

Test reports



Sigma

1. Prøvnings- / Skorstensfejerattest DK s. 1
2. Test report for DE/UK s. 2
3. Test report for NO..... s. 5



TEST Reg.nr. 300



**TEKNOLOGISK
INSTITUT**

Teknologiparken
Kongsvang Allé 29
DK-8000 Aarhus C
Phone +45 72 20 10 00
Fax +45 72 20 10 19
Info@teknologisk.dk

TEKNOLOGISK INSTITUT

Akkrediteret prøvningsorgan, DANAK-akkreditering nr. 300
Notificeret prøvningsorgan med ID-nr. 1235

Prøvningsattest II

Uddrag af rapport nr. 300-ELAB-1903-EN og 300-ELAB-1903-NS

Emne: Pejseindsats, Sigma

Rekvirent: Jydepejsen A/S

Ahornsvinget 3-7, 7500 Holstebro

CVR nr.: 88387716 P-nr.: 1002792475

Procedure:

X	Prøvning efter DS/EN13229/A2:2004
X	Prøvning efter NS3058-1 & -2 (partikelmåling)
X	Emissionsmåling efter CEN/TS 15883 (støv og OGC)

Prøvningsresultater

Akkrediteret prøvning af brændeovn iht. EN 13229 er foretaget med brænde der påfyres manuelt, og følgende resultater blev opnået:

Nominel ydelse: 7,0 kW
CO-emission: 0,04 % - henført til 13 % O₂
Virkningsgrad: 79 %
Røggastemperatur: 273 °C
Afstand til bagvæg: - Se vejledning
Afstand til sidevæg: - Se vejledning

Emissioner iht. NS 3058 og/eller CEN/TS 15883:

Partikler efter NS 3058: 3,11 g/kg (tørstof) middelværdi (krav 2015:5 / 2017:4)
Partikler efter NS 3058: 4,22 g/kg (tørstof) maksimalt (krav 2015:10 / 2017:8)
OGC efter CEN/TS 15883: 27 mgC/Nm³ ved 13% O₂ (krav 2015:150 / 2017:120)
Støv efter CEN/TS 15883: 10 mg/Nm³ ved 13% O₂ (krav 2015:40 / 2017:30)

Bemærk venligst, at de oplyste værdier er et uddrag af prøvningsrapporten.
For yderligere oplysninger henvises til prøvningsrapporten, se nummer ovenfor.

Aarhus, den 18. juni 2015  Kim Sig Andersen Konsulent	Skorstensfejerpåtegning
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På baggrund af ovennævnte emissioner attesteres det hermed, at fyringsanlægget opfylder emissionskravene i bilag 1 til Bekendtgørelse nr. 46 af 22/01-2015 om regulering af luftforurening fra fyringsanlæg til fast brændsel under 1 MW, for så vidt:

Krav fra 2015 til januar 2017 opfyldt:	X	Krav efter januar 2017 opfyldt:	X
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Kongsvang Allé 29
8000 Aarhus C
Denmark
+45 72 20 20 00
info@dti.dk
www.dti.dk

TEST REPORT

Date: 2014.11.07

Report no.: 300-ELAB-1903-EN ver. 1 Page 1 of 12

Initials: JSA/KMSA

Order no.: 517430

No. of appendices: 2

Requested by: Contact person: Jens Skov

Company: Jydepejsen AS

Address: Ahornsvinget 7-9

Postcode/town: DK-7500 Holstebro Country: Denmark

Tel.: +45 96101200 Email: salg@jydepejsen.dk

Product: Solid fuel inset Type: Sigma Test fuel: wood logs

Manufacturer: JP Production s.r.o.

Address: Pri rybniku 1862/15,

Postcode/town 091 01 Stropkov Country: Slovakia

Deadlines: Date of receipt: 2013.03.05

Date of testing: 2013.03.05 – 2013.03.14 and 2013.04.04

Procedure: Testing of a solid fuel stove in accordance with DS/EN 13229:2001 and DS/EN 13229:2001/A2:2004. Emission measurements are in accordance with DS/CEN/TS 15883. The uncertainty of the measurements meets the requirements of DS/EN 13229 clause A3.

Result: The stove meets the requirements of EN 13229

Remarks: See paragraph 2.

Terms:

Accredited testing was carried out in compliance with the current guidelines laid down by DANAK (Danish Laboratory Accreditation Scheme), cf. www.danak.dk, and in compliance with Danish Technological Institute's General Terms and Conditions Regarding Commissioned Work Accepted by Danish Technological Institute, February 2011. The test results apply to the tested products only. This test report may be reproduced in extract only if the Laboratory has approved the extract in writing. Danish Technological Institute is Notified Body with identification number 1235 and DIN Certco test laboratory, PL 168.

