

BILKA otomatik kapı sistemleri  
Mimarsinan OSB 9. Cadde no:1  
TR-38520 MELIKGAZI/KAYSERİ  
Türkiye

## Determination of air permeability, resistance to water penetration and resistance to wind load according to EN 13241:2003+A2:2016

(1 appendix)

### Test object

Client: BILKA otomatik kapı sistemleri - ISODOOR  
Product name: Industrial Door, ISO-E  
Type of door: Overhead, sectional door  
Daylight size: Width 4000 mm, Height 3380 mm

The door was supplied and installed by the client in the opening of an airtight chamber, with its exterior facing inwards towards the chamber, see description and figures in appendix 1.

### Summary of classification

Air permeability according to EN 12426:2000:	Class 2
Resistance to water penetration according to EN 12425:2000:	Class 3, 110 Pa
Resistance to wind load according to EN 12424:2000:	Class 3

### Test procedure

#### Air permeability

A positive air pressure was established in the chamber and the air leakage was measured at 50 Pa.

The tests were carried out in accordance with EN 12427:2000.

#### Resistance to water penetration

Water was applied through three horizontal rows of nozzles with ten nozzles on each row. The upper row supplied  $2 \pm 0.2$  l/min of water per nozzle. The two lower rows supplied  $1 \pm 0.1$  l/min of water per nozzle.

The test was carried out in accordance with EN 12489:2000.

#### Resistance to wind load

The door was tested in an air pressure chamber. Before the test measures were taken to minimize air leakage in the door and its supporting construction. The air pressure in the test chamber was increased in steps in accordance with the different classes given in EN 12424:2000.

The test was carried out in accordance with EN 12444:2000.

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