



# Objectives & Activities

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*Chairman WG „Energy & Sustainability“*

# History



- Formed in 1985 by national manufacturers associations
  - main leader in development of EN 13241-1 – Product Standard for Doors

- New orientation in 2009
  - New Secretariat & activities

- Working Groups
  - “Service and Maintenance”
  - “Energy and Sustainability”
  - “Fire and Smoke”



- Doubled members in the last 4 years
  - E.D.S.F. grows up to 24 members (manufacturer & associations) of 12 European countries → *stand for over 1.000 manufactures, installers and suppliers!*

- Since May 2012 cooperation with ARGE
  - Topics: sustainability, EN 16034, common voice to EU-authorities

# Objectives

E.D.S.F. represents the door-industry on EU-level with the following objectives:

- Building awareness in the market for
  - Safe doors
  - Increasing accessibility and environmental responsibility
- Harmonisation
  - of European standards
  - of installation, maintenance and inspection requirements of products regarding quality and safety of users
- Support the EU-market surveillance activities to strengthen the EU-market





# Activities



**E.D.S.F. Newsletter 01/2011**  
05/05/11

**Working Group "Service & Maintenance" took place**

In February 2011 the E.D.S.F. Working Group "Service & Maintenance" continued his work in finding a common approach in the frequency of maintenance needs and the qualification level of service providers/personal.

Due to the fact of too many unsafe doors in the market – approx. 60-70% of the power operated doors are not maintained at the moment – and that the legislative framework is currently not well known to be proactive in awareness building.

Therefore E.D.S.F. defined a draft guideline who owners and users to fulfil their tasks and improve regularly service.

As a result E.D.S.F. proposes that maintenance manual and power operated doors. For door maintenance shall always include risk assessment upgrade could including components as e.g. drive, door, rollers – according to the state of the art (best available) are met. For doorsets placed on the favourable effect, minimum checks according to their validity for equipments in the building where it intended has changed after the products have been installed.

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**E.D.S.F. welcomes new members**

The SNPFSA (Syndicat National Solaire et des Professions Italiennes) is gathering the manufacturers commercial industrial doors, gar doors in the SNPFSA's main – from the manufacturer or ass – and counts today around 120 members.

E.D.S.F. is proud to welcome the SNPFSA – as a former member E.D.S.F. work it is important to have also the French point of view.

**E.D.S.F. welcomes his new members and looks forward to the coming year.**

**E.D.S.F. Newsletter 02/2011**

**E.D.S.F. forges alliance with BAU fair in Munich**

BAU and E.D.S.F. will be working closely together in the future. The World's Leading Trade Fair for Architecture, Materials, Systems and the European Door and Shutter Federation will from now onwards be supporting each other in their respective marketing activities. In agreement to this effect, also providing for a trade forum as part of 2013, was signed in mid-September 2011.

**E.D.S.F. Newsletter 01/2012**

**Successful 1<sup>st</sup> E.D.S.F. Fire and Smoke Symposium with the participation of the European fire-door industry**

Several European producers of fire-resisting doors and representatives of national door associations followed the invitation to the 1<sup>st</sup> E.D.S.F. Fire and Smoke Symposium which took place in Düsseldorf mid of March.

Due to the forthcoming fire and smoke product standard prEN 16034 and the Construction Product Regulation (CPR) – entering into force 1<sup>st</sup> July 2013 CE-marking will become mandatory. Manufacturers could be faced with obstacles in different Member States. E.D.S.F. acts as a platform to find a harmonized position on issues which matter to all fire door producers in Europe and how to overcome possible barriers. During the Symposium E.D.S.F. informed about today's and future situation concerning the upcoming fire and smoke product standards and the CPR. Due to the fact that the product standard which is a pre-requisite for the CE marking is not available yet unnecessary costs are put on manufacturers of fire resisting and smoke control doors.

The fire and smoke product standard prEN 16034 is drafted and will go to formal vote in due course.

Some of the EXAP standards (Extended Applications, prEN 15209 series) are published and others – as steel doors, timber doors – are on their way to UAP (unique acceptance procedure). This package of standards will cover ~80% of the products on the market.

It is expected that the product standard will be published at the beginning of 2013. Then a transition period will start – 3-5 years are requested. Based on these figures CE-marking for fire & smoke doors will be mandatory all over Europe at the latest about 2015.

The E.D.S.F. Working Group "Fire & Smoke" will accompany this process and gives the European industry the right platform for further activities.

