



EDSF Energy Label
for automatic doors

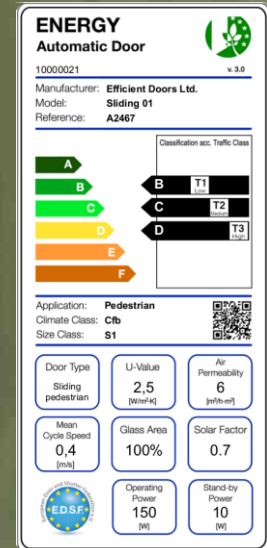
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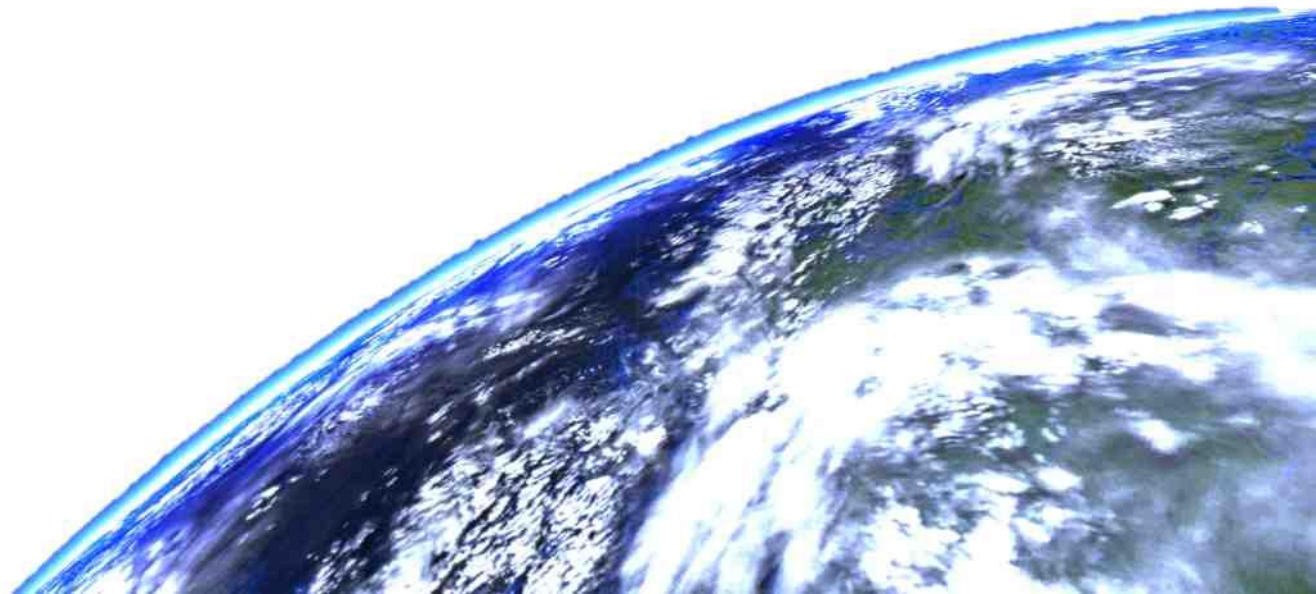
Why an Energy Label

- 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.



