

REPORT NO. B08.850.003.100

☒ carried out as part of the accreditation purpose

CARRIED OUT FOR: MINKA
Holz-und Metallverarbeitings GmbH.
Flurgasse 6
8642-St. Lorenzen/Mzt.

TESTING: Airtightness test carried out on the loft ladder according
to EN 1026.

CARRIED OUT ON: **“MINKA – Loft Ladder, Type T 24 Royal Polar”**
Product description - see page 2

DATE: 16.06.2008

CONTENTS OF THE TEST REPORT:

- 1 Test description
- 2 Product tested
- 3 Testing
- 4 Test results
- 5 Observations
- 6 Validity of the test report
- Annex 1 Testing
- Annex 2 Test report

TEST REPORT: 6 A4 pages , including annexes

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Überwachungsstelle gemäß Art. 18
Bauproduktenrichtlinie 89/106/EWG
vom 21.12.1988 unter der Nr. 2064



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Steiermärkischen
Akkreditierungsgesetz
LGBl Nr. 62 / 1995



1 TEST DESCRIPTION

Airtightness test carried out on the loft ladder according to EN 1026.

2 PRODUCT TESTED

The applicant selected and delivered the **"MINKA – Loft ladder, Type T 24 Royal Polar"** with single foam seal RAKU PUR 32-3218-7 in the feed box:

- 27 mm thick lining box of spruce solid bottom cover
- 3 mm hardboard
- 81 mm polystyrene plate
- 3 mm hardboard

Cover frame 81 mm thick concealed edge of spruce solid hinges and two locks on closure side (elliptical cones)

Test statistic: 686 x 1190 cm

3 TESTING

3.1 TEST

The test rig consists of a vertical inspection plate, normal thereto arranged vertical and horizontal, fixed and movable side walls which form a forwardly open box. The inspection element is pressed free of deformation at the open front of this box by means of threaded spindles and pneumatic cylinders.

In the box is blown through an attached at the rear opening by means of a radial blower or compressor pressure regulated air for testing the air permeability, the behaviour under wind loading and water tightness. In the box EN 1027, parallel, equipped with full cone nozzles spray tubes for testing the water tightness are respectively mounted.

The measurement of the test pressure to the atmospheric pressure is carried out with Capsule pressure gauges, air and water quantities warden with floating cone measuring cylinders.

3.2 CARRIED OUT BY:

Laboratory of Building Physics, Inffeldgasse 24, 8010 Graz.

3.3 TEST DATE: 03.06.2008

3.4 STANDARD

The test was carried out in accordance with the specifications of EN 1026

3.4.1 TESTING THE AIR PERMEABILITY

For the measurement of the air permeability, the top has been suspended in accordance with EN 1026.

The examination of the air permeability was conducted in accordance with EN 1026th. Before testing the air permeability of the test specimen was covered with a PE film. A measurement of the air permeability in this state results in the passage of air through the connection of the test element and the clamping to test. Thereafter, the PE film was cut out and the air permeability, stress class 4 measured. From the measured values obtained in this case, the air passage was by connecting the test element and the clamping to test subtracted. From the comparison of the measured value the length-related air permeability with the limit curve for the load classes, there is the stress reached class according to EN 12207.

4 TEST RESULTS

4.1 CLASS NO.

TABLE 1: Scored Stress class

Section	Property	Class
3.4.1	Air permeability	4

5 OBSERVATIONS

The test was carried out so that the pressure - on the customer's request - was applied to the top of the attic statements.

The examination and test results relate to the test object. Any leaks during installation (building connection) must be considered separately.

6 APPLICATION OF THE TEST REPORT

The test report is only valid for the tested object and on the conditions under which the test was performed.

The test report may only be reproduced in warden extent, an abbreviated form, or excerpts from this report must by copying writing from the Laboratory of Physics at the Institute of Construction & Building Physics at the TU Graz, warden approved.

