

EPD Industrial sectional doors, sectional garage doors, roller shutters and roller grilles

Short Version

Environmental Product Declaration

Acc. to ISO 14025 and EN 15804

Industrial sectional doors, sectional garage doors, roller shutters and roller grilles
(company EPD)

Teckentrup GmbH & Co. KG



Declaration code
EPD-SRR-GB-5.0

January 2013

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Industrial sectional doors, sectional garage doors, roller shutters and roller grilles



Short version (Part 1 of 3)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim Germany		LCA analyst	Life Cycle Engineering Experts GmbH Berliner Allee 58 64295 Darmstadt Germany	
Holder of the declaration	Teckentrup GmbH & Co. KG Industriestraße 50 33415 Verl-Sürenheide Germany				

LCA results per m² industrial sectional door		Product stage	Construction process stage		Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n renw}) in MJ		807.00	6.19	-	-	0.02	86.26	-
Primary energy – renewable (PE _{renw}) in MJ		3.90	0.25	-	-	5.53E-04	2.11	-
Global warming potential (GWP 100) in kg CO ₂ equiv.		50.20	0.48	-	-	2.24E-03	6.09	-
Ozone depletion potential (ODP) in kg R11 equiv.		1.01E-07	2.40E-11	-	-	4.00E-12	8.93E-09	-
Acidification potential (AP) in kg SO ₂ equiv.		0.15	1.94E-03	-	-	2.76E-06	0.02	-
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0.01	4.68E-04	-	-	1.04E-06	1.79 E-03	-
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0.02	6.91E-04	-	-	5.52E-07	3.24E-03	-
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		3.88E-05	2.05E-08	-	-	0.02	84.43	-
Abiotic depletion potential (fossil) (ADP _{fos}) in MJ		773.00	6.16	-	-	5.69E-10	1.49E-06	-
Water consumption in m³		22.80	0.02	-	-	5.70E-03	1.64	-

Values that cannot be shown or are inexistent or marginal, are expressed as [-].

Prof. Ulrich Sieberath Director of Institute	Patrick Wortner Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Industrial sectional doors, sectional garage doors, roller shutters and roller grilles



Short version (Part 1 of 3)

Declaration code	EPD-SRR-GB-5.0
Designation of declared product	Industrial sectional doors , sectional garage doors, roller shutters and roller grilles made of hot dip galvanized, double-skinned steel sections or aluminium with optional PU insulation panels for a high level of thermal insulation including optional glazing.
Scope	Teckentrup industrial sectional doors, sectional garage doors, roller shutters and roller grilles for external (and internal) use as a shutter for building openings and vehicle entrances in industrial, commercial and residential applications.

Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	D
-	-	-	-	0.74	10.60	0.48	-313.10
-	-	-	-	0.03	1.80	0.02	-2.70
-	-	-	-	5.33E-02	0.75	0.04	-19.52
-	-	-	-	2.86E-12	3.71E-09	1.05E-10	-3.91E-09
-	-	-	-	2.31E-04	1.25E-03	1.07E-04	-0.09
-	-	-	-	5.57E-05	1.20E-04	4.28E-04	-7.05E-03
-	-	-	-	8.22E-05	9.20E-05	1.77E-05	-0.01
-	-	-	-	0.73	7.55	0.46	-317.00
-	-	-	-	2.44E-09	6.18E-08	5.53E-09	-1.12E-07
-	-	-	-	2.73E-03	1.83	0.02	-0.20

Basis

- EN ISO 14025:2006
- EN 15804:2012

Guidance on preparing Type III Environmental Product Declarations.

This Declaration is based on the PCR document „Pedestrian doorsets and industrial, commercial and garage doors and gates PCR-TT-1.0 : 2011

Validity

This verified Environmental Product Declaration applies solely to the specified products and is valid for a period of 5 years from the date of issue.

The declaration holder assumes full liability for the underlying data, certificates and verifications.

Date created:
01 January 2013

Next revision:
01 January 2018

LCA basis

The LCA was prepared in accordance with EN ISO 14040 and EN ISO 14044. The base data include both the data collected at the production sites of TECKENTRUP GmbH & Co. KG as well as generic data from the "GaBi 5" database. LCA calculations were based on the "cradle to grave" life cycle including all upstream processes (e.g. raw material extraction, etc.).



The LCA was prepared by Life Cycle Engineering Experts GmbH.

Notes on publication

"Conditions and Guidance on the Use of ift Test Documents" apply.