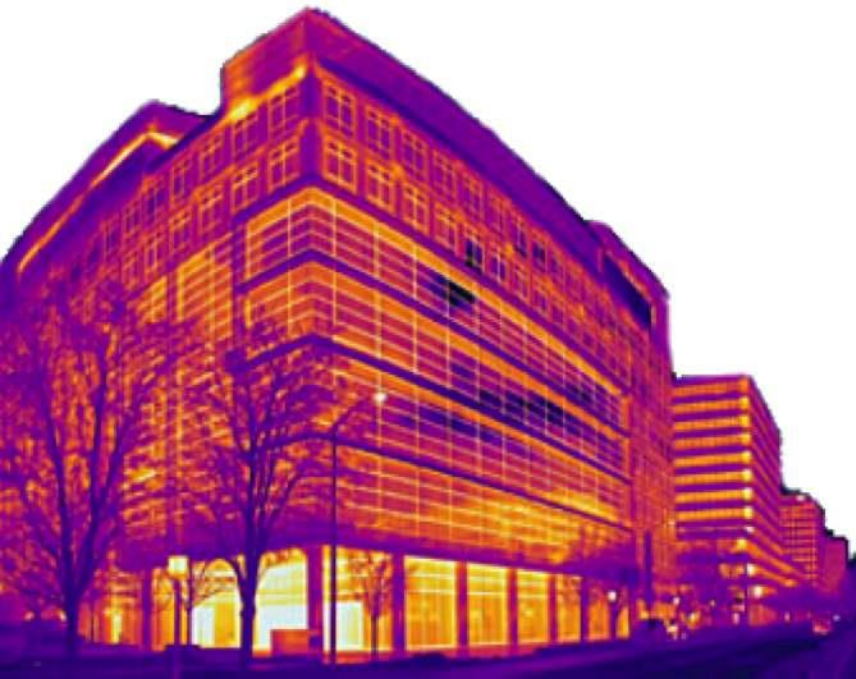
Key Facts

Buildings constitute a fundamental component of global energy demand and CO₂ emissions.



Key Facts

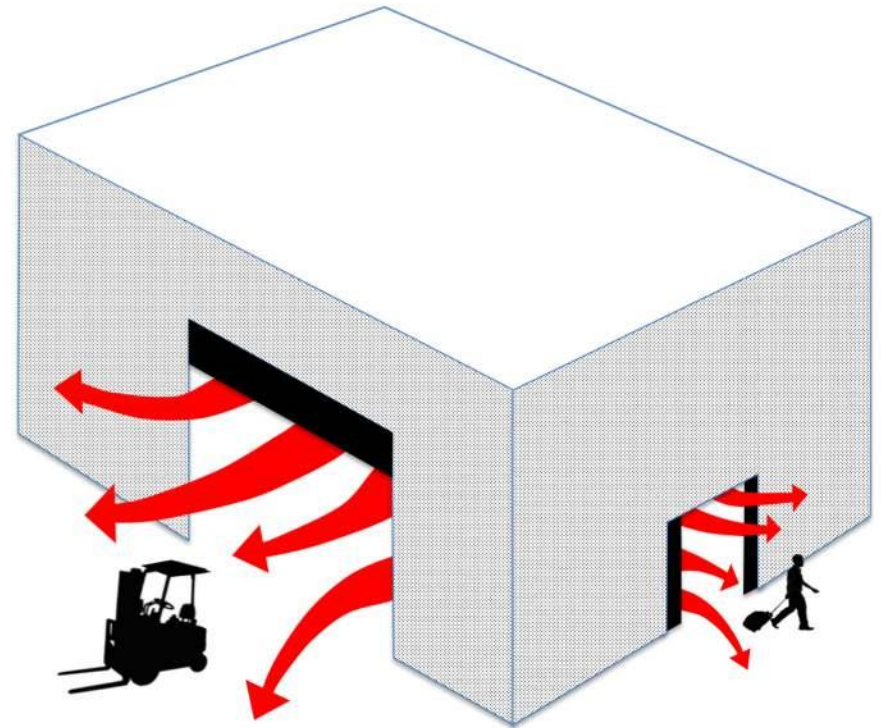
Doors **have a much higher impact on the energy consumption of a building that is widely recognised.**



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



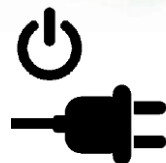
“Opening Speed”

Long Wave Radiation



“Emissivity”

Electrical Consumption



“Operation & Stand-by Power”

Technical Basis

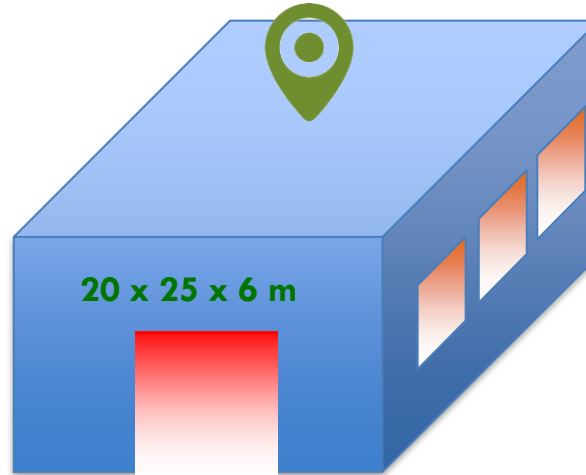
Example: Doors vs Windows



Sectional Door

- Area = 9 m²
- U-Value = 2,5 W/m²·K
- Air Permeability = 6 m³/h·m²
- 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

