



# Declaration of Performance

No. 202009-1090

Grace 6 Column 485mm

<b>Unique product code:</b>	CI-G6C-485
<b>Type, batch or serial number:</b>	CI-G6C-485
<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>	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire RG12 7AH United Kingdom
<b>Test report number:</b>	101885/2

## 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: 500mm h, 250.8mm 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-G6C-485/03	3	212	266	139	1.854	1.26980
CI-G6C-485/04	4	272	355	186	2.472	1.26980
CI-G6C-485/05	5	333	444	232	3.090	1.26980
CI-G6C-485/06	6	393	533	278	3.708	1.26980
CI-G6C-485/07	7	454	622	325	4.326	1.26980
CI-G6C-485/08	8	514	710	371	4.944	1.26980
CI-G6C-485/09	9	575	799	418	5.563	1.26980
CI-G6C-485/10	10	635	888	464	6.181	1.26980
CI-G6C-485/11	11	696	977	510	6.799	1.26980
CI-G6C-485/12	12	756	1066	557	7.417	1.26980
CI-G6C-485/13	13	817	1154	603	8.035	1.26980
CI-G6C-485/14	14	877	1243	650	8.653	1.26980
CI-G6C-485/15	15	938	1332	696	9.271	1.26980
CI-G6C-485/16	16	998	1421	742	9.889	1.26980
CI-G6C-485/17	17	1059	1510	789	10.507	1.26980
CI-G6C-485/18	18	1119	1598	835	11.125	1.26980
CI-G6C-485/19	19	1180	1687	882	11.743	1.26980
CI-G6C-485/20	20	1240	1776	928	12.361	1.26980
CI-G6C-485/21	21	1301	1865	974	12.979	1.26980
CI-G6C-485/22	22	1361	1954	1021	13.597	1.26980
CI-G6C-485/23	23	1422	2042	1067	14.215	1.26980
CI-G6C-485/24	24	1482	2131	1114	14.833	1.26980
CI-G6C-485/25	25	1543	2220	1160	15.452	1.26980
CI-G6C-485/26	26	1603	2309	1206	16.070	1.26980
CI-G6C-485/27	27	1664	2398	1253	16.688	1.26980
CI-G6C-485/28	28	1724	2486	1299	17.306	1.26980
CI-G6C-485/29	29	1785	2575	1346	17.924	1.26980
CI-G6C-485/30	30	1845	2664	1392	18.542	1.26980
CI-G6C-485/31	31	1906	2753	1438	19.160	1.26980
CI-G6C-485/32	32	1966	2842	1485	19.778	1.26980
CI-G6C-485/33	33	2027	2930	1531	20.396	1.26980
CI-G6C-485/34	34	2087	3019	1578	21.014	1.26980
CI-G6C-485/35	35	2148	3108	1624	21.632	1.26980
CI-G6C-485/36	36	2208	3197	1670	22.250	1.26980
CI-G6C-485/37	37	2269	3286	1717	22.868	1.26980
CI-G6C-485/38	38	2329	3374	1763	23.486	1.26980
CI-G6C-485/39	39	2390	3463	1810	24.104	1.26980
CI-G6C-485/40	40	2450	3552	1856	24.722	1.26980

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