



**EDSF Energy Label**  
for automatic doors

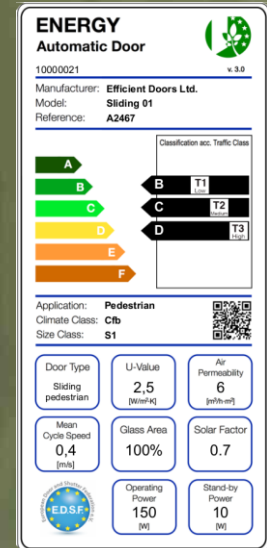
# Index

1. Why an Energy Label
2. Key Facts
3. Technical Basis
4. Classification Method
5. Label Description
6. System Use
7. The Platform
8. In-Company Option
9. User Profiles
10. Commercial Scheme
11. Benefits
12. About EDSF



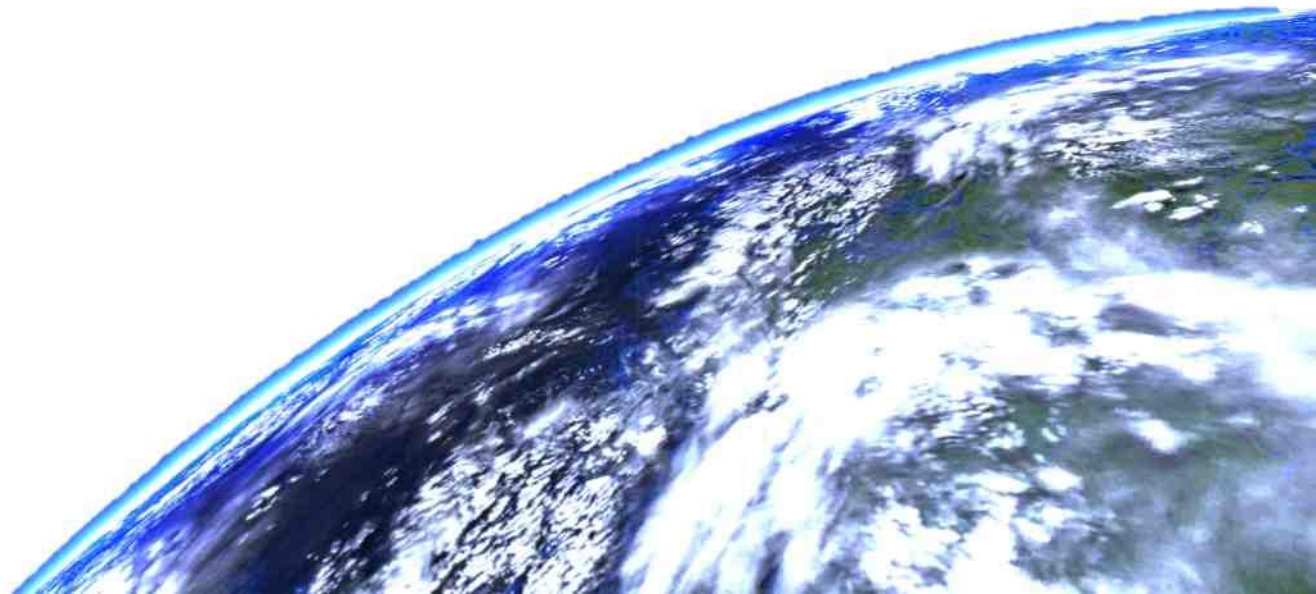
# Why an Energy Label

- A thermally optimised, well insulated door with an intelligent automation system makes a fundamental contribution to the energy efficiency of a building as a whole.
- Energy labelling allows you to compare different automatic door options from the energy point of view.