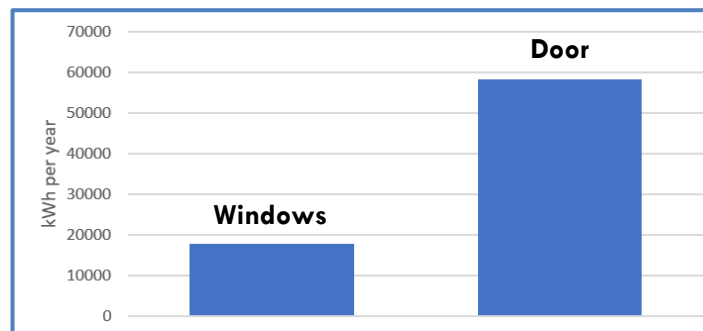


Windows



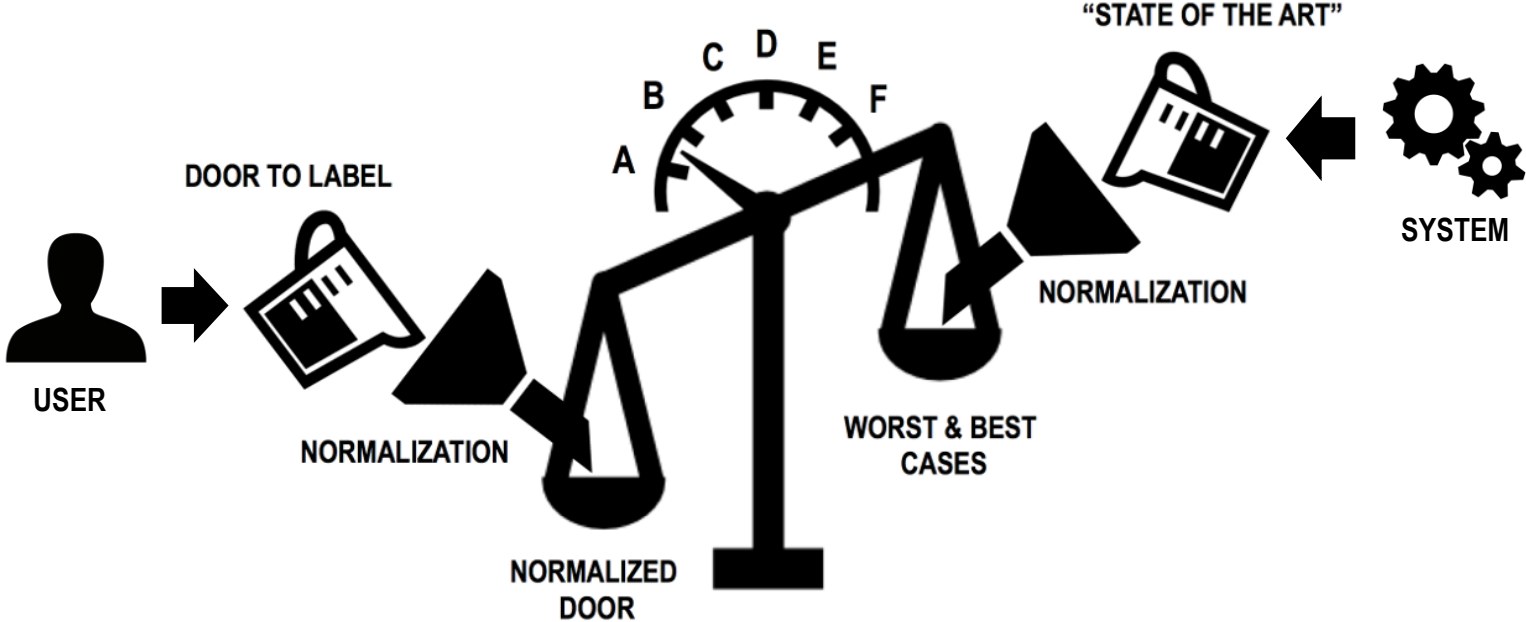
- Area = 40 m²
- U-Value = 2,5 W/m²·K
- Air Permeability = 6 m³/h·m²
- Glass area = 90%
- Solar factor = 0,75
- Emissivity = 0,9
- Opening Cycles per Year = 365
- Opening Time per Cycle = 300 s

