



Declaration of Performance

No. 202009-1015

Florence 2 Column 400mm

Unique product code:	SMC-F2C-402
Type, batch or serial number:	SMC-F2C-402
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 × 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, 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-402/03	3	165	90	48	0.688	1.24656
SMC-F2C-402/04	4	210	120	64	0.918	1.24656
SMC-F2C-402/05	5	255	151	80	1.147	1.24656
SMC-F2C-402/06	6	300	181	95	1.377	1.24656
SMC-F2C-402/07	7	345	211	111	1.606	1.24656
SMC-F2C-402/08	8	390	241	127	1.836	1.24656
SMC-F2C-402/09	9	435	271	143	2.065	1.24656
SMC-F2C-402/10	10	480	301	159	2.294	1.24656
SMC-F2C-402/11	11	525	331	175	2.524	1.24656
SMC-F2C-402/12	12	570	361	191	2.753	1.24656
SMC-F2C-402/13	13	615	391	207	2.983	1.24656
SMC-F2C-402/14	14	660	421	223	3.212	1.24656
SMC-F2C-402/15	15	705	452	239	3.442	1.24656
SMC-F2C-402/16	16	750	482	254	3.671	1.24656
SMC-F2C-402/17	17	795	512	270	3.900	1.24656
SMC-F2C-402/18	18	840	542	286	4.130	1.24656
SMC-F2C-402/19	19	885	572	302	4.359	1.24656
SMC-F2C-402/20	20	930	602	318	4.589	1.24656
SMC-F2C-402/21	21	975	632	334	4.818	1.24656
SMC-F2C-402/22	22	1020	662	350	5.048	1.24656
SMC-F2C-402/23	23	1065	692	366	5.277	1.24656
SMC-F2C-402/24	24	1110	722	382	5.507	1.24656
SMC-F2C-402/25	25	1155	753	398	5.736	1.24656
SMC-F2C-402/26	26	1200	783	413	5.965	1.24656
SMC-F2C-402/27	27	1245	813	429	6.195	1.24656
SMC-F2C-402/28	28	1290	843	445	6.424	1.24656
SMC-F2C-402/29	29	1335	873	461	6.654	1.24656
SMC-F2C-402/30	30	1380	903	477	6.883	1.24656
SMC-F2C-402/31	31	1425	933	493	7.113	1.24656
SMC-F2C-402/32	32	1470	963	509	7.342	1.24656
SMC-F2C-402/33	33	1515	993	525	7.572	1.24656
SMC-F2C-402/34	34	1560	1023	541	7.801	1.24656
SMC-F2C-402/35	35	1605	1054	557	8.030	1.24656
SMC-F2C-402/36	36	1650	1084	572	8.260	1.24656
SMC-F2C-402/37	37	1695	1114	588	8.489	1.24656
SMC-F2C-402/38	38	1740	1144	604	8.719	1.24656
SMC-F2C-402/39	39	1785	1174	620	8.948	1.24656
SMC-F2C-402/40	40	1830	1204	636	9.178	1.24656

