



# Declaration of Performance

No. 202009-1040

Florence 4 Column 200mm

<b>Unique product code:</b>	SMC-F4C-194
<b>Type, batch or serial number:</b>	SMC-F4C-194
<b>Intended use of the construction product:</b>	In heating systems in buildings
<b>Manufacturer:</b>	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
<b>System of AVCP:</b>	System 3
<b>Harmonized standard:</b>	EN 442-1:2014
<b>Notified body:</b>	CETIAT Domaine Scientifique de la Doua 25 Avenue des Arts BP 52042 69603 Villeurbanne France
<b>Test report number:</b>	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: 294mm h, 139mm 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-F4C-194/03	3	165	78	40	0.435	1.32643
SMC-F4C-194/04	4	210	104	53	0.580	1.32643
SMC-F4C-194/05	5	255	130	66	0.725	1.32643
SMC-F4C-194/06	6	300	156	79	0.870	1.32643
SMC-F4C-194/07	7	345	182	92	1.015	1.32643
SMC-F4C-194/08	8	390	208	106	1.159	1.32643
SMC-F4C-194/09	9	435	234	119	1.304	1.32643
SMC-F4C-194/10	10	480	260	132	1.449	1.32643
SMC-F4C-194/11	11	525	286	145	1.594	1.32643
SMC-F4C-194/12	12	570	312	158	1.739	1.32643
SMC-F4C-194/13	13	615	338	172	1.884	1.32643
SMC-F4C-194/14	14	660	364	185	2.029	1.32643
SMC-F4C-194/15	15	705	390	198	2.174	1.32643
SMC-F4C-194/16	16	750	416	211	2.319	1.32643
SMC-F4C-194/17	17	795	442	224	2.464	1.32643
SMC-F4C-194/18	18	840	468	238	2.609	1.32643
SMC-F4C-194/19	19	885	494	251	2.754	1.32643
SMC-F4C-194/20	20	930	520	264	2.899	1.32643
SMC-F4C-194/21	21	975	546	277	3.044	1.32643
SMC-F4C-194/22	22	1020	572	290	3.188	1.32643
SMC-F4C-194/23	23	1065	598	304	3.333	1.32643
SMC-F4C-194/24	24	1110	624	317	3.478	1.32643
SMC-F4C-194/25	25	1155	650	330	3.623	1.32643
SMC-F4C-194/26	26	1200	676	343	3.768	1.32643
SMC-F4C-194/27	27	1245	702	356	3.913	1.32643
SMC-F4C-194/28	28	1290	728	370	4.058	1.32643
SMC-F4C-194/29	29	1335	754	383	4.203	1.32643
SMC-F4C-194/30	30	1380	780	396	4.348	1.32643
SMC-F4C-194/31	31	1425	806	409	4.493	1.32643
SMC-F4C-194/32	32	1470	832	422	4.638	1.32643
SMC-F4C-194/33	33	1515	858	436	4.783	1.32643
SMC-F4C-194/34	34	1560	884	449	4.928	1.32643
SMC-F4C-194/35	35	1605	910	462	5.073	1.32643
SMC-F4C-194/36	36	1650	936	475	5.217	1.32643
SMC-F4C-194/37	37	1695	962	488	5.362	1.32643
SMC-F4C-194/38	38	1740	988	502	5.507	1.32643
SMC-F4C-194/39	39	1785	1014	515	5.652	1.32643
SMC-F4C-194/40	40	1830	1040	528	5.797	1.32643

