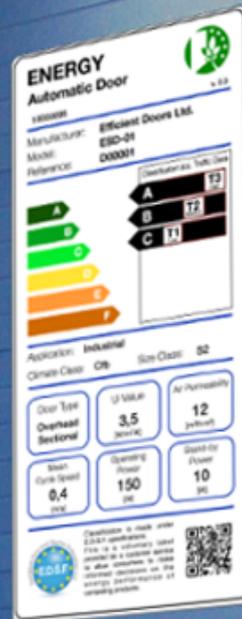




**EDSF Energy Label**  
for automatic doors

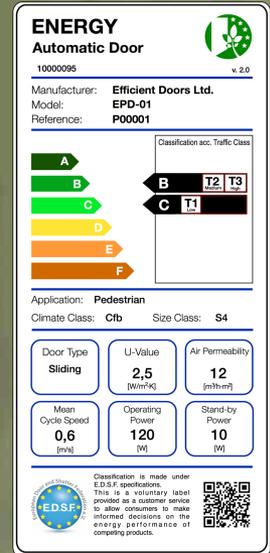
# Index

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



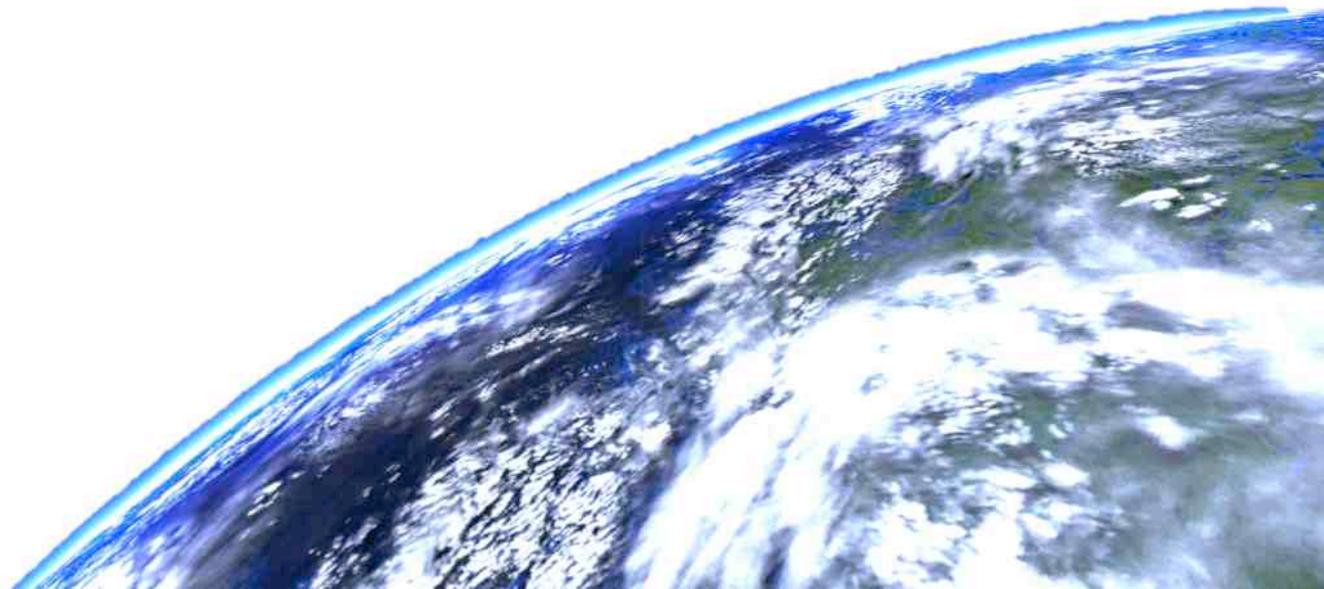
# Why an Energy Label

- 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.