**E.D.S.F. -Door Energy Calculator online**

As reported in the last E.D.S.F. newsletter the Working Group "Energy & Sustainability" found a common calculation method to show tendencies for energy losses of buildings caused by doors. The group realised the programming of the E.D.S.F. Door Energy Calculator which was presented the first time at the R+T fair at Stuttgart and is now online available for everyone.

With this calculator it came clear that the door parameters: U-value, Air-leakage and Opening time, have a real impact on the energy consumption in correlation to the building type and size. This calculator could be used as sales tool and is now available for industrial doors. The next version with power pedestrian doorsets is in work and further languages beside English and German which are already available are planned.

E.D.S.F. members could implement the calculator on their website.

**European Door and Shutter Federation e.V.**

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**News**

29.04.2013 - European Door and Shutter Federation - General Assembly 2013 will be held on 13th and 14th June at Prague - do not miss it!  
Read on >>>

23.01.2013 - Positive resonance at ttt - A E.D.S.F. -Door forum within the BAU 2012  
The German association Industrieverband Tore Türen Zargen (TZ) conducted the door-forum at the

**Members**

**E.D.S.F. "Safe Doors"**  
The new E.D.S.F. brochure "Safe Doors" is available. Revised guideline papers are under information.  
Read on >>>

**Door Energy Calculator**  
NEW - The new version of the Door Calculator is online.  
Read on >>>

**NEW Research Project**  
"Door Systems in industrial buildings"  
Read on >>>

EDS.F. followed the invitation to the 1st E.D.S.F. Fire and Smoke Symposium

Market indicators (to compare with 2012)	Progress	Group Industrial Doors	Group Pedestrian Doors	Group Fire resist. Doors	Group Drive Systems	Total
<b>Units national (Country)</b>	increase same	PL A; CH; D; E; J; FIN; N; NL	FIN D; I	FIN D; I	PL A; CH; D; FIN; N	FIN; NL D; I
<b>Units international (EU)</b>	increase same decrease	A; B; CH; DK; E; F; FIN; I; N; NL; PL; S; UK	FIN; I; I BG; E; I	FIN; I; I E; I	A; B; CH; DK; F; FIN; I; N; NL; PL; S; UK	FIN; I; NL BG; CZ; E; I D; I
<b>Turnover</b>	increase same decrease					D; I; PL A; CH; CZ; FIN; I; I; N; NL; B; BG; DK; E; F; S; UK
<b>Number of workers</b>	increase same decrease					A; CH; CZ; D; I; I; N; NL; I; F; B; BG; DK; E; F; FIN; S; UK

El usuario debe estar convencido de que con una puerta térmicamente aislada se ahorra energía y se reduce el consumo de energía. Este ahorro de energía para los edificios, causadas por la apertura y el cierre de las puertas, depende del tipo de edificio y tamaño.

Der E.D.S.F. Working Group "Energy & Sustainability" found a common calculation method to show tendencies for energy losses of buildings caused by doors. The group realised the programming of the E.D.S.F. Door Energy Calculator which was presented the first time at the R+T fair at Stuttgart and is now online available for everyone.

With this calculator it came clear that the door parameters: U-value, Air-leakage and Opening time, have a real impact on the energy consumption in correlation to the building type and size. This calculator could be used as sales tool and is now available for industrial doors. The next version with power pedestrian doorsets is in work and further languages beside English and German which are already available are planned.

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# WG “Service & Maintenance”

- Situation: Different service levels from country to country
  - *door industry should speak with one voice*
- Brochure “Safe Doors” and “Guidelines” for a common understanding and interpretation released – definition of:
  - qualification level of competent service technician  
→ *training matrix*
  - regular service, Repair, Replacement, CE-marking
- Lobbying activities on EU-Commission-level to set common safety levels for service and maintenance
  - Talks with EU-authorities



- Situation: new requirements in the market with EN 16034
- Common interpretation of product standard “fire and smoke doorsets” – EN 16034 needed
  - Activities started
- Develop Guideline Paper „Service & Maintenance on Fire-resistant doors“
  - For a better common understanding and quality level
- E.D.S.F. created with „Fire & Smoke-Symposium“ in 2012 a platform which should be regularly used
  - *44 participants from 27 companies and institutions, out of 11 countries*





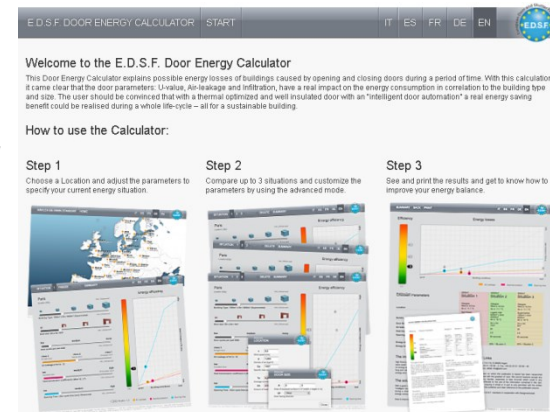
# WG “Sustainability & Energy”



