

# THE EXTERNAL DOOR!

with thermally insulated profiles, from Gilgen Door Systems



# PROTECTING OUR FUTURE - TODAY

One of the key challenges facing busy architects today is how to optimise building energy-efficiency and running costs whilst also considering the aesthetic appearance and user-friendliness of entrances.



## Summary of classification achieved as per EN 16361:

### Heat-transfer coefficient U-value:

The U-value measures the rate of heat transfer through a material with different temperatures on either side. It indicates the amount of heat that flows through a surface of 1 m<sup>2</sup> whenever the air temperatures on either side differ by 1 Kelvin.

The lower the U-value, the better the heat insulation.

### Watertightness:

**Class 5 A:** Unprotected construction of installation (no canopy or similar)

Water leakage after 35 minutes at a pressure exceeding 200 Pa (65 km/h)

### Air permeability:

#### Class PPD2:

Maximum test pressure 300 Pa (80 km/h)

Reference permeability at 100 Pa (46 km/h)

relative to the surface of: 27 m<sup>3</sup> / h x m<sup>2</sup>

Reference permeability at 100 Pa (46 km/h)

relative to the joint of: 6.75 m<sup>3</sup> / h x m

### Wind resistance:

**Class PPD 800 B:** Relative bending of the frame of 1/200 with respect to clearance height, at a pressure of 800 Pa (130 km/h)

**Class PPD 700 C:** Relative bending of the frame of 1/300 with respect to clearance height, at a pressure of 700 Pa (122 km/h)

## ENTIRE SYSTEM TESTED ACCORDING TO PRODUCT STANDARD EN 16361

Gilgen's <green wings> system has been independently tested and certified by Europe's leading product testing organisations.

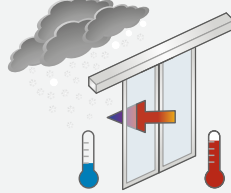
### Heat-transfer coefficient U<sub>d</sub>-value \* calculation in accordance with EN 10077

Insulated double-glazing:

approx. 1.4...1.8 W/(m<sup>2</sup>K)

Insulated triple-glazing:

approx. 1.1...1.6 W/(m<sup>2</sup>K)



### Air permeability \* tested in accordance with EN 1026

• Class PPD2



### Watertightness \* tested in accordance with EN 1027

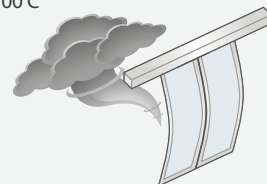
• Class 5 A



### Wind resistance \* tested in accordance with EN 12211

• Class PPD 800 B

• Class PPD 700 C



### Impact resistance\* tested and classified in accordance with EN 13049

• Class 5

\* Depending on the size of the system and its configuration:  
Values for a bi-parting system of clear width 1600 mm x clear height 2200 mm  
with fixed panel and bottom rail



# SLIMLINE PROFILE - THERMALLY INSULATED

Highly resistant to severe weather conditions.

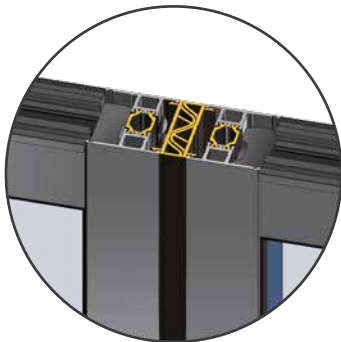


## THE GREEN DOOR LEAVES - SYMBOL OF ENERGY EFFICIENCY

We give environmental performance a new profile

### Detail A

Specially developed central weatherstrip, thermally insulated profiles.