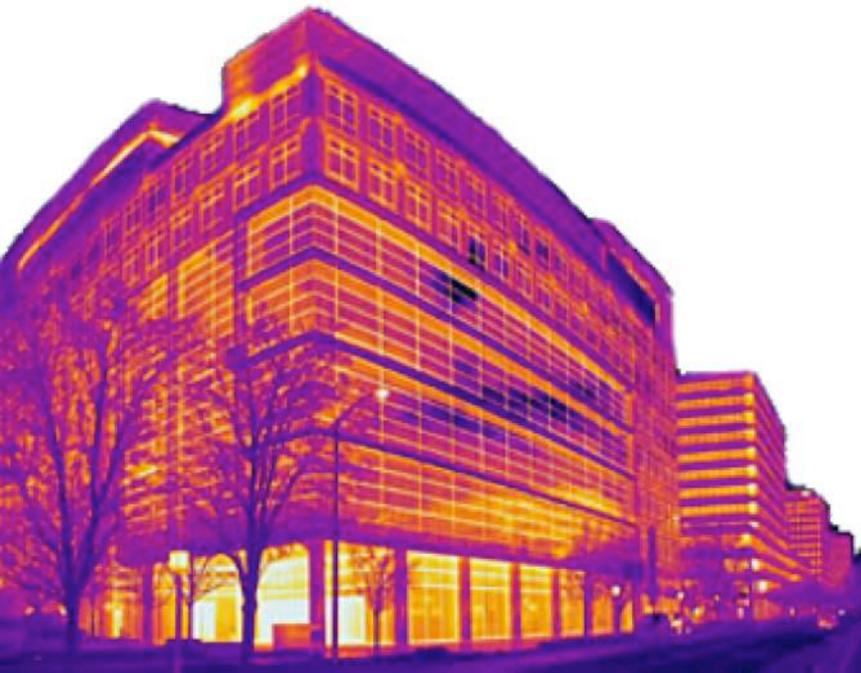
# Key Facts

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



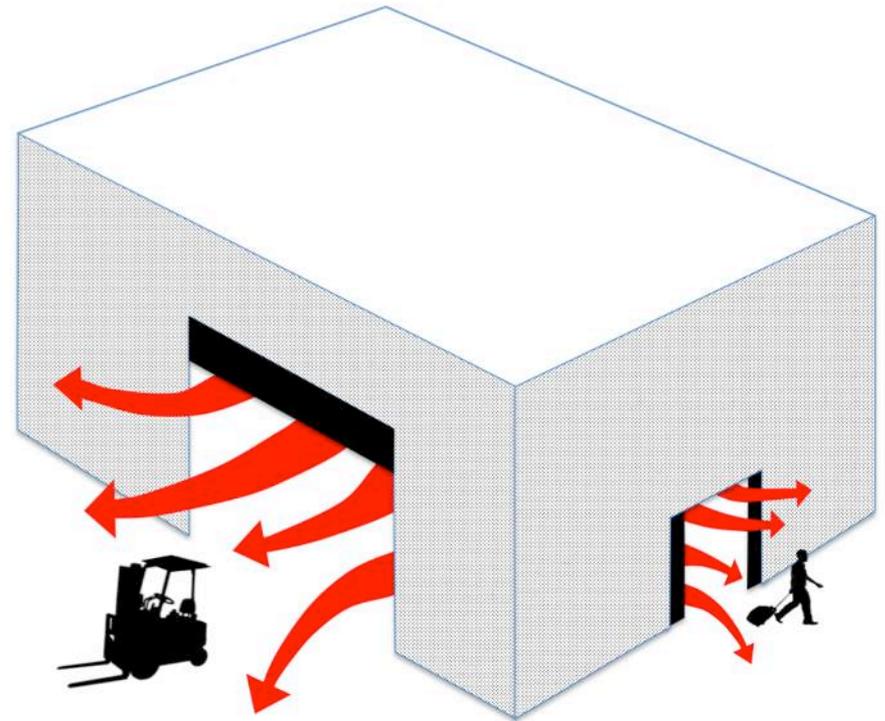
# Key Facts

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



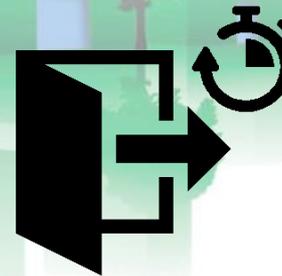
"U-Value"

Air Leakage



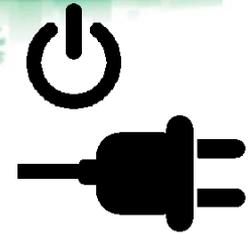
"Air Permeability"

Air Infiltration



"Opening Speed"

Electrical Consumption



"Operation & Stand-by Power"

