



# SC900 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 Critical Temperature 620°			4 Sided Beam - I Section Critical Temperature 550°			4 Sided Column - I Section Critical Temperature 550°			CHS - No Mesh Critical Temperature 520°			RHS - Mesh Critical Temperature 520°		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
45	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
50	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
55	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
60	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
65	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
70	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
75	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
80	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
85	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
90	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
95	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
100	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
105	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
110	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
115	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
120	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.514	0.437	751	1.022	0.869	1493
125	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.532	0.452	777	1.022	0.869	1493
130	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.568	0.483	830	1.022	0.869	1493
135	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.604	0.514	883	1.022	0.869	1493
140	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.641	0.545	936	1.022	0.869	1493
145	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.677	0.576	990	1.022	0.869	1493
150	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.714	0.607	1043	1.022	0.869	1493
155	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.751	0.639	1098	1.022	0.869	1493
160	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.788	0.670	1151	1.022	0.869	1493
165	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.824	0.701	1204	1.022	0.869	1493
170	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.861	0.732	1258	1.022	0.869	1493
175	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.897	0.763	1311	1.022	0.869	1493
180	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.934	0.794	1364	1.022	0.869	1493
185	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	0.970	0.825	1417	1.022	0.869	1493
190	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.007	0.856	1471	1.022	0.869	1493
195	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.043	0.887	1524	1.022	0.869	1493
200	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.080	0.918	1577	1.022	0.869	1493
205	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.116	0.949	1630	1.022	0.869	1493
210	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.154	0.981	1685	1.022	0.869	1493
215	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.190	1.012	1739	1.022	0.869	1493
220	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.227	1.043	1792	1.051	0.894	1536
225	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.263	1.074	1845	1.090	0.927	1593
230	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.299	1.105	1898	1.130	0.961	1651
235	0.541	0.460	790	0.541	0.460	790	0.541	0.460	790	1.336	1.136	1952	1.169	0.994	1708
240	0.541	0.460	790	0.551	0.469	805	0.551	0.469	805	1.372	1.167	2005	1.209	1.028	1766
245	0.541	0.460	790	0.566	0.481	827	0.566	0.481	827	1.409	1.198	2058	1.249	1.062	1825
250	0.541	0.460	790	0.581	0.494	849	0.581	0.494	849	1.445	1.229	2111	1.288	1.095	1881
255	0.541	0.460	790	0.596	0.507	871	0.596	0.507	871	1.489	1.266	2175	1.328	1.129	1940
260	0.541	0.460	790	0.612	0.520	893	0.612	0.520	893	1.543	1.312	2254	1.367	1.162	1996
265	0.541	0.460	790	0.627	0.533	915	0.627	0.533	915	1.597	1.358	2333	1.406	1.196	2055
270	0.541	0.460	790	0.642	0.546	938	0.642	0.546	938	1.650	1.403	2410	1.445	1.229	2111
275	0.541	0.460	790	0.657	0.559	960	0.657	0.559	960	1.704	1.449	2489	1.485	1.263	2170
280	0.541	0.460	790	0.672	0.571	982	0.672	0.571	982	1.757	1.494	2567	1.524	1.296	2227
285	0.541	0.460	790	0.687	0.584	1004	0.687	0.584	1004	1.811	1.540	2646	1.564	1.330	2285
290	0.541	0.460	790	0.702	0.597	1026	0.702	0.597	1026	1.865	1.586	2725	1.603	1.363	2342
295	0.541	0.460	790	0.717	0.610	1048	0.717	0.610	1048	1.918	1.631	2802	1.643	1.397	2400
300	0.541	0.460	790	0.732	0.623	1070	0.732	0.623	1070	1.972	1.677	2881	1.683	1.431	2458
305	0.541	0.460	790	0.748	0.636	1092	0.748	0.636	1092	2.026	1.723	2960	1.722	1.464	2515
310	0.541	0.460	790	0.763	0.649	1114	0.763	0.649	1114	2.079	1.768	3037	1.762	1.498	2574
315	0.541	0.460	790	0.778	0.661	1136	0.778	0.661	1136	2.133	1.814	3116	1.800	1.531	2630
320	0.541	0.460	790	0.793	0.674	1158	0.793	0.674	1158	2.187	1.860	3195	1.840	1.565	2689
325	0.541	0.460	790	0.808	0.687	1181	0.808	0.687	1181	2.240	1.905	3273	1.879	1.598	2745
330	0.541	0.460	790	0.823	0.700	1203	0.823	0.700	1203	2.294	1.951	3352	1.919	1.632	2804
335	0.541	0.460	790	0.838	0.713	1225	0.838	0.713	1225	2.348	1.997	3431	1.958	1.665	2860
340	0.541	0.460	790	0.853	0.726	1247	0.853	0.726	1247	2.401	2.042	3508	1.998	1.699	2919
345	0.541	0.460	790	0.869	0.739	1269	0.869	0.739	1269	2.455	2.088	3587	2.037	1.732	2976
350	0.541	0.460	790	0.884	0.751	1291	0.884	0.751	1291	2.510	2.134	3666	2.077	1.766	3034
355	0.541	0.460	790	0.899	0.764	1313	0.899	0.764	1313	2.563	2.179	3744	2.116	1.799	3091