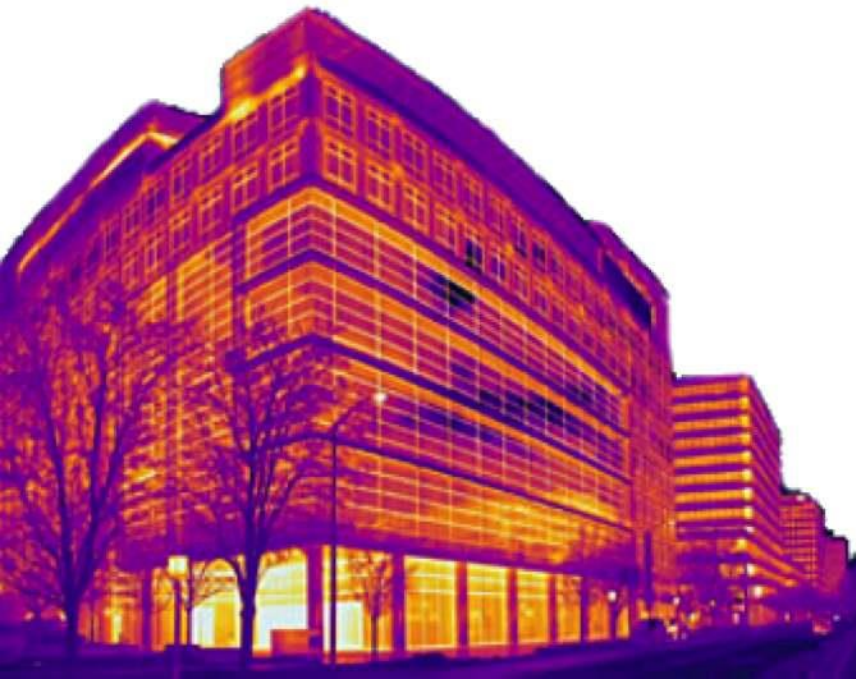
# Key Facts

**Buildings constitute a fundamental component of global energy demand and CO<sub>2</sub> emissions.**



# Key Facts

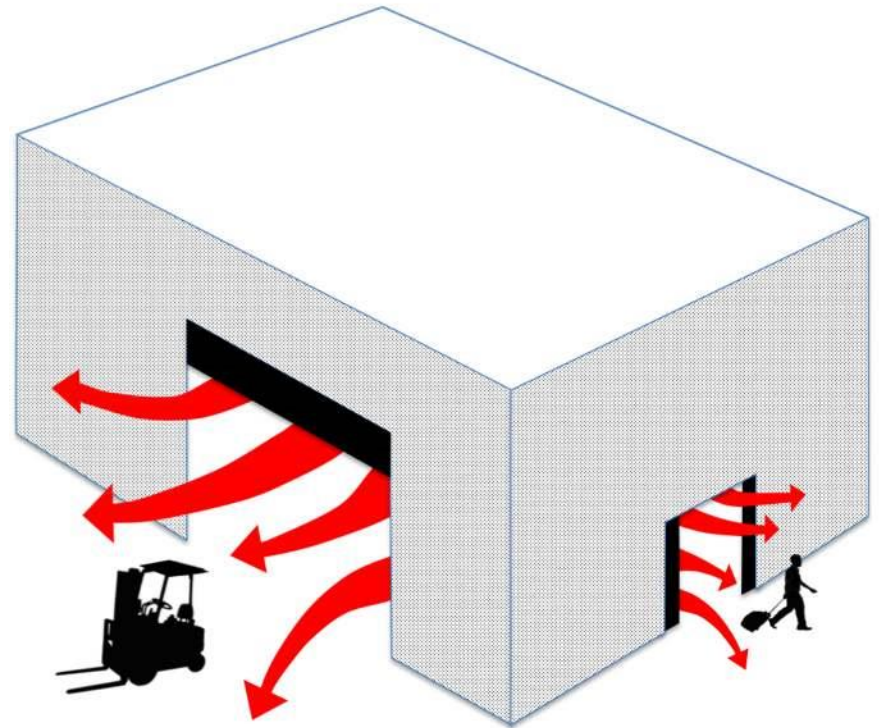
Doors **have a much higher impact on the energy consumption of a building that is widely recognised.**



**The majority of the energy loss through doors usually occurs when the door is open, not when it is closed.**



## Key Facts



# Technical Basis

## Energy Losses Through an Automatic Door

Heat  
Transmission



“U-Value”

Air  
Leakage



“Air  
Permeability”

Solar  
Radiation



“Solar Factor”

Air  
Infiltration



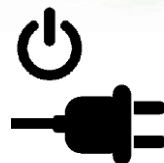
“Opening  
Speed”

Long Wave  
Radiation



“Emissivity”

Electrical  
Consumption



“Operation &  
Stand-by Power”

