

Declaration of Performance

No. 202009-1106

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Unique product code:	CI/M4C/960
Type, batch or serial number:	CI/M4C/960
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:	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire RG12 7AH United Kingdom
Test report number:	104331/1

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	
	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: 960mm h, 140mm 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
CI/M4C/960/03	3	205	367	187	2.135	1.31560
CI/M4C/960/04	4	263	489	250	2.846	1.31560
CI/M4C/960/05	5	321	612	312	3.558	1.31560
CI/M4C/960/06	6	379	734	374	4.269	1.31560
CI/M4C/960/07	7	437	856	437	4.981	1.31560
CI/M4C/960/08	8	496	978	499	5.692	1.31560
CI/M4C/960/09	9	554	1101	562	6.404	1.31560
CI/M4C/960/10	10	612	1223	624	7.115	1.31560
CI/M4C/960/11	11	670	1345	686	7.827	1.31560
CI/M4C/960/12	12	728	1468	749	8.538	1.31560
CI/M4C/960/13	13	787	1590	811	9.250	1.31560
CI/M4C/960/14	14	845	1712	874	9.961	1.31560
CI/M4C/960/15	15	903	1835	936	10.673	1.31560
CI/M4C/960/16	16	961	1957	998	11.384	1.31560
CI/M4C/960/17	17	1019	2079	1061	12.096	1.31560
CI/M4C/960/18	18	1078	2201	1123	12.807	1.31560
CI/M4C/960/19	19	1136	2324	1186	13.519	1.31560
CI/M4C/960/20	20	1194	2446	1248	14.230	1.31560
CI/M4C/960/21	21	1252	2568	1310	14.942	1.31560
CI/M4C/960/22	22	1310	2691	1373	15.653	1.31560
CI/M4C/960/23	23	1369	2813	1435	16.365	1.31560
CI/M4C/960/24	24	1427	2935	1498	17.076	1.31560
CI/M4C/960/25	25	1485	3058	1560	17.788	1.31560
CI/M4C/960/26	26	1543	3180	1622	18.499	1.31560
CI/M4C/960/27	27	1601	3302	1685	19.211	1.31560
CI/M4C/960/28	28	1660	3424	1747	19.922	1.31560
CI/M4C/960/29	29	1718	3547	1810	20.634	1.31560
CI/M4C/960/30	30	1776	3669	1872	21.345	1.31560
CI/M4C/960/31	31	1834	3791	1934	22.057	1.31560
CI/M4C/960/32	32	1892	3914	1997	22.768	1.31560
CI/M4C/960/33	33	1951	4036	2059	23.480	1.31560
CI/M4C/960/34	34	2009	4158	2122	24.191	1.31560
CI/M4C/960/35	35	2067	4281	2184	24.903	1.31560
CI/M4C/960/36	36	2125	4403	2246	25.614	1.31560
CI/M4C/960/37	37	2183	4525	2309	26.326	1.31560
CI/M4C/960/38	38	2242	4647	2371	27.037	1.31560
CI/M4C/960/39	39	2300	4770	2434	27.749	1.31560
CI/M4C/960/40	40	2358	4892	2496	28.460	1.31560

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