Energy Losses in kWh per year



Classification Method

Concept

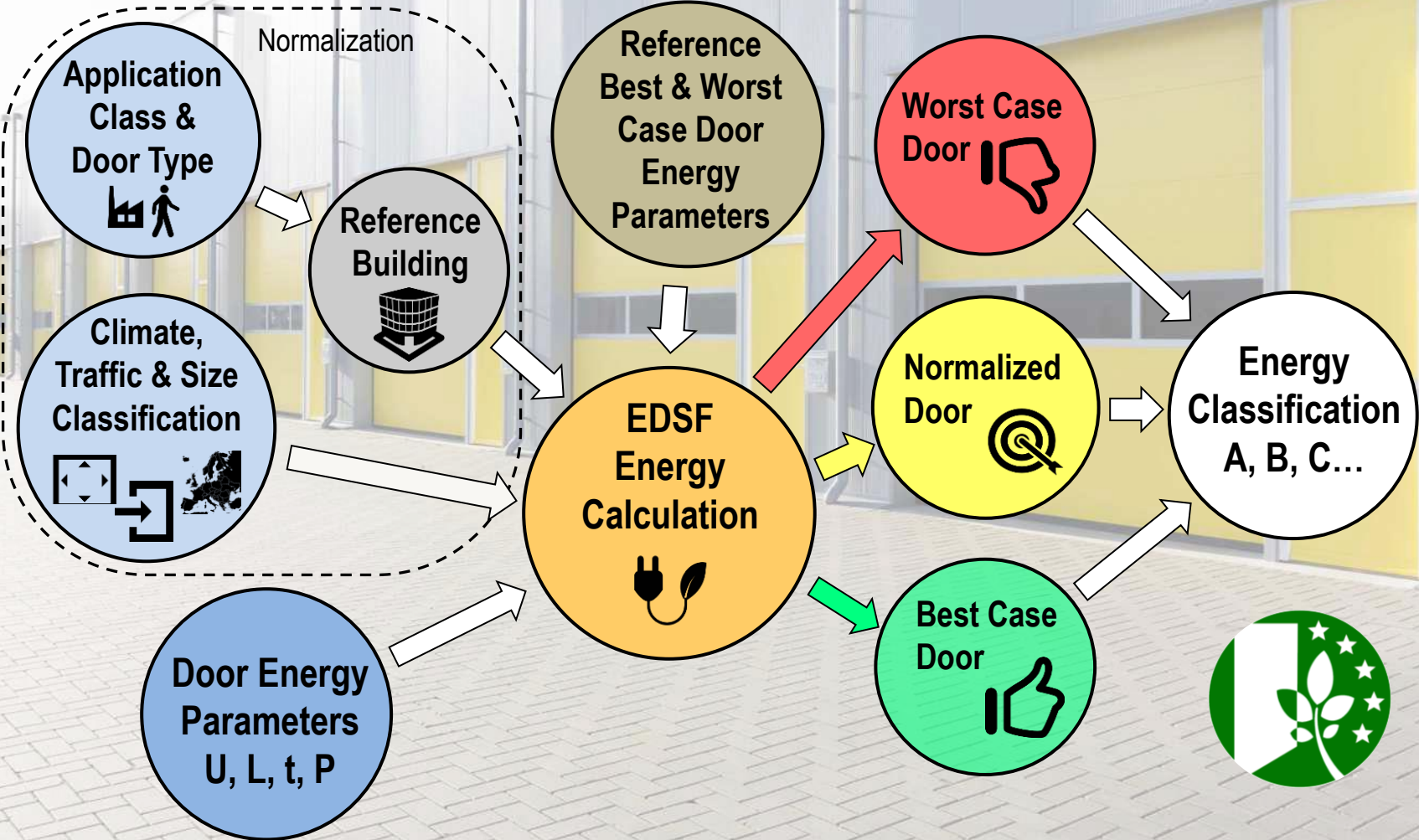


A	B	C	D	E	F
Best Case	Very High Performance	High Performance	Intermediate Performance	Low Performance	Very Low Performance
Relative Losses $0% < E < 15%$	Relative Losses $15% < E \leq 30%$	Relative Losses $30% < E \leq 45%$	Relative Losses $45% < E \leq 60%$	Relative Losses $60% < E \leq 75%$	Relative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



