

**Assessment of Performance
REPORT
1015-AoP-30-18188/TZ
Revision No. 0**

Product:	Cooker for wood		
Product-type:	NORTH ECO		
Version:	NORTH ECO_spacer		
Customer:	TIM SISTEM d.o.o. ul. Prva industrijska br. 9 223 30 Nova Pazova SERBIA		
Manufacturer:	TIM SISTEM d.o.o. ul. Prva industrijska br. 9 223 30 Nova Pazova SERBIA		
Issue date:	2026-03-23		
Evaluation carried out by:	Ing. Radek Machara		
Person responsible for evaluation:	Milan Holomek		
Person responsible for review:	Ing. Aleš Onderek		
Employee responsible:	Ing. Aleš Onderek representative of Notified Body	+	+
		+	+

I. Assessment and verification of constancy of performance

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 16510-2-3:2022 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.

For the purposes of Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this Assessment of Performance Report under AVCP system 3 applies to the:

II. Construction product

Tested product (prototype) cooker NORTH ECO, (NORTH ECO_spacer) wood burning cooker is used for heating rooms and it's manufactured and tested according to European standard EN 16510.

The top plate of the fireplace, firebox door and oven door is made of steel.

Firebox assembly are made of vermiculite. Connection for smoke drains being put on the plate and connected with screws (also made of gray cast iron). There is an option for a rear flue connection.

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

- placed on the market under the name or trademark of:

TIM SISTEM d.o.o.

ul. Prva industrijska br. 9

223 30 Nova Pazova

SERBIA

Basic technical specifications of product:							tab. 1
Type	Main dimensions (mm)			Nominal heat output (kW)	Fuel consumption (kg/h) Wood	Diameter of flue gas connector (mm)	Operating draught (Pa)
	Height	Width	Depth				
NORTH ECO	852	903	657	8.3	2.1	120	12
NORTH ECO_spacer	852	1105	657	8.3	2.1	120	12

Note: ... Version has only different design

Photo documentation:



Picture of the installation of the appliance for all tests



Picture of fuel batch in combustion chamber

III. List of submitted documentation

		tab. 2
Serial number	Submitted documentation	
1	Owner's manual instalation adjustment and operatig instruction	
2	Technical drawing: sheet 1-4	
3	Manufacturer's declaration of tested products of 2025-10-30	

The documentation is sufficient for the system of assessment and verification of constancy of performance applied.

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

- point 1.4.(b) system 3 Annex V of CPR and Annex ZA tab. ZA.1, EN 16510-2-3:2022

tab. 3

Essential characteristics		Requirement clauses in this harmonized standard	Document
1 Mechanical resistance and stability			
-	-	-	-
2 Safety in case of fire			
2.1	Protection of combustible materials	EN 16510-2-3:2022, Art. 4.1	30-18188/T
3 Hygiene, health and the environment			
3.1	At nominal heat output:		
3.1.1	Carbon monoxide emission (CO)	EN 16510-2-3:2022, Art. 4.2	30-18188/T
3.1.2	Nitrogen oxides (NOx) emissions	EN 16510-2-3:2022, Art. 4.3	30-18188/T
3.1.3	Emission of organic gaseous carbon (OGC)	EN 16510-2-3:2022, Art. 4.4	30-18188/T
3.1.4	Particulate matter emissions (PM)	EN 16510-2-3:2022, Art. 4.5	30-18188/T
3.2	At part load heat output:		
3.2.1	Carbon monoxide emission (CO)	EN 16510-2-3:2022, Art. 4.2	-
3.2.2	Nitrogen oxides (NOx) emissions	EN 16510-2-3:2022, Art. 4.3	-
3.2.3	Emission of organic gaseous carbon (OGC)	EN 16510-2-3:2022, Art. 4.4	-
3.2.4	Particulate matter emissions (PM)	EN 16510-2-3:2022, Art. 4.5	-
4 Safety and accessibility in use			
4.1	Data for installation to a chimney at nominal heat output:		
4.1.1	Flue gas outlet temperature	EN 16510-2-3:2022, Art. 4.6.2	30-18188/T
4.1.2	Minimum flue draught	EN 16510-2-3:2022, Art. 4.6.4	30-18188/T
4.1.3	Flue gas mass flow	EN 16510-2-3:2022, Art. 4.6.6	30-18188/T
4.2	Data for installation to a chimney at part load heat output:		
4.2.1	Flue gas outlet temperature	EN 16510-2-3:2022, Art. 4.6.3	-
4.2.2	Minimum flue draught	EN 16510-2-3:2022, Art. 4.6.5	-
4.2.3	Flue gas mass flow	EN 16510-2-3:2022, Art. 4.6.7	-
4.3	Data for installation to a chimney regarding fire safety on safety test heat output:		
4.3.1	Fire safety of installation to the chimney	EN 16510-2-3:2022, Art. 4.6.8	30-18188/T

