

Test report

No. 601 22579/2 e

Fenster
Türen
Fassaden
Werkstoffe
Zubehör



Date of report

6 July 2000

Customer

AL7-MEIPA Spa
Via Poggio Renatico, 1/3
I - 400016 San Giorgio di Piano (Bo)

Order

Testing of the durability of air-filled insulating glass units according to DIN 1286 part 1

Specimen

Air-filled insulating glass unit with a valve;
System: „Insulating glass unit with 2-way valve“

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1 Definition of task

The ift Rosenheim was charged by company AL7-MEIPA, I - 400016 San Giorgio di Piano (Bo), to carry out a testing of the durability of air-filled insulating glass units according to DIN 1286 part 1.

2 Specimen

Specimen collection Production of the necessary specimens according to DIN 52344 by the customer in January 2000

Specimen delivery 2 February 2000

Test period 7 February until 26 June 2000

Specimen Insulating glass units, air-filled

System name Insulating glass unit with 2-way valve

Manufacturer Vetreria Magon di Sergio Magon & C s.n.c.

Specimen description according to information given by the customer:

Unit construction 4/12/4 mm

Exterior dimensions 500 mm x 350 mm

Spacer

Material, Producer Aluminium, company Alupro

Corner construction four-side bended with a lengthening piece of metal; company Kronenberg

Desiccant

Make Zeolith 3Å, Siliporite NK 30, company Ceca

Quantity and type about 32 g, on short side and one long side filled

Edge sealing two-phase

external: Product Basis Polysulfide, Naftotherm M 82, company Chemetall

Construction Sealant thickness on spacer back: 2 mm up to 3 mm

internal: Product Basis Polyisobutylene, Naftotherm BU-S, company Chemetall

Construction Visible width of butylene: about 3 mm

Valve Code no. 0736, installed by installing a hose into the spacer within a metal sleeve

3 Test procedure

After conclusion of the examination of the dew point temperature t_A (test according to DIN 52345) carried out using newly delivered samples, the moisture content of the desiccant b_A is determined on two samples according to DIN 52294. The test of changing climates following DIN 52344 was carried out twice using four samples without intermediate determination of the dew point temperature. After completion of the 12 week test period in changing climates (test according to DIN 52344) the dew point temperature t_E and the moisture content of the desiccant b_E was determined according to DIN 52294 on all specimens.

4 Test results

The results of the dew point temperature measurement and of the test of moisture content are listed in table 1.

Table 1 Measurement values

Specimen No.	Factory new condition		After test of changing climates		Increase in moisture content Δb in % $\Delta b = b_E - b_A$
	dew point t_A in °C	moisture content b_A in %	dew point t_E in °C	moisture content b_E in %	
1	<- 70 °C	-	<- 70 °C	3,9	2,9
2	<- 70 °C	-	<- 70 °C	3,4	2,4
3	<- 70 °C	-	<- 70 °C	3,3	2,3
4	<- 70 °C	-	<- 70 °C	2,7	1,7
5	<- 70 °C	1,0	-	-	-
6	<- 70 °C	1,0	-	-	-
Average value of test results	<- 70 °C	1,0	<- 70 °C	3,3	2,3
Requirements acc. to DIN 1286-1	≤ -30 °C	$\leq 4,0$	≤ -20 °C	-	$\leq 2,5$

The insulating glass unit

Insulating glass unit with 2-way valve

fulfills the requirements according to DIN 1286 part 1 "Insulating glass units; air-filled" and may thus be marked

Insulating glass unit DIN 1286 – L1.

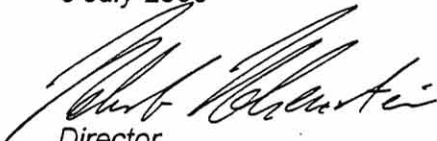
4.1 Validity of test results

The values given in this test report are only valid for the tested specimen described in item. 2.

5 Information for use of ift test reports

Regulations for the use of test reports are given in the enclosed information sheet „Conditions and information for use of ift test reports for publication and commercial purposes“. This test report is a translation of test report no. 601 22579/2 of 6 July 2000.

ift Rosenheim
6 July 2000



Director
Dr. Helmut Hohenstein



Dept. Material testing
Werner Stiell