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Environmental Product Declaration

according to ISO 14025 and prEN 15804

Multi!funWion'Xccfg'(Vca dUbm9 PD)

Hörmann KG Freisen



Declaration number
EPD-MT-0.1

November 2010



Product group: Doors
Declaration number: EPD-MT-0.1

Creation date: 01 November 2010
Next revision: 01 November 2015

Programme holder **ift** Rosenheim GmbH
Theodor-Gietl-Strasse 7-9
83026 Rosenheim, Germany



Declaration holder Hörmann KG Freisen
Bahnhofstrasse 43
66629 Freisen, Germany

Declaration number EPD-MT-0.1

Basic PCR PCR for doors and hinged doors, ift Rosenheim GmbH, issue PCR-TT-0.1

Scope Steel multi-function doors of Hörmann KG Freisen:
This Environmental Product Declaration according to ISO 14025 describes the environmental impact of the building product multi-function doors of the company Hörmann KG Freisen.

Description of the declared product Multi-function steel doors

Validity This validated Environmental Product Declaration only applies to the above-mentioned products and is valid for 5 years from the date of issue.
The declaration holder is fully liable for the information and evidence on which the declaration is based.

Date of issue 01 November 2010

Signature of the validating party

Strufe, Bernd

Verification of the declaration

Signature of the director of ift Rosenheim GmbH

Sieberath, Ulrich

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Application range of the declared products

Multi-function doors for non-domestic construction projects for indoor and outdoor application. The following functions can be included:

- Fire-retarding (T30)
- Fire-retarding (T60)
- Fire-proof (T90)
- Smoke-tight
- Acoustic-rated
- Break-in resistant (resistance class WK 2 – resistance class WK 4)

The application range varies according to the function of the multi-function door. The precise application range of the multi-function door can be defined in co-ordination with the manufacturer.

Scope of the Life Cycle Assessment

The Life Cycle Assessment was carried out according to DIN ISO 14040 and DIN EN ISO 14044. The data collected from the factory of Hörmann KG Freisen and generic data of the “Gabi 4.4” database were used as the basis. The Life Cycle Assessment was calculated through the life cycle “cradle to gate” taking into account all upstream chains such as raw material exploitation. In addition, the “End of Life” phase was considered.

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Findings of the Life Cycle Assessment

Multi-function door					
Life cycle phase		Manufacturing		End of Life	
Indicator	Unit	Per m ²	Per door (1.0 x 2.1 m)	Per m ²	Per door (1.0 x 2.1 m)
Primary energy, not renewable	MJ	1651	3509	-1045	-2220
Primary energy, renewable	MJ	58.58	124.5	-28.44	-60.43
Global Warming Potential (GWP)	kg CO ₂ eqv.	123.1	261.5	-49.28	-104.7
Ozone Depletion Potential (ODP)	kg R11 eqv.	4.147 x 10 ⁻⁶	8.813 x 10 ⁻⁶	-2.644 x 10 ⁻⁶	-5.618 x 10 ⁻⁶
Acidification Potential (AP)	kg SO ₂ eqv.	0.3741	0.7949	-0.1754	-0.3726
Eutrophication Potential (EP)	kg PO ₄ ³⁻ eqv.	0.0367	0.0781	-0.0038	-0.0080
Photochemical Ozone Creation Potential (POCP)	kg C ₂ H ₄ equivalent	0.0522	0.111	-0.0230	-0.0488

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Fire-proof glass			
Life cycle phase		Manufacturing	End of Life
Indicator	Unit	1 m ² glass	1 m ² glass
Primary energy, not renewable	MJ	165.45	-30.23
Primary energy, renewable	MJ	2.84	-1.547
Global Warming Potential (GWP)	kg CO ₂ eqv.	109.1	15.08
Ozone Depletion Potential (ODP)	kg R11 eqv.	5.1864 x10 ⁻⁷	-3.048 x10 ⁻⁷
Acidification Potential (AP)	kg SO ₂ eqv.	0.6007	0.0475
Eutrophication Potential (EP)	kg PO ₄ ³⁻ eqv.	0.0483	0.0373
Photochemical Ozone Creation Potential (POCP)	kg C ₂ H ₄ equivalent	0.1068	0.0119

Note:

For multi-function doors with glass elements or glass parts the calculation of the environmental impact of the respective glass proportion per m² should be taken into account.

Evidence

The following evidence was additionally provided and included in the Environmental Product Declaration:

- QM according to ISO 9001:2008
- Safety data sheets according to the REACH regulation and hazardous substances ordinance

Imprint

Programme holder

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Notes

The basis of this EPD mainly consists of the work and insights of the Institut für Fenstertechnik e.V., Rosenheim (**ift** Rosenheim) and in particular the regulation NA-01/1 General instructions for the preparation of type III Environmental Product Declarations..

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Layout

ift Rosenheim GmbH

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