

SC901 & SC902

LOADING TABLES

SC901 & SC902
Material Specification
Specific Gravity: 1.46
Volume Solids: 85% ± 3%



30 Minute Fire Protection

Hp/A	3 Sided Beam I Section			4 Sided Beam I Section			4 Sided Column I Section			CHS No Mesh			RHS Mesh		
	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²
40	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
45	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
50	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
55	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
60	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
65	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
70	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
75	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
80	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
85	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
90	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
95	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
100	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
105	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
110	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
115	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
120	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	3.186	2.709	4654
125	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.515	0.438	753	3.186	2.709	4654
130	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.549	0.467	802	3.186	2.709	4654
135	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.582	0.495	850	3.186	2.709	4654
140	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.615	0.523	899	3.186	2.709	4654
145	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.649	0.552	948	3.186	2.709	4654
150	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.682	0.580	996	3.186	2.709	4654
155	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.715	0.608	1045	3.186	2.709	4654
160	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.749	0.637	1094	3.186	2.709	4654
165	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.782	0.665	1143	3.186	2.709	4654
170	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.815	0.693	1191	3.186	2.709	4654
175	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.849	0.722	1240	3.186	2.709	4654
180	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.882	0.750	1289	3.186	2.709	4654
185	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.915	0.778	1337	3.186	2.709	4654
190	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.949	0.807	1386	3.186	2.709	4654
195	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.982	0.835	1435	3.186	2.709	4654
200	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.015	0.864	1484	3.186	2.709	4654
205	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.049	0.892	1532	3.186	2.709	4654
210	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.082	0.920	1581	3.186	2.709	4654
215	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.116	0.949	1630	3.186	2.709	4654
220	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.149	0.977	1678	3.186	2.709	4654
225	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.182	1.005	1727	3.186	2.709	4654
230	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.216	1.034	1776	3.186	2.709	4654
235	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.249	1.062	1824	3.186	2.709	4654
240	0.541	0.460	790	0.551	0.469	805	0.551	0.469	805	1.282	1.090	1873	3.186	2.709	4654
245	0.541	0.460	790	0.566	0.481	827	0.566	0.481	827	1.316	1.119	1922	3.186	2.709	4654
250	0.541	0.460	790	0.581	0.494	849	0.581	0.494	849	1.349	1.147	1971	3.186	2.709	4654
255	0.541	0.460	790	0.596	0.507	871	0.596	0.507	871	1.382	1.175	2019	3.186	2.709	4654
260	0.541	0.460	790	0.612	0.520	893	0.612	0.520	893	1.416	1.204	2068			
265	0.541	0.460	790	0.627	0.533	915	0.627	0.533	915	1.449	1.232	2117			
270	0.541	0.460	790	0.642	0.546	938	0.642	0.546	938	1.504	1.279	2197			
275	0.541	0.460	790	0.657	0.559	960	0.657	0.559	960	1.595	1.357	2331			
280	0.541	0.460	790	0.672	0.571	982	0.672	0.571	982	1.687	1.434	2464			
285	0.541	0.460	790	0.687	0.584	1004	0.687	0.584	1004	1.779	1.512	2598			
290	0.541	0.460	790	0.702	0.597	1026	0.702	0.597	1026	1.870	1.590	2732			
295	0.541	0.460	790	0.717	0.610	1048	0.717	0.610	1048	1.962	1.668	2866			
300	0.541	0.460	790	0.732	0.623	1070	0.732	0.623	1070	2.053	1.746	3000			
305	0.541	0.460	790	0.748	0.636	1092	0.748	0.636	1092	2.145	1.824	3134			
310	0.541	0.460	790	0.763	0.649	1114	0.763	0.649	1114	2.237	1.902	3267			
315	0.541	0.460	790	0.778	0.661	1136	0.778	0.661	1136	2.328	1.980	3401			
320	0.541	0.460	790	0.793	0.674	1158	0.793	0.674	1158	2.386	2.029	3486			
325	0.541	0.460	790	0.808	0.687	1181	0.808	0.687	1181	2.432	2.068	3553			
330	0.541	0.460	790	0.823	0.700	1203	0.823	0.700	1203	2.479	2.108	3621			
335	0.541	0.460	790	0.838	0.713	1225	0.838	0.713	1225	2.525	2.147	3688			
340	0.541	0.460	790	0.853	0.726	1247	0.853	0.726	1247	2.571	2.186	3756			
345	0.541	0.460	790	0.869	0.739	1269	0.869	0.739	1269	2.617	2.225	3823			
350	0.541	0.460	790	0.884	0.751	1291	0.884	0.751	1291	2.663	2.265	3891			
355	0.541	0.460	790	0.899	0.764	1313	0.899	0.764	1313	2.709	2.304	3958			

