

Test Report

Test date 23/03/17
Test location Aru Grupp AS laboratory, Hulja, Lääne-Virumaa, Estonia
Test rig K. Schulten GmbH
Performed by Kaur Parve, Protsessiekspert OÜ, Rakvere, Lääne-Virumaa, Estonia
Client "Windows Factory" SIA, Riga, Latvia
Standard EN1026: 2016 (Windows and doors – Air permeability – Test method)
Temperature 22.1 °C
Air pressure 102.1 kPa
Relative humidity 34%
Blind leak 0.4 m³/h at 600 Pa
Expanded uncertainty of measuring results: 9%

Measuring devices:

Rotameter 0.32...1.00 m³/h air, calibrated by LEI (Kaunas, LT), certificate 5/16C (applied for tests EN1026, EN12211)
Rotameter 1.00...3.20 m³/h air, calibrated by LEI (Kaunas, LT), certificate 6/16C (applied for tests EN1026, EN12211)
Rotameter 3.20...10.0 m³/h air, calibrated by LEI (Kaunas, LT), certificate 2/16D (applied for tests EN1026, EN12211)
Rotameter 10.0...32.0 m³/h air, calibrated by LEI (Kaunas, LT), certificate 3/16D (applied for tests EN1026, EN12211)

Tested object

Inwards opening PVC window with ventilation slat

| | |
|-------------|---------------------|
| Jamb width | 900 mm |
| Jamb height | 900 mm |
| Total area | 0.81 m ² |

| | |
|---------------|---------|
| Frame width | 825 mm |
| Frame height | 823 mm |
| Opening joint | 3.296 m |

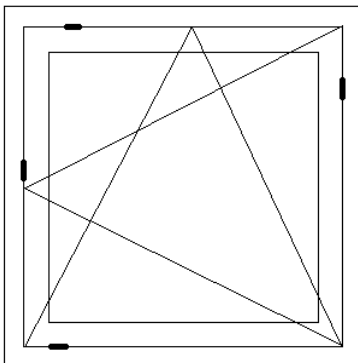
View from outside



View from inside



Location of fixings (view from inside)



Test Report

| Test no | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--|-----------|---------|---------|-----------|-----------|-----------|-----------|---------|-----------|
| Pressure from | Inside | Inside | Inside | Inside | Inside | Outside | Outside | Outside | Outside |
| Vent slat | Open | Open | Open | Closed | Closed | Closed | Open | Open | Open |
| Filter | Installed | Removed | Removed | Installed | Installed | Installed | Installed | Removed | Installed |
| Water outlet | Open | Open | Taped | Taped | Taped | Taped | Taped | Taped | Taped |
| Upper vent holes | Open | Open | Open | Open | Open | Taped | Taped | Taped | Open |
| Rotameter readings | | | | | | | | | |
| 10 | 4.45 | 8.5 | | 1.65 | 1.34 | 1.19 | 2.62 | 7 | 3.35 |
| 20 | 6.75 | 12 | | 2.68 | 2.24 | 1.98 | 4.45 | 10.1 | 5.45 |
| 30 | 8.4 | 14.3 | | 3.4 | 2.98 | 2.64 | 5.8 | 12.5 | 7.05 |
| 40 | 9.9 | 17 | | 4.1 | 3.6 | 3.3 | 7.15 | 14.7 | 8.45 |
| 50 | 11 | 19 | | 4.7 | 4.05 | 3.75 | 8.25 | 17 | 9.9 |
| 100 | 16.2 | 25.5 | 25 | 6.7 | 6.2 | 6.2 | 13 | 25.3 | 15.3 |
| 150 | 20.4 | 32 | | 8.3 | 7.7 | 8.3 | 17 | 32 | 20 |
| 200 | 23.7 | | | 9.5 | 8.85 | 10.2 | 20.5 | 36 | 23.2 |
| 250 | 25.6 | | | 10.6 | 10 | 12 | 23.5 | | 26.4 |
| 300 | 29.2 | | | 11.4 | 10.7 | 13.8 | 26.4 | | 29.5 |
| 450 | 35.5 | | | 13.3 | 12.7 | 20 | 34.5 | | 38 |
| 600 | 41 | | | 14.7 | 14.1 | 25.8 | 41.4 | | |
| Air permeability (Rotameter readings adjusted to calibration, blind leak, temperature, and air pressure) | | | | | | | | | |
| 10 | 4.8 | 9.2 | | 1.8 | 1.4 | 1.3 | 2.8 | 7.6 | 3.6 |
| 20 | 7.3 | 13 | | 2.9 | 2.4 | 2.1 | 4.8 | 11 | 5.9 |
| 30 | 9.0 | 15 | | 3.7 | 3.2 | 2.8 | 6.2 | 13 | 7.6 |
| 40 | 11 | 18 | | 4.4 | 3.9 | 3.5 | 7.7 | 15 | 9.1 |
| 50 | 12 | 20 | | 5.0 | 4.3 | 4.0 | 8.8 | 18 | 11 |
| 100 | 17 | 26 | 26 | 7.1 | 6.6 | 6.6 | 14 | 26 | 16 |
| 150 | 21 | 33 | | 8.8 | 8.2 | 8.8 | 18 | 33 | 21 |
| 200 | 24 | | | 10 | 9.4 | 11 | 21 | 37 | 24 |
| 250 | 26 | | | 11 | 11 | 13 | 24 | | 27 |
| 300 | 30 | | | 12 | 11 | 14 | 27 | | 30 |
| 450 | 36 | | | 14 | 13 | 21 | 35 | | 39 |
| 600 | 42 | | | 15 | 14 | 26 | 42 | | |

Approximate values