



# Castrads®

## Declaration of Performance

No. 202209-1086

Emmeline II 870mm

<b>Unique product code:</b>	CI-EML2-870
<b>Type, batch or serial number:</b>	CI-EML2-870
<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>	104331/2

## Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	
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]	EN 442-1:2014
Rated thermal outputs	Maximum operating pressure: 1000 [kPa]	
Thermal output in different operating conditions (characteristic curve)	See appendix 1	
Resistance against corrosion:	$\phi = K_m \cdot \Delta T^n$ . See appendix for factor $K_m$ and exponent $n$	
Resistance against minor impact:	No corrosion after 100h humidity	
	Class 0	

### Signed for and on behalf of the manufacturer by:

Nick Baylis  
CEO  
Stockport, England  
28th June 2025

## Appendix to DOP No. 202209-1086: Dimensions and thermal outputs

Panel dimensions: 870mm high when floor standing, 170mm deep for all numbers of sections. See table for length.

SKU	Number of sections	Length, mm	Output (Watts, $\Delta T50$ )	Output (Watts, $\Delta T30$ )	Factor, Km	Exponent, n
CI-EML2-870-03	3	230	340	177	2.290	1.2785
CI-EML2-870-04	4	296	454	236	3.053	1.2785
CI-EML2-870-05	5	363	567	295	3.816	1.2785
CI-EML2-870-06	6	429	680	354	4.579	1.2785
CI-EML2-870-07	7	496	794	413	5.342	1.2785
CI-EML2-870-08	8	562	907	472	6.105	1.2785
CI-EML2-870-09	9	629	1021	531	6.869	1.2785
CI-EML2-870-10	10	695	1134	590	7.632	1.2785
CI-EML2-870-11	11	762	1247	649	8.395	1.2785
CI-EML2-870-12	12	828	1361	708	9.158	1.2785
CI-EML2-870-13	13	895	1474	767	9.921	1.2785
CI-EML2-870-14	14	961	1588	826	10.685	1.2785
CI-EML2-870-15	15	1028	1701	885	11.448	1.2785
CI-EML2-870-16	16	1094	1814	944	12.211	1.2785
CI-EML2-870-17	17	1161	1928	1003	12.974	1.2785
CI-EML2-870-18	18	1227	2041	1062	13.737	1.2785
CI-EML2-870-19	19	1294	2155	1121	14.500	1.2785
CI-EML2-870-20	20	1360	2268	1180	15.264	1.2785
CI-EML2-870-21	21	1427	2381	1239	16.027	1.2785
CI-EML2-870-22	22	1493	2495	1298	16.790	1.2785
CI-EML2-870-23	23	1560	2608	1357	17.553	1.2785
CI-EML2-870-24	24	1626	2722	1416	18.316	1.2785
CI-EML2-870-25	25	1693	2835	1475	19.080	1.2785
CI-EML2-870-26	26	1759	2948	1534	19.843	1.2785
CI-EML2-870-27	27	1826	3062	1593	20.606	1.2785
CI-EML2-870-28	28	1892	3175	1652	21.369	1.2785
CI-EML2-870-29	29	1959	3289	1711	22.132	1.2785
CI-EML2-870-30	30	2025	3402	1770	22.895	1.2785
CI-EML2-870-31	31	2092	3515	1829	23.659	1.2785
CI-EML2-870-32	32	2158	3629	1888	24.422	1.2785
CI-EML2-870-33	33	2225	3742	1947	25.185	1.2785
CI-EML2-870-34	34	2291	3856	2006	25.948	1.2785
CI-EML2-870-35	35	2358	3969	2065	26.711	1.2785
CI-EML2-870-36	36	2424	4082	2124	27.474	1.2785
CI-EML2-870-37	37	2491	4196	2183	28.238	1.2785
CI-EML2-870-38	38	2557	4309	2242	29.001	1.2785
CI-EML2-870-39	39	2624	4423	2301	29.764	1.2785
CI-EML2-870-40	40	2690	4536	2360	30.527	1.2785