Notified laboratory NB 2693

HEATEST, s.r.o., č. p. 84, 276 01 Býkev, Czech Republic

issues

for the purposes of with Regulation (EU) No 305/2011 of the European Parliament and Council of 9 March 2011, (the Construction products Regulation or CPR) as amended this

ASSESSMENT OF PERFORMANCE REPORT

No. 2693-CPR-0022-2023

for construction product:

Family of construction product:	**Column radiator**
Intended use:	in heating systems in buildings
Type, name or trademark:	**JDDH S 7015**
Manufacturer:	**TIANJIN JIUDING YANGGUANG HVAC CO., LTD.**
Full address:	No. 9 Wuwei Road, Lutai Ninghe Tianjin City, China (PRC)
Manufacturing site:	No. 9 Wuwei Road, Lutai Ninghe Tianjin City, China (PRC)
Registered trade mark	JIUDING RADIATOR

This Assessment of Performance Report attest that the performance of the above-mentioned construction product has been assessed under AVCP system 3 with regard to the essential characteristic listed at Annex No 1 of this Report in accordance with harmonised standard

EN 442-1:2014

This Report will remain applicable as long as neither the harmonised standard, the construction product, nor the AVCP methods are modified significantly. Its distribution without the written consent of the NB2693 is possible only as a whole, including the Annexes, which are an integral part of the Report.

This Report covers only essential characteristic(s) mentioned in Annex No. 1 of this Report. It is not an exhaustive statement of the performance of the product. The manufacturer is entitled to declare the performance of other essential characteristics than those mentioned in Annex No. 1 of this Report.

This Report is not considered a product certificate or a document to accompany the product nor the Declaration of Performance.

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At Býkev on: 29. 03. 2023

Copy No. **1**

oznámený subjekt - laboratoř - notified body - laboratory HEATEST, s.r.o. NB 2693

Annex No. 1: Assessed essential characteristics

Essential characteristic Clause No. – Description		Performance Level or class, units	Basis for the assessment of performance
4.3	Reaction to fire	A1	**Descriptive documentation** 047/2023
4.4	Release of dangerous substances	None	**Descriptive documentation** SGS Test Report (SVHC) No.TSNEC2000446701 from 08.04. 2020
4.5	Pressure tightness	no leakage at 1,3 × maximum operating pressure (MOP) [kPa]	**Descriptive documentation** Product details from 27.03.2023
4.6	Surface temperature	Maximum 100 °C	**Descriptive documentation** Product details from 27.03.2023
4.7	Resistance to pressure	no breakage at 1,69 × MOP MOP: 350 kPa	**Test report No.** 047/2023
4.9	Rated thermal output	**see Annex No. 2**	**Test report No.** 047/2023
4.10	Thermal output in different operating conditions	**see Annex No. 2**	**Test report No.** 047/2023
Durability as:			
4.11	Resistance against corrosion	No corrosion after 100 h humidity	**Test report No.** P-VZLUTEST-068/23
4.11	Resistance against minor impact	ISO 2409:2013 – 1c – 0	**Test report No.** 048/2023

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end of Annex No. 1

Annex No. 2 Table of thermal outputs

In accordance with EN 442-2, cl. 5.5.1.2, for radiators the thermal output is considered linear with number of sections.

$$\Phi = \Phi_L \times N_S = K_T \times H^b \times \Delta T^{(c0+c1\times H)} \times N_S = K_L \times \Delta T^n \times N_S = K_M \times \Delta T^n$$

Φ	thermal output in *W*
Φ_L	thermal output of the module in *(W/section)*
K_T	constant of the type
b, c_0,c_1	coefficients of the characteristic equation of the type
K_M	constant of the model; $K_M = K_L \times N_S = K_T \times H^b \times N_S$
ΔT	excess temperature in *K*
n	the exponent; $n=c_0 + c_1 \times H$
N_S	number of sections

Coefficients of the characteristic equation of the type:

Symbol	Value
K_T	0,5649
b	0,8101
c_0	1,2632
c_1	0,0287

Modular thermal outputs:

Height	Number of sections	Modular standard rated thermal output	Modular standard low temperature thermal output	Thermal output in different operating conditions, as $\Phi_L = K_L \times \Delta T^n$ (W/sect.)	
H (m)	N_S	$\Phi_{L,50}$ (W/section)	$\Phi_{L,30}$ (W/section)	K_L	n
0,600	1	55,9	29,1	0,3735	1,2804
0,630	1	58,4	30,3	0,3885	1,2813
0,900	1	80,0	41,6	0,5187	1,2890
1,200	1	105	54,1	0,6548	1,2976
1,500	1	130	66,7	0,7846	1,3063
1,600	1	139	71,0	0,8267	1,3091
1,800	1	156	80,0	0,9094	1.3149
2,000	1	174	88,0	0,9905	1,3206

Thermal outputs for the type range:

Model SKU	Standard rated thermal output Φ_{50} (W)	Standard low temperature thermal output Φ_{30} (W)	Thermal output in different operating conditions, as $\Phi = K_M \times \Delta T^n$	
			K_M	n
JDDH S 7015 0607	391	204	2,6143	1,2804
JDDH S 7015 0608	447	233	2,9877	1,2804
JDDH S 7015 0609	503	262	3,3612	1,2804
JDDH S 7015 0610	559	291	3,7347	1,2804
JDDH S 7015 0611	615	320	4,1081	1,2804
JDDH S 7015 0612	671	349	4,4816	1,2804
JDDH S 7015 0613	727	378	4,8551	1,2804
JDDH S 7015 0614	783	407	5,2285	1,2804
JDDH S 7015 0615	839	436	5,6020	1,2804
JDDH S 7015 6307	409	212	2,7197	1,2813
JDDH S 7015 6308	467	243	3,1082	1,2813
JDDH S 7015 6309	525	273	3,4967	1,2813
JDDH S 7015 6310	584	303	3,8852	1,2813
JDDH S 7015 6311	642	334	4,2738	1,2813
JDDH S 7015 6312	701	364	4,6623	1,2813
JDDH S 7015 6313	759	394	5,0508	1,2813
JDDH S 7015 6314	817	425	5,4393	1,2813
JDDH S 7015 6315	876	455	5,8279	1,2813
JDDH S 7015 0904	321	166	2,0747	1,2890
JDDH S 7015 0905	402	208	2,5934	1,2890
JDDH S 7015 0906	482	249	3,1121	1,2890
JDDH S 7015 0907	562	291	3,6308	1,2890
JDDH S 7015 0908	643	333	4,1495	1,2890
JDDH S 7015 0909	723	374	4,6682	1,2890
JDDH S 7015 0910	803	416	5,1868	1,2890
JDDH S 7015 0911	884	457	5,7055	1,2890
JDDH S 7015 0912	964	499	6,2242	1,2890
JDDH S 7015 0913	1044	541	6,7429	1,2890
JDDH S 7015 0914	1125	582	7,2616	1,2890
JDDH S 7015 0915	1205	624	7,7803	1,2890

Model SKU	Standard rated thermal output	Standard low temperature thermal output	Thermal output in different operating conditions, as $\Phi = K_M \times \Delta T^n$	
	Φ_{50} (W)	Φ_{30} (W)	K_M	n
JDDH S 7015 1204	420	216	2,6192	1,2976
JDDH S 7015 1205	524	270	3,2741	1,2976
JDDH S 7015 1206	629	324	3,9289	1,2976
JDDH S 7015 1207	734	378	4,5837	1,2976
JDDH S 7015 1208	839	432	5,2385	1,2976
JDDH S 7015 1209	944	486	5,8933	1,2976
JDDH S 7015 1210	1049	541	6,5481	1,2976
JDDH S 7015 1211	1154	595	7,2029	1,2976
JDDH S 7015 1212	1259	649	7,8577	1,2976
JDDH S 7015 1213	1363	703	8,5125	1,2976
JDDH S 7015 1214	1468	757	9,1674	1,2976
JDDH S 7015 1215	1573	811	9,8222	1,2976
JDDH S 7015 1504	520	267	3,1382	1,3063
JDDH S 7015 1505	650	334	3,9228	1,3063
JDDH S 7015 1506	780	400	4,7073	1,3063
JDDH S 7015 1507	910	467	5,4919	1,3063
JDDH S 7015 1508	1040	534	6,2764	1,3063
JDDH S 7015 1604	554	284	3,3067	1,3091
JDDH S 7015 1605	692	355	4,1333	1,3091
JDDH S 7015 1606	831	426	4,9600	1,3091
JDDH S 7015 1607	969	497	5,7866	1,3091
JDDH S 7015 1608	1108	568	6,6133	1,3091

Model SKU	**Standard rated thermal output** Φ_{50} (W)	**Standard low temperature thermal output** Φ_{30} (W)	**Thermal output in different operating conditions, as** $\Phi = K_M \times \Delta T^n$	
			K_M	n
JDDH S 7015 1804	623	318	3,6377	1,3149
JDDH S 7015 1805	779	398	4,5471	1,3149
JDDH S 7015 1806	935	478	5,4566	1,3149
JDDH S 7015 1807	1091	557	6,3660	1,3149
JDDH S 7015 1808	1247	637	7,2754	1,3149
JDDH S 7015 2004	694	354	3,9618	1,3206
JDDH S 7015 2005	868	442	4,9523	1,3206
JDDH S 7015 2006	1041	530	5,9427	1,3206
JDDH S 7015 2007	1215	619	6,9332	1,3206
JDDH S 7015 2008	1389	707	7,9237	1,3206

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end of Annex No2, end of the Assessment of Performance Report