



Declaration of Performance

No. 202009-1065

Florence 5 Column 900mm

Unique product code:	SMC-F5C-902
Type, batch or serial number:	SMC-F5C-902
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: 1002mm 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-902/03	3	165	416	206	1.958	1.36944
SMC-F5C-902/04	4	210	554	275	2.611	1.36944
SMC-F5C-902/05	5	255	693	344	3.264	1.36944
SMC-F5C-902/06	6	300	831	413	3.917	1.36944
SMC-F5C-902/07	7	345	970	482	4.569	1.36944
SMC-F5C-902/08	8	390	1108	550	5.222	1.36944
SMC-F5C-902/09	9	435	1247	619	5.875	1.36944
SMC-F5C-902/10	10	480	1385	688	6.528	1.36944
SMC-F5C-902/11	11	525	1524	757	7.180	1.36944
SMC-F5C-902/12	12	570	1662	826	7.833	1.36944
SMC-F5C-902/13	13	615	1801	894	8.486	1.36944
SMC-F5C-902/14	14	660	1939	963	9.139	1.36944
SMC-F5C-902/15	15	705	2078	1032	9.791	1.36944
SMC-F5C-902/16	16	750	2216	1101	10.444	1.36944
SMC-F5C-902/17	17	795	2355	1170	11.097	1.36944
SMC-F5C-902/18	18	840	2493	1238	11.750	1.36944
SMC-F5C-902/19	19	885	2632	1307	12.402	1.36944
SMC-F5C-902/20	20	930	2770	1376	13.055	1.36944
SMC-F5C-902/21	21	975	2909	1445	13.708	1.36944
SMC-F5C-902/22	22	1020	3047	1514	14.361	1.36944
SMC-F5C-902/23	23	1065	3186	1582	15.013	1.36944
SMC-F5C-902/24	24	1110	3324	1651	15.666	1.36944
SMC-F5C-902/25	25	1155	3463	1720	16.319	1.36944
SMC-F5C-902/26	26	1200	3601	1789	16.972	1.36944
SMC-F5C-902/27	27	1245	3740	1858	17.624	1.36944
SMC-F5C-902/28	28	1290	3878	1926	18.277	1.36944
SMC-F5C-902/29	29	1335	4017	1995	18.930	1.36944
SMC-F5C-902/30	30	1380	4155	2064	19.583	1.36944
SMC-F5C-902/31	31	1425	4294	2133	20.235	1.36944
SMC-F5C-902/32	32	1470	4432	2202	20.888	1.36944
SMC-F5C-902/33	33	1515	4571	2270	21.541	1.36944
SMC-F5C-902/34	34	1560	4709	2339	22.194	1.36944
SMC-F5C-902/35	35	1605	4848	2408	22.846	1.36944
SMC-F5C-902/36	36	1650	4986	2477	23.499	1.36944
SMC-F5C-902/37	37	1695	5125	2546	24.152	1.36944
SMC-F5C-902/38	38	1740	5263	2614	24.805	1.36944
SMC-F5C-902/39	39	1785	5402	2683	25.457	1.36944
SMC-F5C-902/40	40	1830	5540	2752	26.110	1.36944

