



Declaration of Performance

No. 202209-1086

Emmeline II 870mm

Unique product code:	CI-EML2-870
Type, batch or serial number:	CI-EML2-870
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire RG12 7AH United Kingdom
Test report number:	104331/2

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

Panel dimensions: 871mm h, 166.7mm 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-EML2-870/03	3	230	340	177	2.290	1.27850
CI-EML2-870/04	4	296	454	236	3.053	1.27850
CI-EML2-870/05	5	363	567	295	3.816	1.27850
CI-EML2-870/06	6	429	680	354	4.579	1.27850
CI-EML2-870/07	7	496	794	413	5.342	1.27850
CI-EML2-870/08	8	562	907	472	6.105	1.27850
CI-EML2-870/09	9	629	1021	531	6.869	1.27850
CI-EML2-870/10	10	695	1134	590	7.632	1.27850
CI-EML2-870/11	11	762	1247	649	8.395	1.27850
CI-EML2-870/12	12	828	1361	708	9.158	1.27850
CI-EML2-870/13	13	895	1474	767	9.921	1.27850
CI-EML2-870/14	14	961	1588	826	10.685	1.27850
CI-EML2-870/15	15	1028	1701	885	11.448	1.27850
CI-EML2-870/16	16	1094	1814	944	12.211	1.27850
CI-EML2-870/17	17	1161	1928	1003	12.974	1.27850
CI-EML2-870/18	18	1227	2041	1062	13.737	1.27850
CI-EML2-870/19	19	1294	2155	1121	14.500	1.27850
CI-EML2-870/20	20	1360	2268	1180	15.264	1.27850
CI-EML2-870/21	21	1427	2381	1239	16.027	1.27850
CI-EML2-870/22	22	1493	2495	1298	16.790	1.27850
CI-EML2-870/23	23	1560	2608	1357	17.553	1.27850
CI-EML2-870/24	24	1626	2722	1416	18.316	1.27850
CI-EML2-870/25	25	1693	2835	1475	19.080	1.27850
CI-EML2-870/26	26	1759	2948	1534	19.843	1.27850
CI-EML2-870/27	27	1826	3062	1593	20.606	1.27850
CI-EML2-870/28	28	1892	3175	1652	21.369	1.27850
CI-EML2-870/29	29	1959	3289	1711	22.132	1.27850
CI-EML2-870/30	30	2025	3402	1770	22.895	1.27850
CI-EML2-870/31	31	2092	3515	1829	23.659	1.27850
CI-EML2-870/32	32	2158	3629	1888	24.422	1.27850
CI-EML2-870/33	33	2225	3742	1947	25.185	1.27850
CI-EML2-870/34	34	2291	3856	2006	25.948	1.27850
CI-EML2-870/35	35	2358	3969	2065	26.711	1.27850
CI-EML2-870/36	36	2424	4082	2124	27.474	1.27850
CI-EML2-870/37	37	2491	4196	2183	28.238	1.27850
CI-EML2-870/38	38	2557	4309	2242	29.001	1.27850
CI-EML2-870/39	39	2624	4423	2301	29.764	1.27850
CI-EML2-870/40	40	2690	4536	2360	30.527	1.27850

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