

Air Permeability



Glas Vision 3000 windows have been fully independently tested by ift Rosenheim in Germany (full test results are available upon request) for Air Permeability, i.e. the ability of the window system to resist air leakage through the frame under positive and negative wind loads tested in set steps from 50Pa up to 600Pa.

The sample windows were tested to EN 1026 : 2000-06 and the results are classified in accordance with EN 12207 : 1999-11.

BS 6375-1 : 2004 generally recommends a class 2 rating for windows in the UK, i.e. not exceeding 6.75m³/h/m (joint) nor 27m³/h/m² (area) at 100Pa / no more than 13.5m³/h/m (joint) nor 52m³/h/m² (area) at 300Pa.

The performance levels achieved by the Vision 3000 product are well in excess of these requirements and all windows have attained a class 4 rating.

The actual results far exceeded even the exacting standard of the class 4 rating which is the highest attainable rating under this standard.

Performance

All windows tested satisfied the requirements of Class 4 (according to EN 12207 : 1999-11), i.e. not exceeding 0.75m³/h/m (joint) nor 3m³/h/m² (area) at 100Pa, no more than 2.50m³/h/m (joint) or 10m³/h/m² (area) at 600Pa.

The actual performance level of the windows tested far exceeds the requirements of Class 4 (the maximum attainable under the standard) and, at 600Pa:

The side hung open in and fixed light achieved: 0.87m³/h/m (joint) and 1.91m³/h/m² (area) and the tilt and turn achieved: 0.16m³/h/m (joint) and 0.44m³/h/m² (area)

- Tests carried out to EN 1026 : 2000-06 and are classified as EN 12207 : 1999-11.
- Individual test results refer to individual window types and sizes.
- Refer to full test reports and Glas Technical for full details.

Evidence of Performance

Resistance to wind load
Watertightness
Air permeability
Operating forces

Test Report 102 32005/2e

This is a translation of Test Report 102 32005/2 dated 2 October 2006

Client ERNE AG Holzbau
Fenstersysteme
Werkstraße 3

5080 Laufenburg
Switzerland

Product	Single side-hung window with fixed side light
Designation	Vision 3000 T2
Overall dimensions (W x H)	1230 mm x 1480 mm
Frame material	Wood profiles (pine) with external aluminium cladding
Special features	-/-



Basis
EN 14351-1 : 2006-03,
Windows and external doors –
Product standard

Test standard:
EN 1026 : 2000-06
EN 1027 : 2000-06
EN 12211 : 2000-06
EN 12046-1 : 2003-11

Representation



Instructions for use
The present test report serves to demonstrate the above characteristics of windows according to EN 14351-1 : 2006-03.

Validity
The data and results provided refer solely to the tested and described specimen.

Subject to compliance with the relevant casement weights, the test results can be extrapolated for constructions of identical or smaller dimensions of the same design, type of rebate and similar format.
This test does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

Publishing notes
The ift Guidance Sheet „Conditions and Guidance for the Use of ift Test Documents“ applies.
The cover sheet can be used as an abstract.

Contents
The report contains a total of 11 Pages
1 Object
2 Procedure
3 Detailed results

Resistance to wind load – EN 12210

Class C5/B5

Watertightness – EN 12208

Class 9A

Air permeability – EN 12207

Class 4

Operating forces – EN 13115

Class 2

ift Rosenheim
09 October 2006

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Notified Body No. 0257
ANAB
ANAB-ACCREDITED
DIN EN ISO 9001
DIN EN ISO 14001
DIN EN ISO 17025

Evidence of Performance

Resistance to wind load
Watertightness
Air permeability
Operating forces

Test Report 102 32005/1e

This is a translation of Test Report 102 32005/1 dated 2 October 2006

Client ERNE AG Holzbau
Fenstersysteme
Werkstraße 3

5080 Laufenburg
Switzerland

Product	Single tilt and turn window
Designation	Vision 3000 T2
Overall dimensions (W x H)	1230 mm x 1480 mm
Frame material	Wood profiles (pine) with external aluminium cladding
Special features	-/-



Basis
EN 14351-1 : 2006-03,
Windows and external doors –
Product standard

Test standard:
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EN 1027 : 2000-06
EN 12211 : 2000-06
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Representation



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Resistance to wind load – EN 12210

Class C5/B5

Watertightness – EN 12208

Class E1050

Air permeability – EN 12207

Class 4

Operating forces – EN 13115

Class 1

ift Rosenheim
09 October 2006

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