

Castrads®

Declaration of Performance

No. 202009-1060

Florence 5 Column 400mm

Unique product code:	SMC-F5C-402
Type, batch or serial number:	SMC-F5C-402
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	Politecnico di Milano
Test report number:	ENE/MRT.RES.01003_C

Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 x maximum operating pressure [kPa]	
Surface temperature	Maximum 120°C	
Resistance to pressure	No breakage at 1.69 x maximum operating pressure [kPa] Maximum operating pressure: 1000 [kPa]	EN 442-1:2014
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	

Signed for and on behalf of the manufacturer by:

Nicholas Baylis
CEO
Stockport, England
20th May 2026





Appendix to DOP No. 202009-1060: Dimensions and thermal outputs

Panel dimensions: 502mm high when floor standing, 179mm deep for all numbers of sections. See table for length.

SKU	Num of sec.	Length, mm	Output (Watts, DT50)	Output (Watts, DT30)	Factor, Km	Exponent, n
SMC-F5C-402-03	3	165	200	103	1.278	1.2912
SMC-F5C-402-04	4	210	266	138	1.704	1.2912
SMC-F5C-402-05	5	255	333	172	2.130	1.2912
SMC-F5C-402-06	6	300	399	206	2.556	1.2912
SMC-F5C-402-07	7	345	466	241	2.982	1.2912
SMC-F5C-402-08	8	390	532	275	3.408	1.2912
SMC-F5C-402-09	9	435	599	310	3.834	1.2912
SMC-F5C-402-10	10	480	665	344	4.260	1.2912
SMC-F5C-402-11	11	525	732	378	4.686	1.2912
SMC-F5C-402-12	12	570	798	413	5.112	1.2912
SMC-F5C-402-13	13	615	865	447	5.538	1.2912
SMC-F5C-402-14	14	660	932	482	5.964	1.2912
SMC-F5C-402-15	15	705	998	516	6.390	1.2912
SMC-F5C-402-16	16	750	1065	551	6.816	1.2912
SMC-F5C-402-17	17	795	1131	585	7.242	1.2912
SMC-F5C-402-18	18	840	1198	619	7.668	1.2912
SMC-F5C-402-19	19	885	1264	654	8.094	1.2912
SMC-F5C-402-20	20	930	1331	688	8.520	1.2912
SMC-F5C-402-21	21	975	1397	723	8.946	1.2912
SMC-F5C-402-22	22	1020	1464	757	9.372	1.2912
SMC-F5C-402-23	23	1065	1530	791	9.798	1.2912
SMC-F5C-402-24	24	1110	1597	826	10.224	1.2912
SMC-F5C-402-25	25	1155	1664	860	10.650	1.2912
SMC-F5C-402-26	26	1200	1730	895	11.076	1.2912
SMC-F5C-402-27	27	1245	1797	929	11.502	1.2912
SMC-F5C-402-28	28	1290	1863	963	11.928	1.2912
SMC-F5C-402-29	29	1335	1930	998	12.354	1.2912
SMC-F5C-402-30	30	1380	1996	1032	12.780	1.2912
SMC-F5C-402-31	31	1425	2063	1067	13.206	1.2912
SMC-F5C-402-32	32	1470	2129	1101	13.632	1.2912
SMC-F5C-402-33	33	1515	2196	1135	14.058	1.2912
SMC-F5C-402-34	34	1560	2262	1170	14.484	1.2912
SMC-F5C-402-35	35	1605	2329	1204	14.910	1.2912
SMC-F5C-402-36	36	1650	2395	1239	15.336	1.2912
SMC-F5C-402-37	37	1695	2462	1273	15.762	1.2912
SMC-F5C-402-38	38	1740	2529	1307	16.188	1.2912
SMC-F5C-402-39	39	1785	2595	1342	16.614	1.2912
SMC-F5C-402-40	40	1830	2662	1376	17.040	1.2912