Essential characteristics		Requirement clauses in this harmonized standard	Document
5 Protection against noise			
-	-	-	0
6 Energy economy and heat retention			
6.1	Appliance's thermal output and energy efficiency at nominal heat output:		
6.1.1	Space heat output	EN 16510-2-3:2022, Art. 4.7.1	30-18188/T
6.1.2	Water heat output, if existing	EN 16510-2-3:2022, Art. 4.7.2	-
6.1.3	Efficiency	EN 16510-2-3:2022, Art. 4.7.3	30-18188/T
6.2	Appliance's thermal output and energy efficiency at part load heat output:		
6.2.1	Space heat output	EN 16510-2-3:2022, Art. 4.7.4	-
6.2.2	Water heat output, if existing	EN 16510-2-3:2022, Art. 4.7.5	-
6.2.3	Efficiency	EN 16510-2-3:2022, Art. 4.7.6	-
6.3	Space heating efficiency		
6.3.1	Seasonal space heating efficiency at appliance's nominal heat output	EN 16510-2-3:2022, Art. 4.7.7	30-18188/T
6.3.2	Energy efficiency	EN 16510-2-3:2022, Art. 4.7.8	30-18188/T
6.3.3	Electric power consumption at appliance's nominal heat output, if existing	EN 16510-2-3:2022, Art. 4.7.9	-
6.3.4	Electric power consumption at appliance's part load heat output, if existing	EN 16510-2-3:2022, Art. 4.7.10	-
6.3.5	Standby mode power consumption, if existing	EN 16510-2-3:2022, Art. 4.7.11	-
7 Sustainable use of natural resources			
7.1	Environmental sustainability	EN 16510-2-3:2022, Art. 4.8	*x
*Note: X Not evaluated			

V. Conclusion

This Assessment of Performance Report attests that the performance of the above-mentioned construction product has been assessed in accordance with the harmonised standard EN 16510-2-3:2022 under AVCP system 3 with regard to the essential characteristics listed below.

Cooker for wood, type designation NORTH ECO

tab. 4		
Essential characteristic	Performance	
Safety in case of fire		
Protection of combustible materials	Minimum distances to combustible materials, in mm	
	bottom (d_B)	0
	floor in front (d_F) *)	300
	ceiling (d_C)	>750
	rear (d_R)	350
	side (d_S)	200
	side radiation area (d_L) *)	300
	adjacent combustible materials (e.g. furniture) (d_P)	750
Additional spacer 100 mm – side	side (d_S)	0
Hygiene, health and the environment		
	At nominal heat output, in mg/m^3 at 13 % O_2	At part load heat output, in mg/m^3 at 13 % O_2
Carbon monoxide emission (CO)	1500	-
Nitrogen oxides emissions (NO_x)	200	-
Emission of organic gaseous carbon (OGC)	120	-
Particulate matter emissions (PM)	40	-
Safety and accessibility in use		
Flue gas outlet temperature	170 °C	-
Minimum flue draught	12 Pa	
Flue gas mass flow	6.4 g/s	
Data for installation to a chimney regarding fire safety on safety test heat output:		
Fire safety of installation to the chimney	T 400 G	
Energy economy and heat retention		
	At nominal heat output:	At part load heat output:
Space heat output	8.3 kW	-
Water heat output, if existing	-	-
Efficiency	90 %	-
Seasonal space heating efficiency	80 %	-
Energy efficiency - index EEI		121
Energy efficiency classification (Class)		A+
Electric power consumption	-	-
Standby mode power consumption		-

*) in case limit 65 K is not superseded due to radiation on the floor in front and/or on the side walls, d_F and/or d_L can be declared 0 mm

This Assessment of Performance Report has been drawn up in accordance with the GNB Position Paper NB-CPR 23/936 and covers only the above-mentioned essential characteristic(s). It is not an exhaustive statement of the performance of the product. The manufacturer is responsible for the Declaration of Performance of the product and can declare the performance of other essential characteristics than those mentioned above.

This Assessment of Performance report is not considered a product certificate or a document to directly accompany neither the product nor the Declaration of Performance, see CPR Article 4(3).

This Assessment of Performance Report will remain applicable, under the manufacturer's responsibility, as long as neither the harmonised standard, the construction product, nor the AVCP methods are modified significantly.

VI. List of the used documents

- Application dated on 2025-10-27 (ev. number B-86355 booked at SZU on 2025-10-29)
- Contract B-86355/30

- Test report 30-18188/T of 2025-12-10
- 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
- ČSN EN 16510-1 ed. 2:2024 - Residential solid fuel burning appliances - Part 1: General requirements and test methods (Czech version of European Standard EN 16510-1 ed. 2:2022)
- ČSN EN 16510-2-3:2025 - Residential solid fuel burning appliances - Part 2-3: Cookers (Czech version of European Standard EN 16510-2-3:2022)
- Technical documentation (given at Chapter II)