



# Declaration of Performance

No. 202009-1033

Florence 3 Column 685mm

<b>Unique product code:</b>	SMC-F3C-687
<b>Type, batch or serial number:</b>	SMC-F3C-687
<b>Intended use of the construction product:</b>	In heating systems in buildings
<b>Manufacturer:</b>	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
<b>System of AVCP:</b>	System 3
<b>Harmonized standard:</b>	EN 442-1:2014
<b>Notified body:</b>	CETIAT Domaine Scientifique de la Doua 25 Avenue des Arts BP 52042 69603 Villeurbanne France
<b>Test report number:</b>	ENE/MRT.ITPL.01004

## 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: 787mm h, 101mm 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-F3C-687/03	3	165	205	106	1.317	1.29027
SMC-F3C-687/04	4	210	273	142	1.756	1.29027
SMC-F3C-687/05	5	255	342	177	2.196	1.29027
SMC-F3C-687/06	6	300	410	212	2.635	1.29027
SMC-F3C-687/07	7	345	478	248	3.074	1.29027
SMC-F3C-687/08	8	390	546	283	3.513	1.29027
SMC-F3C-687/09	9	435	615	319	3.952	1.29027
SMC-F3C-687/10	10	480	683	354	4.391	1.29027
SMC-F3C-687/11	11	525	751	389	4.830	1.29027
SMC-F3C-687/12	12	570	820	425	5.269	1.29027
SMC-F3C-687/13	13	615	888	460	5.708	1.29027
SMC-F3C-687/14	14	660	956	496	6.147	1.29027
SMC-F3C-687/15	15	705	1025	531	6.587	1.29027
SMC-F3C-687/16	16	750	1093	566	7.026	1.29027
SMC-F3C-687/17	17	795	1161	602	7.465	1.29027
SMC-F3C-687/18	18	840	1229	637	7.904	1.29027
SMC-F3C-687/19	19	885	1298	673	8.343	1.29027
SMC-F3C-687/20	20	930	1366	708	8.782	1.29027
SMC-F3C-687/21	21	975	1434	743	9.221	1.29027
SMC-F3C-687/22	22	1020	1503	779	9.660	1.29027
SMC-F3C-687/23	23	1065	1571	814	10.099	1.29027
SMC-F3C-687/24	24	1110	1639	850	10.538	1.29027
SMC-F3C-687/25	25	1155	1708	885	10.978	1.29027
SMC-F3C-687/26	26	1200	1776	920	11.417	1.29027
SMC-F3C-687/27	27	1245	1844	956	11.856	1.29027
SMC-F3C-687/28	28	1290	1912	991	12.295	1.29027
SMC-F3C-687/29	29	1335	1981	1027	12.734	1.29027
SMC-F3C-687/30	30	1380	2049	1062	13.173	1.29027
SMC-F3C-687/31	31	1425	2117	1097	13.612	1.29027
SMC-F3C-687/32	32	1470	2186	1133	14.051	1.29027
SMC-F3C-687/33	33	1515	2254	1168	14.490	1.29027
SMC-F3C-687/34	34	1560	2322	1204	14.929	1.29027
SMC-F3C-687/35	35	1605	2391	1239	15.369	1.29027
SMC-F3C-687/36	36	1650	2459	1274	15.808	1.29027
SMC-F3C-687/37	37	1695	2527	1310	16.247	1.29027
SMC-F3C-687/38	38	1740	2595	1345	16.686	1.29027
SMC-F3C-687/39	39	1785	2664	1381	17.125	1.29027
SMC-F3C-687/40	40	1830	2732	1416	17.564	1.29027

