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Page 1 of 6

REPORT

on assessment of the performance of construction product

1015-CPR-30-16333/TZ

Product: Fireplace stove for wood and coal briquettes

Product-type: TST2210 (TACORA)

Version: -

Customer: Cangzhou Topcastings Enterprise Co., Ltd.
No. 7 Jianshe Street
061000 Cangzhou City Hebei
CHINA

Manufacturer: Cangzhou Topcastings Enterprise Co., Ltd.
No. 7 Jianshe Street
061000 Cangzhou City Hebei
CHINA

Date of report issue: 2023-03-10

Distribution list: 1x SZU, s.p.
1x Customer

Assessment and verification of constancy of performance of construction products in relation to their essential characteristics in accordance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC (the Construction Products Regulation or CPR).

In connection with harmonized standard EN 13240: 2001/A2:2004/AC: 2007-08 tab. ZA.2 annex ZA the product mentioned below is governed by the **System 3**. Systems of assessment of constancy of performance are listed in Annex V of CPR.

System of assessment and verification of constancy of performance applied: CPR, System 3.

The notified laboratory in accordance with point 1.4.(b) shall assess the performance on the basis of testing (based on sampling carried out by the manufacturer), calculation, tabulated values or descriptive documentation of the construction product.

I. Specification of the product (and its versions)

The fireplace stove for wood and coal briquettes TST2210 (TACORA) is made mainly of cast iron. The stove is equipped with two inlet air controllers. these controls are located under the loading door and control the primary and secondary combustion air. the stove is also equipped with a tertiary air supply - this one is without a controller. The combustion chamber is lined with fireclay and in its upper part there are two deflectors - the first made of vermiculite and the second made of steel. The combustion chamber is also equipped with a grate and an ashtray. The spigot is located on the upper side of the stove with a diameter of 150 mm. The stove is placed on a cast-iron base.

A detailed description is given in the operating and installation instructions.

Basic technical data of the fireplace stove for wood and coal briquettes (Table 1a)

Type	Main dimensions (mm)			Nominal output (kW)	Fuel consumption-wood (kg/h)	Flue gas connector diameter (mm)	Flue draught (Pa)
	Height	Width	Depth				
TST2210 (TACORA)	786	627	477	7.1	2.17	150	12

Basic technical data of the fireplace stove for wood and coal briquettes (Table 1b)

Type	Main dimensions (mm)			Nominal output (kW)	Fuel consumption – coal briquettes (kg/h)	Flue gas connector diameter (mm)	Flue draught (Pa)
	Height	Width	Depth				
TST2210 (TACORA)	786	627	477	8.9	2.05	150	12

II. List of referenced documentation

(Table 2)

No:	Referenced documentation:
1	Drawings of fireplace stove for wood and coal briquettes TST2210 (TACORA)
2	Installation and operation instructions
3	Declaration of tested product of 2023-03-06
4	Initial type test report 30-16333/T of 2023-03-06
5	Evaluation report 30-16333/TH of 2023-03-07

III. Assessment of the performance on the basis of testing (based on sampling carried out by the manufacturer)

- Item 1.4, System 3, Annex V, CPR, and Table ZA.2, Annex ZA of EN 13240:2001/A2:2004/AC: 2007-08 (equivalent to ČSN EN 13240:2002/A2:2005)

(Table 3)

Essential characteristics		Harmonised standard provisions	Source materials; report
1.	Fire safety	See Clauses 1.1 – 1.13	
1.1	General construction	ČSN EN 13240/A2:2005 Art. 4.2	30-16333/TH
1.2	Flue spigot or socket	ČSN EN 13240/A2:2005 Art. 4.3	30-16333/T
1.3	Firedoors and charging doors	ČSN EN 13240/A2:2005 Art. 4.7	30-16333/TH
1.4	Combustion air supply	ČSN EN 13240/A2:2005 Art. 4.8	30-16333/TH
1.5	Bottomgrate	ČSN EN 13240/A2:2005 Art. 4.10	30-16333/TH
1.6	Front firebars	ČSN EN 13240/A2:2005 Art. 4.11	30-16333/TH
1.7	Cleaning of heating surfaces	ČSN EN 13240/A2:2005 Art. 4.15	30-16333/TH
1.8	Temperature of adjacent combustible materials	ČSN EN 13240/A2:2005 Art. 5.2	30-16333/T
1.9	Safety test for spillage of combustion gas and discharge of embers	ČSN EN 13240/A2:2005 Art. 5.5	30-16333/TH
1.10	Temperature in integral fuel storage container	ČSN EN 13240/A2:2005 Art. 5.6	-
1.11	Size of the firedoor window for Kachelöfen or Putzöfen inset appliances	ČSN EN 13240/A2:2005 Art. 5.9	-
1.12	Temperature at air grilles for Kachelöfen or Putzöfen inset appliances	ČSN EN 13240/A2:2005 Art. 5.10	-
1.13	User operations	ČSN EN 13240/A2:2005 Art. 6.11	30-16333/TH
2.	Emissions	See Clauses 2.1 – 2.16	
2.1	General construction requirements	ČSN EN 13240/A2:2005 Art. 4.2	30-16333/TH
2.2	Flue spigot or socket	ČSN EN 13240/A2:2005 Art. 4.3	30-16333/T
2.3	Flueways	ČSN EN 13240/A2:2005 Art. 4.5	30-16333/T
2.4	Cleaning tools	ČSN EN 13240/A2:2005 Art. 4.6	-
2.5	Firedoors and charging doors	ČSN EN 13240/A2:2005 Art. 4.7	30-16333/TH
2.6	Combustion air supply	ČSN EN 13240/A2:2005 Art. 4.8	30-16333/TH
2.7	Internal flue gas diverter	ČSN EN 13240/A2:2005 Art. 4.9	-
2.8	Bottomgrate	ČSN EN 13240/A2:2005 Art. 4.10	30-16333/TH
2.9	Ashpan and ash removal	ČSN EN 13240/A2:2005 Art. 4.12	30-16333/TH
2.10	Control of flue gas	ČSN EN 13240/A2:2005 Art. 4.14	30-16333/TH
2.11	Cleaning of heating surfaces	ČSN EN 13240/A2:2005 Art. 4.15	30-16333/TH
2.12	Cut-off device for appliances without doors	ČSN EN 13240/A2:2005 Art. 5.1	-
2.13	Natural draught safety test	ČSN EN 13240/A2:2005 Art. 5.4	-
2.14	Safety test for spillage of combustion gas and discharge of embers	ČSN EN 13240/A2:2005 Art. 5.5	30-16333/TH
2.15	Flue gas temperature	ČSN EN 13240/A2:2005 Art. 6.2	30-16333/T
2.16	Carbon monoxide emission classes for appliances with closed doors	ČSN EN 13240/A2:2005 Art. 6.3	30-16333/T

