



Declaration of Performance

No. 202009-1086

Grace 4 Column 500mm

Unique product code:	CI-G4C-500
Type, batch or serial number:	CI-G4C-500
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:	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, 170.2mm 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-G4C-500/03	3	212	194	103	1.493	1.24450
CI-G4C-500/04	4	272	259	137	1.991	1.24450
CI-G4C-500/05	5	333	324	172	2.488	1.24450
CI-G4C-500/06	6	393	389	206	2.986	1.24450
CI-G4C-500/07	7	454	454	240	3.484	1.24450
CI-G4C-500/08	8	514	518	274	3.982	1.24450
CI-G4C-500/09	9	575	583	309	4.479	1.24450
CI-G4C-500/10	10	635	648	343	4.977	1.24450
CI-G4C-500/11	11	696	713	377	5.475	1.24450
CI-G4C-500/12	12	756	778	412	5.972	1.24450
CI-G4C-500/13	13	817	842	446	6.470	1.24450
CI-G4C-500/14	14	877	907	480	6.968	1.24450
CI-G4C-500/15	15	938	972	515	7.465	1.24450
CI-G4C-500/16	16	998	1037	549	7.963	1.24450
CI-G4C-500/17	17	1059	1102	583	8.461	1.24450
CI-G4C-500/18	18	1119	1166	617	8.958	1.24450
CI-G4C-500/19	19	1180	1231	652	9.456	1.24450
CI-G4C-500/20	20	1240	1296	686	9.954	1.24450
CI-G4C-500/21	21	1301	1361	720	10.451	1.24450
CI-G4C-500/22	22	1361	1426	755	10.949	1.24450
CI-G4C-500/23	23	1422	1490	789	11.447	1.24450
CI-G4C-500/24	24	1482	1555	823	11.945	1.24450
CI-G4C-500/25	25	1543	1620	858	12.442	1.24450
CI-G4C-500/26	26	1603	1685	892	12.940	1.24450
CI-G4C-500/27	27	1664	1750	926	13.438	1.24450
CI-G4C-500/28	28	1724	1814	960	13.935	1.24450
CI-G4C-500/29	29	1785	1879	995	14.433	1.24450
CI-G4C-500/30	30	1845	1944	1029	14.931	1.24450
CI-G4C-500/31	31	1906	2009	1063	15.428	1.24450
CI-G4C-500/32	32	1966	2074	1098	15.926	1.24450
CI-G4C-500/33	33	2027	2138	1132	16.424	1.24450
CI-G4C-500/34	34	2087	2203	1166	16.921	1.24450
CI-G4C-500/35	35	2148	2268	1201	17.419	1.24450
CI-G4C-500/36	36	2208	2333	1235	17.917	1.24450
CI-G4C-500/37	37	2269	2398	1269	18.415	1.24450
CI-G4C-500/38	38	2329	2462	1303	18.912	1.24450
CI-G4C-500/39	39	2390	2527	1338	19.410	1.24450
CI-G4C-500/40	40	2450	2592	1372	19.908	1.24450

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