# Technical Basis

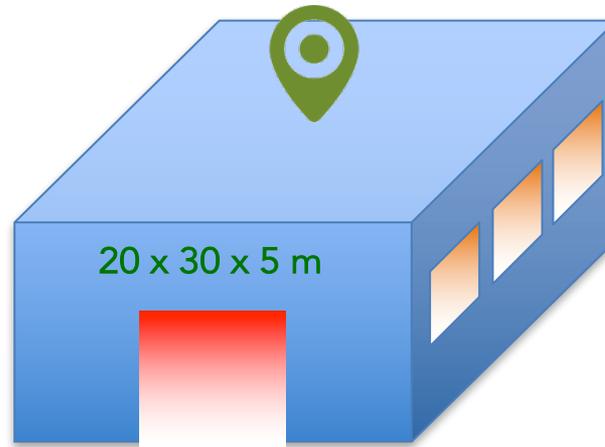
# Example: Doors vs Windows



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>
- Opening Cycles per Year = 50000
- Opening Time per Cycle = 20 s
- Operation Power = 300 W
- Stand-by Power = 15 W

Brussels



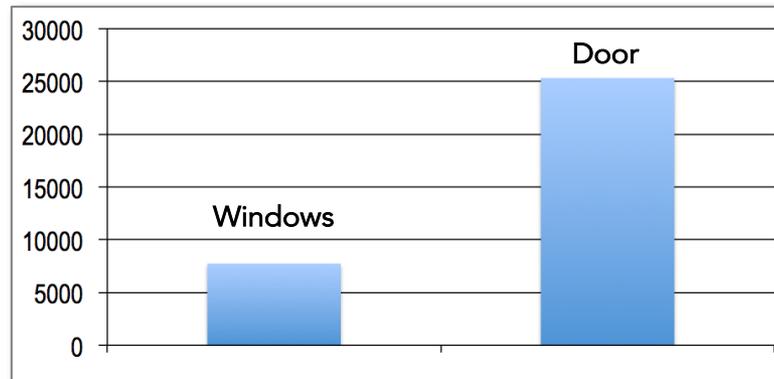
20 x 30 x 5 m

Windows



- Area = 50 m<sup>2</sup>
- U-Value = 3 W/m<sup>2</sup>·K
- Air Permeability = 6 m<sup>3</sup>/h·m<sup>2</sup>