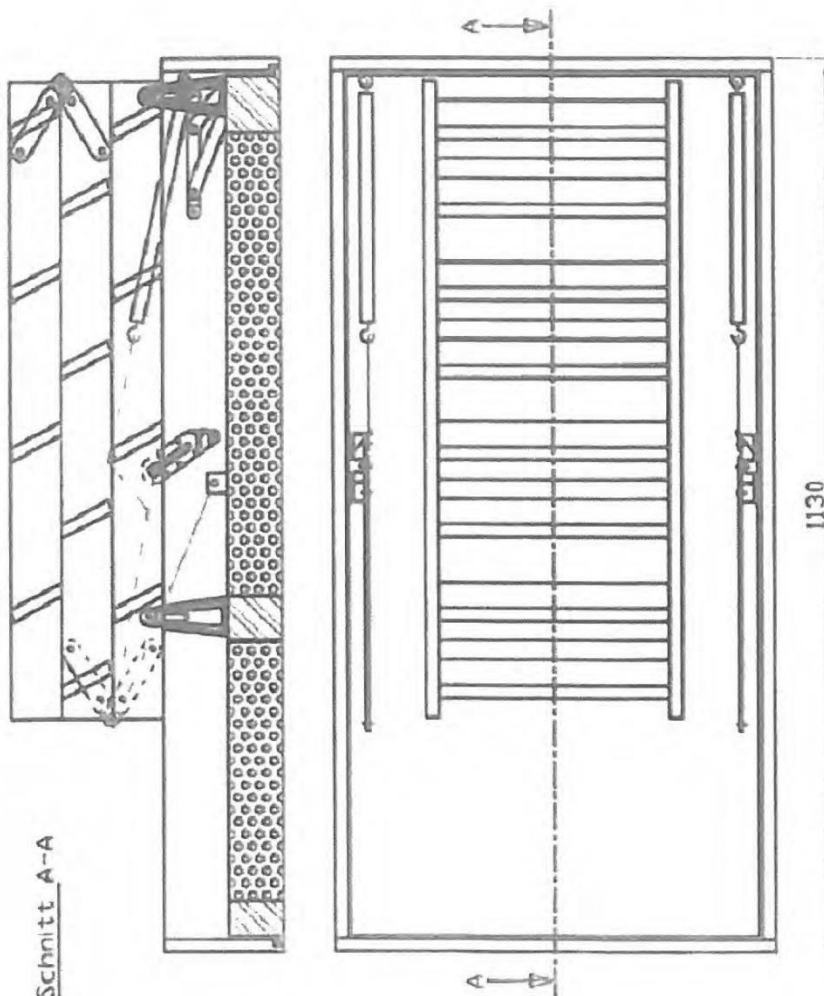
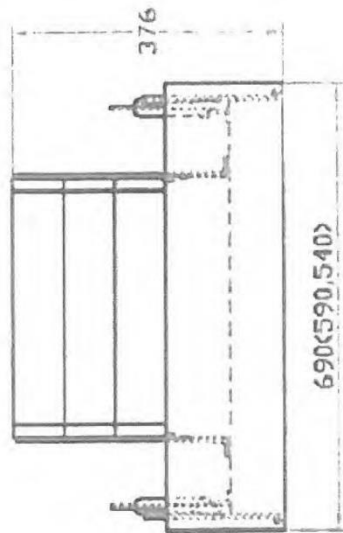


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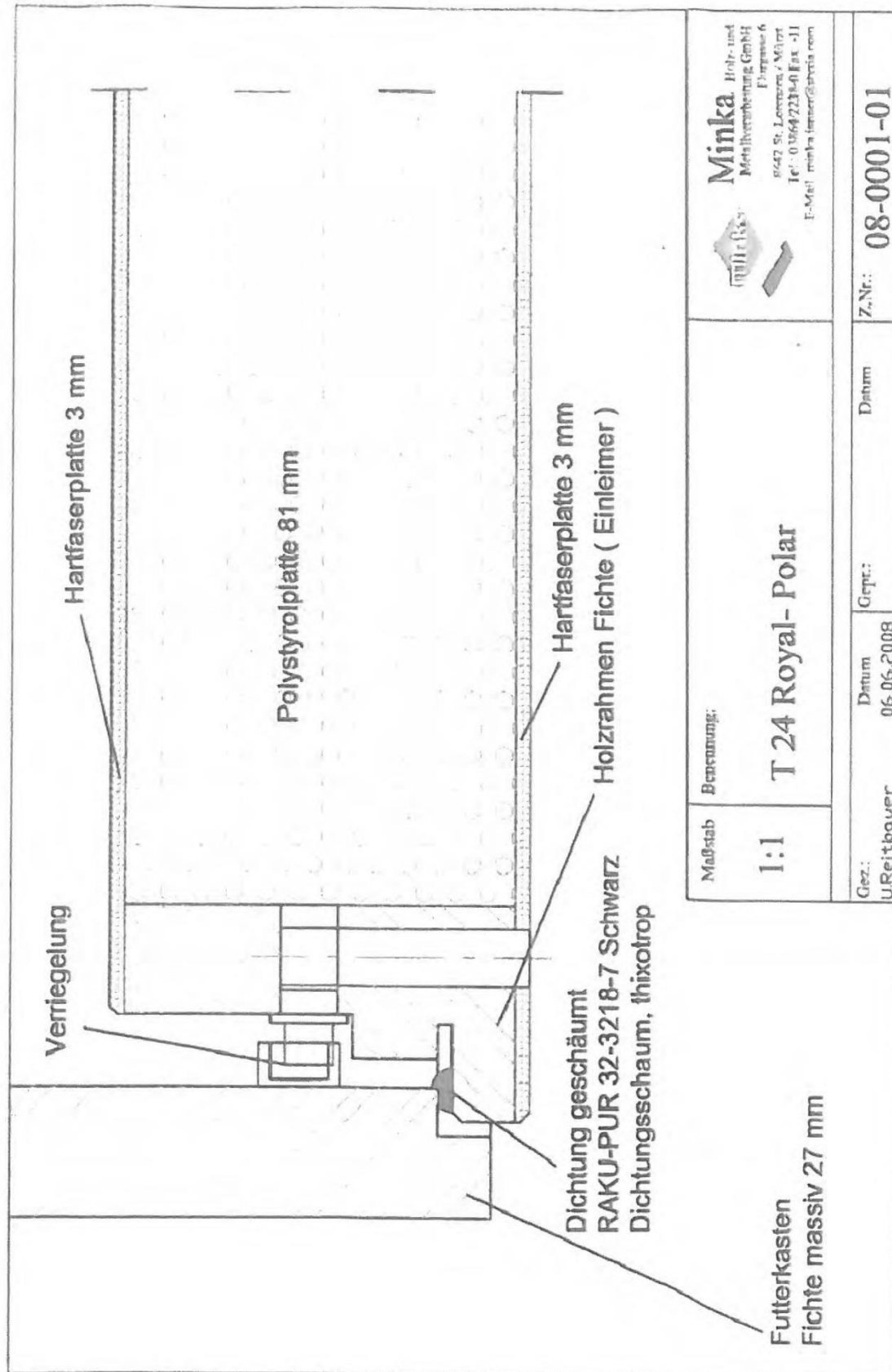



