



# Declaration of Performance

No. 202009-1047

Florence 4 Column 600mm

<b>Unique product code:</b>	SMC-F4C-602
<b>Type, batch or serial number:</b>	SMC-F4C-602
<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.01005

## 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: 702mm h, 139mm 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-F4C-602/03	3	165	237	122	1.463	1.30044
SMC-F4C-602/04	4	210	316	163	1.951	1.30044
SMC-F4C-602/05	5	255	395	204	2.438	1.30044
SMC-F4C-602/06	6	300	474	244	2.926	1.30044
SMC-F4C-602/07	7	345	553	285	3.414	1.30044
SMC-F4C-602/08	8	390	632	326	3.901	1.30044
SMC-F4C-602/09	9	435	711	366	4.389	1.30044
SMC-F4C-602/10	10	480	790	407	4.877	1.30044
SMC-F4C-602/11	11	525	869	448	5.364	1.30044
SMC-F4C-602/12	12	570	948	488	5.852	1.30044
SMC-F4C-602/13	13	615	1027	529	6.339	1.30044
SMC-F4C-602/14	14	660	1106	570	6.827	1.30044
SMC-F4C-602/15	15	705	1185	611	7.315	1.30044
SMC-F4C-602/16	16	750	1264	651	7.802	1.30044
SMC-F4C-602/17	17	795	1343	692	8.290	1.30044
SMC-F4C-602/18	18	840	1422	733	8.778	1.30044
SMC-F4C-602/19	19	885	1501	773	9.265	1.30044
SMC-F4C-602/20	20	930	1580	814	9.753	1.30044
SMC-F4C-602/21	21	975	1659	855	10.241	1.30044
SMC-F4C-602/22	22	1020	1738	895	10.728	1.30044
SMC-F4C-602/23	23	1065	1817	936	11.216	1.30044
SMC-F4C-602/24	24	1110	1896	977	11.704	1.30044
SMC-F4C-602/25	25	1155	1975	1018	12.191	1.30044
SMC-F4C-602/26	26	1200	2054	1058	12.679	1.30044
SMC-F4C-602/27	27	1245	2133	1099	13.167	1.30044
SMC-F4C-602/28	28	1290	2212	1140	13.654	1.30044
SMC-F4C-602/29	29	1335	2291	1180	14.142	1.30044
SMC-F4C-602/30	30	1380	2370	1221	14.630	1.30044
SMC-F4C-602/31	31	1425	2449	1262	15.117	1.30044
SMC-F4C-602/32	32	1470	2528	1302	15.605	1.30044
SMC-F4C-602/33	33	1515	2607	1343	16.092	1.30044
SMC-F4C-602/34	34	1560	2686	1384	16.580	1.30044
SMC-F4C-602/35	35	1605	2765	1425	17.068	1.30044
SMC-F4C-602/36	36	1650	2844	1465	17.555	1.30044
SMC-F4C-602/37	37	1695	2923	1506	18.043	1.30044
SMC-F4C-602/38	38	1740	3002	1547	18.531	1.30044
SMC-F4C-602/39	39	1785	3081	1587	19.018	1.30044
SMC-F4C-602/40	40	1830	3160	1628	19.506	1.30044