PLEASE NOTE: The critical temperatures in this loading table are the generally accepted UK "default temperatures". The ASFP 5th Edition Yellow Book gives new Critical Temperatures to comply with either the Eurocodes for steel design, or BS 5950-8: 2003. Alternative loading tables to the new Critical Temperatures are available from the Nullifire Technical Desk on request.

CHS & RHS range up to 435 m<sup>-1</sup> - Ask Technical Support



# SC900 Loading Tables

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



## 60 Minute Fire Protection

Hp/A	3 Sided Beam - I Section Critical Temperature 620°			4 Sided Beam - I Section Critical Temperature 550°			4 Sided Column - I Section Critical Temperature 550°			CHS - No Mesh Critical Temperature 520°			RHS - Mesh Critical Temperature 520°		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	0.541	0.460	790	0.762	0.460	1113	0.762	0.460	1113	1.021	0.868	1491	1.022	0.869	1493
45	0.541	0.460	790	0.762	0.460	1113	0.762	0.460	1113	1.074	0.913	1569	1.022	0.869	1493
50	0.541	0.460	790	0.762	0.464	1113	0.762	0.464	1113	1.127	0.958	1646	1.022	0.869	1493
55	0.541	0.460	790	0.762	0.492	1113	0.762	0.492	1113	1.181	1.004	1725	1.022	0.869	1493
60	0.541	0.460	790	0.762	0.520	1113	0.762	0.520	1113	1.234	1.049	1802	1.022	0.869	1493
65	0.541	0.460	790	0.762	0.548	1113	0.762	0.548	1113	1.287	1.094	1879	1.022	0.869	1493
70	0.541	0.460	790	0.762	0.576	1113	0.762	0.576	1113	1.339	1.139	1957	1.022	0.869	1493
75	0.553	0.470	807	0.762	0.604	1113	0.762	0.604	1113	1.394	1.185	2036	1.022	0.869	1493
80	0.573	0.487	837	0.779	0.632	1138	0.779	0.632	1138	1.446	1.230	2113	1.347	1.145	1967
85	0.592	0.503	864	0.800	0.660	1169	0.800	0.660	1169	1.492	1.274	2190	1.692	1.439	2472
90	0.612	0.520	893	0.821	0.688	1200	0.821	0.688	1200	1.537	1.319	2267	2.037	1.732	2976
95	0.632	0.537	923	0.843	0.715	1231	0.843	0.715	1231	1.582	1.363	2344	2.383	2.026	3481
100	0.650	0.553	950	0.864	0.734	1262	0.864	0.734	1262	1.627	1.407	2421	2.728	2.315	3986
105	0.670	0.570	979	0.885	0.752	1292	0.885	0.752	1292	1.672	1.451	2498	3.073	2.650	4491
110	0.690	0.587	1008	0.906	0.770	1323	0.906	0.770	1323	1.717	1.495	2575	3.418	2.985	5000
115	0.709	0.603	1036	0.927	0.788	1354	0.927	0.788	1354	1.762	1.539	2652	3.763	3.317	5505
120	0.729	0.620	1065	0.948	0.806	1385	0.948	0.806	1385	1.807	1.583	2729	4.108	3.646	6010
125	0.749	0.637	1094	0.969	0.824	1415	0.969	0.824	1415	1.852	1.627	2806	4.453	3.975	6515
130	0.768	0.653	1122	0.990	0.842	1446	0.990	0.842	1446	1.897	1.671	2883	4.798	4.304	7020
135	0.788	0.670	1151	1.011	0.860	1477	1.011	0.860	1477	1.942	1.715	2960	5.143	4.633	7525
140	0.808	0.687	1180	1.032	0.878	1508	1.032	0.878	1508	1.987	1.759	3037	5.488	4.962	8030
145	0.827	0.703	1208	1.053	0.896	1539	1.053	0.896	1539	2.032	1.803	3114	5.833	5.291	8535
150	0.847	0.720	1237	1.074	0.913	1569	1.074	0.913	1569	2.077	1.847	3191	6.178	5.620	9040
155	0.867	0.737	1266	1.095	0.931	1600	1.095	0.931	1600	2.122	1.891	3268	6.523	5.949	9545
160	0.886	0.753	1294	1.116	0.949	1631	1.116	0.949	1631	2.167	1.935	3345	6.868	6.278	10050
165	0.906	0.770	1323	1.138	0.967	1662	1.138	0.967	1662	2.212	1.979	3422	7.213	6.607	10555
170	0.926	0.787	1352	1.160	0.986	1694	1.160	0.986	1694	2.257	2.023	3499	7.558	6.936	11060
175	0.944	0.803	1380	1.182	1.005	1726	1.182	1.005	1726	2.302	2.067	3576	7.903	7.265	11565
