



Declaration of Performance

No. 202009-1066

Florence 6 Column 1000mm

Unique product code:	SMC-F6C-1002
Type, batch or serial number:	SMC-F6C-1002
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 × 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, 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-1002/03	3	165	537	264	2.356	1.38772
SMC-F6C-1002/04	4	210	716	352	3.141	1.38772
SMC-F6C-1002/05	5	255	895	441	3.926	1.38772
SMC-F6C-1002/06	6	300	1073	529	4.711	1.38772
SMC-F6C-1002/07	7	345	1252	617	5.496	1.38772
SMC-F6C-1002/08	8	390	1431	705	6.281	1.38772
SMC-F6C-1002/09	9	435	1610	793	7.067	1.38772
SMC-F6C-1002/10	10	480	1789	881	7.852	1.38772
SMC-F6C-1002/11	11	525	1968	969	8.637	1.38772
SMC-F6C-1002/12	12	570	2147	1057	9.422	1.38772
SMC-F6C-1002/13	13	615	2326	1145	10.207	1.38772
SMC-F6C-1002/14	14	660	2505	1233	10.992	1.38772
SMC-F6C-1002/15	15	705	2684	1322	11.778	1.38772
SMC-F6C-1002/16	16	750	2862	1410	12.563	1.38772
SMC-F6C-1002/17	17	795	3041	1498	13.348	1.38772
SMC-F6C-1002/18	18	840	3220	1586	14.133	1.38772
SMC-F6C-1002/19	19	885	3399	1674	14.918	1.38772
SMC-F6C-1002/20	20	930	3578	1762	15.703	1.38772
SMC-F6C-1002/21	21	975	3757	1850	16.489	1.38772
SMC-F6C-1002/22	22	1020	3936	1938	17.274	1.38772
SMC-F6C-1002/23	23	1065	4115	2026	18.059	1.38772
SMC-F6C-1002/24	24	1110	4294	2114	18.844	1.38772
SMC-F6C-1002/25	25	1155	4473	2203	19.629	1.38772
SMC-F6C-1002/26	26	1200	4651	2291	20.414	1.38772
SMC-F6C-1002/27	27	1245	4830	2379	21.200	1.38772
SMC-F6C-1002/28	28	1290	5009	2467	21.985	1.38772
SMC-F6C-1002/29	29	1335	5188	2555	22.770	1.38772
SMC-F6C-1002/30	30	1380	5367	2643	23.555	1.38772
SMC-F6C-1002/31	31	1425	5546	2731	24.340	1.38772
SMC-F6C-1002/32	32	1470	5725	2819	25.125	1.38772
SMC-F6C-1002/33	33	1515	5904	2907	25.911	1.38772
SMC-F6C-1002/34	34	1560	6083	2995	26.696	1.38772
SMC-F6C-1002/35	35	1605	6262	3084	27.481	1.38772
SMC-F6C-1002/36	36	1650	6440	3172	28.266	1.38772
SMC-F6C-1002/37	37	1695	6619	3260	29.051	1.38772
SMC-F6C-1002/38	38	1740	6798	3348	29.836	1.38772
SMC-F6C-1002/39	39	1785	6977	3436	30.622	1.38772
SMC-F6C-1002/40	40	1830	7156	3524	31.407	1.38772

