



# Declaration of Performance

*No. 202009-1043*

Florence 4 Column 2500mm

<b>Unique product code:</b>	SMC-F4C-2502
<b>Type, batch or serial number:</b>	SMC-F4C-2502
<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	
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]	EN 442–1:2014
Rated thermal outputs	Maximum operating pressure: 1000 [kPa]	
Thermal output in different operating conditions (characteristic curve)	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: 2602mm 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-2502/03	3	165	878	451	5.308	1.30592
SMC-F4C-2502/04	4	210	1171	601	7.077	1.30592
SMC-F4C-2502/05	5	255	1464	751	8.846	1.30592
SMC-F4C-2502/06	6	300	1757	901	10.616	1.30592
SMC-F4C-2502/07	7	345	2050	1051	12.385	1.30592
SMC-F4C-2502/08	8	390	2342	1202	14.154	1.30592
SMC-F4C-2502/09	9	435	2635	1352	15.923	1.30592
SMC-F4C-2502/10	10	480	2928	1502	17.693	1.30592
SMC-F4C-2502/11	11	525	3221	1652	19.462	1.30592
SMC-F4C-2502/12	12	570	3514	1802	21.231	1.30592
SMC-F4C-2502/13	13	615	3806	1953	23.000	1.30592
SMC-F4C-2502/14	14	660	4099	2103	24.770	1.30592
SMC-F4C-2502/15	15	705	4392	2253	26.539	1.30592
SMC-F4C-2502/16	16	750	4685	2403	28.308	1.30592
SMC-F4C-2502/17	17	795	4978	2553	30.077	1.30592
SMC-F4C-2502/18	18	840	5270	2704	31.847	1.30592
SMC-F4C-2502/19	19	885	5563	2854	33.616	1.30592
SMC-F4C-2502/20	20	930	5856	3004	35.385	1.30592
SMC-F4C-2502/21	21	975	6149	3154	37.154	1.30592
SMC-F4C-2502/22	22	1020	6442	3304	38.924	1.30592
SMC-F4C-2502/23	23	1065	6734	3455	40.693	1.30592
SMC-F4C-2502/24	24	1110	7027	3605	42.462	1.30592
SMC-F4C-2502/25	25	1155	7320	3755	44.232	1.30592
SMC-F4C-2502/26	26	1200	7613	3905	46.001	1.30592
SMC-F4C-2502/27	27	1245	7906	4055	47.770	1.30592
SMC-F4C-2502/28	28	1290	8198	4206	49.539	1.30592
SMC-F4C-2502/29	29	1335	8491	4356	51.309	1.30592
SMC-F4C-2502/30	30	1380	8784	4506	53.078	1.30592
SMC-F4C-2502/31	31	1425	9077	4656	54.847	1.30592
SMC-F4C-2502/32	32	1470	9370	4806	56.616	1.30592
SMC-F4C-2502/33	33	1515	9662	4957	58.386	1.30592
SMC-F4C-2502/34	34	1560	9955	5107	60.155	1.30592
SMC-F4C-2502/35	35	1605	10248	5257	61.924	1.30592
SMC-F4C-2502/36	36	1650	10541	5407	63.693	1.30592
SMC-F4C-2502/37	37	1695	10834	5557	65.463	1.30592
SMC-F4C-2502/38	38	1740	11126	5708	67.232	1.30592
SMC-F4C-2502/39	39	1785	11419	5858	69.001	1.30592
SMC-F4C-2502/40	40	1830	11712	6008	70.770	1.30592