180	0.964	0.820	1409	1.204	1.023	1758	1.204	1.023	1758	2.347	2.111	3653	8.248	7.594	12070
185	0.984	0.837	1438	1.226	1.042	1790	1.226	1.042	1790	2.392	2.155	3730	8.593	7.923	12575
190	1.003	0.853	1465	1.248	1.061	1822	1.248	1.061	1822	2.437	2.199	3807	8.938	8.252	13080
195	1.023	0.870	1495	1.269	1.079	1855	1.269	1.079	1855	2.482	2.243	3884	9.283	8.581	13585
200	1.043	0.887	1524	1.291	1.098	1887	1.291	1.098	1887	2.527	2.287	3961	9.628	8.910	14090
205	1.062	0.903	1551	1.313	1.117	1919	1.313	1.117	1919	2.572	2.331	4038	9.973	9.239	14595
210	1.082	0.920	1581	1.335	1.135	1951	1.335	1.135	1951	2.617	2.375	4115	10.318	9.568	15100
215	1.102	0.937	1610	1.357	1.154	1983	1.357	1.154	1983	2.662	2.419	4192	10.663	9.897	15605
220	1.121	0.953	1637	1.379	1.173	2015	1.379	1.173	2015	2.707	2.463	4269	11.008	10.226	16110
225	1.141	0.970	1666	1.401	1.191	2047	1.401	1.191	2047	2.752	2.507	4346	11.353	10.555	16615
230	1.161	0.987	1696	1.423	1.210	2079	1.423	1.210	2079	2.797	2.551	4423	11.698	10.884	17120
235	1.180	1.003	1723	1.445	1.229	2111	1.445	1.229	2111	2.842	2.595	4500	12.043	11.213	17625
240	1.200	1.020	1752	1.462	1.260	2165	1.462	1.260	2165	2.887	2.639	4577	12.388	11.542	18130
245	1.220	1.037	1782	1.541	1.310	2251	1.541	1.310	2251	2.932	2.683	4654	12.733	11.871	18635
250	1.238	1.053	1809	1.599	1.360	2336	1.599	1.360	2336	2.977	2.727	4731	13.078	12.200	19140
255	1.258	1.070	1838	1.658	1.410	2422	1.658	1.410	2422	3.022	2.771	4808	13.423	12.529	19645
260	1.278	1.087	1867	1.717	1.460	2508	1.717	1.460	2508	3.067	2.815	4885	13.768	12.858	20150
265	1.297	1.103	1895	1.776	1.510	2594	1.776	1.510	2594	3.112	2.859	4962	14.113	13.187	20655
270	1.317	1.120	1924	1.835	1.560	2680	1.835	1.560	2680	3.157	2.903	5039	14.458	13.516	21160
275	1.337	1.137	1953	1.893	1.610	2766	1.893	1.610	2766	3.202	2.947	5116	14.803	13.845	21665
280	1.356	1.153	1981	1.952	1.660	2852	1.952	1.660	2852	3.247	2.991	5193	15.148	14.174	22170
285	1.376	1.170	2010	2.011	1.710	2938	2.011	1.710	2938	3.292	3.035	5270	15.493	14.503	22675
290	1.396	1.187	2039	2.070	1.760	3024	2.070	1.760	3024	3.337	3.079	5347	15.838	14.832	23180
295	1.415	1.203	2067	2.129	1.810	3110	2.129	1.810	3110	3.382	3.123	5424	16.183	15.161	23685
300	1.435	1.220	2096	2.187	1.860	3195	2.187	1.860	3195	3.427	3.167	5501	16.528	15.490	24190
305	1.455	1.237	2125	2.246	1.910	3281	2.246	1.910	3281	3.472	3.211	5578	16.873	15.819	24695
310	1.506	1.281	2201	2.305	1.960	3367	2.305	1.960	3367	3.517	3.255	5655	17.218	16.148	25200
315	1.566	1.332	2288	2.364	2.010	3453	2.364	2.010	3453	3.562	3.299	5732	17.563	16.477	25705
320	1.628	1.384	2378	2.422	2.059	3538	2.422	2.059	3538	3.607	3.343	5809	17.908	16.806	26210
325	1.688	1.435	2465	2.480	2.109	3623	2.480	2.109	3623	3.652	3.387	5886	18.253	17.135	26715
330	1.748	1.486	2553	2.538	2.158	3707	2.538	2.158	3707	3.697	3.431	5963	18.598	17.464	27220
335	1.809	1.538	2642	2.596	2.207	3792	2.596	2.207	3792	3.742	3.475	6040	18.943	17.793	27725
340	1.869	1.589	2730	2.654	2.257	3877	2.654	2.257	3877	3.787	3.519	6117	19.288	18.122	28230
345	1.930	1.641	2819	2.712	2.306	3962	2.712	2.306	3962	3.832	3.563	6194	19.633	18.451	28735
350	1.990	1.692	2907	2.770	2.355	4047	2.770	2.355	4047	3.877	3.607	6271	19.978	18.780	29240
355	2.050	1.743	2994	2.828	2.405	4131	2.828	2.405	4131	3.922	3.651	6348	20.323	19.109	29745

