



Declaration of Performance

No. 202009-1055

Florence 5 Column 200mm

Unique product code:	SMC-F5C-194
Type, batch or serial number:	SMC-F5C-194
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 $1.3 \times$ maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
	No breakage at $1.69 \times$ 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: 294mm 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-194/03	3	165	95	48	0.483	1.35025
SMC-F5C-194/04	4	210	127	64	0.644	1.35025
SMC-F5C-194/05	5	255	159	80	0.805	1.35025
SMC-F5C-194/06	6	300	190	95	0.966	1.35025
SMC-F5C-194/07	7	345	222	111	1.127	1.35025
SMC-F5C-194/08	8	390	254	127	1.288	1.35025
SMC-F5C-194/09	9	435	285	143	1.449	1.35025
SMC-F5C-194/10	10	480	317	159	1.610	1.35025
SMC-F5C-194/11	11	525	349	175	1.771	1.35025
SMC-F5C-194/12	12	570	380	191	1.932	1.35025
SMC-F5C-194/13	13	615	412	207	2.093	1.35025
SMC-F5C-194/14	14	660	444	223	2.254	1.35025
SMC-F5C-194/15	15	705	476	239	2.415	1.35025
SMC-F5C-194/16	16	750	507	254	2.576	1.35025
SMC-F5C-194/17	17	795	539	270	2.736	1.35025
SMC-F5C-194/18	18	840	571	286	2.897	1.35025
SMC-F5C-194/19	19	885	602	302	3.058	1.35025
SMC-F5C-194/20	20	930	634	318	3.219	1.35025
SMC-F5C-194/21	21	975	666	334	3.380	1.35025
SMC-F5C-194/22	22	1020	697	350	3.541	1.35025
SMC-F5C-194/23	23	1065	729	366	3.702	1.35025
SMC-F5C-194/24	24	1110	761	382	3.863	1.35025
SMC-F5C-194/25	25	1155	793	398	4.024	1.35025
SMC-F5C-194/26	26	1200	824	413	4.185	1.35025
SMC-F5C-194/27	27	1245	856	429	4.346	1.35025
SMC-F5C-194/28	28	1290	888	445	4.507	1.35025
SMC-F5C-194/29	29	1335	919	461	4.668	1.35025
SMC-F5C-194/30	30	1380	951	477	4.829	1.35025
SMC-F5C-194/31	31	1425	983	493	4.990	1.35025
SMC-F5C-194/32	32	1470	1014	509	5.151	1.35025
SMC-F5C-194/33	33	1515	1046	525	5.312	1.35025
SMC-F5C-194/34	34	1560	1078	541	5.473	1.35025
SMC-F5C-194/35	35	1605	1110	557	5.634	1.35025
SMC-F5C-194/36	36	1650	1141	572	5.795	1.35025
SMC-F5C-194/37	37	1695	1173	588	5.956	1.35025
SMC-F5C-194/38	38	1740	1205	604	6.117	1.35025
SMC-F5C-194/39	39	1785	1236	620	6.278	1.35025
SMC-F5C-194/40	40	1830	1268	636	6.439	1.35025

