



Declaration of Performance

No. 202009-1059

Florence 5 Column 300mm

Unique product code:	SMC-F5C-302
Type, batch or serial number:	SMC-F5C-302
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: 402mm 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-302/03	3	165	154	80	1.050	1.27553
SMC-F5C-302/04	4	210	206	107	1.399	1.27553
SMC-F5C-302/05	5	255	257	134	1.749	1.27553
SMC-F5C-302/06	6	300	308	161	2.099	1.27553
SMC-F5C-302/07	7	345	360	188	2.449	1.27553
SMC-F5C-302/08	8	390	411	214	2.799	1.27553
SMC-F5C-302/09	9	435	463	241	3.149	1.27553
SMC-F5C-302/10	10	480	514	268	3.498	1.27553
SMC-F5C-302/11	11	525	565	295	3.848	1.27553
SMC-F5C-302/12	12	570	617	322	4.198	1.27553
SMC-F5C-302/13	13	615	668	348	4.548	1.27553
SMC-F5C-302/14	14	660	720	375	4.898	1.27553
SMC-F5C-302/15	15	705	771	402	5.248	1.27553
SMC-F5C-302/16	16	750	822	429	5.597	1.27553
SMC-F5C-302/17	17	795	874	456	5.947	1.27553
SMC-F5C-302/18	18	840	925	482	6.297	1.27553
SMC-F5C-302/19	19	885	977	509	6.647	1.27553
SMC-F5C-302/20	20	930	1028	536	6.997	1.27553
SMC-F5C-302/21	21	975	1079	563	7.347	1.27553
SMC-F5C-302/22	22	1020	1131	590	7.696	1.27553
SMC-F5C-302/23	23	1065	1182	616	8.046	1.27553
SMC-F5C-302/24	24	1110	1234	643	8.396	1.27553
SMC-F5C-302/25	25	1155	1285	670	8.746	1.27553
SMC-F5C-302/26	26	1200	1336	697	9.096	1.27553
SMC-F5C-302/27	27	1245	1388	724	9.446	1.27553
SMC-F5C-302/28	28	1290	1439	750	9.796	1.27553
SMC-F5C-302/29	29	1335	1491	777	10.145	1.27553
SMC-F5C-302/30	30	1380	1542	804	10.495	1.27553
SMC-F5C-302/31	31	1425	1593	831	10.845	1.27553
SMC-F5C-302/32	32	1470	1645	858	11.195	1.27553
SMC-F5C-302/33	33	1515	1696	884	11.545	1.27553
SMC-F5C-302/34	34	1560	1748	911	11.895	1.27553
SMC-F5C-302/35	35	1605	1799	938	12.244	1.27553
SMC-F5C-302/36	36	1650	1850	965	12.594	1.27553
SMC-F5C-302/37	37	1695	1902	992	12.944	1.27553
SMC-F5C-302/38	38	1740	1953	1018	13.294	1.27553
SMC-F5C-302/39	39	1785	2005	1045	13.644	1.27553
SMC-F5C-302/40	40	1830	2056	1072	13.994	1.27553

