



Declaration of Performance

No. 202009-1044

Florence 4 Column 300mm

Unique product code:	SMC-F4C-302
Type, batch or serial number:	SMC-F4C-302
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.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: 402mm 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-302/03	3	165	126	66	0.920	1.25812
SMC-F4C-302/04	4	210	168	88	1.226	1.25812
SMC-F4C-302/05	5	255	211	111	1.533	1.25812
SMC-F4C-302/06	6	300	253	133	1.840	1.25812
SMC-F4C-302/07	7	345	295	155	2.146	1.25812
SMC-F4C-302/08	8	390	337	177	2.453	1.25812
SMC-F4C-302/09	9	435	379	199	2.759	1.25812
SMC-F4C-302/10	10	480	421	221	3.066	1.25812
SMC-F4C-302/11	11	525	463	243	3.373	1.25812
SMC-F4C-302/12	12	570	505	265	3.679	1.25812
SMC-F4C-302/13	13	615	547	287	3.986	1.25812
SMC-F4C-302/14	14	660	589	309	4.292	1.25812
SMC-F4C-302/15	15	705	632	332	4.599	1.25812
SMC-F4C-302/16	16	750	674	354	4.906	1.25812
SMC-F4C-302/17	17	795	716	376	5.212	1.25812
SMC-F4C-302/18	18	840	758	398	5.519	1.25812
SMC-F4C-302/19	19	885	800	420	5.825	1.25812
SMC-F4C-302/20	20	930	842	442	6.132	1.25812
SMC-F4C-302/21	21	975	884	464	6.439	1.25812
SMC-F4C-302/22	22	1020	926	486	6.745	1.25812
SMC-F4C-302/23	23	1065	968	508	7.052	1.25812
SMC-F4C-302/24	24	1110	1010	530	7.358	1.25812
SMC-F4C-302/25	25	1155	1053	553	7.665	1.25812
SMC-F4C-302/26	26	1200	1095	575	7.972	1.25812
SMC-F4C-302/27	27	1245	1137	597	8.278	1.25812
SMC-F4C-302/28	28	1290	1179	619	8.585	1.25812
SMC-F4C-302/29	29	1335	1221	641	8.891	1.25812
SMC-F4C-302/30	30	1380	1263	663	9.198	1.25812
SMC-F4C-302/31	31	1425	1305	685	9.505	1.25812
SMC-F4C-302/32	32	1470	1347	707	9.811	1.25812
SMC-F4C-302/33	33	1515	1389	729	10.118	1.25812
SMC-F4C-302/34	34	1560	1431	751	10.424	1.25812
SMC-F4C-302/35	35	1605	1474	774	10.731	1.25812
SMC-F4C-302/36	36	1650	1516	796	11.038	1.25812
SMC-F4C-302/37	37	1695	1558	818	11.344	1.25812
SMC-F4C-302/38	38	1740	1600	840	11.651	1.25812
SMC-F4C-302/39	39	1785	1642	862	11.957	1.25812
SMC-F4C-302/40	40	1830	1684	884	12.264	1.25812

