

Castrads®

Declaration of Performance

No. 202201-1082-US

Emmeline I 26in

Unique product code:	CI-EML1-665
Type, batch or serial number:	CI-EML1-665
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:	104331/2

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. 202201-1082-US: Dimensions and thermal outputs

Panel dimensions: 26.2 in (665 mm) high when floor standing, 4.3 in (110 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-EML1-665-03	3	9.1	748	1,185	4.9	1.355	1.2598
CI-EML1-665-04	4	11.7	997	1,580	6.5	1.806	1.2598
CI-EML1-665-05	5	14.3	1,246	1,975	8.1	2.258	1.2598
CI-EML1-665-06	6	16.9	1,495	2,370	9.7	2.710	1.2598
CI-EML1-665-07	7	19.5	1,745	2,765	11.3	3.161	1.2598
CI-EML1-665-08	8	22.1	1,994	3,160	12.9	3.613	1.2598
CI-EML1-665-09	9	24.8	2,243	3,555	14.6	4.064	1.2598
CI-EML1-665-10	10	27.4	2,492	3,950	16.2	4.516	1.2598
CI-EML1-665-11	11	30	2,742	4,345	17.8	4.967	1.2598
CI-EML1-665-12	12	32.6	2,991	4,740	19.4	5.419	1.2598
CI-EML1-665-13	13	35.2	3,240	5,135	21.0	5.871	1.2598
CI-EML1-665-14	14	37.8	3,489	5,530	22.6	6.322	1.2598
CI-EML1-665-15	15	40.5	3,739	5,925	24.3	6.774	1.2598
CI-EML1-665-16	16	43.1	3,988	6,320	25.9	7.225	1.2598
CI-EML1-665-17	17	45.7	4,237	6,715	27.5	7.677	1.2598
CI-EML1-665-18	18	48.3	4,486	7,109	29.1	8.129	1.2598
CI-EML1-665-19	19	50.9	4,736	7,504	30.7	8.580	1.2598
CI-EML1-665-20	20	53.5	4,985	7,899	32.4	9.032	1.2598
CI-EML1-665-21	21	56.2	5,234	8,294	34.0	9.483	1.2598
CI-EML1-665-22	22	58.8	5,483	8,689	35.6	9.935	1.2598
CI-EML1-665-23	23	61.4	5,732	9,084	37.2	10.387	1.2598
CI-EML1-665-24	24	64	5,982	9,479	38.8	10.838	1.2598
CI-EML1-665-25	25	66.7	6,231	9,874	40.4	11.290	1.2598
CI-EML1-665-26	26	69.3	6,480	10,269	42.1	11.741	1.2598
CI-EML1-665-27	27	71.9	6,729	10,664	43.7	12.193	1.2598
CI-EML1-665-28	28	74.5	6,979	11,059	45.3	12.645	1.2598
CI-EML1-665-29	29	77.1	7,228	11,454	46.9	13.096	1.2598
CI-EML1-665-30	30	79.7	7,477	11,849	48.5	13.548	1.2598
CI-EML1-665-31	31	82.4	7,726	12,244	50.1	13.999	1.2598
CI-EML1-665-32	32	85	7,976	12,639	51.8	14.451	1.2598
CI-EML1-665-33	33	87.6	8,225	13,034	53.4	14.902	1.2598
CI-EML1-665-34	34	90.2	8,474	13,429	55.0	15.354	1.2598
CI-EML1-665-35	35	92.8	8,723	13,824	56.6	15.806	1.2598
CI-EML1-665-36	36	95.4	8,973	14,219	58.2	16.257	1.2598
CI-EML1-665-37	37	98.1	9,222	14,614	59.8	16.709	1.2598
CI-EML1-665-38	38	100.7	9,471	15,009	61.5	17.160	1.2598
CI-EML1-665-39	39	103.3	9,720	15,404	63.1	17.612	1.2598
CI-EML1-665-40	40	105.9	9,969	15,799	64.7	18.064	1.2598

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.