PLEASE NOTE: The critical temperatures in this loading table are the generally accepted UK "default temperatures". The ASFP 5th Edition Yellow Book gives new Critical Temperatures to comply with either the Eurocodes for steel design, or BS 5950-8: 2003. Alternative loading tables to the new Critical Temperatures are available from the Nullifire Technical Desk on request.

RHS range up to 380 m<sup>-1</sup> - Ask Technical Support



# SC900 Loading Tables

SC90I & SC90E  
Material Specification  
Specific Gravity: 1.46  
Volume Solids: 85% ± 3%



## 90 Minute Fire Protection

Hp/A	3 Sided Beam - I Section Critical Temperature 620°			4 Sided Beam - I Section Critical Temperature 550°			4 Sided Column - I Section Critical Temperature 550°			CHS - No Mesh Critical Temperature 520°			CHS - Mesh Critical Temperature 520°			RHS - Mesh Critical Temperature 520°		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	1.927	1.639	2816	3.572	3.037	5218	2.973	2.528	4343
45	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	2.154	1.832	3147	3.572	3.037	5218	2.973	2.528	4343
50	0.747	0.635	1091	1.259	1.071	1840	1.259	1.071	1840	2.386	2.029	3486	3.572	3.037	5218	2.973	2.528	4343
55	0.803	0.683	1173	1.259	1.071	1840	1.259	1.071	1840	2.497	2.123	3647	3.572	3.037	5218	2.973	2.528	4343
60	0.868	0.738	1268	1.259	1.071	1840	1.259	1.071	1840	2.606	2.216	3807	3.572	3.037	5218	2.986	2.539	4362
65	0.934	0.794	1364	1.259	1.071	1840	1.259	1.071	1840	2.715	2.309	3967	3.572	3.037	5218	3.088	2.626	4511
70	1.000	0.850	1460	1.259	1.071	1840	1.259	1.071	1840	2.825	2.402	4127	3.572	3.037	5218	3.190	2.713	4661
75	1.065	0.906	1557	1.259	1.071	1840	1.259	1.071	1840	2.935	2.496	4288	3.572	3.037	5218	3.294	2.801	4812
80	1.130	0.961	1651	1.259	1.071	1840	1.259	1.071	1840	3.045	2.589	4448	3.672	3.123	5365	3.396	2.888	4962
85	1.196	1.017	1747	1.259	1.071	1840	1.259	1.071	1840	3.154	2.682	4608	3.825	3.252	5587	3.499	2.975	5111
90	1.262	1.073	1843	1.311	1.115	1916	1.311	1.115	1916	3.263	2.775	4767	3.977	3.382	5810	3.628	3.085	5300
95	1.328	1.129	1940	1.385	1.178	2023	1.385	1.178	2023	3.374	2.869	4929	4.130	3.512	6033	3.863	3.285	5644
100	1.392	1.184	2034	1.458	1.240	2130	1.458	1.240	2130	3.483	2.962	5089	4.282	3.641	6256	4.097	3.484	5986