CHS range up to 405 m-1
Ask Technical Support

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Material Specification
Specific Gravity: 1.46
Volume Solids: 85% ± 3%



60 Minute Fire Protection

Hp/A	3 Sided Beam I Section			4 Sided Beam I Section			4 Sided Column I Section			CHS No Mesh			RHS Mesh		
	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²
40	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	1.880	1.598	2746	3.186	2.709	4654
45	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	1.931	1.642	2821	3.186	2.709	4654
50	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	1.983	1.686	2897	3.186	2.709	4654
55	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	2.035	1.730	2973	3.186	2.709	4654
60	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	2.087	1.774	3048	3.186	2.709	4654
65	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	2.138	1.818	3124	3.186	2.709	4654
70	0.541	0.460	790	0.762	0.648	1113	0.762	0.648	1113	2.190	1.862	3200	3.186	2.709	4654
75	0.553	0.470	807	0.762	0.648	1113	0.762	0.648	1113	2.242	1.906	3275	3.186	2.709	4654
80	0.573	0.487	837	0.779	0.663	1138	0.779	0.663	1138	2.294	1.951	3351	3.186	2.709	4654
85	0.592	0.503	864	0.800	0.681	1169	0.800	0.681	1169	2.346	1.995	3427	3.186	2.709	4654
90	0.612	0.520	893	0.821	0.699	1200	0.821	0.699	1200	2.397	2.039	3502	3.186	2.709	4654
95	0.632	0.537	923	0.843	0.716	1231	0.843	0.716	1231	2.449	2.083	3578	3.186	2.709	4654
100	0.650	0.553	950	0.864	0.734	1262	0.864	0.734	1262	2.501	2.127	3654	3.186	2.709	4654
105	0.670	0.570	979	0.885	0.752	1292	0.885	0.752	1292	2.553	2.171	3729	3.186	2.709	4654
110	0.690	0.587	1008	0.906	0.770	1323	0.906	0.770	1323	2.605	2.215	3805	3.186	2.709	4654
115	0.709	0.603	1036	0.927	0.788	1354	0.927	0.788	1354	2.656	2.259	3881	3.186	2.709	4654
120	0.729	0.620	1065	0.948	0.806	1385	0.948	0.806	1385	2.708	2.303	3956	3.186	2.709	4654
125	0.749	0.637	1094	0.969	0.824	1415	0.969	0.824	1415	2.760	2.347	4032	3.186	2.709	4654
130	0.768	0.653	1122	0.990	0.842	1446	0.990	0.842	1446	2.812	2.391	4108	3.186	2.709	4654
135	0.788	0.670	1151	1.011	0.860	1477	1.011	0.860	1477	2.863	2.435	4183	3.186	2.709	4654
140	0.808	0.687	1180	1.032	0.878	1508	1.032	0.878	1508	2.915	2.479	4259	3.186	2.709	4654
145	0.827	0.703	1208	1.053	0.896	1539	1.053	0.896	1539	2.967	2.523	4334	3.186	2.709	4654
150	0.847	0.720	1237	1.074	0.913	1569	1.074	0.913	1569	3.019	2.567	4410	3.192	2.714	4663
155	0.867	0.737	1266	1.095	0.931	1600	1.095	0.931	1600	3.071	2.611	4486	3.349	2.848	4892
160	0.886	0.753	1294	1.116	0.949	1631	1.116	0.949	1631	3.122	2.655	4561	3.506	2.981	5122
165	0.906	0.770	1323	1.138	0.967	1662	1.138	0.967	1662	3.174	2.699	4637	3.663	3.115	5351
170	0.926	0.787	1352	1.160	0.986	1694	1.160	0.986	1694	3.226	2.743	4713	3.820	3.248	5580
175	0.944	0.803	1380	1.182	1.005	1726	1.182	1.005	1726	3.278	2.787	4788	3.977	3.382	5809
