



Declaration of Performance

No. 202009-1014

Florence 2 Column 300mm

Unique product code:	SMC-F2C-302
Type, batch or serial number:	SMC-F2C-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.RES.01003_A

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 $1.3 \times$ maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
	No breakage at $1.69 \times$ 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, 65mm 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-F2C-302/03	3	165	70	38	0.553	1.23859
SMC-F2C-302/04	4	210	94	50	0.737	1.23859
SMC-F2C-302/05	5	255	117	63	0.922	1.23859
SMC-F2C-302/06	6	300	140	75	1.106	1.23859
SMC-F2C-302/07	7	345	164	88	1.290	1.23859
SMC-F2C-302/08	8	390	187	100	1.475	1.23859
SMC-F2C-302/09	9	435	211	113	1.659	1.23859
SMC-F2C-302/10	10	480	234	125	1.843	1.23859
SMC-F2C-302/11	11	525	257	138	2.028	1.23859
SMC-F2C-302/12	12	570	281	150	2.212	1.23859
SMC-F2C-302/13	13	615	304	163	2.396	1.23859
SMC-F2C-302/14	14	660	328	175	2.580	1.23859
SMC-F2C-302/15	15	705	351	188	2.765	1.23859
SMC-F2C-302/16	16	750	374	200	2.949	1.23859
SMC-F2C-302/17	17	795	398	213	3.133	1.23859
SMC-F2C-302/18	18	840	421	225	3.318	1.23859
SMC-F2C-302/19	19	885	445	238	3.502	1.23859
SMC-F2C-302/20	20	930	468	250	3.686	1.23859
SMC-F2C-302/21	21	975	491	263	3.871	1.23859
SMC-F2C-302/22	22	1020	515	275	4.055	1.23859
SMC-F2C-302/23	23	1065	538	288	4.239	1.23859
SMC-F2C-302/24	24	1110	562	300	4.424	1.23859
SMC-F2C-302/25	25	1155	585	313	4.608	1.23859
SMC-F2C-302/26	26	1200	608	325	4.792	1.23859
SMC-F2C-302/27	27	1245	632	338	4.977	1.23859
SMC-F2C-302/28	28	1290	655	350	5.161	1.23859
SMC-F2C-302/29	29	1335	679	363	5.345	1.23859
SMC-F2C-302/30	30	1380	702	375	5.530	1.23859
SMC-F2C-302/31	31	1425	725	388	5.714	1.23859
SMC-F2C-302/32	32	1470	749	400	5.898	1.23859
SMC-F2C-302/33	33	1515	772	413	6.083	1.23859
SMC-F2C-302/34	34	1560	796	425	6.267	1.23859
SMC-F2C-302/35	35	1605	819	438	6.451	1.23859
SMC-F2C-302/36	36	1650	842	450	6.636	1.23859
SMC-F2C-302/37	37	1695	866	463	6.820	1.23859
SMC-F2C-302/38	38	1740	889	475	7.004	1.23859
SMC-F2C-302/39	39	1785	913	488	7.188	1.23859
SMC-F2C-302/40	40	1830	936	500	7.373	1.23859