105	1.458	1.240	2130	1.508	1.282	2203	1.508	1.282	2203	3.593	3.055	5248	4.435	3.771	6478	4.332	3.684	6329
110	1.492	1.269	2180	1.557	1.324	2275	1.557	1.324	2275	3.703	3.149	5410	4.587	3.901	6701	4.566	3.883	6671
115	1.528	1.299	2232	1.607	1.366	2347	1.607	1.366	2347	3.813	3.242	5570	4.739	4.030	6924	4.787	4.071	6994
120	1.562	1.328	2282	1.656	1.408	2419	1.656	1.408	2419	3.922	3.335	5730	4.892	4.160	7147	4.989	4.242	7288
125	1.597	1.358	2333	1.706	1.450	2492	1.706	1.450	2492	4.031	3.428	5889	5.044	4.289	7369	5.190	4.413	7582
130	1.631	1.387	2383	1.755	1.492	2564	1.755	1.492	2564	4.142	3.522	6051	5.194	4.417	7588	5.391	4.584	7875
135	1.666	1.417	2434	1.805	1.534	2636	1.805	1.534	2636	4.251	3.615	6211	5.303	4.509	7747	5.592	4.755	8169
140	1.700	1.446	2484	1.854	1.577	2708	1.854	1.577	2708	4.361	3.708	6370	5.412	4.602	7907	5.793	4.926	8463
145	1.736	1.476	2536	1.903	1.619	2781	1.903	1.619	2781	4.470	3.801	6530	5.521	4.695	8066	5.994	5.097	8757
150	1.770	1.505	2586	1.953	1.661	2853	1.953	1.661	2853	4.580	3.894	6690	5.630	4.788	8225	6.195	5.203	8939
155	1.805	1.535	2637	2.002	1.703	2925	2.002	1.703	2925	4.690	3.987	6850	5.740	4.881	8385	6.242	5.308	9119
160	1.839	1.564	2687	2.052	1.745	2998	2.052	1.745	2998	4.800	4.080	7010	5.849	4.973	8544	6.367	5.414	9301
165	1.873	1.593	2737	2.106	1.791	3077	2.106	1.791	3077	4.910	4.173	7170	5.958	5.066	8704	6.492	5.520	9483
170	1.909	1.623	2788	2.168	1.843	3167	2.168	1.843	3167	5.020	4.266	7330	6.067	5.159	8863	6.616	5.626	9665
175	1.943	1.652	2838	2.229	1.895	3256	2.229	1.895	3256	5.130	4.359	7490	6.176	5.252	9023	6.740	5.731	9846
180	1.978	1.682	2890	2.291	1.948	3346	2.291	1.948	3346	5.240	4.452	7650	6.285	5.345	9182	6.864	5.837	10028
185	2.012	1.711	2939	2.352	2.000	3436	2.352	2.000	3436	5.350	4.545	7810	6.395	5.438	9342	6.989	5.943	10210
190	2.047	1.741	2991	2.437	2.072	3560	2.437	2.072	3560	5.460	4.638	7970	6.504	5.530	9501	7.114	6.049	10392
195	2.082	1.770	3041	2.522	2.145	3685	2.522	2.145	3685	5.570	4.731	8130	6.613	5.623	9661	7.237	6.154	10573
200	2.117	1.800	3092	2.608	2.217	3809	2.608	2.217	3809	5.680	4.824	8290	6.722	5.716	9820	7.362	6.260	10755
205	2.151	1.829	3142	2.693	2.290	3934	2.693	2.290	3934	5.790	4.917	8450				7.486	6.366	10937
210	2.186	1.859	3194	2.778	2.362	4058	2.778	2.362	4058	5.900	5.010	8610				7.611	6.472	11119