Dipl.- Ing. Heinz Ferk
 Laborleiter

Annex 1: Testing



Picture 1, 2 and 3:
 The loft ladder that has
 been tested



Figures 4 and 5: Loft ladder's lid and door frame

Annex 2: Test report

Tabelle 3.1 Luftdurchlässigkeit

Prüfdruck- differenz	$V_{L,ref}$	V_{F1}
Pa	$m^3/h.m$	$m^3/h.m^2$
10	0,00	0,00
50	0,02	0,09
100	0,03	0,15
150	0,04	0,18
200	0,05	0,24
250	0,06	0,27
300	0,07	0,30
450	0,12	0,52
600	0,14	0,61
750	0,00	0,00

$V_{L,ref}$ = längenbezogene Luftdurchlässigkeit

V_{F1} = Gesamtflächenbez. Luftdurchlässigkeit

SCHLAGREGENDICHTHEIT

Wasseraustritt -- min. nach Prüfbeginn, bei einem
Prüfdruck von --- Pa an unten dargestelltem Ort

Bild 3.1: Ort des Wasseraustritts

Lufttemperatur im Prüfraum 22 °C

Lufttemperatur im Prüfstand 20 °C

WINDWIDERSTANDSFÄHIGKEIT

Positiver/Negativer Druck

Prüfdruck: Pa

Schäden:

Wiederholtem Druck

Prüfdruck: Pa

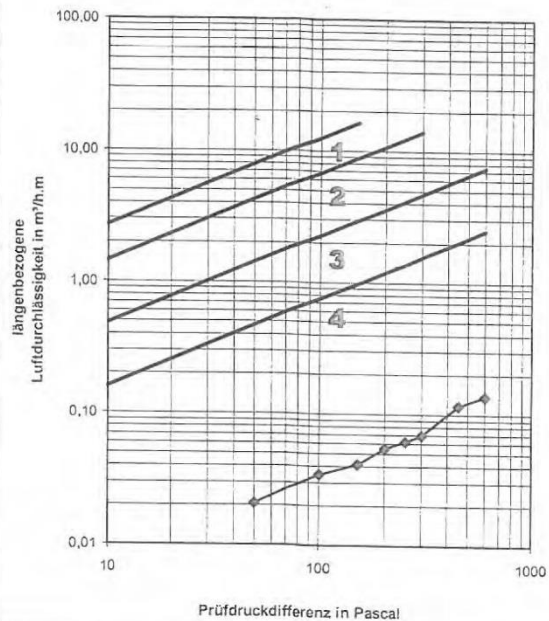
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Prüfdruck: Pa

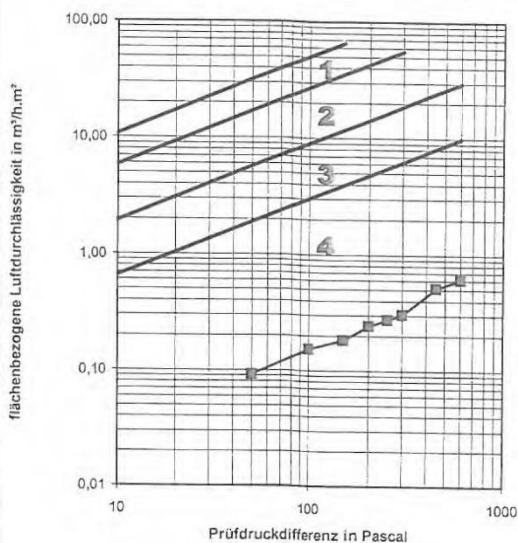
Schäden:

Diagramm 3.1:
längenbezogene Luftdurchlässigkeit



Klasse = 4

Diagramm 3.2:
Gesamtflächenbezogene Luftdurchlässigkeit



Klasse = 4