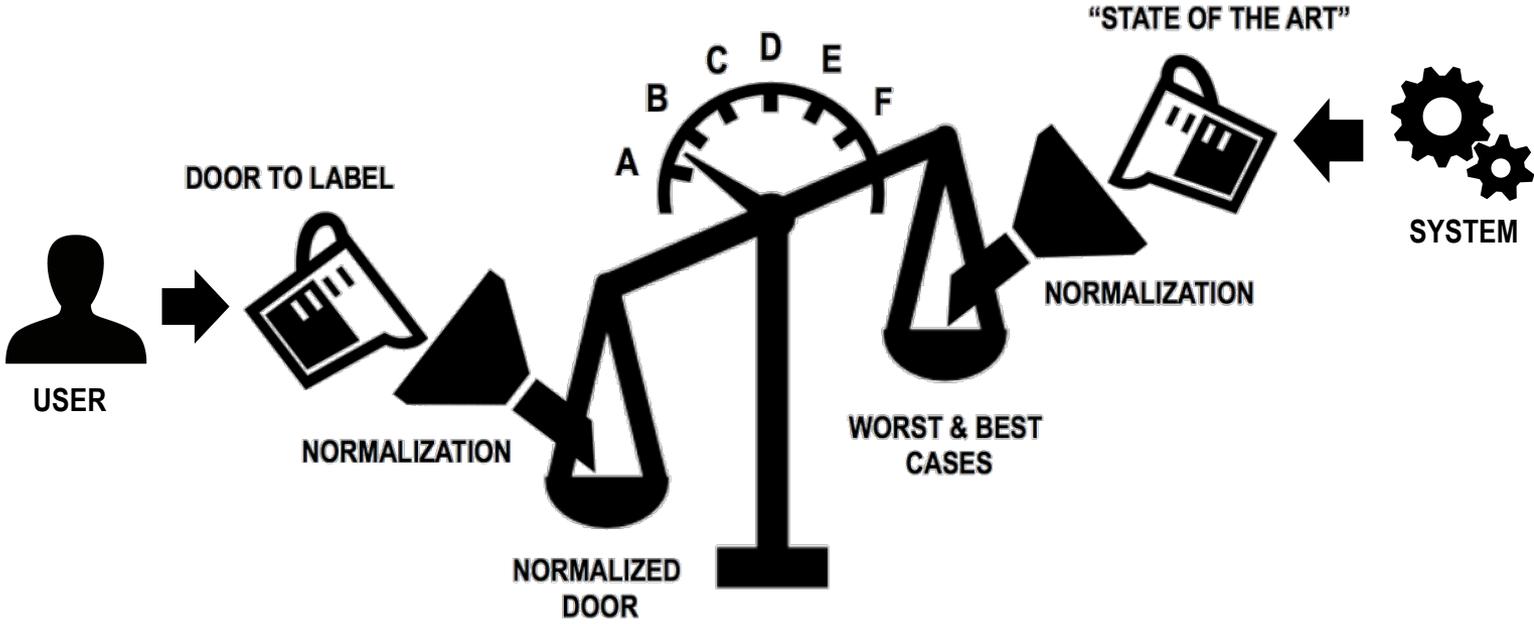
Energy Losses  
in kWh per  
year



Simplified calculation based on CEN/TR 16676 without solar effects

# Classification Method

# Concept

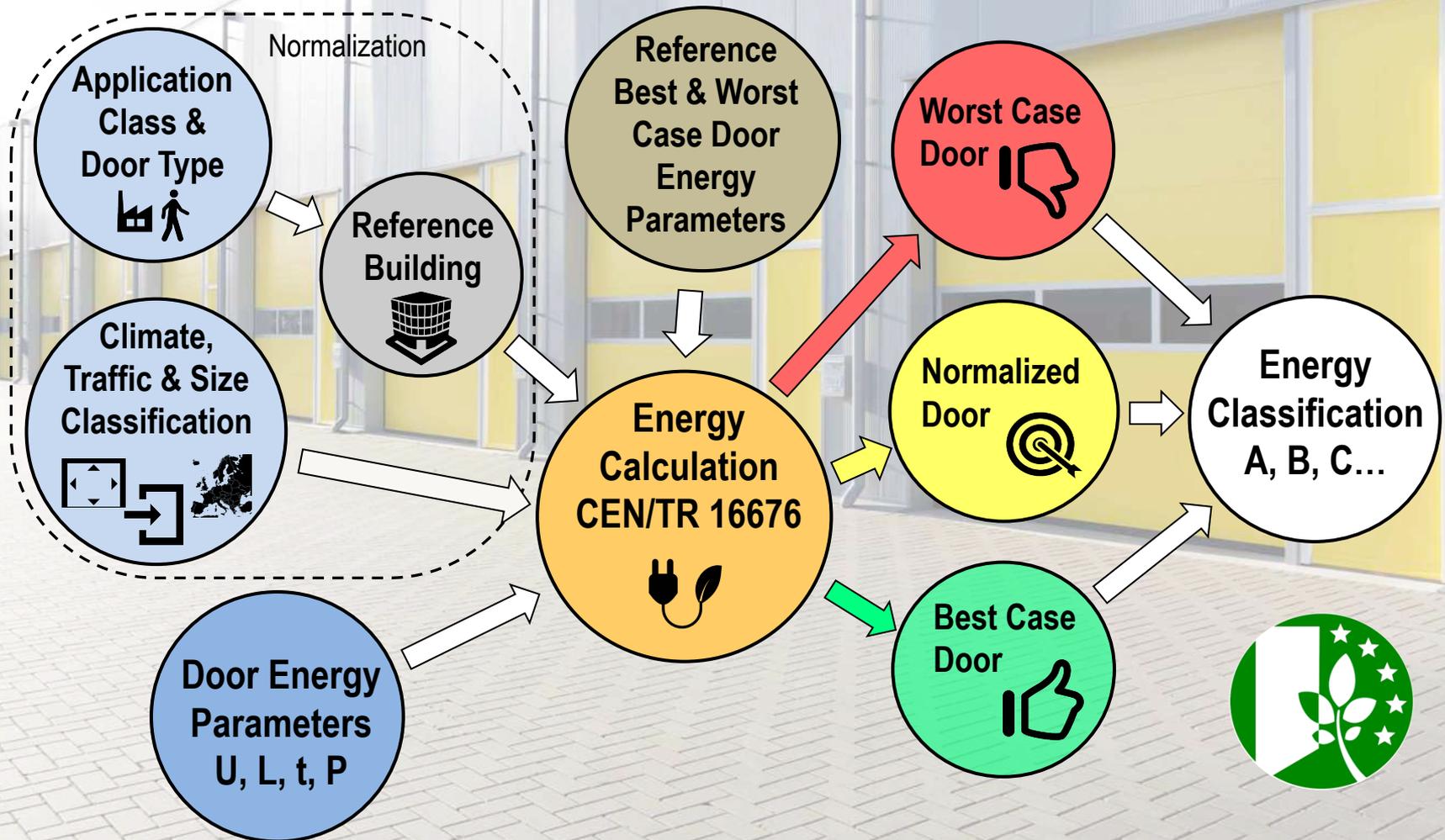


A	B	C	D	E	F
Best Case	Very High Performance	High Performance	Intermediate Performance	Low Performance	Very Low Performance
Relative Losses 0% < E < 15%	Relative Losses 15% < E ≤ 30%	Relative Losses 30% < E ≤ 45%	Relative Losses 45% < E ≤ 60%	Relative Losses 60% < E ≤ 75%	Relative Losses 75% < E ≤ 100%