180	0.964	0.820	1409	1.204	1.023	1758	1.204	1.023	1758	3.330	2.831	4864	4.134	3.515	6039
185	0.984	0.837	1438	1.226	1.042	1790	1.226	1.042	1790	3.381	2.875	4940	4.291	3.648	6268
190	1.003	0.853	1465	1.248	1.061	1822	1.248	1.061	1822	3.433	2.919	5015	4.448	3.782	6497
195	1.023	0.870	1495	1.269	1.079	1855	1.269	1.079	1855	3.485	2.963	5091	4.605	3.915	6727
200	1.043	0.887	1524	1.291	1.098	1887	1.291	1.098	1887	3.537	3.007	5167	4.763	4.050	6958
205	1.062	0.903	1551	1.313	1.117	1919	1.313	1.117	1919	3.588	3.051	5242	4.922	4.185	7190
210	1.082	0.920	1581	1.335	1.135	1951	1.335	1.135	1951	3.640	3.095	5318	5.081	4.321	7423
215	1.102	0.937	1610	1.357	1.154	1983	1.357	1.154	1983	3.692	3.140	5394	5.240	4.456	7655
220	1.121	0.953	1637	1.379	1.173	2015	1.379	1.173	2015	3.744	3.184	5469	5.399	4.591	7888
225	1.141	0.970	1666	1.401	1.191	2047	1.401	1.191	2047	3.796	3.228	5545	5.558	4.726	8120
230	1.161	0.987	1696	1.423	1.210	2079	1.423	1.210	2079	3.847	3.272	5621	5.717	4.862	8352
235	1.180	1.003	1723	1.445	1.229	2111	1.445	1.229	2111	3.899	3.316	5696	5.876	4.997	8585
240	1.200	1.020	1752	1.482	1.260	2165	1.482	1.260	2165	3.951	3.360	5772	5.957	5.066	8703
245	1.220	1.037	1782	1.541	1.310	2251	1.541	1.310	2251	4.003	3.404	5848	6.013	5.113	8785
250	1.238	1.053	1809	1.599	1.360	2336	1.599	1.360	2336	4.055	3.448	5923	6.069	5.161	8867
255	1.258	1.070	1838	1.658	1.410	2422	1.658	1.410	2422	4.106	3.492	5999	6.125	5.208	8948
260	1.278	1.087	1867	1.717	1.460	2508	1.717	1.460	2508	4.158	3.536	6075			
265	1.297	1.103	1895	1.776	1.510	2594	1.776	1.510	2594	4.210	3.580	6150			
270	1.317	1.120	1924	1.835	1.560	2680	1.835	1.560	2680	4.262	3.624	6226			
275	1.337	1.137	1953	1.893	1.610	2766	1.893	1.610	2766	4.314	3.668	6302			
280	1.356	1.153	1981	1.952	1.660	2852	1.952	1.660	2852	4.365	3.712	6377			
285	1.376	1.170	2010	2.011	1.710	2938	2.011	1.710	2938	4.417	3.756	6453			
290	1.396	1.187	2039	2.070	1.760	3024	2.070	1.760	3024	4.469	3.800	6528			
295	1.415	1.203	2067	2.129	1.810	3110	2.129	1.810	3110	4.521	3.844	6604			
300	1.435	1.220	2096	2.187	1.860	3195	2.187	1.860	3195	4.572	3.888	6680			
305	1.455	1.237	2125	2.246	1.910	3281	2.246	1.910	3281	4.624	3.932	6755			
310	1.506	1.281	2201	2.305	1.960	3367	2.305	1.960	3367	4.676	3.976	6831			
315	1.566	1.332	2288	2.364	2.010	3453	2.364	2.010	3453	4.728	4.020	6907			
320	1.628	1.384	2378	2.422	2.059	3538	2.422	2.059	3538						
325	1.688	1.435	2465	2.480	2.109	3623	2.480	2.109	3623						
330	1.748	1.486	2553	2.538	2.158	3707	2.538	2.158	3707						
335	1.809	1.538	2642	2.596	2.207	3792	2.596	2.207	3792						
340	1.869	1.589	2730	2.654	2.257	3877	2.654	2.257	3877						
345	1.930	1.641	2819	2.712	2.306	3962	2.712	2.306	3962						
350	1.990	1.692	2907	2.770	2.355	4047	2.770	2.355	4047						
355	2.050	1.743	2994	2.828	2.405	4131	2.828	2.405	4131						

