



Declaration of Performance

No. 202009-1060

Florence 5 Column 400mm

Unique product code:	SMC-F5C-402
Type, batch or serial number:	SMC-F5C-402
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: 502mm h, 177mm 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-F5C-402/03	3	165	200	103	1.278	1.29118
SMC-F5C-402/04	4	210	266	138	1.704	1.29118
SMC-F5C-402/05	5	255	333	172	2.130	1.29118
SMC-F5C-402/06	6	300	399	206	2.556	1.29118
SMC-F5C-402/07	7	345	466	241	2.982	1.29118
SMC-F5C-402/08	8	390	532	275	3.408	1.29118
SMC-F5C-402/09	9	435	599	310	3.834	1.29118
SMC-F5C-402/10	10	480	665	344	4.260	1.29118
SMC-F5C-402/11	11	525	732	378	4.686	1.29118
SMC-F5C-402/12	12	570	798	413	5.112	1.29118
SMC-F5C-402/13	13	615	865	447	5.538	1.29118
SMC-F5C-402/14	14	660	931	482	5.964	1.29118
SMC-F5C-402/15	15	705	998	516	6.390	1.29118
SMC-F5C-402/16	16	750	1064	550	6.816	1.29118
SMC-F5C-402/17	17	795	1131	585	7.242	1.29118
SMC-F5C-402/18	18	840	1197	619	7.668	1.29118
SMC-F5C-402/19	19	885	1264	654	8.094	1.29118
SMC-F5C-402/20	20	930	1330	688	8.520	1.29118
SMC-F5C-402/21	21	975	1397	722	8.946	1.29118
SMC-F5C-402/22	22	1020	1463	757	9.372	1.29118
SMC-F5C-402/23	23	1065	1530	791	9.798	1.29118
SMC-F5C-402/24	24	1110	1596	826	10.224	1.29118
SMC-F5C-402/25	25	1155	1663	860	10.650	1.29118
SMC-F5C-402/26	26	1200	1729	894	11.076	1.29118
SMC-F5C-402/27	27	1245	1796	929	11.502	1.29118
SMC-F5C-402/28	28	1290	1862	963	11.928	1.29118
SMC-F5C-402/29	29	1335	1929	998	12.354	1.29118
SMC-F5C-402/30	30	1380	1995	1032	12.780	1.29118
SMC-F5C-402/31	31	1425	2062	1066	13.206	1.29118
SMC-F5C-402/32	32	1470	2128	1101	13.632	1.29118
SMC-F5C-402/33	33	1515	2195	1135	14.058	1.29118
SMC-F5C-402/34	34	1560	2261	1170	14.484	1.29118
SMC-F5C-402/35	35	1605	2328	1204	14.910	1.29118
SMC-F5C-402/36	36	1650	2394	1238	15.336	1.29118
SMC-F5C-402/37	37	1695	2461	1273	15.762	1.29118
SMC-F5C-402/38	38	1740	2527	1307	16.188	1.29118
SMC-F5C-402/39	39	1785	2594	1342	16.614	1.29118
SMC-F5C-402/40	40	1830	2660	1376	17.040	1.29118