# Technical Basis

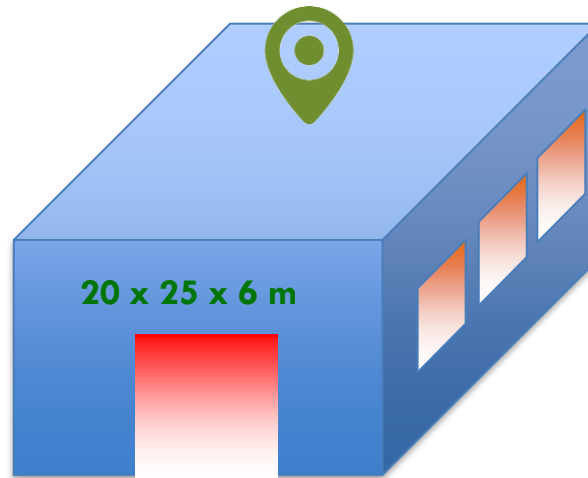
## Example: Doors vs Windows



### Sectional Door

- Area = 9 m<sup>2</sup>
- U-Value = 2,5 W/m<sup>2</sup>·K
- Air Permeability = 6 m<sup>3</sup>/h·m<sup>2</sup>
- Glass area = 20%
- Solar factor = 0,75
- Emissivity = 0,9
- Opening Cycles per Year = 50000
- Opening Time per Cycle = 20 s
- Operation Power = 300 W
- Stand-by Power = 15 W

Brussels

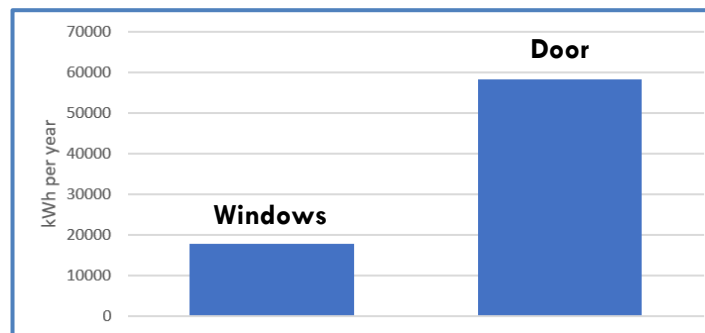


### Windows



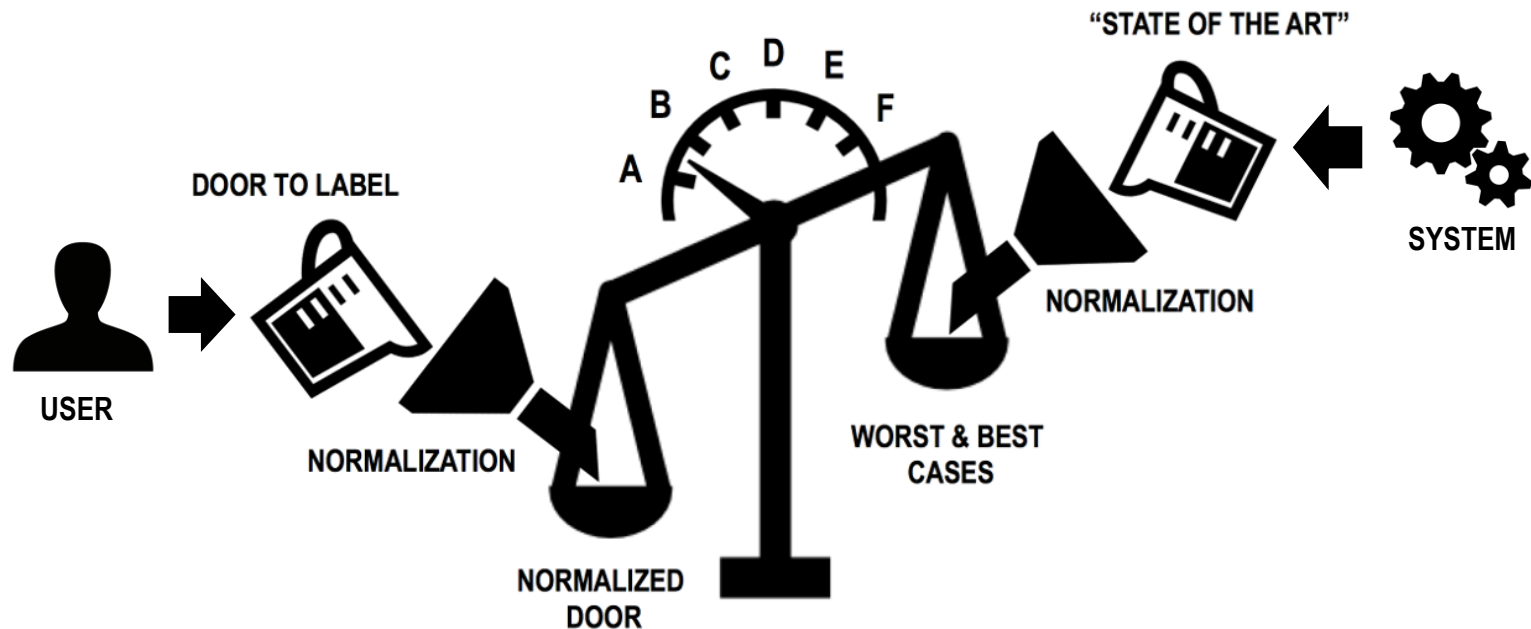
- Area = 40 m<sup>2</sup>
- U-Value = 2,5 W/m<sup>2</sup>·K
- Air Permeability = 6 m<sup>3</sup>/h·m<sup>2</sup>
- Glass area = 90%
- Solar factor = 0,75
- Emissivity = 0,9
- Opening Cycles per Year = 365
- Opening Time per Cycle = 300 s

