



# Declaration of Performance

No. 202009-1082

Grace 2 Column 480mm

<b>Unique product code:</b>	CI/G2C/480
<b>Type, batch or serial number:</b>	CI/G2C/480
<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>	101885/1

## 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	
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

Dimensions: 482mm h, 89mm 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/G2C/480/03	3	211	117	62	0.878	1.2511
CI/G2C/480/04	4	271	156	82	1.170	1.2511
CI/G2C/480/05	5	332	196	103	1.463	1.2511
CI/G2C/480/06	6	392	235	124	1.755	1.2511
CI/G2C/480/07	7	452	274	144	2.048	1.2511
CI/G2C/480/08	8	512	313	165	2.340	1.2511
CI/G2C/480/09	9	573	352	185	2.633	1.2511
CI/G2C/480/10	10	633	391	206	2.926	1.2511
CI/G2C/480/11	11	693	430	227	3.218	1.2511
CI/G2C/480/12	12	754	469	247	3.511	1.2511
CI/G2C/480/13	13	814	508	268	3.803	1.2511
CI/G2C/480/14	14	874	547	288	4.096	1.2511
CI/G2C/480/15	15	935	587	309	4.388	1.2511
CI/G2C/480/16	16	995	626	330	4.681	1.2511
CI/G2C/480/17	17	1055	665	350	4.974	1.2511
CI/G2C/480/18	18	1115	704	371	5.266	1.2511
CI/G2C/480/19	19	1176	743	391	5.559	1.2511
CI/G2C/480/20	20	1236	782	412	5.851	1.2511
CI/G2C/480/21	21	1296	821	433	6.144	1.2511
CI/G2C/480/22	22	1357	860	453	6.436	1.2511
CI/G2C/480/23	23	1417	899	474	6.729	1.2511
CI/G2C/480/24	24	1477	938	494	7.021	1.2511
CI/G2C/480/25	25	1538	978	515	7.314	1.2511
CI/G2C/480/26	26	1598	1017	536	7.607	1.2511
CI/G2C/480/27	27	1658	1056	556	7.899	1.2511
CI/G2C/480/28	28	1718	1095	577	8.192	1.2511
CI/G2C/480/29	29	1779	1134	597	8.484	1.2511
CI/G2C/480/30	30	1839	1173	618	8.777	1.2511
CI/G2C/480/31	31	1899	1212	639	9.069	1.2511
CI/G2C/480/32	32	1960	1251	659	9.362	1.2511
CI/G2C/480/33	33	2020	1290	680	9.654	1.2511
CI/G2C/480/34	34	2080	1329	700	9.947	1.2511
CI/G2C/480/35	35	2141	1369	721	10.240	1.2511
CI/G2C/480/36	36	2201	1408	742	10.532	1.2511
CI/G2C/480/37	37	2261	1447	762	10.825	1.2511
CI/G2C/480/38	38	2321	1486	783	11.117	1.2511
CI/G2C/480/39	39	2382	1525	803	11.410	1.2511
CI/G2C/480/40	40	2442	1564	824	11.702	1.2511

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