



Declaration of Performance

No. 202009-1039

Florence 4 Column 1800mm

Unique product code:	SMC-F4C-1802
Type, batch or serial number:	SMC-F4C-1802
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.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: 1902mm 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-1802/03	3	165	648	330	3.696	1.32078
SMC-F4C-1802/04	4	210	864	440	4.927	1.32078
SMC-F4C-1802/05	5	255	1080	550	6.159	1.32078
SMC-F4C-1802/06	6	300	1296	660	7.391	1.32078
SMC-F4C-1802/07	7	345	1512	770	8.623	1.32078
SMC-F4C-1802/08	8	390	1728	880	9.855	1.32078
SMC-F4C-1802/09	9	435	1944	990	11.087	1.32078
SMC-F4C-1802/10	10	480	2160	1100	12.318	1.32078
SMC-F4C-1802/11	11	525	2376	1210	13.550	1.32078
SMC-F4C-1802/12	12	570	2592	1320	14.782	1.32078
SMC-F4C-1802/13	13	615	2808	1430	16.014	1.32078
SMC-F4C-1802/14	14	660	3024	1540	17.246	1.32078
SMC-F4C-1802/15	15	705	3240	1650	18.478	1.32078
SMC-F4C-1802/16	16	750	3456	1760	19.709	1.32078
SMC-F4C-1802/17	17	795	3672	1870	20.941	1.32078
SMC-F4C-1802/18	18	840	3888	1980	22.173	1.32078
SMC-F4C-1802/19	19	885	4104	2090	23.405	1.32078
SMC-F4C-1802/20	20	930	4320	2200	24.637	1.32078
SMC-F4C-1802/21	21	975	4536	2310	25.869	1.32078
SMC-F4C-1802/22	22	1020	4752	2420	27.100	1.32078
SMC-F4C-1802/23	23	1065	4968	2530	28.332	1.32078
SMC-F4C-1802/24	24	1110	5184	2640	29.564	1.32078
SMC-F4C-1802/25	25	1155	5400	2750	30.796	1.32078
SMC-F4C-1802/26	26	1200	5616	2860	32.028	1.32078
SMC-F4C-1802/27	27	1245	5832	2970	33.260	1.32078
SMC-F4C-1802/28	28	1290	6048	3080	34.492	1.32078
SMC-F4C-1802/29	29	1335	6264	3190	35.723	1.32078
SMC-F4C-1802/30	30	1380	6480	3300	36.955	1.32078
SMC-F4C-1802/31	31	1425	6696	3410	38.187	1.32078
SMC-F4C-1802/32	32	1470	6912	3520	39.419	1.32078
SMC-F4C-1802/33	33	1515	7128	3630	40.651	1.32078
SMC-F4C-1802/34	34	1560	7344	3740	41.883	1.32078
SMC-F4C-1802/35	35	1605	7560	3850	43.114	1.32078
SMC-F4C-1802/36	36	1650	7776	3960	44.346	1.32078
SMC-F4C-1802/37	37	1695	7992	4070	45.578	1.32078
SMC-F4C-1802/38	38	1740	8208	4180	46.810	1.32078
SMC-F4C-1802/39	39	1785	8424	4290	48.042	1.32078
SMC-F4C-1802/40	40	1830	8640	4400	49.274	1.32078