Essential characteristics		Harmonised standard provisions	Source materials; report
3.	Release of dangerous substances	ČSN EN 13240/A2:2005 ZA 1	Declaration
4.	Surface temperature	See Clauses 4.1 – 4.6	
4.1	General construction requirements	ČSN EN 13240/A2:2005 Art. 4.2	30-16333/TH
4.2	Integral boiler	ČSN EN 13240/A2:2005 Art. 4.13	-
4.3	Temperature of adjacent combustible materials	ČSN EN 13240/A2:2005 Art. 5.2	30-16333/T
4.4	Operating tools	ČSN EN 13240/A2:2005 Art. 5.3	-
4.5	Temperature in integral fuel storage container	ČSN EN 13240/A2:2005 Art. 5.6	-
4.6	Temperature at air grilles for Kachelöfen or Putzöfen inset appliances	ČSN EN 13240/A2:2005 Art. 5.10	-
5.	Performance	See Clauses 5.1 – 5.9	
5.1	Flue draught	ČSN EN 13240/A2:2005 Art. 6.1	30-16333/T
5.2	Efficient energy utilization	ČSN EN 13240/A2:2005 Art. 6.4	30-16333/T
5.3	Refuelling intervals at nominal heat output	ČSN EN 13240/A2:2005 Art. 6.5	30-16333/T
5.4	Nominal heat output	ČSN EN 13240/A2:2005 Art. 6.6	30-16333/T
5.5	Water heating output	ČSN EN 13240/A2:2005 Art. 6.7	-
5.6	Space heating output	ČSN EN 13240/A2:2005 Art. 6.8	30-16333/T
5.7	Refuelling intervals at slow or reduced combustion	ČSN EN 13240/A2:2005 Art. 6.9	30-16333/T
5.8	Recovery test	ČSN EN 13240/A2:2005 Art. 6.10	30-16333/T
5.9	Accumulator heat input for Kachelöfen or Putzöfen inset appliances	ČSN EN 13240/A2:2005 Art. 6.12	-

*) Note: 0 ... The requirement is not applicable to the product in question
 + ... The requirement is fulfilled

IV. Conclusion

Notified laboratory 1015 has assessed the performance of a construction product in accordance with the provisions of Item 1.4 (b), System 3, Annex V of CPR, and in accordance with Annex ZA, Table ZA.1 and Table ZA.3b of ČSN EN 13240:2002/A2:2005, and has determined the performance of essential characteristics of the product:

Fireplace stove for wood and coal briquettes: TST2210 (TACORA)

(Table 4)

Essential characteristics	Unit	Performance
Fire safety		
Reaction to fire		A1
Distance to flammable materials (minimum distance)	[mm]	rear = 400 sides = 300 above = ----- front = 1200
Risk of burning fuel falling out		pass
Emission of flue gases (Carbon monoxide content of the dry flue gases CO), wood/coal briquettes	[%]	0.0381/0.0365
Surface temperature		pass
Electrical safety		pass
Cleanability		pass
Maximum operating pressure	[bar]	-
Flue gas temperature at nominal heat output, wood/coal briquettes	[°C]	291/297
Mechanical resistance (to carry a chimney/flue)		NPD
Thermal output		
Nominal heat output, wood/coal briquettes	[kW]	7.1/8.9
Space heat output, wood/coal briquettes	[kW]	7.1/8.9
Water heat output	[kW]	-
Energy efficiency, wood/coal briquettes	[%]	79.3/81.3

V. List of the used documentation

- Order B-77664 of 2022-10-20
- Contract B-77664/30
- Initial type test report 30-16333/T of 2023-03-06 (issued by Testing Laboratory)
- Evaluation Report 30-16333/TH of 2023-03-07
- ČSN EN 13240:2002 - Roomheaters fired by solid fuel - Requirements and test methods

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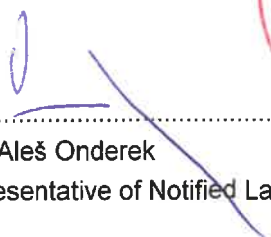
For correctness and completeness of the evaluation:

Milan Holomek

For review:

Ing. Aleš Onderek

Responsible person:


.....
Ing. Aleš Onderek
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