# Classification Method

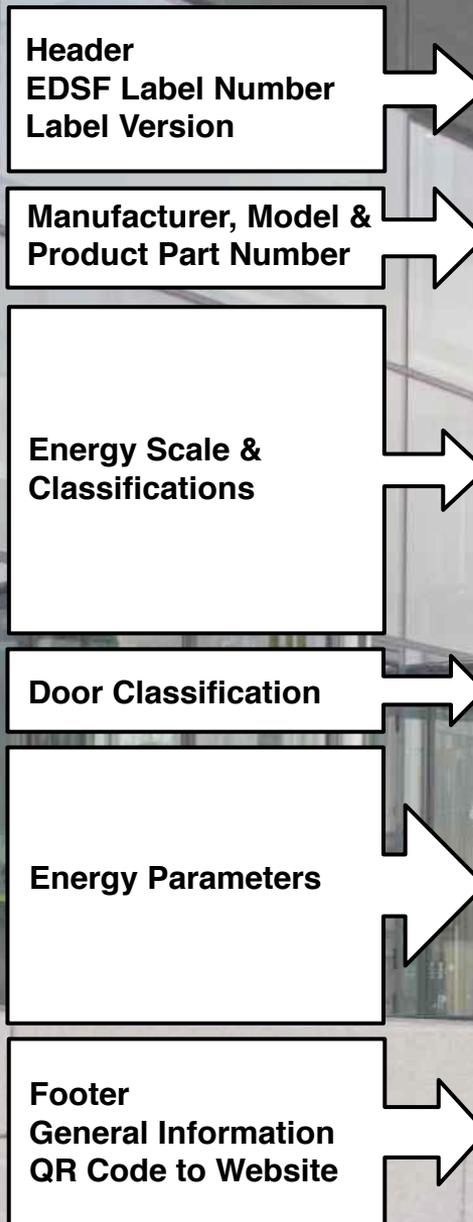
# Calculation Procedure



# Label Description

## Structure & Content

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



# ENERGY

## Automatic Door



10000095 v. 2.0

---

Manufacturer: **Efficient Doors Ltd.**  
Model: **ESD-01**  
Reference: **D00001**

---

Classification acc. Traffic Class

<b>A</b>	<b>A</b> <b>T3</b> High
<b>B</b>	<b>B</b> <b>T2</b> Medium
<b>C</b>	<b>C</b> <b>T1</b> Low
<b>D</b>	
<b>E</b>	
<b>F</b>	

---

Application: **Industrial**  
Climate Class: **Cfb**    Size Class: **S2**

---

Door Type <b>Overhead Sectional</b>	U-Value <b>3,5</b> [W/m <sup>2</sup> K]	Air Permeability <b>12</b> [m <sup>3</sup> /h·m <sup>2</sup> ]
Mean Cycle Speed <b>0,4</b> [m/s]	Operating Power <b>150</b> [W]	Stand-by Power <b>10</b> [W]

---

Classification is made under E.D.S.F. specifications. This is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.