Classification Method

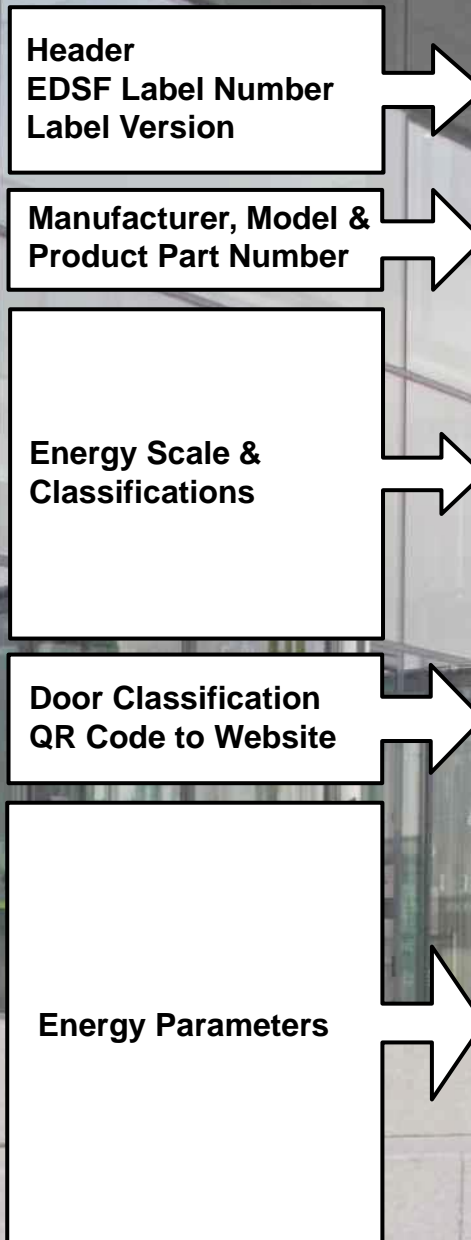
Calculation Procedure




Label Description

Structure & Content

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



ENERGY
Automatic Door




10000095 v. 3.0


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

Classification acc. Traffic Class

A	A T3 High
B	B T2 Medium
C	C T1 Low
D	
E	
F	

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



Door Type Overhead Sectional	U-Value 3,5 [W/m ² ·K]	Air Permeability 12 [m ³ /h·m ²]
Mean Cycle Speed 0,4 [m/s]	Glass Area 20%	Solar Factor 0,55
 European Door and Shutter Federation e.v.	Operating Power 150 [W]	Stand-by Power 10 [W]

