

Castrads®

Declaration of Performance

No. 202009-1059

Florence 5 Column 300mm

Unique product code:	SMC-F5C-302
Type, batch or serial number:	SMC-F5C-302
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
18th May 2026





Appendix to DOP No. 202009-1059: Dimensions and thermal outputs

Panel dimensions: 402mm 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-302-03	3	165	154	80	1.050	1.2755
SMC-F5C-302-04	4	210	206	107	1.399	1.2755
SMC-F5C-302-05	5	255	257	134	1.749	1.2755
SMC-F5C-302-06	6	300	308	161	2.099	1.2755
SMC-F5C-302-07	7	345	360	188	2.449	1.2755
SMC-F5C-302-08	8	390	411	214	2.799	1.2755
SMC-F5C-302-09	9	435	463	241	3.149	1.2755
SMC-F5C-302-10	10	480	514	268	3.498	1.2755
SMC-F5C-302-11	11	525	565	295	3.848	1.2755
SMC-F5C-302-12	12	570	617	321	4.198	1.2755
SMC-F5C-302-13	13	615	668	348	4.548	1.2755
SMC-F5C-302-14	14	660	720	375	4.898	1.2755
SMC-F5C-302-15	15	705	771	402	5.248	1.2755
SMC-F5C-302-16	16	750	822	429	5.597	1.2755
SMC-F5C-302-17	17	795	874	455	5.947	1.2755
SMC-F5C-302-18	18	840	925	482	6.297	1.2755
SMC-F5C-302-19	19	885	977	509	6.647	1.2755
SMC-F5C-302-20	20	930	1028	536	6.997	1.2755
SMC-F5C-302-21	21	975	1079	563	7.347	1.2755
SMC-F5C-302-22	22	1020	1131	589	7.696	1.2755
SMC-F5C-302-23	23	1065	1182	616	8.046	1.2755
SMC-F5C-302-24	24	1110	1234	643	8.396	1.2755
SMC-F5C-302-25	25	1155	1285	670	8.746	1.2755
SMC-F5C-302-26	26	1200	1336	697	9.096	1.2755
SMC-F5C-302-27	27	1245	1388	723	9.446	1.2755
SMC-F5C-302-28	28	1290	1439	750	9.796	1.2755
SMC-F5C-302-29	29	1335	1491	777	10.145	1.2755
SMC-F5C-302-30	30	1380	1542	804	10.495	1.2755
SMC-F5C-302-31	31	1425	1593	831	10.845	1.2755
SMC-F5C-302-32	32	1470	1645	857	11.195	1.2755
SMC-F5C-302-33	33	1515	1696	884	11.545	1.2755
SMC-F5C-302-34	34	1560	1748	911	11.895	1.2755
SMC-F5C-302-35	35	1605	1799	938	12.244	1.2755
SMC-F5C-302-36	36	1650	1850	964	12.594	1.2755
SMC-F5C-302-37	37	1695	1902	991	12.944	1.2755
SMC-F5C-302-38	38	1740	1953	1018	13.294	1.2755
SMC-F5C-302-39	39	1785	2005	1045	13.644	1.2755
SMC-F5C-302-40	40	1830	2056	1072	13.994	1.2755