

Declaration of Performance

No. 202009-1025

Florence 3 Column 200mm

Unique product code:	SMC-F3C-194
Type, batch or serial number:	SMC-F3C-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.ITPL.01004

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, 101mm 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-F3C-194/03	3	165	61	32	0.394	1.28832
SMC-F3C-194/04	4	210	81	42	0.525	1.28832
SMC-F3C-194/05	5	255	102	53	0.657	1.28832
SMC-F3C-194/06	6	300	122	63	0.788	1.28832
SMC-F3C-194/07	7	345	142	74	0.920	1.28832
SMC-F3C-194/08	8	390	162	84	1.051	1.28832
SMC-F3C-194/09	9	435	183	95	1.182	1.28832
SMC-F3C-194/10	10	480	203	105	1.314	1.28832
SMC-F3C-194/11	11	525	223	116	1.445	1.28832
SMC-F3C-194/12	12	570	244	126	1.576	1.28832
SMC-F3C-194/13	13	615	264	137	1.708	1.28832
SMC-F3C-194/14	14	660	284	147	1.839	1.28832
SMC-F3C-194/15	15	705	305	158	1.970	1.28832
SMC-F3C-194/16	16	750	325	168	2.102	1.28832
SMC-F3C-194/17	17	795	345	179	2.233	1.28832
SMC-F3C-194/18	18	840	365	189	2.364	1.28832
SMC-F3C-194/19	19	885	386	200	2.496	1.28832
SMC-F3C-194/20	20	930	406	210	2.627	1.28832
SMC-F3C-194/21	21	975	426	221	2.759	1.28832
SMC-F3C-194/22	22	1020	447	231	2.890	1.28832
SMC-F3C-194/23	23	1065	467	242	3.021	1.28832
SMC-F3C-194/24	24	1110	487	252	3.153	1.28832
SMC-F3C-194/25	25	1155	508	263	3.284	1.28832
SMC-F3C-194/26	26	1200	528	273	3.415	1.28832
SMC-F3C-194/27	27	1245	548	284	3.547	1.28832
SMC-F3C-194/28	28	1290	568	294	3.678	1.28832
SMC-F3C-194/29	29	1335	589	305	3.809	1.28832
SMC-F3C-194/30	30	1380	609	315	3.941	1.28832
SMC-F3C-194/31	31	1425	629	326	4.072	1.28832
SMC-F3C-194/32	32	1470	650	336	4.204	1.28832
SMC-F3C-194/33	33	1515	670	347	4.335	1.28832
SMC-F3C-194/34	34	1560	690	357	4.466	1.28832
SMC-F3C-194/35	35	1605	711	368	4.598	1.28832
SMC-F3C-194/36	36	1650	731	378	4.729	1.28832
SMC-F3C-194/37	37	1695	751	389	4.860	1.28832
SMC-F3C-194/38	38	1740	771	399	4.992	1.28832
SMC-F3C-194/39	39	1785	792	410	5.123	1.28832
SMC-F3C-194/40	40	1830	812	420	5.254	1.28832