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D-ZM-11349 Management-Zert
D-IS-11349 Inspektion

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Industrial sectional doors, sectional garage doors, roller shutters and roller grilles



Short version (Part 2 of 3)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim Germany		LCA analyst	Life Cycle Engineering Experts GmbH Berliner Allee 58 64295 Darmstadt Germany	
Holder of the declaration	Teckentrup GmbH & Co. KG Industriestraße 50 33415 Verl-Sürenheide Germany				

LCA results per m ² sectional garage door		Product stage	Construction process stage		Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n renw}) in MJ		1110.00	7.89	-	-	0.02	8.78	-
Primary energy – renewable (PE _{renw}) in MJ		91.70	0.31	-	-	5.53E-04	0.29	-
Global warming potential (GWP 100) in kg CO ₂ equiv.		64.30	0.57	-	-	2.24E-03	0.35	-
Ozone depletion potential (ODP) in kg R11 equiv.		3.46E-07	3.07E-11	-	-	4.00E-12	6.77E-09	-
Acidification potential (AP) in kg SO ₂ equiv.		0.21	2.48E-03	-	-	2.76E-06	6.29E-04	-
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0.02	5.97E-04	-	-	1.04E-06	7.57E-05	-
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0.03	-8.81E-04	-	-	5.51E-07	2.23E-04	-
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		6.72E-05	2.61E-08	-	-	5.69E-10	1.37E-06	-
Abiotic depletion potential (fossil) (ADP _{fos}) in MJ		1050.00	7.86	-	-	0.02	8.05	-
Water consumption in m ³		68.90	0.03	-	-	5.70E-03	0.35	-

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Prof. Ulrich Sieberath Director of Institute	Patrick Wortner Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Industrial sectional doors, sectional garage doors, roller shutters and roller grilles



Short version (Part 2 of 3)

Declaration code	EPD-SRR-GB-5.0
Designation of declared product	Industrial sectional doors, sectional garage doors , roller shutters and roller grilles made of hot dip galvanized, double-skinned steel sections or aluminium with optional PU insulation panels for a high level of thermal insulation including optional glazing.
Scope	Teckentrup industrial sectional doors, sectional garage doors, roller shutters and roller grilles for external (and internal) use as a shutter for building openings and vehicle entrances in industrial, commercial and residential applications.

Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	D
-	-	-	-	0.94	1.352E+01	0.88	-424.50
-	-	-	-	0.04	2.298E+00	0.04	-8.01
-	-	-	-	0.07	9.604E-01	0.07	-20.53
-	-	-	-	3.65E-12	4.732E-09	1.95E-10	-1.46E-08
-	-	-	-	2.95E-04	1.593E-03	1.84E-04	-0.10
-	-	-	-	7.10E-05	1.528E-04	5.71E-04	-8.64E-03
-	-	-	-	1.05E-04	1.174E-04	2.99E-05	-0.02
-	-	-	-	3.11E-09	7.880E-08	1.03E-08	4.93E-07
-	-	-	-	0.94	9.630E+00	0.84	-420.70
-	-	-	-	3.48E-03	2.329E+00	0.03	-5.17

Basis

- EN ISO 14025:2006
- EN 15804:2012

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Industrial sectional doors, sectional garage doors, roller shutters and roller grilles



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Holder of the declaration	Teckentrup GmbH & Co. KG Industriestraße 50 33415 Verl-Sürenheide Germany				

LCA results per m² roller shutter/roller grille		Product stage	Construction process stage		Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PEn _{renw}) in MJ		800.00	6.88	-	-	0.02	10.00	-
Primary energy – renewable (PE _{renw}) in MJ		40.70	0.27	-	-	5.53E-04	0.33	-
Global warming potential (GWP 100) in kg CO ₂ equiv.		52.60	0.50	-	-	2.24E-03	0.41	-
Ozone depletion potential (ODP) in kg R11 equiv.		1.09E-07	2.67E-11	-	-	4.00E-12	7.41E-09	-
Acidification potential (AP) in kg SO ₂ equiv.		0.17	2.16E-03	-	-	2.76E-06	7.95E-04	-
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0.01	5.20E-04	-	-	1.04E-06	9.18E-05	-
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0.03	-7.68E-04	-	-	5.51E-07	2.60E-04	-
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		2.62E-05	2.28E-08	-	-	5.69E-10	1.50E-06	-
Abiotic depletion potential (fossil) (ADP _{foss}) in MJ		767.00	6.85	-	-	1.63E-02	9.20	-
Water consumption in m³		29.40	0.03	-	-	5.70E-03	0.39	-

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Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	D
-	-	-	-	0.82	11.78	0.39	-333.10
-	-	-	-	0.03	2.00	0.02	-0.50
-	-	-	-	0.06	0.84	0.04	-24.01
-	-	-	-	3.18E-12	4.13E-09	8.30E-11	9.11E-10
-	-	-	-	2.57E-04	1.39E-03	9.18E-05	-0.10
-	-	-	-	6.19E-05	1.33E-04	4.61E-04	-8.00E-03
-	-	-	-	9.14E-05	1.02E-04	1.56E-05	-0.01
-	-	-	-	2.71E-09	6.87E-08	4.35E-09	-4.71E-07
-	-	-	-	0.82	8.39	0.37	-342.00
-	-	-	-	3.03E-03	2.03	0.01	2.46

Basis

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