

# DIVA ECO ENERGY

Sliding door with Thermal Bridge Break



Performance and thermal comfort  
New design with pure lines  
Thermal conductivity(1)  $U_w$  : 2 W/m<sup>2</sup>.K  
Insulation glazing up to 36 mm

DIVA ECOENERGY is the first Thermal Break automatic door. Combining technical performance and style, it contributes to:

- improving thermal comfort in buildings in winter as in summer
- facilitating the contribution made by natural light to reduce lighting needs (energy-saving)
- acting on energy consumption in terms of heating and air conditioning systems.

(1) Thermal conductivity on a bay H2700 x W4190  
(passage H2500 x W2000 mm) / low emissivity glazing  
/ calculation according to the EN14351 standard



DOUBLE SLIDING



SIMPLE SLIDING

# DIVA ECOENERGY

In summer as in winter, you benefit from optimal comfort guaranteeing natural light and energy savings



The improvement of a building's energy performance implies consideration of all the elements of a façade.

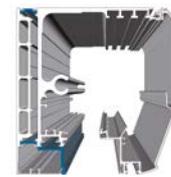
If glass illustrates trends in current buildings, on the inside as well as the outside, glazed façades as automatic doors must, more than ever, meet two objectives: allow maximum light to pass (sunlight) while optimizing heat and phonic insulation.

The DIVA ECOENERGY thermal performance is based on a combination of three essential components: a Thermal Break casing and frame, a low emissivity insulation glazing.

- The G50 Thermal Break range is conceived with subdivisions made of nylon bars increasing the thermal break between the inside and outside. Each profile in the G50 TBB range has been designed in this way with a view to its thermal performance, whatever is the installed configuration (Surface applied or between walls).
- The DIVA operator is fitted with a new articulated cover with soft and contemporary lines. With the same conception, the casing is equipped with polyamide bars mending the thermal bridge with the structure.
- In order to improve the energy performance of any building, the use of insulation double glazing is essential. The range of G50 TBB profiles is combined with low emissivity double glazing with "Argon" gas filling, the low thermal conductivity of which results in its high insulation capacity.



G50 TBB frame



DIVA TBB casing



Insulation glazing

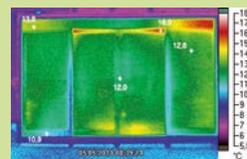


## What more relevant than a photo for highlighting the thermal behaviour of two types of doors?

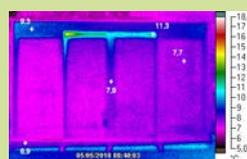
A map of the surface temperatures can be made using infra-red thermography. The study conducted was purely for educational and demonstration purposes but the result is eloquent.

$$U^{(1)} = 2 \text{ W/m}^2.\text{K}$$

(1) Thermal conductivity of a bay H2700 x L4190 (that is an opening H2500 x L2000 mm)



Standard aluminium frame and 44/2 glazing\*



DIVA ECOENERGY\*

\*Tests carried out independent Alldiag38 laboratory / Test conditions: Temp. in 25°C/out 8°C.



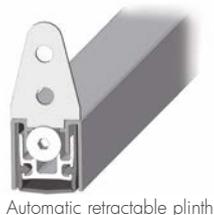
Energy saving is now at the heart of people's concerns.

In a sector that is changing and in which new construction rules are being imposed in order to improve the energy performance of buildings, Portalp is relying on its know-how and expertise to offer an innovative solution of automatic doors meeting the highest thermal requirements.

## Thermal comfort and security

Proposed with a wide choice of finishes, DIVA ECOENERGY is definitely part of a sustainable energy approach, improving comfort and well-being in buildings.

- An automatic retractable plinth is proposed to insure a perfect airtightness on the ground. This cold-free floor device puts a pressure on the floor during door closing and prevents the inside / outside air exchanges.



Automatic retractable plinth



For optimum security, various equipments are proposed:

- An automatic locking, that can be ordered from a transmitter key or standard key, allow to close the door easily
- A panic bolt, integrated into the leaf, ensures a high and low door locking

## Controls and detection

To provide your project with the best solution, a wide range of controls and detection mechanisms are offered.

- Standard controls to ensure fluidity and safety of passage
- Specific controls for customized access control
- Controls for disabled people with reduced mobility

A complete equipment provides all the comfort and safety of operation for the user.



Naviblu



Visioblu and S remote control



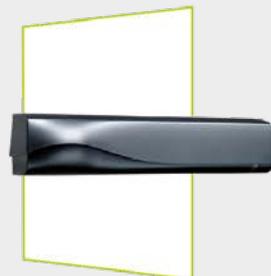
Console 4T



80 mm 6-position key selector



40 mm 6-position key selector



Hyperfrequency detection and active Infrared security

## MECHANICS

## DIVA ECOENERGY SLIDING - G50RPT

Installation	Surface applied / Between walls / Against posts	
Structure	Aluminium	
Casing (H x P)	Applied	200 mm x 200 mm
	Self supporting up to	7 200 mm
Passage width min/max	1 leaf	750 / 1 800 mm
	2 leaves	900 / 2 900 mm
Max. passage height	3 100 mm	
Max. glazing	36 mm	

## PERFORMANCES

Thermal transmission coefficient U <sup>(1)</sup>	2 W/m <sup>2</sup> .K	
Max leaf weight	1 x 140 kg / 2 x 140 kg	
	with IME / for Emergency exit	1 x 125 kg / 2 x 100 kg
Opening speed per leaf	1 leaf : 10 to 100 cm/s - 2 leaves : 20 to 200 cm/s	
Closing speed per leaf	1 leaf : 10 to 60 cm/s - 2 leaves : 20 to 120 cm/s	
Hold open time	1 to 15 s	
Opening force	6 to 25 daN	
Closing force	6 to 25 daN	

(1) Thermal conductivity on a bay H2700 x W4190 (passage H2500 x W2000 mm) / low emissivity glazing / calculation according to the EN14351 standard

## ELECTRICAL ENVIRONMENT

Power supply	Mains 50-60 Hz, 230V +10% with earth
Average absorbed power	50 W
Motor voltage / Emergency battery	40 Vcc / 12 Vcc
Relative humidity	10% to 93% without condensation
Operating temperature	-20°C / +60°C - Emergency exit door according to EN16005 : +5°C / +40°C

## NORMES

EN 14351, RT2012	Thermal directives
EC	Electromagnetic compatibility: 2004/108/CE directive, Electrical security - Low voltage : 2006/95/CE, Machines:2006/42/CE directive
EN 60 335-1/-2-103	Safety of household and similar electrical appliances
EN 61000-6-3	EMC: emission for residential, commercial and light-industrial environments
EN 61000-6-2	EMC: immunity for industrial environments
EN 16005	Power operated pedestrian doors : safety in the use

## EQUIPMENTS / OPTIONS\*

Panic bolt (european cylinder)	●
Key bolt (european cylinder)	○
Retractable ground plinth 0-16mm	○
Outside safety unlocking	○
Built-in rail	○

(\* Specific achievement, contact us

● Standard ○ Option



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Certified Management System