



Declaration of Performance

No. 202009-1010

Florence 2 Column 200mm

Unique product code:	SMC-F2C-194
Type, batch or serial number:	SMC-F2C-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_A

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: 294mm h, 65mm 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-F2C-194/03	3	165	45	24	0.334	1.25221
SMC-F2C-194/04	4	210	60	32	0.445	1.25221
SMC-F2C-194/05	5	255	75	40	0.556	1.25221
SMC-F2C-194/06	6	300	89	47	0.667	1.25221
SMC-F2C-194/07	7	345	104	55	0.778	1.25221
SMC-F2C-194/08	8	390	119	63	0.890	1.25221
SMC-F2C-194/09	9	435	134	71	1.001	1.25221
SMC-F2C-194/10	10	480	149	79	1.112	1.25221
SMC-F2C-194/11	11	525	164	87	1.223	1.25221
SMC-F2C-194/12	12	570	179	95	1.334	1.25221
SMC-F2C-194/13	13	615	194	103	1.445	1.25221
SMC-F2C-194/14	14	660	209	111	1.557	1.25221
SMC-F2C-194/15	15	705	224	119	1.668	1.25221
SMC-F2C-194/16	16	750	238	126	1.779	1.25221
SMC-F2C-194/17	17	795	253	134	1.890	1.25221
SMC-F2C-194/18	18	840	268	142	2.001	1.25221
SMC-F2C-194/19	19	885	283	150	2.113	1.25221
SMC-F2C-194/20	20	930	298	158	2.224	1.25221
SMC-F2C-194/21	21	975	313	166	2.335	1.25221
SMC-F2C-194/22	22	1020	328	174	2.446	1.25221
SMC-F2C-194/23	23	1065	343	182	2.557	1.25221
SMC-F2C-194/24	24	1110	358	190	2.669	1.25221
SMC-F2C-194/25	25	1155	373	198	2.780	1.25221
SMC-F2C-194/26	26	1200	387	205	2.891	1.25221
SMC-F2C-194/27	27	1245	402	213	3.002	1.25221
SMC-F2C-194/28	28	1290	417	221	3.113	1.25221
SMC-F2C-194/29	29	1335	432	229	3.225	1.25221
SMC-F2C-194/30	30	1380	447	237	3.336	1.25221
SMC-F2C-194/31	31	1425	462	245	3.447	1.25221
SMC-F2C-194/32	32	1470	477	253	3.558	1.25221
SMC-F2C-194/33	33	1515	492	261	3.669	1.25221
SMC-F2C-194/34	34	1560	507	269	3.780	1.25221
SMC-F2C-194/35	35	1605	522	277	3.892	1.25221
SMC-F2C-194/36	36	1650	536	284	4.003	1.25221
SMC-F2C-194/37	37	1695	551	292	4.114	1.25221
SMC-F2C-194/38	38	1740	566	300	4.225	1.25221
SMC-F2C-194/39	39	1785	581	308	4.336	1.25221
SMC-F2C-194/40	40	1830	596	316	4.448	1.25221