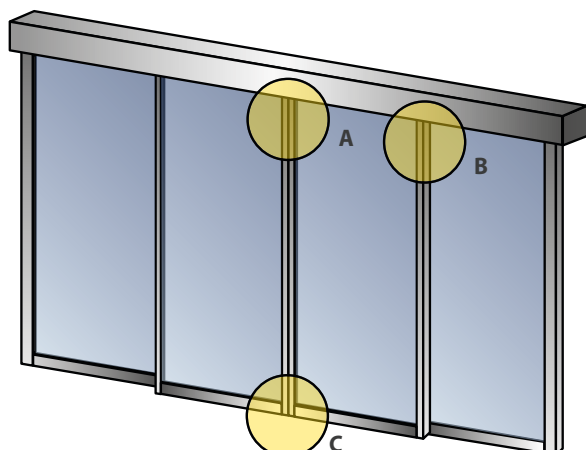
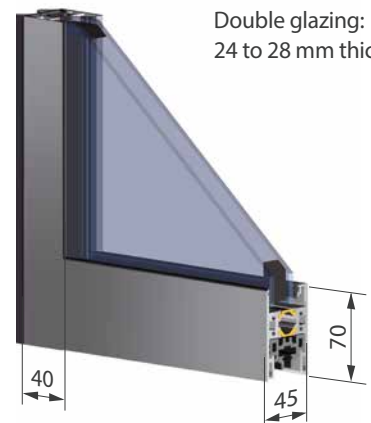
### Detail B

Four-way sealing surfaces in the vertical interlocked structure, including thermal insulation.



### Detail C

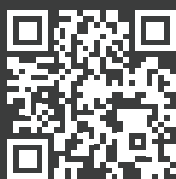
Double glazing:  
24 to 28 mm thick



Triple glazing:  
31 to 38 mm thick



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Become part of the Gilgen community:  
[www.gilgendoorssystems.com/social](http://www.gilgendoorssystems.com/social)

## OPENING YOUR WORLD

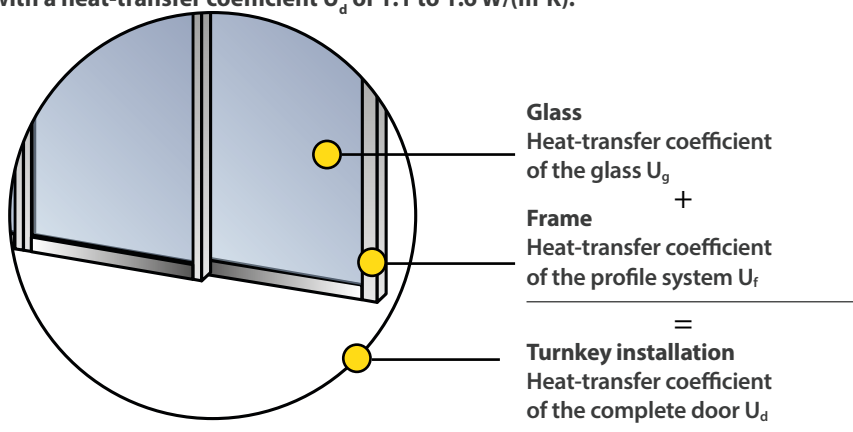
**The Gilgen automatic door is characterised by its energy efficiency and slimline look**

The «green wings» symbol means that it fulfils the demanding requirements of architects, planners and fabricators, in both functional and aesthetic terms; The highly versatile Gilgen automatic door is an ideal complement of modern architectural design.

### Characteristics

- Copes with structural tolerances
- Slimline look
- Drained bottom rail (optional)
- Door opening max. 3000 x 3000 mm
- Emergency-exit function (redundant configuration)
- FLUVERI multi-point locking (integrated into door leaf)

**The certified system as a whole supplies a strong, thermally insulated barrier with a heat-transfer coefficient  $U_d$  of 1.1 to 1.6 W/(m<sup>2</sup>K).**



The heat-transfer coefficient  $U_d$  depends on  $U_g$ ,  $U_f$  and the dimensions of the door. The larger the proportion of glass, the better the values that can be achieved.

**Please send us the dimensions of your planned external door, and we will calculate its effective heat-transfer coefficient ( $U_d$ ) for you.**

Take advantage of energy efficiency to save money - without any loss of comfort.