



# Declaration of Performance

No. 202009-1045

Florence 4 Column 400mm

<b>Unique product code:</b>	SMC-F4C-402
<b>Type, batch or serial number:</b>	SMC-F4C-402
<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: 502mm 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-402/03	3	165	164	66	0.920	1.25812
SMC-F4C-402/04	4	210	218	88	1.226	1.25812
SMC-F4C-402/05	5	255	273	111	1.533	1.25812
SMC-F4C-402/06	6	300	328	133	1.840	1.25812
SMC-F4C-402/07	7	345	382	155	2.146	1.25812
SMC-F4C-402/08	8	390	437	177	2.453	1.25812
SMC-F4C-402/09	9	435	492	199	2.759	1.25812
SMC-F4C-402/10	10	480	546	221	3.066	1.25812
SMC-F4C-402/11	11	525	601	243	3.373	1.25812
SMC-F4C-402/12	12	570	655	265	3.679	1.25812
SMC-F4C-402/13	13	615	710	287	3.986	1.25812
SMC-F4C-402/14	14	660	765	309	4.292	1.25812
SMC-F4C-402/15	15	705	819	332	4.599	1.25812
SMC-F4C-402/16	16	750	874	354	4.906	1.25812
SMC-F4C-402/17	17	795	929	376	5.212	1.25812
SMC-F4C-402/18	18	840	983	398	5.519	1.25812
SMC-F4C-402/19	19	885	1038	420	5.825	1.25812
SMC-F4C-402/20	20	930	1092	442	6.132	1.25812
SMC-F4C-402/21	21	975	1147	464	6.439	1.25812
SMC-F4C-402/22	22	1020	1202	486	6.745	1.25812
SMC-F4C-402/23	23	1065	1256	508	7.052	1.25812
SMC-F4C-402/24	24	1110	1311	530	7.358	1.25812
SMC-F4C-402/25	25	1155	1366	553	7.665	1.25812
SMC-F4C-402/26	26	1200	1420	575	7.972	1.25812
SMC-F4C-402/27	27	1245	1475	597	8.278	1.25812
SMC-F4C-402/28	28	1290	1529	619	8.585	1.25812
SMC-F4C-402/29	29	1335	1584	641	8.891	1.25812
SMC-F4C-402/30	30	1380	1639	663	9.198	1.25812
SMC-F4C-402/31	31	1425	1693	685	9.505	1.25812
SMC-F4C-402/32	32	1470	1748	707	9.811	1.25812
SMC-F4C-402/33	33	1515	1802	729	10.118	1.25812
SMC-F4C-402/34	34	1560	1857	751	10.424	1.25812
SMC-F4C-402/35	35	1605	1912	774	10.731	1.25812
SMC-F4C-402/36	36	1650	1966	796	11.038	1.25812
SMC-F4C-402/37	37	1695	2021	818	11.344	1.25812
SMC-F4C-402/38	38	1740	2076	840	11.651	1.25812
SMC-F4C-402/39	39	1785	2130	862	11.957	1.25812
SMC-F4C-402/40	40	1830	2185	884	12.264	1.25812

