



# Declaration of Performance

No. 202009-1042

Florence 4 Column 2200mm

<b>Unique product code:</b>	SMC-F4C-2202
<b>Type, batch or serial number:</b>	SMC-F4C-2202
<b>Intended use of the construction product:</b>	In heating systems in buildings
<b>Manufacturer:</b>	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
<b>System of AVCP:</b>	System 3
<b>Harmonized standard:</b>	EN 442-1:2014
<b>Notified body:</b>	CETIAT Domaine Scientifique de la Doua 25 Avenue des Arts BP 52042 69603 Villeurbanne France
<b>Test report number:</b>	ENE/MRT.ITPL.01005

## 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: 2302mm h, 139mm 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-F4C-2202/03	3	165	780	399	4.599	1.31229
SMC-F4C-2202/04	4	210	1040	532	6.131	1.31229
SMC-F4C-2202/05	5	255	1300	665	7.664	1.31229
SMC-F4C-2202/06	6	300	1560	798	9.197	1.31229
SMC-F4C-2202/07	7	345	1820	931	10.730	1.31229
SMC-F4C-2202/08	8	390	2080	1064	12.263	1.31229
SMC-F4C-2202/09	9	435	2340	1197	13.796	1.31229
SMC-F4C-2202/10	10	480	2600	1330	15.329	1.31229
SMC-F4C-2202/11	11	525	2860	1463	16.862	1.31229
SMC-F4C-2202/12	12	570	3120	1596	18.394	1.31229
SMC-F4C-2202/13	13	615	3380	1729	19.927	1.31229
SMC-F4C-2202/14	14	660	3640	1862	21.460	1.31229
SMC-F4C-2202/15	15	705	3900	1995	22.993	1.31229
SMC-F4C-2202/16	16	750	4160	2128	24.526	1.31229
SMC-F4C-2202/17	17	795	4420	2261	26.059	1.31229
SMC-F4C-2202/18	18	840	4680	2394	27.592	1.31229
SMC-F4C-2202/19	19	885	4940	2527	29.125	1.31229
SMC-F4C-2202/20	20	930	5200	2660	30.657	1.31229
SMC-F4C-2202/21	21	975	5460	2793	32.190	1.31229
SMC-F4C-2202/22	22	1020	5720	2926	33.723	1.31229
SMC-F4C-2202/23	23	1065	5980	3059	35.256	1.31229
SMC-F4C-2202/24	24	1110	6240	3192	36.789	1.31229
SMC-F4C-2202/25	25	1155	6500	3325	38.322	1.31229
SMC-F4C-2202/26	26	1200	6760	3458	39.855	1.31229
SMC-F4C-2202/27	27	1245	7020	3591	41.387	1.31229
SMC-F4C-2202/28	28	1290	7280	3724	42.920	1.31229
SMC-F4C-2202/29	29	1335	7540	3857	44.453	1.31229
SMC-F4C-2202/30	30	1380	7800	3990	45.986	1.31229
SMC-F4C-2202/31	31	1425	8060	4123	47.519	1.31229
SMC-F4C-2202/32	32	1470	8320	4256	49.052	1.31229
SMC-F4C-2202/33	33	1515	8580	4389	50.585	1.31229
SMC-F4C-2202/34	34	1560	8840	4522	52.118	1.31229
SMC-F4C-2202/35	35	1605	9100	4655	53.650	1.31229
SMC-F4C-2202/36	36	1650	9360	4788	55.183	1.31229
SMC-F4C-2202/37	37	1695	9620	4921	56.716	1.31229
SMC-F4C-2202/38	38	1740	9880	5054	58.249	1.31229
SMC-F4C-2202/39	39	1785	10140	5187	59.782	1.31229
SMC-F4C-2202/40	40	1830	10400	5320	61.315	1.31229