Energy Losses  
in kWh per  
year



# Classification Method

Concept

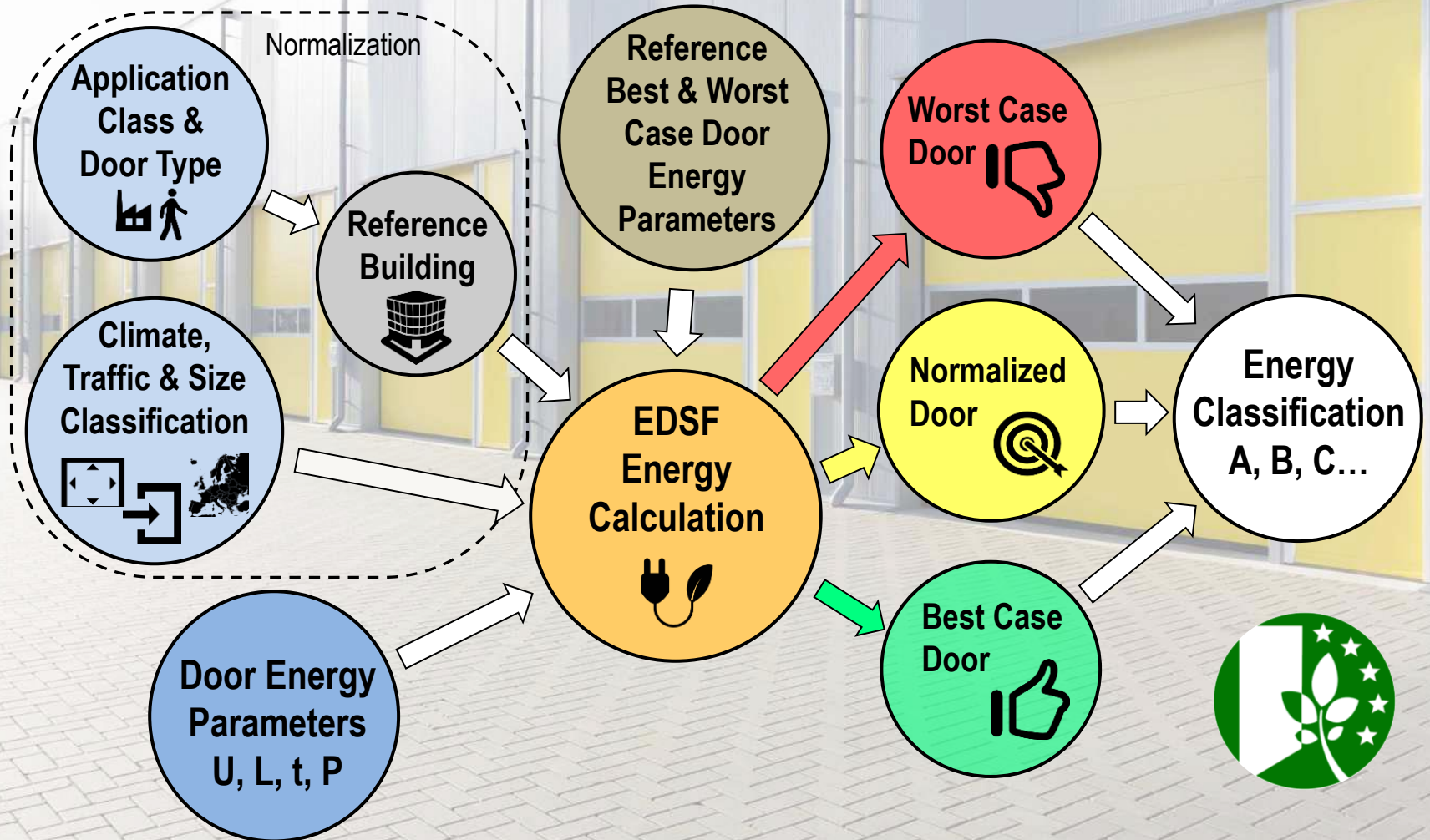


A	B	C	D	E	F
Best Case	Very High Performance	High Performance	Intermediate Performance	Low Performance	Very Low Performance
Relative Losses $0\% < E \leq 15\%$	Relative Losses $15\% < E \leq 30\%$	Relative Losses $30\% < E \leq 45\%$	Relative Losses $45\% < E \leq 60\%$	Relative Losses $60\% < E \leq 75\%$	Relative Losses $75\% < E \leq 100\%$



# Classification Method

## Calculation Procedure



# Label Description

## Structure & Content

Only products with the  
same three class values  
are comparable in  
energy terms

Header  
EDSF Label Number  
Label Version

Manufacturer, Model &  
Product Part Number

Energy Scale &  
Classifications

Door Classification  
QR Code to Website

Energy Parameters

### ENERGY Automatic Door

10000095

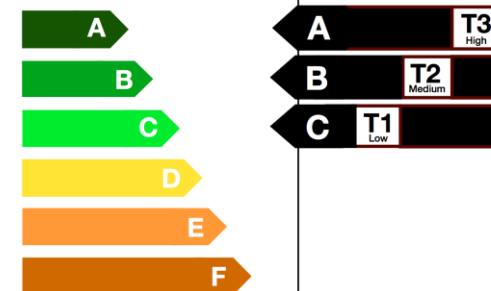
v. 3.0

Manufacturer: **Efficient Doors Ltd.**

Model: **ESD-01**

Reference: **D00001**

Classification acc. Traffic Class



Application: **Industrial**

Climate Class: **Cfb**

Size Class: **S2**



Door Type  
**Overhead  
Sectional**

U-Value  
**3,5**  
[W/m<sup>2</sup>·K]

Air  
Permeability  
**12**  
[m<sup>3</sup>/h·m<sup>2</sup>]

Mean  
Cycle Speed  
**0,4**  
[m/s]

Glass Area  
**20%**

Solar Factor  
**0,55**



Operating  
Power  
**150**  
[W]

Stand-by  
Power  
**10**  
[W]

# System Use

## Two Possibilities

**Cloud Platform**



**On-line Calculation with  
different Data Storage  
Options**

**In-Company  
integration**



**API access for Integration  
in Internal Company  
Systems**



# Cloud Platform



- Information Website
- Online Label Platform
  - Calculation form
  - Cloud Label Database & Purchasing
- Local database (in-house option) under request

The image displays the EDSF Energy Label for automatic doors website and its dashboard. The website header features the EDSF logo and navigation links: HOME, THE LABEL, WHO, HOW, ABOUT EDSF, CONTACT, and USERS. The main banner shows a row of yellow automatic doors with the text "Promoting more energy-efficient doors". Below this, a section titled "Why an energy label on doors?" explains that access doors are a key component in energy consumption and that EDSF provides a thermally optimized, well-insulated door with an intelligent automation system.

