



EPD Continuous Rooflight

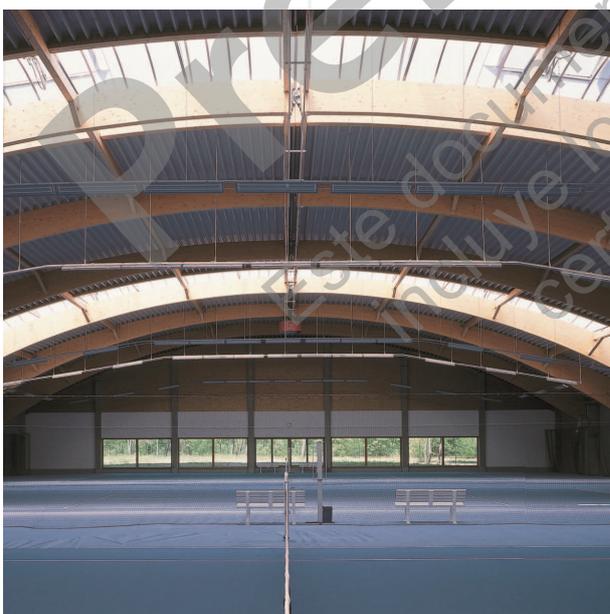
Short version

Environmental Product Declaration
Acc. to ISO 14025 and EN 15804

CI System Continuous Rooflight B | S (company EPD)

LAMILUX Heinrich Strunz GmbH

Lamilux
Este documento no tiene valor acreditativo sino
certificado de instalación y se adjunta el
Prefire.



Declaration code
EPD-LB-GB-11.3
September 2013



Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 1 of 4)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim		LCA analyst	Brands & values GmbH Karl-Ferdinand-Braun Str.2 28359 Bremen	
Holder of the declaration	LAMILUX Heinrich Strunz GmbH Zehstraße 2 D-95111 Rehau				

LCA results per m ² Continuous rooflight B	Product stage	Construction process stage			Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n,renw}) in MJ		1.010,00	5,76	-34,50	-	26,44	68,80	1.330,00
Primary energy – renewable (PE _{renw}) in MJ		257,00	0,34	0,08	-	0,21	1,15	255,00
Global warming potential (GWP 100) in kg CO ₂ equiv.		61,40	0,42	5,41	-	0,63	5,09	98,30
Ozone depletion potential (ODP) in kg R11 equiv.		5,51E-07	8,77E-12	3,64E-11	-	6,34E-11	6,17E-08	1,26E-06
Acidification potential (AP) in kg SO ₂ equiv.		0,30	1,98E-03	-1,38E-03	-	2,07E-03	6,19E-03	0,24
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0,02	4,82E-04	-4,33E-05	-	2,40E-04	1,42E-03	0,03
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0,02	-6,90E-04	-2,12E-05	-	2,45E-04	9,33E-04	0,02
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		5,18E-04	1,94E-08	-3,74E-08	-	1,03E-07	1,19E-03	2,54E-03
Abiotic depletion potential (fossil) (ADP _{fossil}) in MJ		1.010,00	5,76	-34,5	-	26,44	68,90	1.320,00
Water consumption in m ³		194	0,03	0,08	-	0,23	5,87	136,00

All values marked with [-] are either marginal, not available or can not be stated. Not relevant modules are described in the annex.

Prof. Ulrich Sieberath Director of Institute	Florian Stich Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 1 of 4)

Declaration code	EPD-LB-11.3
Designation of declared Product	LAMILUX CI system continuous rooflight B, LAMILUX CI system smoke lift B, LAMILUX CI system continuous rooflight S, LAMILUX CI system smoke lift S
Scope	Daylight systems for increased daylight incidence and natural ventilation and extraction

Basis

- EN ISO 14025:2011
- EN 15804:2012

Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen (Guidance on preparing Type III Environmental Product Declarations)

This Declaration is based on the PCR document „Fenster, Flachdach Fenster, Lichtkuppeln und Lichtbänder“ (windows, flat roof windows, light domes and continuous rooflights) PCR-FE-2.0 : 2013“

Validity

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

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

Date of publication:
30 September 2013

Next revision:
30 September 2018

LCA basis

The LCA was prepared in accordance with EN ISO 14040 and EN ISO 14044. The base data includes both the data collected at the production site of Lamilux and generic data from the "GaBi 6" database. LCA calculations were based on the "cradle to grave" life cycle including all upstream processes (e.g. raw material extraction, etc.).

