

Castrads®

Declaration of Performance

No. 202009-1085-US

Grace 4 Column 14in

Unique product code:	CI-G4C-360
Type, batch or serial number:	CI-G4C-360
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
Test standard:	EN 442-1:2014
Test laboratory:	BSRIA
Test report number:	101885/2

Declared performance

Essential characteristics	Performance	Reference standard
Reaction to fire	A1 — non-combustible	
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 × maximum working pressure (psi)	
Surface temperature	Maximum 248 °F	
Resistance to pressure	No breakage at 1.69 × maximum working pressure (psi) Maximum working pressure: 145 psi	EN 442-1:2014
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	

Performance values are derived from testing to EN 442-1:2014 and are presented here in US customary units for the North American market. This document is a statement of manufacturer performance data; it is not issued under, and does not imply conformity with, any US regulatory or certification scheme.

Signed for and on behalf of the manufacturer by:

Nick Baylis
CEO
Syosset, England
27th August 2026





Appendix to DoP No. 202009-1085-US: Dimensions and thermal outputs

Panel dimensions: 13.8 in (350 mm) high when floor standing, 6.9 in (175 mm) deep, for all numbers of sections. See table for length.

SKU	Num of sec.	Length, in	Output (Hydronic, 170°F)	Output (Steam, 215°F)	EDR	Factor, Km	Exponent, n
CI-G4C-360-03	3	8.3	521	813	3.3	1.118	1.2178
CI-G4C-360-04	4	10.7	695	1,084	4.4	1.491	1.2178
CI-G4C-360-05	5	13.1	868	1,355	5.6	1.864	1.2178
CI-G4C-360-06	6	15.5	1,042	1,626	6.7	2.237	1.2178
CI-G4C-360-07	7	17.9	1,216	1,897	7.8	2.609	1.2178
CI-G4C-360-08	8	20.2	1,389	2,168	8.9	2.982	1.2178
CI-G4C-360-09	9	22.6	1,563	2,439	10.0	3.355	1.2178
CI-G4C-360-10	10	25	1,736	2,710	11.1	3.728	1.2178
CI-G4C-360-11	11	27.4	1,910	2,981	12.2	4.100	1.2178
CI-G4C-360-12	12	29.8	2,084	3,252	13.3	4.473	1.2178
CI-G4C-360-13	13	32.2	2,257	3,523	14.4	4.846	1.2178
CI-G4C-360-14	14	34.5	2,431	3,794	15.5	5.219	1.2178
CI-G4C-360-15	15	36.9	2,605	4,065	16.7	5.592	1.2178
CI-G4C-360-16	16	39.3	2,778	4,336	17.8	5.964	1.2178
CI-G4C-360-17	17	41.7	2,952	4,607	18.9	6.337	1.2178
CI-G4C-360-18	18	44.1	3,126	4,878	20.0	6.710	1.2178
CI-G4C-360-19	19	46.5	3,299	5,149	21.1	7.083	1.2178
CI-G4C-360-20	20	48.8	3,473	5,420	22.2	7.455	1.2178
CI-G4C-360-21	21	51.2	3,647	5,691	23.3	7.828	1.2178
CI-G4C-360-22	22	53.6	3,820	5,962	24.4	8.201	1.2178
CI-G4C-360-23	23	56	3,994	6,233	25.5	8.574	1.2178
CI-G4C-360-24	24	58.3	4,168	6,504	26.7	8.946	1.2178
CI-G4C-360-25	25	60.7	4,341	6,775	27.8	9.319	1.2178
CI-G4C-360-26	26	63.1	4,515	7,046	28.9	9.692	1.2178
CI-G4C-360-27	27	65.5	4,689	7,317	30.0	10.065	1.2178
CI-G4C-360-28	28	67.9	4,862	7,588	31.1	10.438	1.2178
CI-G4C-360-29	29	70.3	5,036	7,859	32.2	10.810	1.2178
CI-G4C-360-30	30	72.6	5,209	8,130	33.3	11.183	1.2178
CI-G4C-360-31	31	75	5,383	8,401	34.4	11.556	1.2178
CI-G4C-360-32	32	77.4	5,557	8,672	35.5	11.929	1.2178
CI-G4C-360-33	33	79.8	5,730	8,943	36.6	12.301	1.2178
CI-G4C-360-34	34	82.2	5,904	9,214	37.8	12.674	1.2178
CI-G4C-360-35	35	84.6	6,078	9,485	38.9	13.047	1.2178
CI-G4C-360-36	36	86.9	6,251	9,756	40.0	13.420	1.2178
CI-G4C-360-37	37	89.3	6,425	10,027	41.1	13.792	1.2178
CI-G4C-360-38	38	91.7	6,599	10,298	42.2	14.165	1.2178
CI-G4C-360-39	39	94.1	6,772	10,569	43.3	14.538	1.2178
CI-G4C-360-40	40	96.5	6,946	10,840	44.4	14.911	1.2178

Output (Hydronic, 170°F): BTU/h at 170°F mean water, 68°F room. **Output (Steam, 215°F):** BTU/h at 215°F steam, 68°F room. **EDR:** square feet of Equivalent Direct Radiation at the reference condition (215°F steam, 70°F room; 1 sq ft = 240 BTU/h). Outputs are derived from the EN 442-1 power law $\phi = Km \times \Delta T^n$ (ΔT = mean water – room, °C); BTU/h rounded to whole numbers, EDR to one decimal place.