# System Use

## Two Possibilities

The Platform



On-line Calculation  
with different Data  
Storage Options

Full In-Company  
integration



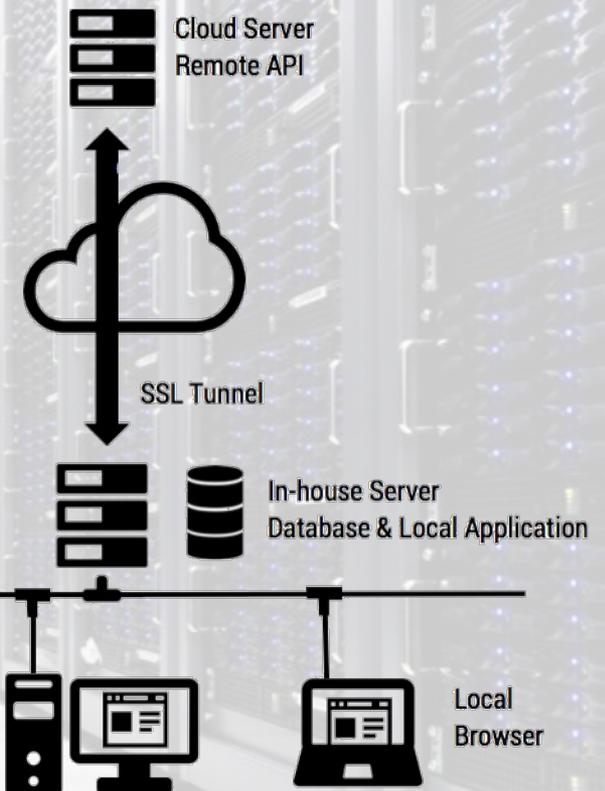
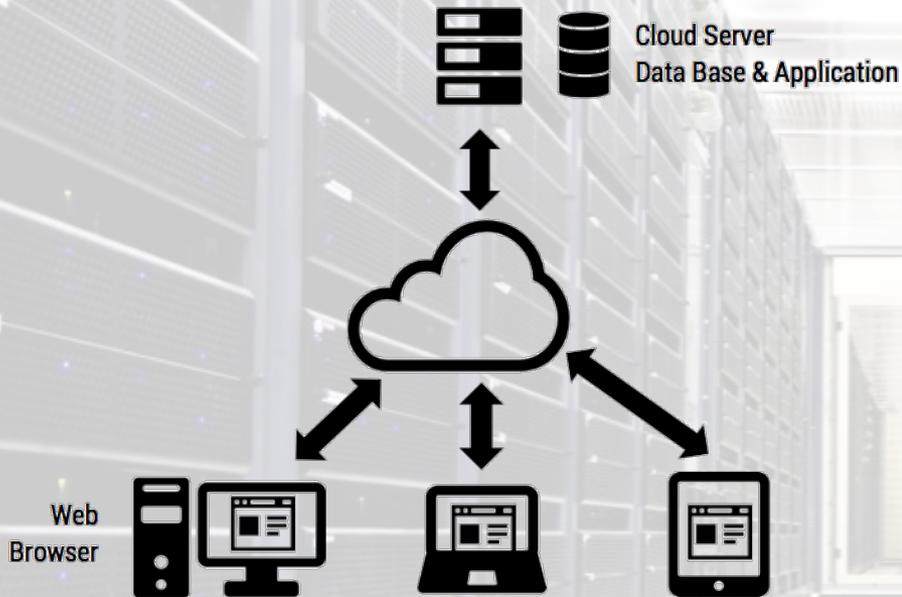
Internal System  
developed by  
companies under  
License Agreement

