



# Declaration of Performance

No. 202009-1046

Florence 4 Column 500mm

<b>Unique product code:</b>	SMC-F4C-502
<b>Type, batch or serial number:</b>	SMC-F4C-502
<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: 602mm 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-502/03	3	165	201	104	1.310	1.28633
SMC-F4C-502/04	4	210	268	139	1.746	1.28633
SMC-F4C-502/05	5	255	335	174	2.183	1.28633
SMC-F4C-502/06	6	300	401	208	2.619	1.28633
SMC-F4C-502/07	7	345	468	243	3.056	1.28633
SMC-F4C-502/08	8	390	535	278	3.492	1.28633
SMC-F4C-502/09	9	435	602	312	3.929	1.28633
SMC-F4C-502/10	10	480	669	347	4.365	1.28633
SMC-F4C-502/11	11	525	736	382	4.802	1.28633
SMC-F4C-502/12	12	570	803	416	5.238	1.28633
SMC-F4C-502/13	13	615	870	451	5.675	1.28633
SMC-F4C-502/14	14	660	937	486	6.111	1.28633
SMC-F4C-502/15	15	705	1004	521	6.548	1.28633
SMC-F4C-502/16	16	750	1070	555	6.984	1.28633
SMC-F4C-502/17	17	795	1137	590	7.421	1.28633
SMC-F4C-502/18	18	840	1204	625	7.857	1.28633
SMC-F4C-502/19	19	885	1271	659	8.294	1.28633
SMC-F4C-502/20	20	930	1338	694	8.730	1.28633
SMC-F4C-502/21	21	975	1405	729	9.167	1.28633
SMC-F4C-502/22	22	1020	1472	763	9.603	1.28633
SMC-F4C-502/23	23	1065	1539	798	10.040	1.28633
SMC-F4C-502/24	24	1110	1606	833	10.476	1.28633
SMC-F4C-502/25	25	1155	1673	868	10.913	1.28633
SMC-F4C-502/26	26	1200	1739	902	11.349	1.28633
SMC-F4C-502/27	27	1245	1806	937	11.786	1.28633
SMC-F4C-502/28	28	1290	1873	972	12.222	1.28633
SMC-F4C-502/29	29	1335	1940	1006	12.659	1.28633
SMC-F4C-502/30	30	1380	2007	1041	13.095	1.28633
SMC-F4C-502/31	31	1425	2074	1076	13.532	1.28633
SMC-F4C-502/32	32	1470	2141	1110	13.968	1.28633
SMC-F4C-502/33	33	1515	2208	1145	14.405	1.28633
SMC-F4C-502/34	34	1560	2275	1180	14.841	1.28633
SMC-F4C-502/35	35	1605	2342	1215	15.278	1.28633
SMC-F4C-502/36	36	1650	2408	1249	15.714	1.28633
SMC-F4C-502/37	37	1695	2475	1284	16.151	1.28633
SMC-F4C-502/38	38	1740	2542	1319	16.587	1.28633
SMC-F4C-502/39	39	1785	2609	1353	17.024	1.28633
SMC-F4C-502/40	40	1830	2676	1388	17.460	1.28633