215	2.220	1.888	3244	2.863	2.435	4183	2.863	2.435	4183	6.010	5.103	8770						
220	2.256	1.918	3295	2.948	2.507	4307	2.948	2.507	4307	6.120	5.196	8930						
225	2.290	1.947	3345	3.033	2.579	4431	3.033	2.579	4431	6.230	5.289	9090						
230	2.324	1.976	3395	3.119	2.652	4556	3.119	2.652	4556	6.340	5.382	9250						
235	2.367	2.013	3458	3.204	2.724	4680	3.204	2.724	4680	6.450	5.475	9410						
240	2.445	2.079	3572	3.289	2.797	4805	3.289	2.797	4805	6.560	5.568	9570						
245	2.523	2.145	3685	3.374	2.869	4929	3.374	2.869	4929	6.670	5.661	9730						
250	2.600	2.211	3798	3.459	2.942	5054	3.459	2.942	5054	6.780	5.754	9890						
255	2.678	2.277	3912	3.544	3.014	5178	3.544	3.014	5178	6.890	5.847	10050						
260	2.755	2.343	4025	3.630	3.086	5303	3.630	3.086	5303	7.000	5.940	10210						
265	2.833	2.409	4139	3.715	3.159	5427	3.715	3.159	5427	7.110	6.033	10370						
270	2.909	2.474	4250	3.800	3.231	5551	3.800	3.231	5551	7.220	6.126	10530						
275	2.987	2.540	4364	3.885	3.304	5676	3.885	3.304	5676	7.330	6.219	10690						
280	3.065	2.606	4477	3.970	3.376	5800	3.970	3.376	5800	7.440	6.312	10850						
285	3.142	2.672	4590	4.056	3.449	5925	4.056	3.449	5925	7.550	6.405	11010						
290	3.220	2.738	4704	4.141	3.521	6049	4.141	3.521	6049	7.660	6.498	11170						
295	3.298	2.804	4817	4.250	3.614	6208	4.250	3.614	6208	7.770	6.591	11330						
300	3.375	2.870	4931	4.374	3.720	6390	4.374	3.720	6390	7.880	6.684	11490						
305	3.453	2.936	5044	4.499	3.826	6573	4.499	3.826	6573	7.990	6.777	11650						
310	3.530	3.002	5157	4.624	3.932	6755	4.624	3.932	6755	8.100	6.870	11810						
315	3.607	3.067	5269	4.749	4.038	6937	4.749	4.038	6937	8.210	6.963	11970						
320	3.684	3.133	5382	4.873	4.144	7119	4.873	4.144	7119	8.320	7.056	12130						
325	3.762	3.199	5496	4.998	4.250	7302	4.998	4.250	7302	8.430	7.149	12290						
330	3.840	3.265	5609	5.123	4.356	7484	5.123	4.356	7484	8.540	7.242	12450						
335	3.917	3.331	5723	5.247	4.462	7666	5.247	4.462	7666	8.650	7.335	12610						
340	3.995	3.397	5836	5.372	4.568	7848	5.372	4.568	7848	8.760	7.428	12770						
345	4.072	3.463	5949	5.497	4.674	8030	5.497	4.674	8030	8.870	7.521	12930						
350	4.150	3.529	6063	5.622	4.780	8213	5.622	4.780	8213	8.980	7.614	13090						
355	4.228	3.595	6176	5.746	4.886	8395	5.746	4.886	8395	9.090	7.707	13250						

