



Strojirenský zkušební ústav, s.p.
(Engineering Test Institute, Public Enterprise)
Product Certification Body 3040

Accredited by the Czech Accreditation Institute pursuant to ČSN EN ISO/IEC 17065:2013
Hudcova 424/56b, 621 00 Brno, Czech Republic

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FINAL REPORT

32-10506/TZ

Product: Hot-water boilers for solid fuel (wood pellets – C1)
with automatic fuel supply

Type designation: V6 PELLET MINI

Versions see page 2

Customer: MCE Małopolskie Centrum Ekologiczne S. Migdalek, P. Kozłowski s.c.
Klecza Dolna 15a, 32-124 Klecza Górna,
POLAND

Manufacture: GREŃ sp.j.
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43-200 Pszczyna
POLAND

Report issue date: 2020-11-10

Distribution list: 1 copy to the Engineering Test Institute
1 copy to the Customer



The product conformity assessment was carried out pursuant to ČSN EN 303-5:2013.

Product certification scheme applied: ČSN EN ISO / IEC 17067:2014, Scheme 1a.

I. Specification of the product (and its versions)

The hot-water boiler for solid fuel (Wood Pellets - C1) with automatic fuel supply, type V6 PELLET MINI is intended for heating of residential houses and similar buildings. The boiler comprises the boiler body, slanted fuel feed auger and ash containers.

The boiler body consists of a steel weldment, and it is divided into the combustion chamber and the heat exchanger part.

Water connections are in the top wall of the boiler. Electronic control unit is in the top part of the front wall.

Further detailed descriptions of individual assembly groups are provided in the enclosed technical documentation to Task 32-10506.

Boiler output version	Nominal heat output [kW]	Fuel
V6 PELLET MINI 13	13.0	Wood pellets – C1
V6 PELLET MINI 15	15.0	
V6 PELLET MINI 16	16.0	
V6 PELLET MINI 20	20.0	
V6 PELLET MINI 24	24.0	
V6 PELLET MINI 25	25.0	
V6 PELLET MINI 28	28.0	
V6 PELLET MINI 30	30.0	
V6 PELLET MINI 32	32.0	
V6 PELLET MINI 35	35.0	
V6 PELLET MINI 40	40.0	
V6 PELLET MINI 45	44.0	

*) with Bado pellet burner PELETIX II MC (15, 25, 40)

II. List of submitted technical documentation

		Table 1
No.	Submitted documentation:	
1.	A set of technical documentation for task No. 32-10231, 32-10506	
2.	Boiler labels	
3.	Instructions for assembly, installation and operation of the boiler	
4.	Risk assessment	
5.	A set of required drawing documentation as per ČSN EN 303-5:2013	



III. Assessment of technical file

No.	Requirement:	Standard, technical regulation applied:	Source material, document:	Evaluation: *
1.	Documentation	EN 303-5:2013	Evaluation Report 32-10506/TH	+
* Evaluation:				
+ The documentation is complete and adequate		- The documentation is incomplete and inadequate		0 The documentation is unnecessary for the activities ordered

The submitted technical documentation is complete and has been found sufficient for assessment of conformity with the requirements of the abovementioned standard/s.

Detailed results are contained in the quoted Evaluation Report.

I. Evaluation results

The evaluation results are shown in Table 1.:

No.	Requirement	Technical standard, regulation applied	Source, report	Evaluation
1.	General requirements	ČSN EN 303-5:2013 Art. 4.1	32-10506/TH	+
2.	Construction requirements	ČSN EN 303-5:2013 Art. 4.2, 4.2.1, 4.2.1.1, 4.2.1.2, 4.2.2, 4.2.2.1, 4.2.2.2, 4.2.2.3, 4.2.2.4, 4.2.4, 4.2.4.1, 4.2.4.2, 4.2.4.3, 4.2.4.4, 4.2.4.5, 4.2.4.6, 4.2.4.7, 4.2.4.8, 4.2.4.9, 4.2.4.10, 4.2.4.11, 4.2.4.12	32-10506/TH	+
3.	Safety requirements	ČSN EN 303-5:2013 Art. 4.3, 4.3.1, 4.3.3, 4.3.3.1, 4.3.3.2, 4.3.3.3, 4.3.3.4, 4.3.3.5, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.8.1, 4.3.8.2, 4.3.8.3, 4.3.8.4, 4.3.9, 4.3.9.1 Art. 4.3.9.2, 4.3.9.3	32-10506/TH	+
4.	Performance requirements	ČSN EN 303-5:2013 Art. 4.4, 4.4.1, 4.4.2, 4.4.3, 4.4.4, 4.4.5, 4.4.6, 4.4.7	32-10506/TH	+
5.	Marking	ČSN EN 303-5:2013 Art. 7, 7.1, 7.2, 7.3	32-10506/TH	+
6.	Technical documentation, supplied with boiler	ČSN EN 303-5:2013 Art. 8, 8.1, 8.2, 8.3, 5.16.1	32-10506/TH	+
7.	Pressurized component tightness and strength test (T 001*)	ČSN EN 303-5:2013 Art. 5.4, 5.4.1, 5.4.2	32-10506/TH	+
8.	Test of hydraulic pressure drop (T 001*)	ČSN EN 303-5:2013 Art. 4.2.4.9	32-10506/TH	+
9.	Surface temperature test (T 001*)	ČSN EN 303-5:2013 Art. 5.12, 5.16.4, 4.3.6	32-10506/TH	+
10.	Test of heat output, input and efficiency(T 001*) Test of combustion product temperature (T 001*)	ČSN EN 303-5:2013 Art. 4.4.2, 4.4.3, 5.7, 5.8, 5.10 ČSN EN 303-5:2013 Art. 4.4.3	32-10506/TH	+
11.	Electrical consumption (T 071*)	ČSN EN 303-5:2013 Art. 5.8.5 ČSN EN 15456 Art. 5	32-10506/TH	+
12.	Combustion efficiency test – emissions (T 001*)	ČSN EN 303-5:2013 Art. 5.7.3, 5.7.4, 5.9, 5.10.4	32-10506/TH	+



No.	Requirement	Technical standard, regulation applied	Source, report	Evaluation
13.	Test of heat output, input and efficiency (T 001*) Combustion efficiency test – emissions (T 001*)	ČSN EN 303-5:2013 Annex C, Deviation from Austria, C.2.2, C.2.3	32-10506/TH	+
		ČSN EN 303-5:2013 Annex C, C.3 Deviation from Croatia	-	0
		ČSN EN 303-5:2013 Annex C, Deviation from Denmark , C.4.1, C.4.2	32-10506/TH	+
		ČSN EN 303-5:2013 Annex C, Deviation from Germany, C.5.1, C.5.2	32-10506/TH	-
		ČSN EN 303-5:2013 Annex C C.6 Deviation from Switzerland	32-10506/TH	+
		ČSN EN 303-5:2013 Annex C C.8 Deviation for Italy	32-10506/TH	+ #
14.	Test of control, regulation and safety elements (T 001*) Combustion efficiency test – emissions (T 001*)	ČSN EN 303-5:2013 Art. 5.13, 5.14, 5.16.2, 5.16.3 ČSN EN 303-5:2013 Art. 5.9, 5.10.4	32-10506/TH	+
15.	Test of device for dissipating excess heat (T 001*)	ČSN EN 303-5:2013, Art. 4.1, 5.15	32-10506/TH	+

Note:

#:

C.8 Deviation for Italy is applicable to:

V6 PELLET MINI 35, V6 PELLET MINI 40, V6 PELLET MINI 45

Evaluation:

+ requirement fulfilled

- requirement NOT fulfilled

X not rated

0 not applicable

IV. Conclusion

It ensues from examination of the submitted technical documentation and from the verifications and tests performed that the products:

Hot-water boilers for solid fuel (wood pellets – C1) with automatic fuel supply type:

**V6 PELLET MINI 13, V6 PELLET MINI 15, V6 PELLET MINI 16, V6 PELLET MINI 20,
V6 PELLET MINI 24, V6 PELLET MINI 25, V6 PELLET MINI 28, V6 PELLET MINI 30,
V6 PELLET MINI 32, V6 PELLET MINI 35, V6 PELLET MINI 40, V6 PELLET MINI 45**

have been designed and manufactured in compliance with ČSN EN 303-5:2013.



V. A List of referenced documents

- Order B-71431 of 2020-11-03 (Order reg. no. B-71431 delivered on 2020-11-04)
- Contract B-71431/32
- ČSN EN 303-5:2013 – Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking
- Evaluation report 32-10506/TH of 2020-11-10
- A set of technical documentation:
- A set of technical documentation for task No. 32-10231, 32-10506
- Instructions for assembly, installation and operation of the boiler
- USER MANUAL 11/2020
- Boiler label

Document compiled by:

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A blue ink handwritten signature, appearing to be 'A. Onderek', written over a horizontal line.



Ing. Aleš Onderek
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