



Declaration of Performance

No. 202009-1021

Florence 3 Column 1000mm

Unique product code:	SMC-F3C-1002
Type, batch or serial number:	SMC-F3C-1002
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.01004

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: 1102mm h, 101mm 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-F3C-1002/03	3	165	290	148	1.684	1.31651
SMC-F3C-1002/04	4	210	387	198	2.245	1.31651
SMC-F3C-1002/05	5	255	484	247	2.806	1.31651
SMC-F3C-1002/06	6	300	581	296	3.367	1.31651
SMC-F3C-1002/07	7	345	678	346	3.929	1.31651
SMC-F3C-1002/08	8	390	774	395	4.490	1.31651
SMC-F3C-1002/09	9	435	871	445	5.051	1.31651
SMC-F3C-1002/10	10	480	968	494	5.612	1.31651
SMC-F3C-1002/11	11	525	1065	543	6.174	1.31651
SMC-F3C-1002/12	12	570	1162	593	6.735	1.31651
SMC-F3C-1002/13	13	615	1258	642	7.296	1.31651
SMC-F3C-1002/14	14	660	1355	692	7.857	1.31651
SMC-F3C-1002/15	15	705	1452	741	8.418	1.31651
SMC-F3C-1002/16	16	750	1549	790	8.980	1.31651
SMC-F3C-1002/17	17	795	1646	840	9.541	1.31651
SMC-F3C-1002/18	18	840	1742	889	10.102	1.31651
SMC-F3C-1002/19	19	885	1839	939	10.663	1.31651
SMC-F3C-1002/20	20	930	1936	988	11.225	1.31651
SMC-F3C-1002/21	21	975	2033	1037	11.786	1.31651
SMC-F3C-1002/22	22	1020	2130	1087	12.347	1.31651
SMC-F3C-1002/23	23	1065	2226	1136	12.908	1.31651
SMC-F3C-1002/24	24	1110	2323	1186	13.470	1.31651
SMC-F3C-1002/25	25	1155	2420	1235	14.031	1.31651
SMC-F3C-1002/26	26	1200	2517	1284	14.592	1.31651
SMC-F3C-1002/27	27	1245	2614	1334	15.153	1.31651
SMC-F3C-1002/28	28	1290	2710	1383	15.714	1.31651
SMC-F3C-1002/29	29	1335	2807	1433	16.276	1.31651
SMC-F3C-1002/30	30	1380	2904	1482	16.837	1.31651
SMC-F3C-1002/31	31	1425	3001	1531	17.398	1.31651
SMC-F3C-1002/32	32	1470	3098	1581	17.959	1.31651
SMC-F3C-1002/33	33	1515	3194	1630	18.521	1.31651
SMC-F3C-1002/34	34	1560	3291	1680	19.082	1.31651
SMC-F3C-1002/35	35	1605	3388	1729	19.643	1.31651
SMC-F3C-1002/36	36	1650	3485	1778	20.204	1.31651
SMC-F3C-1002/37	37	1695	3582	1828	20.766	1.31651
SMC-F3C-1002/38	38	1740	3678	1877	21.327	1.31651
SMC-F3C-1002/39	39	1785	3775	1927	21.888	1.31651
SMC-F3C-1002/40	40	1830	3872	1976	22.449	1.31651

