Declaration of Performance

No. 054 09032017

LIBERTY 1 COLUMN 645MM

Unique Product Code:	**TBK044/045**
Type, batch or serial number:	**TBK044/045-645**
Intended use of the construction product:	Heat emitters for central heating systems to be supplied with hot water or steam below 120°C from a remote heat source.
Manufacturer:	Jig UK Ltd, Hurlingham Business Park, Fulbeck Heath, Grantham NG32 3HL
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA, Bracknell, Berkshire, RG12 7AH (0480)
Test report number:	**59949A30PS**

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 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: 550 [kPa]	
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$Ø = Km \cdot \Delta T^n$ See appendix for factor Km 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:

Brian Athey
Managing Director
Dated: 11/11/2026

APPENDIX 1 - Dimensions and Thermal Outputs

SKU	Sections	Length (inc. bushes)	BTU's (ΔT 30°)	Watts (ΔT 30°)	BTU's (ΔT 50°)	Watts (ΔT 50°)	Factor, Km	Exponent, n
TBK044/045-645-03	3	277mm	420	123	901	264	2.0403692	1.2055
TBK044/045-645-04	4	358mm	560	164	1201	352	2.7204923	1.2055
TBK044/045-645-05	5	439mm	699	205	1501	440	3.4006154	1.2055
TBK044/045-645-06	6	520mm	839	246	1802	528	4.0807385	1.2055
TBK044/045-645-07	7	601mm	983	288	2102	616	4.7608615	1.2055
TBK044/045-645-08	8	682mm	1123	329	2402	704	5.4409846	1.2055
TBK044/045-645-09	9	763mm	1262	370	2702	792	6.1211077	1.2055
TBK044/045-645-10	10	844mm	1402	411	3003	880	6.8012308	1.2055
TBK044/045-645-11	11	925mm	1542	452	3303	968	7.4813538	1.2055
TBK044/045-645-12	12	1006mm	1682	493	3603	1056	8.1614769	1.2055
TBK044/045-645-13	13	1087mm	1822	534	3903	1144	8.8416	1.2055
TBK044/045-645-14	14	1168mm	1962	575	4204	1232	9.5217231	1.2055
TBK044/045-645-15	15	1249mm	2102	616	4504	1320	10.201846	1.2055
TBK044/045-645-16	16	1330mm	2242	657	4804	1408	10.881969	1.2055
TBK044/045-645-17	17	1411mm	2382	698	5105	1496	11.562092	1.2055
TBK044/045-645-18	18	1492mm	2522	739	5405	1584	12.242215	1.2055
TBK044/045-645-19	19	1573mm	2665	781	5705	1672	12.922338	1.2055
TBK044/045-645-20	20	1654mm	2805	822	6005	1760	13.602462	1.2055
TBK044/045-645-21	21	1735mm	2945	863	6306	1848	14.282585	1.2055
TBK044/045-645-22	22	1816mm	3085	904	6606	1936	14.962708	1.2055
TBK044/045-645-23	23	1897mm	3224	945	6906	2024	15.642831	1.2055
TBK044/045-645-24	24	1978mm	3364	986	7206	2112	16.322954	1.2055
TBK044/045-645-25	25	2059mm	3504	1027	7507	2200	17.003077	1.2055
TBK044/045-645-26	26	2140mm	3644	1068	7807	2288	17.6832	1.2055
TBK044/045-645-27	27	2221mm	3784	1109	8107	2376	18.363323	1.2055
TBK044/045-645-28	28	2302mm	3924	1150	8408	2464	19.043446	1.2055
TBK044/045-645-29	29	2383mm	4064	1191	8708	2552	19.723569	1.2055
TBK044/045-645-30	30	2464mm	4204	1232	9008	2640	20.403692	1.2055