System Use

Two Possibilities

The Platform



On-line Calculation with different Data Storage Options

Full In-Company integration

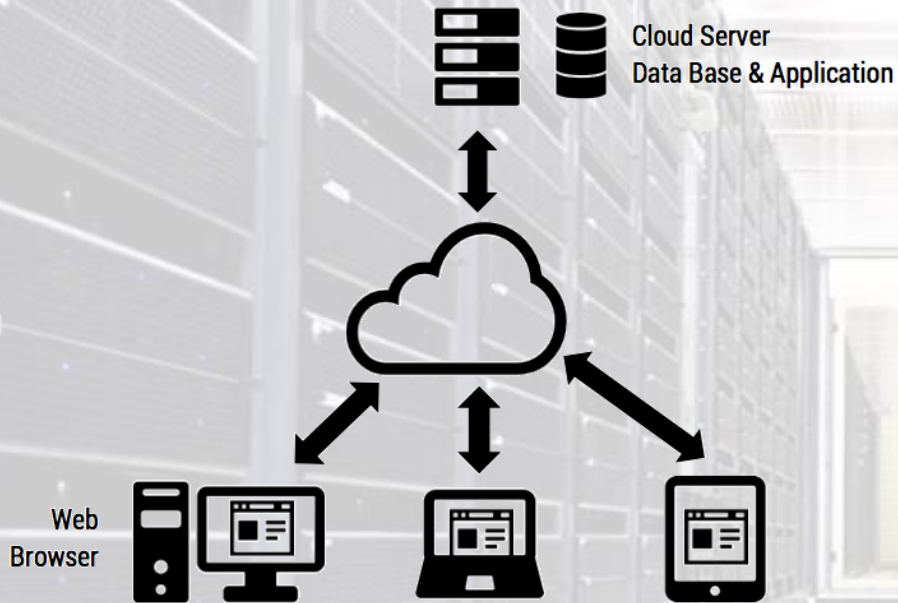


Internal System developed by companies under License Agreement

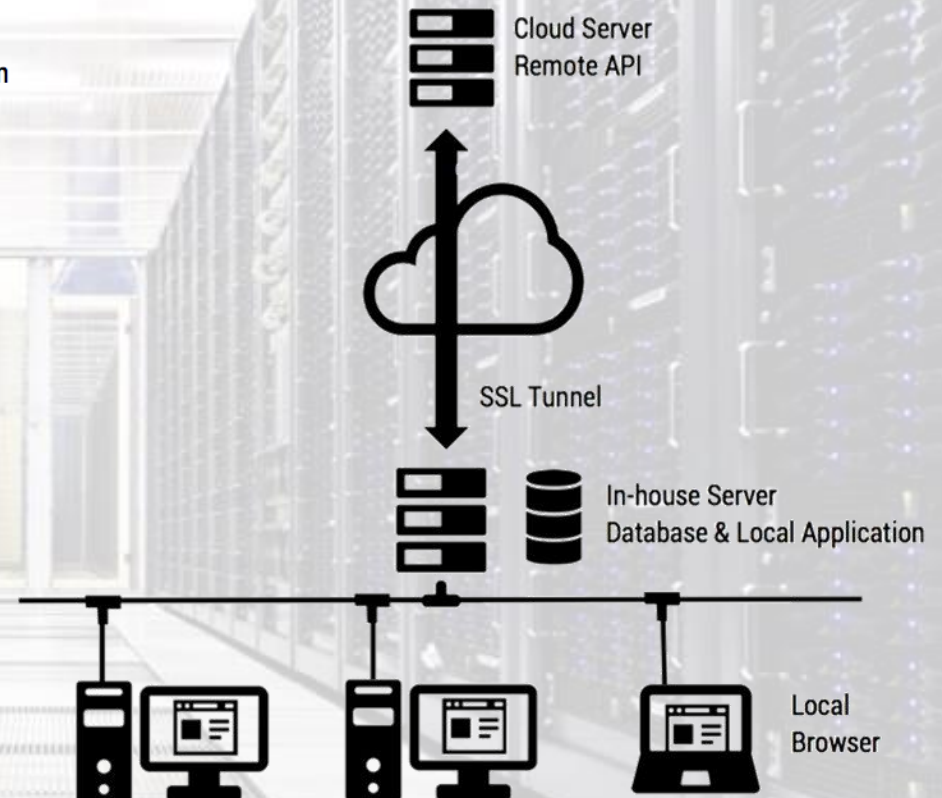
The Platform

Storage Options

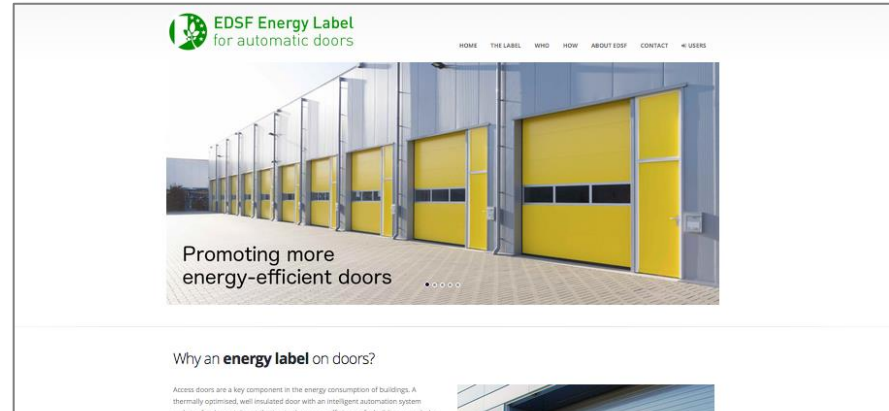
Cloud Platform



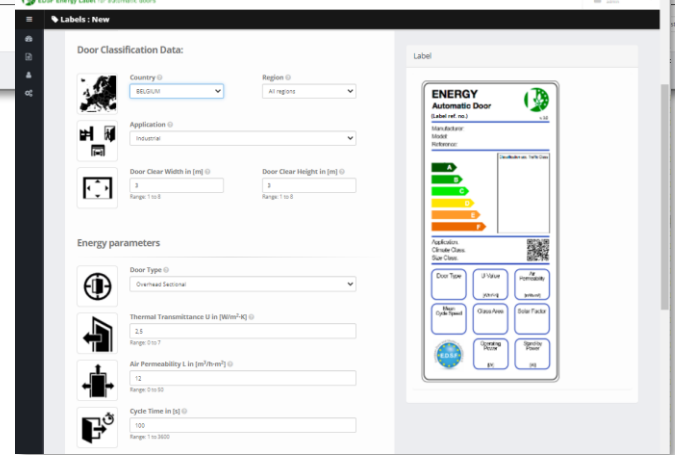
