

 **Castrads**[®]
Declaration of Performance

No. 202201-1081

Emmeline I 465mm

Unique product code:	CI-EML1-465
Type, batch or serial number:	CI-EML1-465
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA
Test report number:	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 x maximum operating pressure [kPa]	
Surface temperature	Maximum 120°C	
Resistance to pressure	No breakage at 1.69 x maximum operating pressure [kPa] Maximum operating pressure: 1000 [kPa]	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	

Signed for and on behalf of the manufacturer by:

Nicholas Baylis
CEO
Stockport, England
9th May 2026





Appendix to DOP No. 202201-1081: Dimensions and thermal outputs

Panel dimensions: 465mm high when floor standing, 110mm deep for all numbers of sections. See table for length.

SKU	Num of sec.	Length, mm	Output (Watts, DT50)	Output (Watts, DT30)	Factor, Km	Exponent, n
CI-EML1-465-03	3	230	134	70	0.983	1.2554
CI-EML1-465-04	4	296	178	94	1.311	1.2554
CI-EML1-465-05	5	363	223	117	1.639	1.2554
CI-EML1-465-06	6	429	267	141	1.966	1.2554
CI-EML1-465-07	7	496	312	164	2.294	1.2554
CI-EML1-465-08	8	562	356	187	2.622	1.2554
CI-EML1-465-09	9	629	401	211	2.950	1.2554
CI-EML1-465-10	10	695	445	234	3.277	1.2554
CI-EML1-465-11	11	762	490	258	3.605	1.2554
CI-EML1-465-12	12	828	534	281	3.933	1.2554
CI-EML1-465-13	13	895	579	305	4.261	1.2554
CI-EML1-465-14	14	961	623	328	4.588	1.2554
CI-EML1-465-15	15	1028	668	352	4.916	1.2554
CI-EML1-465-16	16	1094	712	375	5.244	1.2554
CI-EML1-465-17	17	1161	757	398	5.572	1.2554
CI-EML1-465-18	18	1227	801	422	5.899	1.2554
CI-EML1-465-19	19	1294	846	445	6.227	1.2554
CI-EML1-465-20	20	1360	890	469	6.555	1.2554
CI-EML1-465-21	21	1427	935	492	6.883	1.2554
CI-EML1-465-22	22	1493	979	516	7.210	1.2554
CI-EML1-465-23	23	1560	1024	539	7.538	1.2554
CI-EML1-465-24	24	1626	1068	562	7.866	1.2554
CI-EML1-465-25	25	1693	1113	586	8.194	1.2554
CI-EML1-465-26	26	1759	1157	609	8.521	1.2554
CI-EML1-465-27	27	1826	1202	633	8.849	1.2554
CI-EML1-465-28	28	1892	1246	656	9.177	1.2554
CI-EML1-465-29	29	1959	1291	680	9.504	1.2554
CI-EML1-465-30	30	2025	1335	703	9.832	1.2554
CI-EML1-465-31	31	2092	1380	727	10.160	1.2554
CI-EML1-465-32	32	2158	1424	750	10.488	1.2554
CI-EML1-465-33	33	2225	1469	773	10.815	1.2554
CI-EML1-465-34	34	2291	1513	797	11.143	1.2554
CI-EML1-465-35	35	2358	1558	820	11.471	1.2554
CI-EML1-465-36	36	2424	1602	844	11.799	1.2554
CI-EML1-465-37	37	2491	1647	867	12.126	1.2554
CI-EML1-465-38	38	2557	1691	891	12.454	1.2554
CI-EML1-465-39	39	2624	1736	914	12.782	1.2554
CI-EML1-465-40	40	2690	1780	937	13.110	1.2554