



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.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, 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	296	150	1.667	1.32372
SMC/F2C/402/04	4	210	394	200	2.222	1.32372
SMC/F2C/402/05	5	255	493	251	2.778	1.32372
SMC/F2C/402/06	6	300	592	301	3.333	1.32372
SMC/F2C/402/07	7	345	690	351	3.889	1.32372
SMC/F2C/402/08	8	390	789	401	4.445	1.32372
SMC/F2C/402/09	9	435	887	451	5.000	1.32372
SMC/F2C/402/10	10	480	986	501	5.556	1.32372
SMC/F2C/402/11	11	525	1085	551	6.111	1.32372
SMC/F2C/402/12	12	570	1183	601	6.667	1.32372
SMC/F2C/402/13	13	615	1282	651	7.223	1.32372
SMC/F2C/402/14	14	660	1380	701	7.778	1.32372
SMC/F2C/402/15	15	705	1479	752	8.334	1.32372
SMC/F2C/402/16	16	750	1578	802	8.889	1.32372
SMC/F2C/402/17	17	795	1676	852	9.445	1.32372
SMC/F2C/402/18	18	840	1775	902	10.000	1.32372
SMC/F2C/402/19	19	885	1873	952	10.556	1.32372
SMC/F2C/402/20	20	930	1972	1002	11.112	1.32372
SMC/F2C/402/21	21	975	2071	1052	11.667	1.32372
SMC/F2C/402/22	22	1020	2169	1102	12.223	1.32372
SMC/F2C/402/23	23	1065	2268	1152	12.778	1.32372
SMC/F2C/402/24	24	1110	2366	1202	13.334	1.32372
SMC/F2C/402/25	25	1155	2465	1253	13.890	1.32372
SMC/F2C/402/26	26	1200	2564	1303	14.445	1.32372
SMC/F2C/402/27	27	1245	2662	1353	15.001	1.32372
SMC/F2C/402/28	28	1290	2761	1403	15.556	1.32372
SMC/F2C/402/29	29	1335	2859	1453	16.112	1.32372
SMC/F2C/402/30	30	1380	2958	1503	16.667	1.32372
SMC/F2C/402/31	31	1425	3057	1553	17.223	1.32372
SMC/F2C/402/32	32	1470	3155	1603	17.779	1.32372
SMC/F2C/402/33	33	1515	3254	1653	18.334	1.32372
SMC/F2C/402/34	34	1560	3352	1703	18.890	1.32372
SMC/F2C/402/35	35	1605	3451	1754	19.445	1.32372
SMC/F2C/402/36	36	1650	3550	1804	20.001	1.32372
SMC/F2C/402/37	37	1695	3648	1854	20.556	1.32372
SMC/F2C/402/38	38	1740	3747	1904	21.112	1.32372
SMC/F2C/402/39	39	1785	3845	1954	21.668	1.32372
SMC/F2C/402/40	40	1830	3944	2004	22.223	1.32372

