

Environmental Product Declaration (EPD) short version



Declaration code: EPD-HSRL-0.9.1



HÖRMANN KG

Industrial spiral steel doors



Grundlagen:

DIN EN ISO 14025
EN15804

Company-EPD
Environmental
Product Declaration

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25.08.2017

Next revision:
25.08.2022



[www.ift-rosenheim.de/erstelte-epds](http://www.ift-rosenheim.de/erstellte-epds)

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Programme operator	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim		
Practitioner of the LCA	LCEE GmbH Berliner Allee 58 64295 Darmstadt		
Declaration holder	HÖRMANN KG Upheider Weg 94-98 33803 Steinhagen		
Declaration code	EPD-HSRL-0.9.1		
Designation of declared product	Industrial spiral steel doors		
Scope	HÖRMANN industrial spiral steel doors are used both as interior and exterior doors. They are an energy-saving enclosure for structural openings in industrial, commercial and private sectors. They optimise the flow of traffic and improve the room climate as well as working conditions and also contribute to energy conservation.		
Basis	This EPD was prepared on the basis of EN ISO 14025:2011 and EN 15804:2012+A1:2013. In addition, the "Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen" (Guidance on preparing Type III Environmental Product Declarations) applies. This Declaration is based on the PCR document "Doors" - PCR-TT-1.1:2013		
Validity	Publication date: 25.08.2017	Last revision: 25.08.2017	Next revision: 25.08.2022
	This verified Company Environmental Product Declaration applies solely to the specified products and is valid for a period of 5 years from the date of publication in accordance with DIN EN 15804.		
LCA basis	The LCA was prepared in accordance with DIN EN ISO 14040 and DIN EN ISO 14044. The base data include both the data collected at the HÖRMANN KG production site and the generic data derived from the "GaBi ts" database. LCA calculations were based on the "cradle to gate life cycle with options" (cradle to gate with options) including all upstream processes (e.g. raw material extraction, etc.).		
Notes	The "Conditions and Guidance on the Use of ift Test Documents" apply. The declaration holder assumes full liability for the underlying data, certificates and verifications.		

 Prof. Ulrich Sieberath Director of Institute	 Florian Stich Independent Verifier
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Note: Use the extended version of the EPD for further information.

Product group: doors

Results per m ² industrial spiral steel door (part 1 of 2)																
Environmental impacts	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global warming potential (GWP)	kg CO ₂ -Äqv.	154	0,316	2,75	-	3,18E-03	-	-	-	51,5	0	0,631	0,250	5,85E-02	7,03	-77,8
Depletion potential of the stratospheric ozone layer (ODP)	kg R11-Äqv.	1,73E-06	1,04E-13	2,58E-13	-	3,07E-15	-	-	-	2,29E-09	0	2,80E-11	8,25E-14	2,60E-12	9,55E-13	-9,08E-07
Acidification potential of soil and water (AP)	kg SO ₂ -Äqv.	0,431	1,33E-03	3,36E-04	-	5,05E-06	-	-	-	0,147	0	1,80E-03	1,45E-03	1,67E-04	9,07E-04	-0,219
Eutrophication potential (EP)	kg PO ₄ ³⁻ -Äqv.	3,32E-02	3,32E-04	6,91E-05	-	1,24E-06	-	-	-	1,33E-02	0	1,63E-04	3,68E-04	1,51E-05	1,57E-04	-1,46E-02
Formation potential of tropospheric ozone (POCP)	kg C ₂ H ₄ -Äqv.	6,28E-02	-4,91E-04	2,54E-05	-	5,52E-07	-	-	-	9,39E-03	0	1,15E-04	-6,44E-04	1,07E-05	8,20E-05	-3,18E-02
Abiotic depletion potential - non-fossil resources (ADP - elements)	kg Sb-Äqv.	5,94E-03	2,50E-08	3,84E-08	-	5,59E-10	-	-	-	1,97E-05	0	2,41E-07	1,98E-08	2,24E-08	6,54E-08	-3,14E-03
Abiotic depletion potential - fossil resources (ADP - fossil fuels)	MJ	1,79E+03	4,30	0,572	-	6,35E-02	-	-	-	550	0	6,74	3,40	0,625	1,71	-823
Use of resources	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable primary energy - excluding renewable primary energy resources used as raw materials	MJ	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
Use of renewable primary energy resources used as raw materials (material use)	MJ	25,88	0	0	-	-	-	-	-	0	0	0	0	0	0	0
Total use of renewable primary energy resources (primary energy and renewable primary energy resources used as raw materials) (energy + material use)	MJ	237	0,216	0,113	-	1,53E-03	-	-	-	308	0	3,77	0,171	0,35	0,249	-69,6
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
Use of non-renewable primary energy resources used as raw materials (material use)	MJ	79,88	0	0	-	-	-	-	-	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (primary energy and non-renewable primary energy resources used as raw materials) (energy + material use)	MJ	1,93E+03	4,31	0,647	-	6,44E-02	-	-	-	903	0	11,1	3,41	1,03	1,89	-902
Use of secondary material	kg	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0



Product group: doors

Results per m ² industrial spiral steel door (part 2 of 2)																
Use of resources	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Use of renewable secondary fuels	MJ	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0
Use of non-renewable secondary fuels	MJ	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0
Use of net fresh water	m ³	269	1,79E-02	6,76E-02	-	5,96E-03	-	-	-	234	0	2,87	1,41E-02	0,266	0,166	-104
Waste categories	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	2,19E-02	0	0	-	0	-	-	-	0	0	0	0	0	0	-1,16E-02
Non-hazardous waste disposed (municipal waste)	kg	383	1,56E-02	0,14	-	3,45E-03	-	-	-	222	0	5,28	1,23E-02	2,53	5,13	-192
Radioactive waste	kg	5,25E-02	5,88E-06	3,00E-05	-	3,80E-07	-	-	-	0,14	0	1,72E-03	4,65E-06	1,60E-04	6,93E-05	-2,88E-02
Output material flows	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	-	0	-	-	-	0	0	0	0	0	0	0
Materials for recycling	kg	0	0	0	-	0	-	-	-	0	0	0	0	44,95	0	0
Materials for energy recovery	kg	0	0	1,62	-	0	-	-	-	0	0	0	0	3,90	0	0
Exported energy (electricity)	MJ	0	0	0	-	0	-	-	-	0	0	0	0	0	-13	0
Exported energy (thermal energy)	MJ	0	0	0	-	0	-	-	-	0	0	0	0	0	-29,5	0

Imprint

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Notes

This EPD is mainly based on the work and findings of the Institut für Fenstertechnik e.V., Rosenheim (ift Rosenheim) and specifically on the ift-Richtlinie NA-01/3 Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen (Guideline NA.01/3 - Guidance on preparing Type III Environmental Product Declarations).

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