14/08/2014 - revision 3

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Material Specification
Specific Gravity: 1.46
Volume Solids: 85% ± 3%



90 Minute Fire Protection

Hp/A	3 Sided Beam I Section			4 Sided Beam I Section			4 Sided Column I Section			CHS Mesh			RHS Mesh		
	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²
40	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
45	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
50	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
55	0.803	0.683	1173	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
60	0.868	0.738	1268	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
65	0.934	0.794	1364	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
70	1.000	0.850	1460	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
75	1.065	0.906	1557	1.259	1.071	1840	1.259	1.071	1840	3.572	3.037	5218	3.186	2.709	4654
80	1.130	0.961	1651	1.259	1.071	1840	1.259	1.071	1840	3.672	3.123	5365	3.214	2.733	4696
85	1.196	1.017	1747	1.259	1.071	1840	1.259	1.071	1840	3.825	3.252	5587	3.438	2.924	5023
90	1.262	1.073	1843	1.311	1.115	1916	1.311	1.115	1916	3.977	3.382	5810	3.662	3.114	5350
95	1.328	1.129	1940	1.385	1.178	2023	1.385	1.178	2023	4.130	3.512	6033	3.886	3.305	5677
100	1.392	1.184	2034	1.458	1.240	2130	1.458	1.240	2130	4.282	3.641	6256	4.110	3.495	6004
105	1.458	1.240	2130	1.508	1.282	2203	1.508	1.282	2203	4.435	3.771	6478	4.334	3.686	6332
110	1.492	1.269	2180	1.557	1.324	2275	1.557	1.324	2275	4.587	3.901	6701	4.558	3.876	6659
115	1.528	1.299	2232	1.607	1.366	2347	1.607	1.366	2347	4.739	4.030	6924	4.815	4.094	7034
120	1.562	1.328	2282	1.656	1.408	2419	1.656	1.408	2419	4.892	4.160	7147	5.098	4.335	7448
125	1.597	1.358	2333	1.706	1.450	2492	1.706	1.450	2492	5.044	4.289	7369	5.381	4.576	7861
130	1.631	1.387	2383	1.755	1.492	2564	1.755	1.492	2564	5.194	4.417	7588	5.664	4.816	8275
135	1.666	1.417	2434	1.805	1.534	2636	1.805	1.534	2636	5.303	4.509	7747	5.928	5.041	8660
140	1.700	1.446	2484	1.854	1.577	2708	1.854	1.577	2708	5.412	4.602	7907	6.041	5.137	8826
145	1.736	1.476	2536	1.903	1.619	2781	1.903	1.619	2781	5.521	4.695	8066	6.155	5.234	8991
150	1.770	1.505	2586	1.953	1.661	2853	1.953	1.661	2853	5.630	4.788	8225	6.268	5.330	9157
155	1.805	1.535	2637	2.002	1.703	2925	2.002	1.703	2925	5.740	4.881	8385	6.382	5.427	9323
160	1.839	1.564	2687	2.052	1.745	2998	2.052	1.745	2998	5.849	4.973	8544	6.495	5.523	9488
165	1.873	1.593	2737	2.106	1.791	3077	2.106	1.791	3077	5.958	5.066	8704	6.608	5.619	9654
