	66	52	---	---	---	---	---	---	---	---	---
13-1/2	2425	1548	1071	784	573	399	288	213	162	125	97	77	62	---	---	---	---	---	---	---	---
15	2995	1912	1324	969	739	550	397	295	225	174	137	109	87	71	58	---	---	---	---	---	---
16-1/2	3625	2315	1603	1174	896	705	532	396	302	234	185	148	119	97	80	66	54	---	---	---	---
18	4316	2757	1910	1399	1068	840	678	517	395	307	243	195	158	129	106	88	73	61	51	---	---
19-1/2	5060	3237	2243	1643	1254	988	792	646	505	394	312	250	203	167	138	115	96	81	68	57	---
21	5753	3755	2602	1907	1456	1144	913	744	617	494	392	316	257	211	175	146	123	104	88	75	64
22-1/2	6528	4312	2989	2191	1673	1305	1042	850	705	593	485	391	319	263	218	183	154	130	111	95	81
24	7400	4908	3402	2494	1897	1477	1180	962	798	671	572	477	390	322	268	225	190	161	137	118	101
25-1/2	8388	5463	3842	2817	2130	1658	1325	1081	896	754	643	553	470	388	324	272	230	196	168	144	124
27	9517	6048	4308	3152	2375	1850	1478	1206	1001	842	718	618	536	464	387	326	276	235	202	174	150

Port Orford Cedar  
Floor Loads





**Allowable Floor Load ( $C_D = 1.0$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

5-1/8-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	2804	1789	1238	882	586	407	293	216	163	125	97	76	60	---	---	---	---	---	---	---	---
13-1/2	3551	2266	1569	1148	838	584	421	312	237	182	143	113	90	72	58	---	---	---	---	---	---
15	4386	2800	1939	1419	1082	805	582	433	329	255	200	159	128	104	84	69	56	---	---	---	---
16-1/2	5309	3390	2348	1720	1306	1015	779	580	442	343	271	216	175	142	117	96	79	66	55	---	---
18	6320	4037	2796	2048	1542	1199	957	757	578	450	356	285	231	189	156	129	107	90	75	63	53
19-1/2	7410	4739	3284	2387	1797	1398	1116	909	739	576	457	367	298	244	202	168	141	118	100	84	71
21	8424	5499	3810	2749	2071	1611	1286	1048	869	724	574	462	376	309	256	214	180	152	129	109	93
22-1/2	9559	6314	4346	3136	2363	1839	1468	1197	992	834	710	573	467	385	320	267	225	191	162	139	119
24	10835	7186	4915	3547	2673	2080	1662	1355	1123	945	805	692	571	471	392	329	278	236	201	172	148
25-1/2	12282	7999	5517	3982	3001	2336	1866	1522	1262	1062	905	778	676	569	474	398	337	287	245	211	182
27	13936	8856	6151	4441	3347	2606	2082	1698	1409	1186	1010	869	755	661	567	477	404	345	295	254	220
28-1/2	15844	9795	6818	4923	3710	2890	2309	1884	1563	1316	1121	965	838	734	647	565	479	409	351	303	262
30	17580	10828	7518	5429	4092	3187	2547	2078	1725	1452	1238	1066	926	811	715	634	563	481	414	358	310
31-1/2	19384	11969	8250	5958	4491	3499	2796	2282	1894	1595	1360	1171	1018	891	786	697	622	558	483	418	363
33	21177	13238	9014	6510	4908	3824	3057	2495	2071	1744	1487	1281	1113	975	860	764	681	611	550	484	421

5-1/2-INCH WIDTH		SPAN (ft)																			
Depth (in)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
12	3009	1920	1328	946	628	437	314	232	175	134	104	82	65	51	---	---	---	---	---	---	---
13-1/2	3810	2432	1684	1232	900	626	452	335	254	196	153	121	97	78	63	50	---	---	---	---	---
15	4707	3005	2081	1523	1159	864	624	464	353	273	215	171	137	111	90	74	61	---	---	---	---
16-1/2	5697	3638	2520	1845	1391	1081	836	622	474	368	291	232	187	153	125	103	85	71	59	---	---
18	6782	4332	3001	2183	1643	1278	1019	813	620	483	382	306	248	203	167	138	115	96	81	67	57
19-1/2	7952	5086	3524	2543	1915	1490	1189	968	793	618	490	393	320	262	217	180	151	127	107	90	76
21	9041	5901	4060	2930	2206	1717	1370	1117	926	777	616	496	404	332	275	230	193	163	138	117	100
22-1/2	10258	6776	4631	3342	2517	1959	1564	1275	1057	889	756	614	501	413	343	287	242	205	174	149	127
24	11628	7695	5237	3780	2848	2217	1770	1443	1197	1007	857	737	612	505	421	353	298	253	216	185	159
25-1/2	13181	8584	5878	4243	3197	2489	1988	1622	1345	1132	964	829	720	610	509	428	362	308	263	226	195
27	14955	9504	6555	4732	3566	2777	2218	1809	1501	1263	1076	926	804	704	608	512	434	370	317	273	236
28-1/2	17003	10511	7266	5246	3954	3079	2460	2007	1666	1402	1194	1028	893	782	689	606	515	439	377	325	282
30	18825	11620	8011	5785	4360	3396	2714	2214	1838	1547	1319	1135	986	864	761	675	602	517	444	384	333
31-1/2	20655	12845	8791	6348	4786	3728	2980	2431	2018	1700	1449	1247	1084	949	837	743	663	594	518	448	390
33	22566	14107	9606	6937	5230	4074	3257	2658	2207	1858	1584	1365	1186	1039	917	813	726	651	586	520	452