# The Platform

# Storage Options

## Cloud Platform

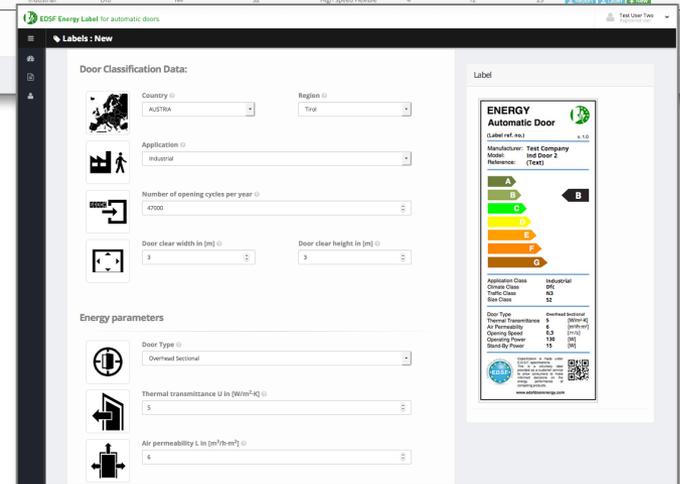
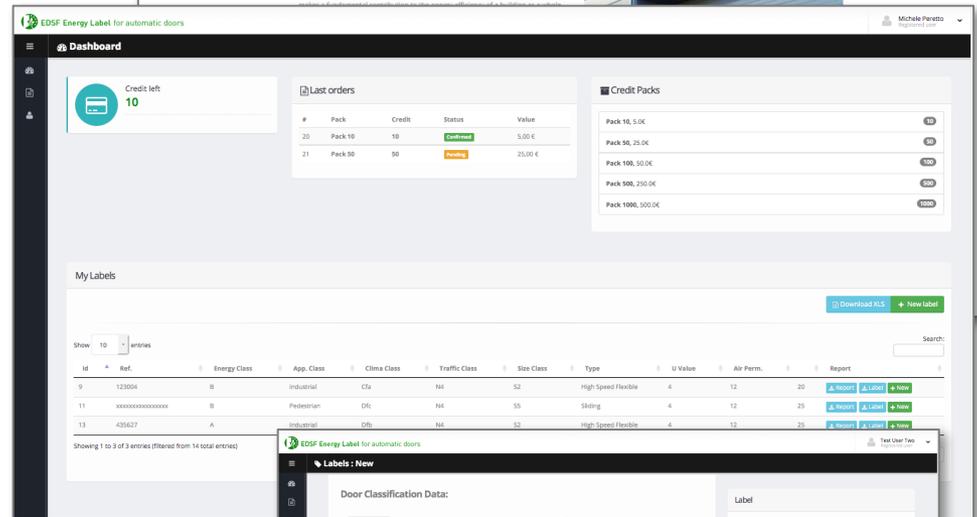
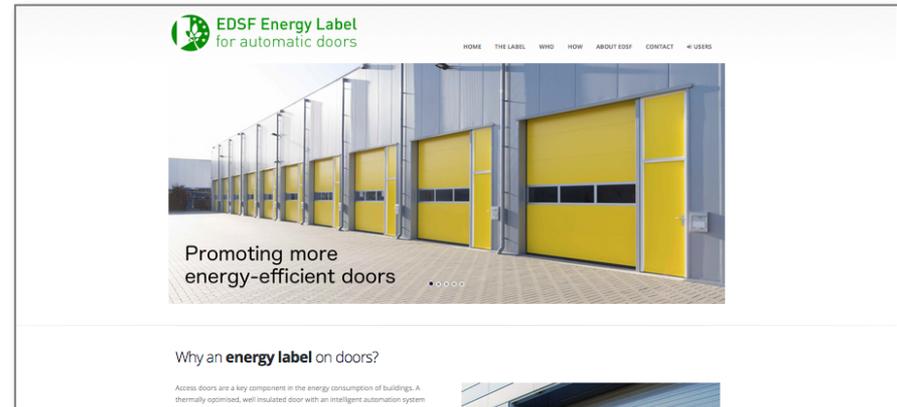
## In-House Platform



# Cloud Platform



- Information Website
- Online Label Platform
  - Calculation form
  - Label Database & Purchasing



# In-House Platform



- Local Label Platform
  - Local Database (no cloud data)
  - Online calculation & label purchasing

EDSF Energy Label for automatic doors | John Smith (Registered user)

Dashboard

Signed in successfully.

Credit left: 20

Last orders

#	Pack	Credit	Status	Value
30	Pack 10	10	Confirmed	5,00 €
37	Pack 10	10	Confirmed	5,00 €
38	Pack 50	50	Pending	25,00 €
39	Pack 100	100	Pending	50,00 €
40	Pack 100	100	Pending	50,00 €

Credit Packs

Pack 10, 5.0€	10
Pack 50, 25.0€	50
Pack 100, 50.0€	100
Pack 500, 250.0€	500
Pack 1000, 500.0€	1000

EDSF Energy Label for automatic doors | IN-HOUSE PLATFORM | Admin User (admin)

Dashboard

Signed in successfully.

Credit left: 46

Buy more credits online

My Labels

Download XLS + New label

Show 10 entries

Search by Ref. or Type:

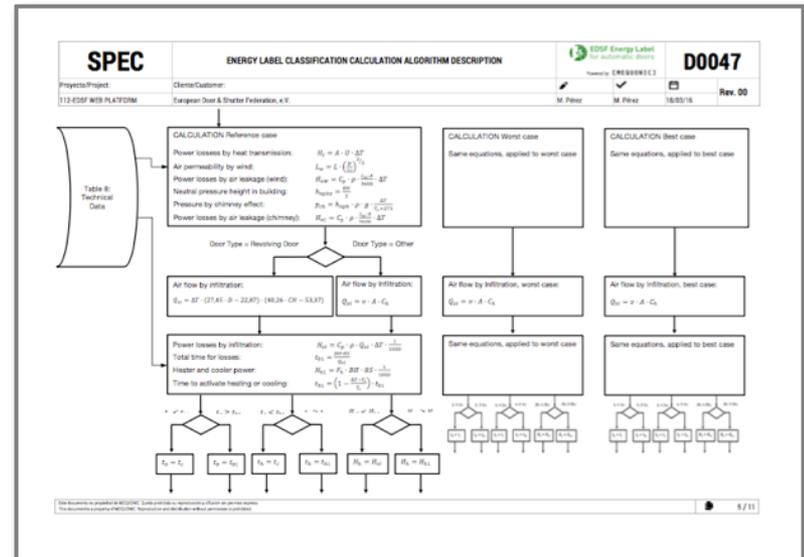
Id	Ref.	Energy Class	App. Class	Clima Class	Traffic Class	Size Class	Type	U Value	Air Perm.	Open Speed	Actions
1	C	A+	Industrial	Dfb	N4	S2	Roller Shutter	4	12	0,86 [m/s]	Report Label New
2	01234	C	Industrial	Cfb	N3	S2	Overhead Sectional	2,5	12	0,24 [m/s]	Report Label New



