



Declaration of Performance

No. 202009-1087

Grace 4 Column 660mm

Unique product code:	CI-G4C-660
Type, batch or serial number:	CI-G4C-660
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: 647mm 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-660/03	3	212	256	135	1.894	1.25410
CI-G4C-660/04	4	272	341	180	2.526	1.25410
CI-G4C-660/05	5	333	427	225	3.157	1.25410
CI-G4C-660/06	6	393	512	270	3.788	1.25410
CI-G4C-660/07	7	454	597	315	4.420	1.25410
CI-G4C-660/08	8	514	682	360	5.051	1.25410
CI-G4C-660/09	9	575	768	405	5.683	1.25410
CI-G4C-660/10	10	635	853	450	6.314	1.25410
CI-G4C-660/11	11	696	938	495	6.945	1.25410
CI-G4C-660/12	12	756	1024	540	7.577	1.25410
CI-G4C-660/13	13	817	1109	585	8.208	1.25410
CI-G4C-660/14	14	877	1194	630	8.839	1.25410
CI-G4C-660/15	15	938	1280	675	9.471	1.25410
CI-G4C-660/16	16	998	1365	720	10.102	1.25410
CI-G4C-660/17	17	1059	1450	765	10.734	1.25410
CI-G4C-660/18	18	1119	1535	810	11.365	1.25410
CI-G4C-660/19	19	1180	1621	855	11.996	1.25410
CI-G4C-660/20	20	1240	1706	900	12.628	1.25410
CI-G4C-660/21	21	1301	1791	945	13.259	1.25410
CI-G4C-660/22	22	1361	1877	990	13.891	1.25410
CI-G4C-660/23	23	1422	1962	1035	14.522	1.25410
CI-G4C-660/24	24	1482	2047	1080	15.153	1.25410
CI-G4C-660/25	25	1543	2133	1125	15.785	1.25410
CI-G4C-660/26	26	1603	2218	1170	16.416	1.25410
CI-G4C-660/27	27	1664	2303	1215	17.048	1.25410
CI-G4C-660/28	28	1724	2388	1260	17.679	1.25410
CI-G4C-660/29	29	1785	2474	1305	18.310	1.25410
CI-G4C-660/30	30	1845	2559	1350	18.942	1.25410
CI-G4C-660/31	31	1906	2644	1395	19.573	1.25410
CI-G4C-660/32	32	1966	2730	1440	20.204	1.25410
CI-G4C-660/33	33	2027	2815	1485	20.836	1.25410
CI-G4C-660/34	34	2087	2900	1530	21.467	1.25410
CI-G4C-660/35	35	2148	2986	1575	22.099	1.25410
CI-G4C-660/36	36	2208	3071	1620	22.730	1.25410
CI-G4C-660/37	37	2269	3156	1665	23.361	1.25410
CI-G4C-660/38	38	2329	3241	1710	23.993	1.25410
CI-G4C-660/39	39	2390	3327	1755	24.624	1.25410
CI-G4C-660/40	40	2450	3412	1800	25.256	1.25410

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