PLEASE NOTE: The critical temperatures in this loading table are the generally accepted UK "default temperatures". The ASFP 5th Edition Yellow Book gives new Critical Temperatures to comply with either the Eurocodes for steel design, or BS 5950-8: 2003. Alternative loading tables to the new Critical Temperatures are available from the Nullifire Technical Desk on request.





# SC900 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 Critical Temperature 620°			4 Sided Beam - I Section Critical Temperature 550°			4 Sided Column - I Section Critical Temperature 550°			CHS - No Mesh Critical Temperature 520°			CHS - Mesh Critical Temperature 520°			RHS - Mesh Critical Temperature 520°		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	1.178	1.002	1721	1.385	1.178	2024	1.385	1.178	2024	2.872	2.442	4195	6.750	5.740	9861	4.312	3.667	6300
45	1.178	1.002	1721	1.385	1.178	2024	1.385	1.178	2024	3.080	2.619	4499	6.750	5.740	9861	4.312	3.667	6300
50	1.178	1.002	1721	1.496	1.272	2185	1.496	1.272	2185	3.288	2.796	4804	6.750	5.740	9861	4.312	3.667	6300
55	1.259	1.071	1840	1.682	1.430	2457	1.682	1.430	2457	3.495	2.972	5106	6.750	5.740	9861	4.595	3.907	6712
60	1.384	1.177	2022	1.867	1.588	2728	1.867	1.588	2728	3.703	3.149	5410	6.750	5.740	9861	4.824	4.102	7047
65	1.484	1.262	2168	2.054	1.747	3001	2.054	1.747	3001	3.911	3.326	5714	6.750	5.740	9861	5.019	4.268	7332
70	1.550	1.318	2264	2.240	1.905	3273	2.240	1.905	3273	4.120	3.503	6018	6.750	5.740	9861	5.214	4.434	7618
75	1.616	1.374	2361	2.426	2.063	3544	2.426	2.063	3544				6.750	5.740	9861	5.410	4.600	7903
80	1.682	1.430	2457	2.612	2.221	3816	2.612	2.221	3816				6.750	5.740	9861	5.604	4.765	8186
85	1.748	1.486	2553	2.799	2.380	4089	2.799	2.380	4089				6.750	5.740	9861	5.799	4.931	8471
90	1.813	1.542	2649	2.985	2.538	4360	2.985	2.538	4360				6.750	5.740	9861	5.994	5.097	8757
95	1.879	1.598	2745	3.170	2.696	4632	3.170	2.696	4632				6.750	5.740	9861	6.386	5.430	9329
100	1.945	1.654	2842	3.289	2.797	4805	3.289	2.797	4805				6.750	5.740	9861	6.778	5.764	9903
105	2.010	1.709	2936	3.388	2.881	4949	3.388	2.881	4949				6.750	5.740	9861	7.170	6.097	10475
110	2.076	1.765	3032	3.486	2.964	5093	3.486	2.964	5093				6.750	5.740	9861	7.563	6.431	11048
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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