170	1.909	1.623	2788	2.168	1.843	3167	2.168	1.843	3167	6.067	5.159	8863	6.722	5.716	9820
175	1.943	1.652	2838	2.229	1.895	3256	2.229	1.895	3256	6.176	5.252	9023	6.835	5.812	9985
180	1.978	1.682	2890	2.291	1.948	3346	2.291	1.948	3346	6.285	5.345	9182	6.948	5.909	10151
185	2.012	1.711	2939	2.352	2.000	3436	2.352	2.000	3436	6.395	5.438	9342	7.062	6.005	10317
190	2.047	1.741	2991	2.437	2.072	3560	2.437	2.072	3560	6.504	5.530	9501	7.175	6.101	10482
195	2.082	1.770	3041	2.522	2.145	3685	2.522	2.145	3685	6.613	5.623	9661	7.289	6.198	10648
200	2.117	1.800	3092	2.608	2.217	3809	2.608	2.217	3809	6.722	5.716	9820	7.402	6.294	10813
205	2.151	1.829	3142	2.693	2.290	3934	2.693	2.290	3934				7.515	6.391	10979
210	2.186	1.859	3194	2.778	2.362	4058	2.778	2.362	4058				7.629	6.487	11145
215	2.220	1.888	3244	2.863	2.435	4183	2.863	2.435	4183						
220	2.256	1.918	3295	2.948	2.507	4307	2.948	2.507	4307						
225	2.290	1.947	3345	3.033	2.579	4431	3.033	2.579	4431						
230	2.324	1.976	3395	3.119	2.652	4556	3.119	2.652	4556						
235	2.367	2.013	3458	3.204	2.724	4680	3.204	2.724	4680						
240	2.445	2.079	3572	3.289	2.797	4805	3.289	2.797	4805						
245	2.523	2.145	3685	3.374	2.869	4929	3.374	2.869	4929						
250	2.600	2.211	3798	3.459	2.942	5054	3.459	2.942	5054						
255	2.678	2.277	3912	3.544	3.014	5178	3.544	3.014	5178						
260	2.755	2.343	4025	3.630	3.086	5303	3.630	3.086	5303						
265	2.833	2.409	4139	3.715	3.159	5427	3.715	3.159	5427						
270	2.909	2.474	4250	3.800	3.231	5551	3.800	3.231	5551						
275	2.987	2.540	4364	3.885	3.304	5676	3.885	3.304	5676						
280	3.065	2.606	4477	3.970	3.376	5800	3.970	3.376	5800						
285	3.142	2.672	4590	4.056	3.449	5925	4.056	3.449	5925						
290	3.220	2.738	4704	4.141	3.521	6049	4.141	3.521	6049						
295	3.298	2.804	4817	4.250	3.614	6208	4.250	3.614	6208						
300	3.375	2.870	4931	4.374	3.720	6390	4.374	3.720	6390						
305	3.453	2.936	5044	4.499	3.826	6573	4.499	3.826	6573						
310	3.530	3.002	5157	4.624	3.932	6755	4.624	3.932	6755						
315	3.607	3.067	5269	4.749	4.038	6937	4.749	4.038	6937						
320	3.684	3.133	5382	4.873	4.144	7119	4.873	4.144	7119						
325	3.762	3.199	5496	4.998	4.250	7302	4.998	4.250	7302						
330	3.840	3.265	5609	5.123	4.356	7484	5.123	4.356	7484						
335	3.917	3.331	5723	5.247	4.462	7666	5.247	4.462	7666						
340	3.995	3.397	5836	5.372	4.568	7848	5.372	4.568	7848						
345	4.072	3.463	5949	5.497	4.674	8030	5.497	4.674	8030						
350	4.150	3.529	6063	5.622	4.780	8213	5.622	4.780	8213						
355	4.228	3.595	6176	5.746	4.886	8395	5.746	4.886	8395						