- Situation: Doors have a higher impact in energy savings than thought

- E.D.S.F.-Door-Energy-Calculator [www.edsf.com/calculator](http://www.edsf.com/calculator)

- to explain the correlation of the main door parameters
- Communication with Green Building labels
- translation of survey “Door systems in industrial buildings”



- Generic Environmental Product Declaration (EPD) on EU-level

- Possibility to set on ARGE module

- Draft of “Energy Label” for doors

- Realisation in discussion

ENERGY LABEL CLASSIFICATION CALCULATOR FOR AUTOMATIC DOORS Password: edsf

Door Model:  Reference:  Draft

Concept	Variable	Symbol	Units	DOOR to Calculate	DOORST Reference Case	DOOR Reference Case	BEST Reference Case
Door Type	Door Application Door Type	-	-	Pedestrian Sliding pedestrian	Pedestrian Sliding pedestrian	Pedestrian Sliding pedestrian	Pedestrian Sliding pedestrian
Location	City Climate Class Temperature Difference ext-int Wind Speed Wind Pressure	L v p	[°C] [m/s] [Pa]	Nantes 8.19 8.30 46.71	Brussels 6.34 8.42 45.83	Brussels 6.34 8.42 45.83	Brussels 6.34 8.42 45.83
Building	Building height Building Plant Area Heating and Cooling Time per Dh	BH BS P	[m] [m²] [hours]	5 3000 24	4 1000 24	4 1000 24	4 1000 24
Traffic	Number of Opening Cycles per Year Traffic Class	-	-	600000 HS	750000 HS	750000 HS	750000 HS
Door Size	Door Clear Width Door Clear height Door Clear Area Size Class	DW Dh A -	[m] [m] [m²] -	2.50 2.50 6.25 54	3.00 2.50 7.50 54	3.00 2.50 7.50 54	3.00 2.50 7.50 54
Energy parameters	Thermal Transmittance Air Permeability Opening Time per Cycle Mean Opening Speed Door Leaf Weight Mean Power per cycle Relative power per cycle Stand-by Power	U L K <sub>o</sub> V <sub>o</sub> P <sub>o</sub> P <sub>o</sub> P <sub>o</sub>	[W/m²·K] [m³/(h·m²)] [s] [m/s] [kg] [W] [W/kg] [W]	3.00 12.00 15.00 0.36 150.00 80.00 0.33 6.00	6.00 24.00 30.00 0.20 187.50 281.25 1.50 25.00	3.00 12.00 15.00 0.36 187.50 281.25 0.53 6.00	3.00 6.00 14.00 0.50 187.50 75.00 0.40 5.00

ENERGY LABEL Automatic Door

Manufacturer Model Reference

Energy Label: A, B, C, D, E, F, G

Door Application: Pedestrian Sliding pedestrian  
Door Type: Sliding pedestrian  
Climate Class: Cfb  
Traffic Class: HS

Energy Label: A

Thermal transmittance: 3.00 [W/m²·K]  
Air Permeability: 12.00 [m³/(h·m²)]  
Opening Speed: 0.4 [m/s]  
Operating Power: 80.0 [W]  
Stand-by Power: 5.0 [W]

# E.D.S.F. on ARGEs way to generic EPDs

- E.D.S.F. is aware of the upcoming importance of EPDs
  - Lets fill cooperation with more life and follow ARGE

## Decision process:

- 26<sup>th</sup> March – Presentation of ARGE project by ARGE General Secretary at WG Sustainability
- 13<sup>th</sup> June – E.D.S.F.-General-Assembly
  - Decision to continue and to check requirements
- 27<sup>th</sup> August – Expert meeting ARGE, Cetim, E.D.S.F.
  - Information exchange about project realisation
- 01<sup>st</sup> October – *WG Sustainability*
  - *Decision should be taken whether to follow or not*
- If E.D.S.F. could set up a project which is aligned with ARGE module, ARGE and E.D.S.F. can benefit
  - Possible cost reduction by CETIM (bigger consulting package)
  - Higher impact as “marketing tool” → whole door branch – from hardware- to door-manufacture – set standards on EU-level concerning EPDs





# Thank you for your attention!



*Dedicated to People Flow*



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