



Declaration of Performance

No. 202009-1027

Florence 3 Column 2200mm

Unique product code:	SMC-F3C-2202
Type, batch or serial number:	SMC-F3C-2202
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: 2302mm 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-2202/03	3	165	617	316	3.665	1.31033
SMC-F3C-2202/04	4	210	823	421	4.887	1.31033
SMC-F3C-2202/05	5	255	1029	527	6.108	1.31033
SMC-F3C-2202/06	6	300	1234	632	7.330	1.31033
SMC-F3C-2202/07	7	345	1440	737	8.552	1.31033
SMC-F3C-2202/08	8	390	1646	842	9.773	1.31033
SMC-F3C-2202/09	9	435	1851	948	10.995	1.31033
SMC-F3C-2202/10	10	480	2057	1053	12.217	1.31033
SMC-F3C-2202/11	11	525	2263	1158	13.438	1.31033
SMC-F3C-2202/12	12	570	2468	1264	14.660	1.31033
SMC-F3C-2202/13	13	615	2674	1369	15.881	1.31033
SMC-F3C-2202/14	14	660	2880	1474	17.103	1.31033
SMC-F3C-2202/15	15	705	3086	1580	18.325	1.31033
SMC-F3C-2202/16	16	750	3291	1685	19.546	1.31033
SMC-F3C-2202/17	17	795	3497	1790	20.768	1.31033
SMC-F3C-2202/18	18	840	3703	1895	21.990	1.31033
SMC-F3C-2202/19	19	885	3908	2001	23.211	1.31033
SMC-F3C-2202/20	20	930	4114	2106	24.433	1.31033
SMC-F3C-2202/21	21	975	4320	2211	25.655	1.31033
SMC-F3C-2202/22	22	1020	4525	2317	26.876	1.31033
SMC-F3C-2202/23	23	1065	4731	2422	28.098	1.31033
SMC-F3C-2202/24	24	1110	4937	2527	29.320	1.31033
SMC-F3C-2202/25	25	1155	5143	2633	30.541	1.31033
SMC-F3C-2202/26	26	1200	5348	2738	31.763	1.31033
SMC-F3C-2202/27	27	1245	5554	2843	32.985	1.31033
SMC-F3C-2202/28	28	1290	5760	2948	34.206	1.31033
SMC-F3C-2202/29	29	1335	5965	3054	35.428	1.31033
SMC-F3C-2202/30	30	1380	6171	3159	36.650	1.31033
SMC-F3C-2202/31	31	1425	6377	3264	37.871	1.31033
SMC-F3C-2202/32	32	1470	6582	3370	39.093	1.31033
SMC-F3C-2202/33	33	1515	6788	3475	40.314	1.31033
SMC-F3C-2202/34	34	1560	6994	3580	41.536	1.31033
SMC-F3C-2202/35	35	1605	7200	3686	42.758	1.31033
SMC-F3C-2202/36	36	1650	7405	3791	43.979	1.31033
SMC-F3C-2202/37	37	1695	7611	3896	45.201	1.31033
SMC-F3C-2202/38	38	1740	7817	4001	46.423	1.31033
SMC-F3C-2202/39	39	1785	8022	4107	47.644	1.31033
SMC-F3C-2202/40	40	1830	8228	4212	48.866	1.31033