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In accordance with BS476: Part 21: 1987

SC901 & SC902 LOADING TABLES

SC901 & SC902
Material Specification
Specific Gravity: 1.46
Volume Solids: 85% ± 3%



120 Minute Fire Protection

Hp/A	3 Sided Beam I Section			4 Sided Beam I Section			4 Sided Column I Section			CHS Mesh			RHS Mesh		
	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²	WFT	DFT	g/m ²
40	1.178	1.002	1721	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	3.986	3.389	5823
45	1.178	1.002	1721	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	3.986	3.389	5823
50	1.178	1.002	1721	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	3.986	3.389	5823
55	1.259	1.071	1840	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	4.608	3.918	6731
60	1.384	1.177	2022	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	4.832	4.109	7059
65	1.484	1.262	2168	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	5.022	4.270	7336
70	1.550	1.318	2264	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	5.212	4.432	7614
75	1.616	1.374	2361	2.889	2.457	4221	2.889	2.457	4221	6.750	5.740	9861	5.402	4.593	7892
80	1.682	1.430	2457	2.896	2.462	4230	2.896	2.462	4230	6.750	5.740	9861	5.592	4.755	8169
85	1.748	1.486	2553	2.994	2.546	4374	2.994	2.546	4374	6.750	5.740	9861	5.782	4.917	8447
90	1.813	1.542	2649	3.092	2.630	4518	3.092	2.630	4518	6.750	5.740	9861	6.055	5.149	8846
95	1.879	1.598	2745	3.191	2.713	4661	3.191	2.713	4661	6.750	5.740	9861	6.525	5.548	9532
100	1.945	1.654	2842	3.289	2.797	4805	3.289	2.797	4805	6.750	5.740	9861	6.995	5.948	10218
105	2.010	1.709	2936	3.388	2.881	4949	3.388	2.881	4949	6.750	5.740	9861	7.464	6.347	10904
110	2.076	1.765	3032	3.486	2.964	5093	3.486	2.964	5093	6.750	5.740	9861			
115	2.141	1.821	3128	3.584	3.048	5236	3.584	3.048	5236	6.750	5.740	9861			
120	2.207	1.877	3225	3.683	3.132	5380	3.683	3.132	5380	6.750	5.740	9861			
125	2.273	1.933	3321	3.781	3.215	5524	3.781	3.215	5524	6.750	5.740	9861			
130	2.339	1.989	3417	3.880	3.299	5668	3.880	3.299	5668	6.750	5.740	9861			
135	2.443	2.077	3568	3.978	3.383	5811	3.978	3.383	5811	6.750	5.740	9861			
140	2.555	2.173	3733	4.076	3.466	5955	4.076	3.466	5955						
145	2.668	2.269	3898	4.175	3.550	6099	4.175	3.550	6099						
150	2.781	2.365	4063	4.224	3.592	6170	4.224	3.592	6170						
155	2.894	2.461	4228	4.273	3.633	6242	4.273	3.633	6242						
160	3.007	2.557	4393	4.322	3.675	6314	4.322	3.675	6314						
165	3.120	2.653	4558	4.396	3.738	6422	4.396	3.738	6422						
170	3.233	2.749	4723	4.507	3.833	6584	4.507	3.833	6584						
175	3.346	2.845	4888	4.618	3.927	6747	4.618	3.927	6747						
180	3.459	2.941	5053	4.730	4.022	6910	4.730	4.022	6910						
185	3.572	3.037	5218	4.841	4.117	7072	4.841	4.117	7072						
190	3.684	3.133	5382	4.953	4.211	7235	4.953	4.211	7235						
195	3.797	3.229	5547	5.064	4.306	7398	5.064	4.306	7398						
200	3.910	3.325	5712	5.175	4.401	7561	5.175	4.401	7561						
205	4.023	3.421	5877	5.287	4.495	7723	5.287	4.495	7723						
210	4.136	3.517	6042	5.398	4.590	7886	5.398	4.590	7886						
215	4.225	3.593	6173	5.509	4.685	8049	5.509	4.685	8049						
220	4.301	3.657	6283	5.621	4.780	8211	5.621	4.780	8211						
225	4.376	3.721	6393	5.732	4.874	8374	5.732	4.874	8374						
230	4.451	3.785	6503	5.843	4.969	8537	5.843	4.969	8537						
235	4.525	3.848	6611	5.955	5.064	8699	5.955	5.064	8699						
240	4.601	3.912	6721	6.066	5.158	8862	6.066	5.158	8862						
245	4.676	3.976	6831	6.178	5.253	9025	6.178	5.253	9025						
250	4.751	4.040	6941	6.289	5.348	9187	6.289	5.348	9187						
255	4.825	4.103	7049	6.400	5.442	9349	6.400	5.442	9349						
260	4.900	4.167	7159	6.415	5.455	9372	6.415	5.455	9372						
265	4.976	4.231	7269												
270	5.051	4.295	7379												
275	5.125	4.358	7487												
280	5.200	4.422	7597												
285	5.276	4.486	7707												
290	5.351	4.550	7817												
295	5.425	4.613	7925												
300	5.500	4.677	8035												
305	5.575	4.741	8145												
310	5.651	4.805	8255												
315	5.725	4.868	8363												
320	5.800	4.932	8473												
325	5.875	4.996	8583												
330	5.951	5.060	8693												
335	6.031	5.128	8810												
340	6.081	5.171	8884												
345	6.146	5.226	8978												
350	6.210	5.281	9073												
355	6.275	5.336	9167												

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