# In-Company Option



- Algorithm provided by EDSF under License Agreement
- Integration in internal IT systems allowed (ERP, BIM...)
- Audited by EDSF
- Specific Commercial Scheme



# Platform User Profiles

BASIC Access



Unlimited free sample labels for Sales & Marketing purposes



## Two Account Types

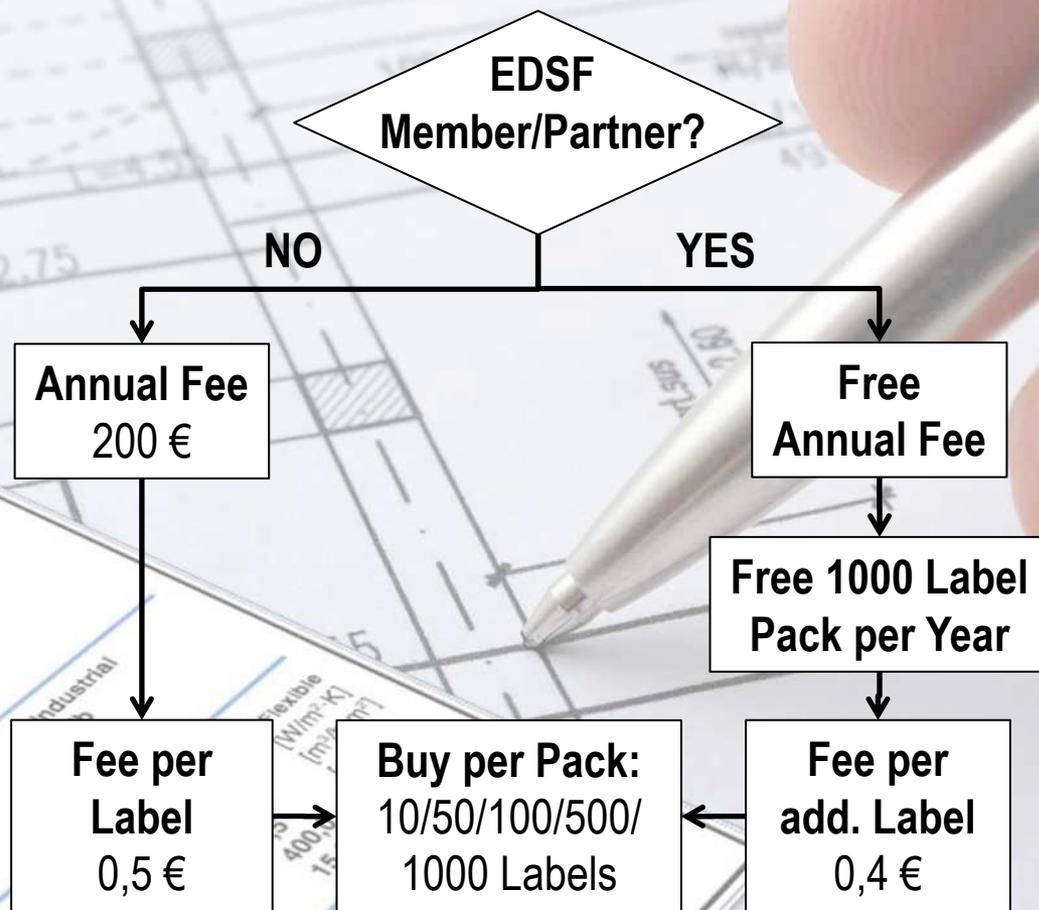
FULL Access



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

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

# Commercial Scheme



# 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

[www.edsfdoorenergy.com](http://www.edsfdoorenergy.com)

[info@edsfdoorenergy.com](mailto:info@edsfdoorenergy.com)