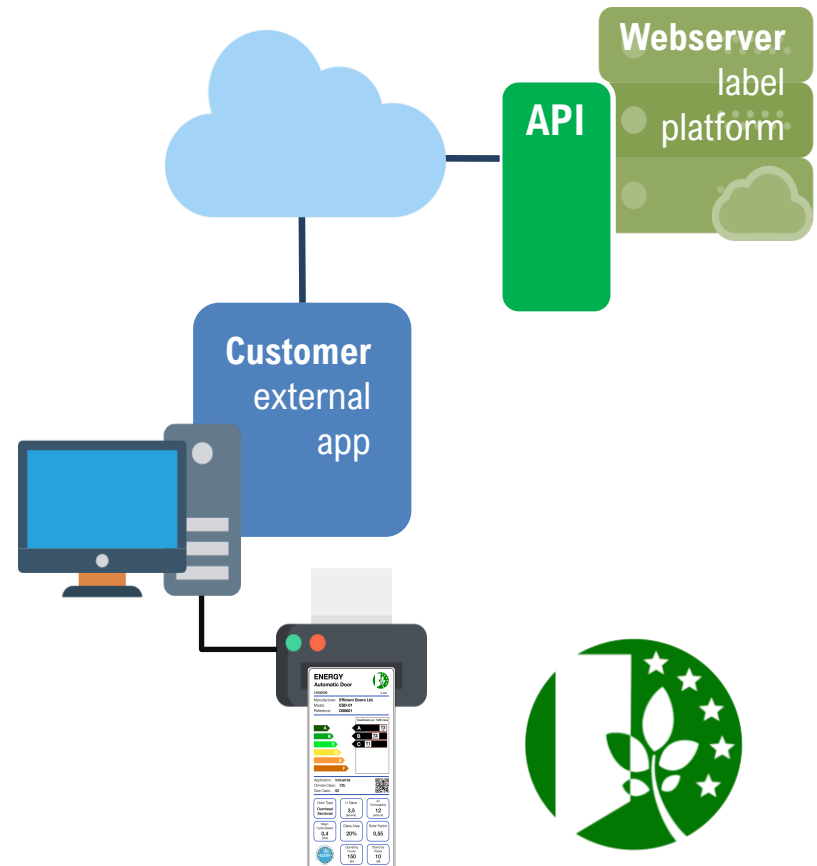
The dashboard, titled "EDSF Energy Label for automatic doors", shows a user profile for "Michèle Parato". It includes a "Credit left" section with a value of 10, a "Last orders" table, and a "Credit Packs" section. The "My Labels" section displays a table of labels with columns for ID, Ref., Energy Class, App. Class, Climate Class, Traffic Class, Size Class, Type, U Value, Air Perm., and Report. The table shows three entries with details like "Industrial", "C1", "NA", "S2", "High Speed Flexible", "4", "12", "20", and "A+1000".

The "Labels: New" section provides a form for creating new labels, including fields for Country, Region, Application, Door Clear Width, Door Clear Height, Energy parameters (Door Type, Thermal Transmittance, Air Permeability, Cycle Time), and a preview of the resulting Energy Label. The preview shows a label with a green energy class indicator and a QR code.

# In-Company Integration



- Webservice calculation w/API provided by EDSF under License Agreement
- Integration in internal IT systems allowed (ERP, BIM...)
- Specific Commercial Scheme



# Platform User Profiles

## BASIC Access



Unlimited free sample labels for Sales & Marketing purposes



## Two Account Types

## FULL Access

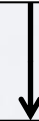


Official registered labels for Production purposes, available under EDSF pricing scheme

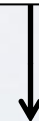
- Small fees for platform maintenance & support
- Label acquisition in Pack format

# Commercial Scheme

Free Membership



Fee per Label



Buy per Pack:  
10/50/100/500/  
1000 Labels



# Benefits

## For Manufacturers

- **Communicate clearly to customers about the energy characteristics of the product using a tool which is recognised at European level.**
- **Comparison between different types of door for the same application, highlighting the products which are more efficient and profitable for the customer.**

# Benefits

## For Builders & Prescribers

- **Choice between different manufacturers and types of door depending on the application and desired behaviour.**
- **Check the correlation between the various parameters related to the thermal efficiency of the door.**
- **Show the contribution to the energy certification of the whole building.**

# Benefits

## For Owners & Facility Managers

- **Prioritise the use of cost effective and efficient products in your business.**
- **Understand the importance of the doors for the thermal efficiency of your building or premises.**





**European Door and Shutter Federation, e.V.**  
(E.D.S.F.), a non-profit association, is the  
umbrella Federation at European level for the  
national associations of the doors and  
shutters industries.



**EDSF Energy Label**  
for automatic doors

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