Issued by: Danish Technological Institute, Energy Laboratory

**Signature/
Contact:** 
Kim Sig Andersen
Consultant



5. Test results

5.1. Nominal test in accordance with EN 13229 A.4.7 with wood as test fuel, results calculated from the two selected charges

Parameter	Value			Requirement	Unit
	1st charge	2nd charge	3rd charge		
No. wood logs per charge	2	2	2	-	pcs
Weight per charge	1.81	1.79	1.79	-	kg
Fuel moisture	14	14	14	16 ± 4	% (integer)
Lower calorific value	15.5	15.5	15.5	-	MJ/kg
Test duration	0.80	0.83	0.78	Min. 0.75h (in one charge)	h
Fuel consumption per hour	2.28	2.17	2.28	-	kg/h
Mean ambient temperature	25	25	26	-	°C
Flue gas temp. at 20 °C ambient temp.	275	270	275	-	°C
CO ₂ , mean value	9.4	9.3	9.5	-	%
CO, mean value	0.05	0.05	0.06	-	%
THC, mean value	59	54	89	-	ppm
Dust at actual O ₂	15	10	15	-	mg/m ³ _n
Flue draught, mean value	12	12	12	12 ± 2	Pa
Heat conduction system					
Water flow	-	-	-	-	m ³ /h
Water temperature – inlet	-	-	-	-	°C
Water temperature – outlet	-	-	-	-	°C

Mean values calculated based on 1 st and 2 nd charge			
Flue gas temperature at 20 °C ambient temp.	273	-	°C
Flue gas mass flow	6.9	-	g/sec
Efficiency	79	=50	%
Nominal heat output, total (measured)	7.5	-	kW
Nominal heat output, ambient (measured)	7.5	-	kW
Nominal heat output, water (measured)	-	-	kW
CO ₂ , mean value	9.4	-	%
CO at 13 % O ₂	0.041	=1.0	%
OGC at 13 % O ₂ (carbon equivalents)	27	-	mg/m ³ _n
NO _x at 13 % O ₂ (NO ₂ equivalents)	84	-	mg/m ³ _n
Dust at 13 % O ₂	9	-	mg/m ³ _n



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TEST REPORT

Date: 2014.05.10

Report no.: 300-ELAB-1903-AEA

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Initials: JSA

Order no.: 517430

No. of appendices: 8

Requested by: Contact person: Jens Skov

Company: Jydepejsen AS

Address: Ahornsvinget 7-9

Postcode/town: DK-7500 Holstebro Country: Denmark

Tel.: +45 96101200 Email: salg@jydepejsen.dk

Product: Solid fuel inset Type: JP Sigma Test fuel: Cut spruce

Manufacturer: JP Production s.r.o.

Address: Pri rybniku 1862/15,

Postcode/town 091 01 Stropkov Country: Slovakia

Deadlines: Date of receipt: 2013.03.05

Date of testing: 2013.03.14 – 2013.03.25

Procedure: Testing of solid fuel appliance in accordance with NS 3058-1, 1st edition (test facility and heating pattern), NS 3058-2, 1st edition (determination of particulate emission) and NS 3059, 1st edition (smoke emission – requirements). The uncertainty of the measurements meets the requirements in NS 3058-1, paragraph 3 and NS 3058-2, paragraph 5

Result: All passed. Please find further details in paragraph 4, Main results.

Remarks: No remarks.

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**Signature/
Contact:** Jes Sig Andersen
Senior Consultant



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TEST REPORT

Date: 2014.05.10

Report no.: 300-ELAB-1903-NS

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Initials: JSA

Order no.: 517430

No. of appendices: 5

Requested by: Contact person: Jens Skov

Company: Jydepejsen AS

Address: Ahornsvinget 7-9

Postcode/town: DK-7500 Holstebro Country: Denmark

Tel.: +45 96101200 Email: salg@jydepejsen.dk

Product: Solid fuel inset Type: JP Sigma Test fuel: wood logs

Manufacturer: JP Production s.r.o.

Address: Pri rybniku 1862/15,

Postcode/town 091 01 Stropkov Country: Slovakia

Deadlines: Date of receipt: 2013.03.05

Date of testing: 2013.03.05 – 2013.03.14 and 2013.04.04

Procedure: Testing of solid fuel appliance in accordance with NS 3058-1, 1st edition (test facility and heating pattern), NS 3058-2, 1st edition (determination of particulate emission) and NS 3059, 1st edition (smoke emission – requirements).

Result: The stove meets the requirements of NS 3059

Remarks: See paragraph 2.

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Contact:** Jes Sig Andersen
Senior Consultant