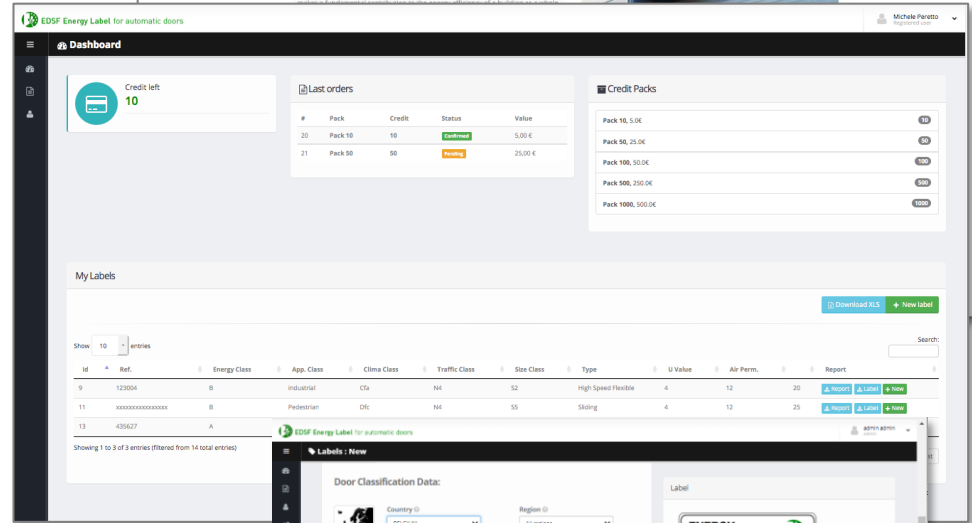
In-House Platform



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:

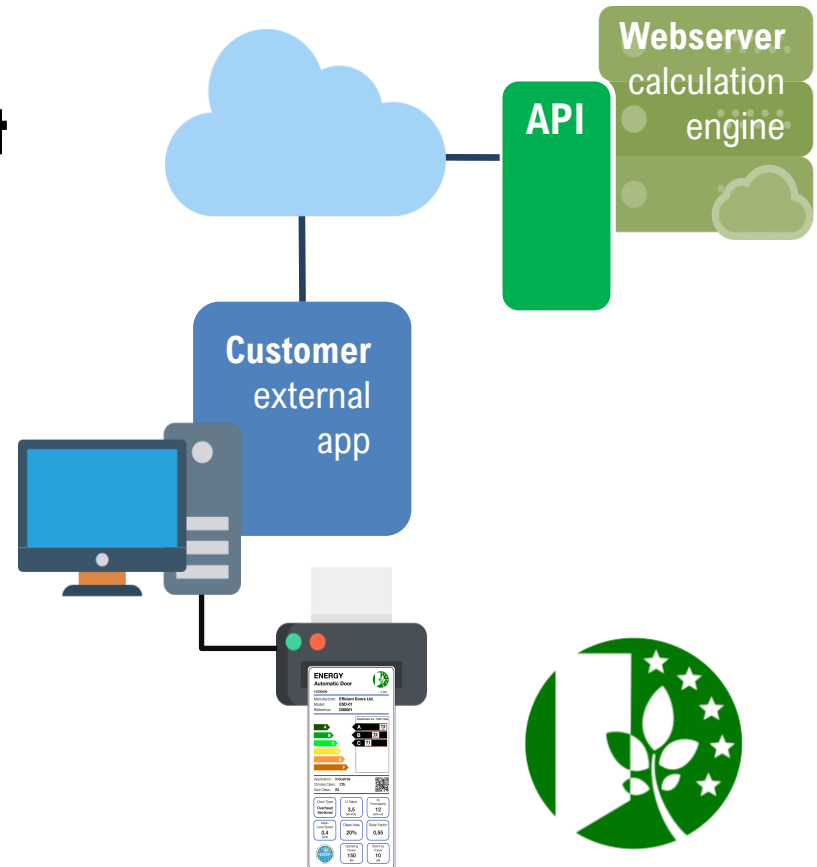
Id	Ref.	Energy Class	App. Class	Clima Class	Traffic Class	Size Class	Type	U Value	Air Perm.	Open Speed	Actions
1	C	A+	Industrial	Dfb	N4	S2	Roller Shutter	4	12	0,86 [m/s]	Report Label + New
2	01234	C	Industrial	Cfb	N3	S2	Overhead Sectional	2,5	12	0,24 [m/s]	Report Label + New



