

Resistance to Wind Load



Glas Vision 3000 windows have been fully independently tested by ift Rosenheim in Germany (full test results are available upon request) for Resistance to Wind Load, i.e. the ability of the window system members to resist deflection under positive and negative static and dynamic wind loads tested in set steps from 400Pa up to 2000Pa.

The sample windows were tested to EN 12211 : 2000-06 and the results are classified in accordance with EN 12210 : 1999-11.

The majority of UK buildings are subject to design wind loads of no more than 1200Pa, class A3. In the most extreme weather conditions of the Scottish Highlands and Islands design wind loads can rise to 2000Pa or class A5.

The performance levels achieved by the Vision 3000 product are well in excess of these requirements and all windows attained a static window load class rating of C5/B5 and a rating of class 5 under dynamic window loads.

With the outstanding performance figures, you can be rest assured that the Vision 3000 product will be suitable for any UK location.

Performance

Static Wind Loads

All window types classified (according to EN 12210 : 1999-11) as class C5/B5 up to Class 5 pressures of +/- 2000Pa where frame members measured frontal deflections of less than 1/300th of the height.

Dynamic Wind Loads

All window types classified (according to EN 12210 : 1999-11) as class 5 up to pressures of +/- 1000Pa where no malfunctions were detected.

- Tests carried out to EN 12211 : 2000-06 and are classified as EN 12210 : 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
Fensterysteme
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 -/-

Resistance to wind load – EN 12210

Class C5/B5

Watertightness – EN 12208

Class 9A

Air permeability – EN 12207

Class 4

Operating forces – EN 13115

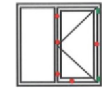
Class 2



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

Test standard:
EN 1028 : 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

ift Rosenheim
09 October 2006

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Notified Body No. 0252
ANAB-Akademie PASC-0004-01-08
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
Fensterysteme
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 -/-

Resistance to wind load – EN 12210

Class C5/B5

Watertightness – EN 12208

Class E1050

Air permeability – EN 12207

Class 4

Operating forces – EN 13115

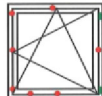
Class 1



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

Test standard:
EN 1028 : 2000-06
EN 1027 : 2000-06
EN 12211 : 2000-06
EN 12046-1 : 2003-11

Representation



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