



# Declaration of Performance

No. 202009-1081

Grace 2 Column 1040mm

<b>Unique product code:</b>	CI/G2C/1040
<b>Type, batch or serial number:</b>	CI/G2C/1040
<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: 1035mm 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/1040/03	3	211	247	129	1.677	1.2761
CI/G2C/1040/04	4	271	329	172	2.236	1.2761
CI/G2C/1040/05	5	332	412	215	2.795	1.2761
CI/G2C/1040/06	6	392	494	257	3.354	1.2761
CI/G2C/1040/07	7	452	576	300	3.913	1.2761
CI/G2C/1040/08	8	512	658	343	4.472	1.2761
CI/G2C/1040/09	9	573	741	386	5.031	1.2761
CI/G2C/1040/10	10	633	823	429	5.590	1.2761
CI/G2C/1040/11	11	693	905	472	6.149	1.2761
CI/G2C/1040/12	12	754	988	515	6.708	1.2761
CI/G2C/1040/13	13	814	1070	558	7.267	1.2761
CI/G2C/1040/14	14	874	1152	601	7.826	1.2761
CI/G2C/1040/15	15	935	1235	644	8.385	1.2761
CI/G2C/1040/16	16	995	1317	686	8.944	1.2761
CI/G2C/1040/17	17	1055	1399	729	9.503	1.2761
CI/G2C/1040/18	18	1115	1481	772	10.062	1.2761
CI/G2C/1040/19	19	1176	1564	815	10.621	1.2761
CI/G2C/1040/20	20	1236	1646	858	11.180	1.2761
CI/G2C/1040/21	21	1296	1728	901	11.739	1.2761
CI/G2C/1040/22	22	1357	1811	944	12.298	1.2761
CI/G2C/1040/23	23	1417	1893	987	12.857	1.2761
CI/G2C/1040/24	24	1477	1975	1030	13.416	1.2761
CI/G2C/1040/25	25	1538	2058	1073	13.975	1.2761
CI/G2C/1040/26	26	1598	2140	1115	14.533	1.2761
CI/G2C/1040/27	27	1658	2222	1158	15.092	1.2761
CI/G2C/1040/28	28	1718	2304	1201	15.651	1.2761
CI/G2C/1040/29	29	1779	2387	1244	16.210	1.2761
CI/G2C/1040/30	30	1839	2469	1287	16.769	1.2761
CI/G2C/1040/31	31	1899	2551	1330	17.328	1.2761
CI/G2C/1040/32	32	1960	2634	1373	17.887	1.2761
CI/G2C/1040/33	33	2020	2716	1416	18.446	1.2761
CI/G2C/1040/34	34	2080	2798	1459	19.005	1.2761
CI/G2C/1040/35	35	2141	2881	1502	19.564	1.2761
CI/G2C/1040/36	36	2201	2963	1544	20.123	1.2761
CI/G2C/1040/37	37	2261	3045	1587	20.682	1.2761
CI/G2C/1040/38	38	2321	3127	1630	21.241	1.2761
CI/G2C/1040/39	39	2382	3210	1673	21.800	1.2761
CI/G2C/1040/40	40	2442	3292	1716	22.359	1.2761

DOP No. 202009-1081