



Declaration of Performance

No. 202009-1078

Florence 6 Column 685mm

Unique product code:	SMC-F6C-687
Type, batch or serial number:	SMC-F6C-687
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 $1.3 \times$ maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
	No breakage at $1.69 \times$ 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: 787mm h, 215mm 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-F6C-687/03	3	165	381	191	1.871	1.35914
SMC-F6C-687/04	4	210	508	254	2.495	1.35914
SMC-F6C-687/05	5	255	636	318	3.119	1.35914
SMC-F6C-687/06	6	300	763	381	3.742	1.35914
SMC-F6C-687/07	7	345	890	445	4.366	1.35914
SMC-F6C-687/08	8	390	1017	508	4.990	1.35914
SMC-F6C-687/09	9	435	1144	572	5.613	1.35914
SMC-F6C-687/10	10	480	1271	635	6.237	1.35914
SMC-F6C-687/11	11	525	1398	699	6.861	1.35914
SMC-F6C-687/12	12	570	1525	762	7.485	1.35914
SMC-F6C-687/13	13	615	1652	826	8.108	1.35914
SMC-F6C-687/14	14	660	1779	889	8.732	1.35914
SMC-F6C-687/15	15	705	1907	953	9.356	1.35914
SMC-F6C-687/16	16	750	2034	1016	9.979	1.35914
SMC-F6C-687/17	17	795	2161	1080	10.603	1.35914
SMC-F6C-687/18	18	840	2288	1143	11.227	1.35914
SMC-F6C-687/19	19	885	2415	1207	11.850	1.35914
SMC-F6C-687/20	20	930	2542	1270	12.474	1.35914
SMC-F6C-687/21	21	975	2669	1334	13.098	1.35914
SMC-F6C-687/22	22	1020	2796	1397	13.722	1.35914
SMC-F6C-687/23	23	1065	2923	1461	14.345	1.35914
SMC-F6C-687/24	24	1110	3050	1524	14.969	1.35914
SMC-F6C-687/25	25	1155	3178	1588	15.593	1.35914
SMC-F6C-687/26	26	1200	3305	1651	16.216	1.35914
SMC-F6C-687/27	27	1245	3432	1715	16.840	1.35914
SMC-F6C-687/28	28	1290	3559	1778	17.464	1.35914
SMC-F6C-687/29	29	1335	3686	1842	18.088	1.35914
SMC-F6C-687/30	30	1380	3813	1905	18.711	1.35914
SMC-F6C-687/31	31	1425	3940	1969	19.335	1.35914
SMC-F6C-687/32	32	1470	4067	2032	19.959	1.35914
SMC-F6C-687/33	33	1515	4194	2096	20.582	1.35914
SMC-F6C-687/34	34	1560	4321	2159	21.206	1.35914
SMC-F6C-687/35	35	1605	4449	2223	21.830	1.35914
SMC-F6C-687/36	36	1650	4576	2286	22.454	1.35914
SMC-F6C-687/37	37	1695	4703	2350	23.077	1.35914
SMC-F6C-687/38	38	1740	4830	2413	23.701	1.35914
SMC-F6C-687/39	39	1785	4957	2477	24.325	1.35914
SMC-F6C-687/40	40	1830	5084	2540	24.948	1.35914

