



Declaration of Performance

No. 202009-1061

Florence 5 Column 500mm

Unique product code:	SMC-F5C-502
Type, batch or serial number:	SMC-F5C-502
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	CETIAT Domaine Scientifique de la Doua 25 Avenue des Arts BP 52042 69603 Villeurbanne France
Test report number:	ENE/MRT.RES.01003_C

Declared performance

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	A1	EN 442-1:2014
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 × maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
Resistance to pressure	No breakage at 1.69 × maximum operating pressure [kPa]	
Resistance to pressure	Maximum operating pressure: 1000 [kPa]	
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$\phi = K_m \cdot \Delta T^n$. See appendix for factor K_m and exponent n	
Resistance against corrosion:	No corrosion after 100h humidity	
Resistance against minor impact:	Class 0	

Appendix: Dimensions and thermal outputs

Panel dimensions: 602mm h, 177mm d for all numbers of sections. See table for length.

SKU	Number of sections	Length, mm	Output, W $\Delta T50$	Output, W $\Delta T30$	Factor, Km	Exponent, n
SMC-F5C-502/03	3	165	244	125	1.470	1.30683
SMC-F5C-502/04	4	210	325	167	1.959	1.30683
SMC-F5C-502/05	5	255	407	209	2.449	1.30683
SMC-F5C-502/06	6	300	488	250	2.939	1.30683
SMC-F5C-502/07	7	345	569	292	3.429	1.30683
SMC-F5C-502/08	8	390	650	334	3.919	1.30683
SMC-F5C-502/09	9	435	732	375	4.409	1.30683
SMC-F5C-502/10	10	480	813	417	4.899	1.30683
SMC-F5C-502/11	11	525	894	459	5.388	1.30683
SMC-F5C-502/12	12	570	976	500	5.878	1.30683
SMC-F5C-502/13	13	615	1057	542	6.368	1.30683
SMC-F5C-502/14	14	660	1138	584	6.858	1.30683
SMC-F5C-502/15	15	705	1220	626	7.348	1.30683
SMC-F5C-502/16	16	750	1301	667	7.838	1.30683
SMC-F5C-502/17	17	795	1382	709	8.327	1.30683
SMC-F5C-502/18	18	840	1463	751	8.817	1.30683
SMC-F5C-502/19	19	885	1545	792	9.307	1.30683
SMC-F5C-502/20	20	930	1626	834	9.797	1.30683
SMC-F5C-502/21	21	975	1707	876	10.287	1.30683
SMC-F5C-502/22	22	1020	1789	917	10.777	1.30683
SMC-F5C-502/23	23	1065	1870	959	11.267	1.30683
SMC-F5C-502/24	24	1110	1951	1001	11.756	1.30683
SMC-F5C-502/25	25	1155	2033	1043	12.246	1.30683
SMC-F5C-502/26	26	1200	2114	1084	12.736	1.30683
SMC-F5C-502/27	27	1245	2195	1126	13.226	1.30683
SMC-F5C-502/28	28	1290	2276	1168	13.716	1.30683
SMC-F5C-502/29	29	1335	2358	1209	14.206	1.30683
SMC-F5C-502/30	30	1380	2439	1251	14.696	1.30683
SMC-F5C-502/31	31	1425	2520	1293	15.185	1.30683
SMC-F5C-502/32	32	1470	2602	1334	15.675	1.30683
SMC-F5C-502/33	33	1515	2683	1376	16.165	1.30683
SMC-F5C-502/34	34	1560	2764	1418	16.655	1.30683
SMC-F5C-502/35	35	1605	2846	1460	17.145	1.30683
SMC-F5C-502/36	36	1650	2927	1501	17.635	1.30683
SMC-F5C-502/37	37	1695	3008	1543	18.124	1.30683
SMC-F5C-502/38	38	1740	3089	1585	18.614	1.30683
SMC-F5C-502/39	39	1785	3171	1626	19.104	1.30683
SMC-F5C-502/40	40	1830	3252	1668	19.594	1.30683