**Allowable Floor Load ( $C_D = 1.0$ ) for EWS 22F-V/POC1 and 22F-V/POC2 in Dry-Service Conditions (lb/ft)**

Fb = 2,200 psi, Fv = 265 psi, E = 1,800,000 psi

6-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
18	5316	3638	2624	1975	1536	1225	997	761	593	469	375	304	249	205	170	141	118	99	83	69	58
19-1/2	6230	4238	3057	2302	1790	1429	1164	964	759	601	483	392	322	266	221	185	156	131	111	94	79
21	7175	4881	3522	2652	2064	1647	1342	1112	935	757	609	495	407	338	282	237	200	169	144	123	104
22-1/2	8182	5567	4018	3026	2355	1880	1532	1270	1068	909	754	615	506	421	352	297	251	214	183	156	134
24	9252	6296	4544	3423	2665	2128	1735	1438	1210	1030	886	752	620	516	433	366	310	265	227	195	168
25-1/2	10383	7067	5101	3844	2992	2390	1949	1616	1360	1158	996	864	749	625	525	444	378	323	278	239	207
27	11577	7880	5689	4287	3338	2666	2175	1804	1518	1293	1113	966	845	745	628	532	454	389	335	289	251
28-1/2	12832	8735	6307	4753	3701	2957	2412	2002	1685	1435	1235	1073	939	827	734	631	539	463	399	346	300
30	14148	9632	6954	5242	4082	3262	2662	2209	1860	1584	1364	1185	1037	915	811	723	634	545	471	409	356
31-1/2	15524	10569	7632	5753	4481	3582	2922	2426	2042	1741	1499	1302	1141	1006	892	796	713	636	550	478	417
33	16961	11549	8340	6287	4898	3915	3195	2652	2234	1904	1640	1425	1248	1101	977	872	781	704	636	555	485
34-1/2	18458	12569	9077	6844	5332	4262	3479	2888	2433	2074	1787	1553	1361	1200	1065	951	853	768	695	630	559
36	20015	13629	9844	7422	5783	4623	3774	3134	2640	2251	1939	1686	1477	1304	1157	1033	927	835	755	686	625
37-1/2	21632	14731	10640	8023	6252	4999	4081	3389	2855	2435	2098	1824	1599	1411	1253	1119	1004	905	819	743	677
39	23307	15873	11466	8646	6738	5388	4399	3653	3078	2625	2263	1968	1725	1523	1352	1208	1084	977	884	803	732

8-3/4-INCH WIDTH		SPAN (ft)																			
Depth (in)	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
24	7951	5738	4323	3364	2686	2190	1816	1527	1299	1117	969	804	669	561	474	402	343	294	253	218	188
25-1/2	8925	6442	4853	3778	3017	2460	2040	1716	1461	1257	1091	954	810	680	575	490	419	360	310	268	232
27	9952	7184	5413	4214	3367	2745	2277	1916	1632	1404	1219	1066	939	814	690	588	504	434	375	325	283
28-1/2	11032	7964	6002	4673	3734	3045	2527	2126	1811	1559	1354	1184	1044	925	819	699	600	517	448	390	340
30	12164	8782	6619	5155	4119	3360	2788	2347	2000	1721	1495	1309	1153	1023	912	817	707	610	530	461	403
31-1/2	13348	9639	7265	5659	4522	3690	3062	2578	2197	1892	1643	1439	1269	1125	1003	899	809	713	620	541	473
33	14585	10532	7940	6184	4943	4034	3348	2819	2403	2069	1798	1575	1389	1232	1099	985	887	802	720	629	551
34-1/2	15873	11463	8642	6732	5382	4392	3646	3071	2618	2255	1960	1717	1514	1344	1199	1075	968	875	794	723	636
36	17213	12432	9373	7302	5838	4765	3956	3332	2841	2448	2128	1864	1645	1460	1303	1169	1053	952	864	787	719
37-1/2	18604	13437	10132	7894	6312	5152	4279	3604	3073	2648	2302	2017	1780	1581	1411	1266	1141	1032	937	853	780
39	20047	14480	10919	8508	6803	5554	4612	3886	3314	2856	2483	2177	1921	1706	1523	1367	1232	1115	1012	922	843
40-1/2	21540	15559	11734	9144	7312	5970	4958	4178	3563	3071	2671	2341	2067	1836	1639	1471	1326	1201	1091	994	908
42	23084	16676	12576	9801	7838	6400	5316	4480	3821	3294	2865	2512	2218	1970	1760	1580	1424	1289	1172	1068	976
43-1/2	24679	17828	13446	10479	8381	6844	5686	4792	4088	3524	3065	2688	2373	2109	1884	1692	1525	1381	1255	1145	1047
45	26324	19017	14344	11180	8942	7302	6067	5113	4363	3761	3272	2870	2534	2252	2012	1807	1630	1476	1342	1224	1119

Notes:

- (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
- (2) Span = simply supported beam.
- (3) Maximum deflection = L/360 under live load. Where additional stiffness is desired or for other live/total load ratios, design for deflection must be modified per requirements.
- (4) Service condition = Dry
- (5) Tabulated values represent total loads based on live/total load = 0.8 and have taken the beam weight (assumed 35 pcf) into account.
- (6) Sufficient bearing length shall be provided at supports
- (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.