



Declaration of Performance

No. 202009-1064

Florence 5 Column 765mm

Unique product code:	SMC-F5C-767
Type, batch or serial number:	SMC-F5C-767
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: 867mm 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-767/03	3	165	359	180	1.835	1.34831
SMC-F5C-767/04	4	210	478	240	2.447	1.34831
SMC-F5C-767/05	5	255	598	300	3.059	1.34831
SMC-F5C-767/06	6	300	717	360	3.670	1.34831
SMC-F5C-767/07	7	345	837	420	4.282	1.34831
SMC-F5C-767/08	8	390	956	480	4.894	1.34831
SMC-F5C-767/09	9	435	1076	540	5.506	1.34831
SMC-F5C-767/10	10	480	1195	600	6.117	1.34831
SMC-F5C-767/11	11	525	1315	660	6.729	1.34831
SMC-F5C-767/12	12	570	1434	720	7.341	1.34831
SMC-F5C-767/13	13	615	1554	780	7.952	1.34831
SMC-F5C-767/14	14	660	1673	840	8.564	1.34831
SMC-F5C-767/15	15	705	1793	900	9.176	1.34831
SMC-F5C-767/16	16	750	1912	960	9.788	1.34831
SMC-F5C-767/17	17	795	2032	1020	10.399	1.34831
SMC-F5C-767/18	18	840	2151	1080	11.011	1.34831
SMC-F5C-767/19	19	885	2271	1140	11.623	1.34831
SMC-F5C-767/20	20	930	2390	1200	12.235	1.34831
SMC-F5C-767/21	21	975	2510	1260	12.846	1.34831
SMC-F5C-767/22	22	1020	2629	1320	13.458	1.34831
SMC-F5C-767/23	23	1065	2749	1380	14.070	1.34831
SMC-F5C-767/24	24	1110	2868	1440	14.682	1.34831
SMC-F5C-767/25	25	1155	2988	1500	15.293	1.34831
SMC-F5C-767/26	26	1200	3107	1560	15.905	1.34831
SMC-F5C-767/27	27	1245	3227	1620	16.517	1.34831
SMC-F5C-767/28	28	1290	3346	1680	17.128	1.34831
SMC-F5C-767/29	29	1335	3466	1740	17.740	1.34831
SMC-F5C-767/30	30	1380	3585	1800	18.352	1.34831
SMC-F5C-767/31	31	1425	3705	1860	18.964	1.34831
SMC-F5C-767/32	32	1470	3824	1920	19.575	1.34831
SMC-F5C-767/33	33	1515	3944	1980	20.187	1.34831
SMC-F5C-767/34	34	1560	4063	2040	20.799	1.34831
SMC-F5C-767/35	35	1605	4183	2100	21.411	1.34831
SMC-F5C-767/36	36	1650	4302	2160	22.022	1.34831
SMC-F5C-767/37	37	1695	4422	2220	22.634	1.34831
SMC-F5C-767/38	38	1740	4541	2280	23.246	1.34831
SMC-F5C-767/39	39	1785	4661	2340	23.857	1.34831
SMC-F5C-767/40	40	1830	4780	2400	24.469	1.34831

