Termoplam Ltd.
Testing laboratory

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TEST REPORT №148/07.02.2020

on the compliance of Roomheater fired by solid fuel (fireplace) LAVA with the requirements of COMMISSION REGULATION (EU) 2015/1185 of 24 April 2015.

I. NAME AND SIGNATURE OF THE TESTED SAMPLE:
Roomheater device (fireplace) fired by solid fuel - wood model LAVA.

II. NAME AND DESCRIPTION OF THE TESTED SAMPLE:
Roomheater device (fireplace) LAVA made of cast iron by casting with rated heating output 12,5 kW.

III. LEGAL DOCUMENT: COMMISSION REGULATION (EU) 2015/1185 of April 2015

Lava

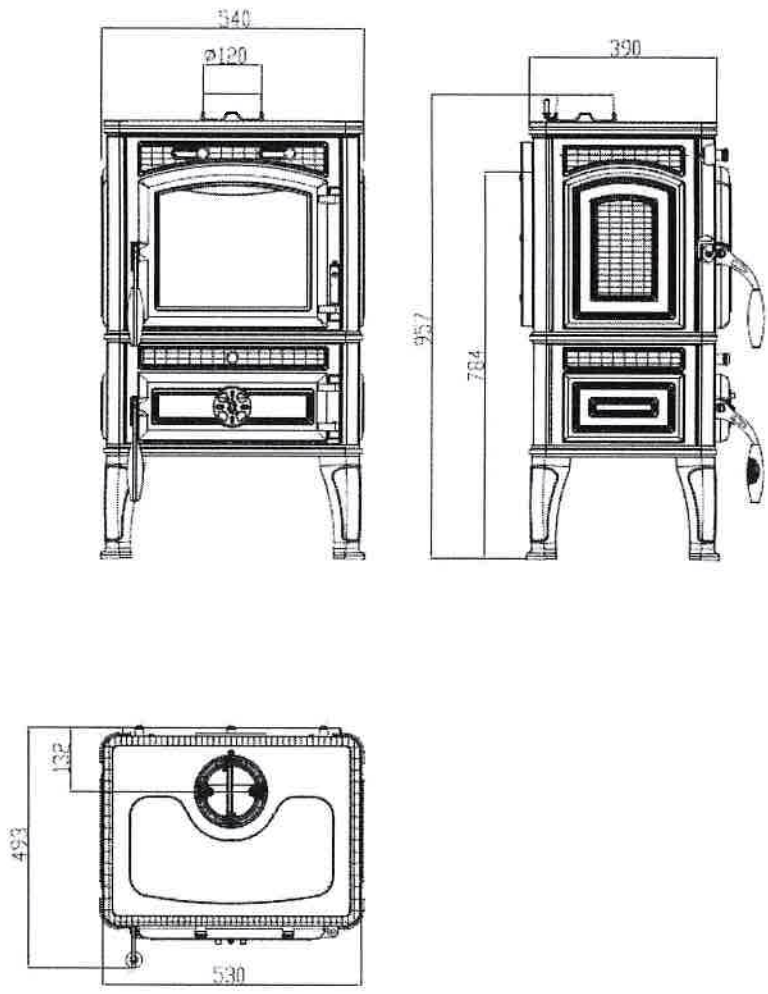
Picture of the sample

IV. QUANTITY OF THE TESTED SAMPLES: The Room heater device LAVA is arbitrarily selected unit of regular production.

V. CUSTOMER:
IKL - Industrijski Kombinat Livnica DOO Guča; Albanske spomenice bb, 32230 Guča, Serbia.

VI. PURPOSE AND OBJECT OF THE TASK: Evaluation the compliance of firebox LAVA with the requirements of
COMMISSION REGULATION (EU) 2015/1185 of 24 April 2015.

VII. TECHNICAL FEATURES:



Scheme (draft of the sample)

VIII. TEST CONDITIONS:

8.1. Working condition of the combustion device - according to the requirements for tests at nominal output according to EN 13240:2001.
8.2. Processing of results – calculate according to normal physical conditions and at 13% O_2.
8.3. Used results of the Test Report № 0068/02.03.2011 of TERMOTEST KONSULT LTD, Sofia.
8.4. Used results from the Test Report № 1977T.1/ 12.02.2020 of Laboratory testing calibration "LIPGEI" Sofia.

IX. RESULTS AND OBSERVATIONS :

9.1. Seasonal space heating emissions:

9.1.1. Dust content of exhaust gases: PM* = 35 mg/Nm^3 ≤ [PM] = 40 mg/Nm^3; [PM] = 40 mg/Nm^3 in accordance with point 2 (a) (ii), of Annex II of the REGULATION (EU) 2015/1185.

9.1.2. CO of exhaust gases: CO* = 1221 mg/Nm^3 ≤ [CO] = 1500 mg/Nm^3; [CO] = 1500 mg/Nm^3 in accordance with point 2 (c) (ii), of Annex II of the REGULATION (EU) 2015/1185.

9.1.3. OGC of exhaust gases: OGC* = 74 mg/Nm^3 ≤ [OGC] = 120 mg/Nm^3; [OGC] = 120 mg/Nm^3 in accordance with point 2 (b) (i), of Annex II of the REGULATION (EU) 2015/1185.

9.1.4. NOx of exhaust gases: NOx* = 129 mg/Nm^3 ≤ [NOx] = 200 mg/Nm^3; [NOx] = 200 mg/Nm^3 in accordance with point 2 (d) (i), of Annex II of the REGULATION (EU) 2015/1185.

* Results from the Test Report № 1977T.1/ 12.02.2020 of Laboratory testing calibration "LIPGEI" Sofia.

9.2. Seasonal space heating energy efficiency:

η_s = 69,1 % > [η_s] = 65 %

Where:

- η_s = 69,1 % - the seasonal space heating energy efficiency in active mode is calculated as $\eta_{th,nom}$:

- $\eta_{th,nom}$ = 78,1 % is the useful efficiency at nominal heat output, based on NCV. Result from the Report № 0068/02.03.2011 of TERMOTEST KONSULT LTD, Sofia.

- [η_s] ≥ 65 % in accordance with point 1 (a) (ii), of Annex II of the REGULATION (EU) 2015/1185.

X. CONCLUSION:

Room heater device LAVA is satisfying and fulfilling the requirements of REGULATION (EU) 2015/1185.

XI. ENCLOSURES:

11.1. Picture of residential cooker: 1
11.2. Assembly drawing of the sample: 1.

07.02.2020

MANAGER: .....
(eng. Pl. Iliev)

"ТЕРМОПЛАМ" ЕООД * СОФИЯ *

NOTE:
The test results and conclusions relate only to the tested samples.
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This document is only informative.