



# Declaration of Performance

No. 202009-1006

Florence 2 Column 1000mm

<b>Unique product code:</b>	SMC-F2C-1002
<b>Type, batch or serial number:</b>	SMC-F2C-1002
<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.RES.01003_A

## 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: 1102mm h, 65mm 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-F2C-1002/03	3	165	208	107	1.315	1.29404
SMC-F2C-1002/04	4	210	277	143	1.753	1.29404
SMC-F2C-1002/05	5	255	346	179	2.191	1.29404
SMC-F2C-1002/06	6	300	415	214	2.629	1.29404
SMC-F2C-1002/07	7	345	484	250	3.068	1.29404
SMC-F2C-1002/08	8	390	554	286	3.506	1.29404
SMC-F2C-1002/09	9	435	623	321	3.944	1.29404
SMC-F2C-1002/10	10	480	692	357	4.382	1.29404
SMC-F2C-1002/11	11	525	761	393	4.821	1.29404
SMC-F2C-1002/12	12	570	830	428	5.259	1.29404
SMC-F2C-1002/13	13	615	900	464	5.697	1.29404
SMC-F2C-1002/14	14	660	969	500	6.135	1.29404
SMC-F2C-1002/15	15	705	1038	536	6.573	1.29404
SMC-F2C-1002/16	16	750	1107	571	7.012	1.29404
SMC-F2C-1002/17	17	795	1176	607	7.450	1.29404
SMC-F2C-1002/18	18	840	1246	643	7.888	1.29404
SMC-F2C-1002/19	19	885	1315	678	8.326	1.29404
SMC-F2C-1002/20	20	930	1384	714	8.765	1.29404
SMC-F2C-1002/21	21	975	1453	750	9.203	1.29404
SMC-F2C-1002/22	22	1020	1522	785	9.641	1.29404
SMC-F2C-1002/23	23	1065	1592	821	10.079	1.29404
SMC-F2C-1002/24	24	1110	1661	857	10.518	1.29404
SMC-F2C-1002/25	25	1155	1730	893	10.956	1.29404
SMC-F2C-1002/26	26	1200	1799	928	11.394	1.29404
SMC-F2C-1002/27	27	1245	1868	964	11.832	1.29404
SMC-F2C-1002/28	28	1290	1938	1000	12.270	1.29404
SMC-F2C-1002/29	29	1335	2007	1035	12.709	1.29404
SMC-F2C-1002/30	30	1380	2076	1071	13.147	1.29404
SMC-F2C-1002/31	31	1425	2145	1107	13.585	1.29404
SMC-F2C-1002/32	32	1470	2214	1142	14.023	1.29404
SMC-F2C-1002/33	33	1515	2284	1178	14.462	1.29404
SMC-F2C-1002/34	34	1560	2353	1214	14.900	1.29404
SMC-F2C-1002/35	35	1605	2422	1250	15.338	1.29404
SMC-F2C-1002/36	36	1650	2491	1285	15.776	1.29404
SMC-F2C-1002/37	37	1695	2560	1321	16.215	1.29404
SMC-F2C-1002/38	38	1740	2630	1357	16.653	1.29404
SMC-F2C-1002/39	39	1785	2699	1392	17.091	1.29404
SMC-F2C-1002/40	40	1830	2768	1428	17.529	1.29404