In-Company Option



- **Webserver calculation w/API 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

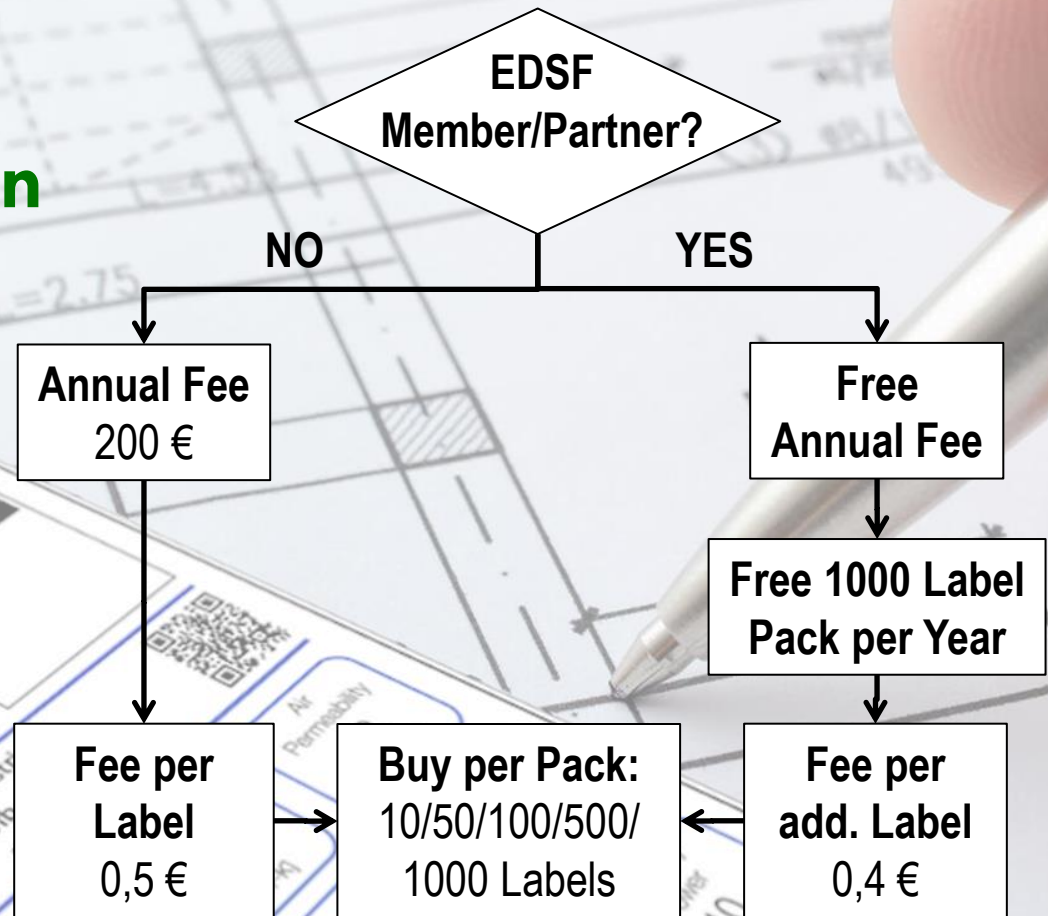
FULL Access



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.



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