Notes on publication

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

Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	
-	-	-	-	0,62	23,80	0,59	-445,00
-	-	-	-	0,03	1,78	0,03	-133,00
-	-	-	-	0,05	12,40	0,04	-36,60
-	-	-	-	8,55E-13	2,60E-08	2,03E-11	-9,90E-09
-	-	-	-	2,54E-04	0,01	1,21E-04	-0,20
-	-	-	-	6,13E-05	1,58E-03	1,36E-04	-9,65E-03
-	-	-	-	-9,74E-05	4,76E-04	1,93E-05	-0,01
-	-	-	-	1,86E-09	5,52E-06	7,60E-09	-4,43E-04
-	-	-	-	0,62	23,80	0,59	-445,00
-	-	-	-	2,58E-03	3,68	0,02	-136,00



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Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 2 of 4)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim		LCA analyst	Brands & values GmbH Karl-Ferdinand-Braun Str.2 28359 Bremen	
Holder of the declaration	LAMILUX Heinrich Strunz GmbH Zehstraße 2 D-95111 Rehau				

LCA results per m ² smoke lift B	Product stage	Construction process stage			Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n,renw}) in MJ		1.180,00	4,45	-	-	26,44	78,30	964,00
Primary energy – renewable (PE _{renw}) in MJ		293,00	0,26	-	-	0,21	4,65	40,30
Global warming potential (GWP 100) in kg CO ₂ equiv.		92,00	0,33	-	-	0,63	4,41	65,20
Ozone depletion potential (ODP) in kg R11 equiv.		9,59E-07	6,78E-12	-	-	6,34E-11	1,14E-07	1,88E-06
Acidification potential (AP) in kg SO ₂ equiv.		0,48	1,53E-03	-	-	2,07E-03	0,03	0,16
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0,03	3,72E-04	-	-	2,40E-04	1,31E-03	0,02
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0,03	-5,33E-04	-	-	2,45E-04	2,36E-03	0,02
Abiotic depletion potential (elements) (ADP _{el.}) in kg Sb equiv.		2,96E-03	1,50E-08	-	-	1,03E-07	3,11E-04	4,25E-03
Abiotic depletion potential (fossil) (ADP _{fos}) in MJ		1.180,00	4,45	-	-	26,44	78,10	967,00
Water consumption in m ³		302,00	0,02	-	-	0,23	1,71	63,10

All values marked with [-] are either marginal, not available or can not be stated. Not relevant modules are described in the annex.

Prof. Ulrich Sieberath Director of Institute	Florian Stich Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 2 of 4)

Declaration code	EPD-LB-11.3
Designation of declared Product	LAMILUX CI system continuous rooflight B, LAMILUX CI system smoke lift B , LAMILUX CI system continuous rooflight S, LAMILUX CI system smoke lift S
Scope	Daylight systems for increased daylight incidence and natural ventilation and extraction

Basis

- EN ISO 14025:2011
- EN 15804:2012

Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen (Guidance on preparing Type III Environmental Product Declarations)

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LCA basis

The LCA was prepared in accordance with EN ISO 14040 and EN ISO 14044. The base data includes both the data collected at the production site of Lamilux and generic data from the "GaBi 6" database. LCA calculations were based on the "cradle to grave" life cycle including all upstream processes (e.g. raw material extraction, etc.).

Notes on publication

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

Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	
-	-	-	-	0,30	15,90	0,22	-817,00
-	-	-	-	0,02	1,21	0,01	-276,00
-	-	-	-	0,02	3,87	0,02	-69,60
-	-	-	-	4,60E-13	2,63E-08	7,67E-12	-1,05E-07
-	-	-	-	1,00E-04	6,09E-03	5,29E-05	-0,42
-	-	-	-	2,42E-05	1,44E-03	4,17E-05	-0,02
-	-	-	-	-3,44E-05	3,06E-04	8,72E-06	-0,02
-	-	-	-	1,02E-09	4,01E-06	2,93E-09	-2,01E-03
-	-	-	-	0,30	15,90	0,22	-816,00
-	-	-	-	1,34E-03	3,41	7,70E-03	-280,00



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Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 3 of 4)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim		LCA analyst	Brands & values GmbH Karl-Ferdinand-Braun Str.2 28359 Bremen	
Holder of the declaration	LAMILUX Heinrich Strunz GmbH Zehstraße 2 D-95111 Rehau				

LCA results per m ² Continuous rooflight S	Product stage	Construction process stage			Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n,renw}) in MJ		1.450,00	7,27	-36,00	-	26,44	68,80	1.450,00
Primary energy – renewable (PE _{renw}) in MJ		379,00	0,43	0,09	-	0,21	1,15	257,00
Global warming potential (GWP 100) in kg CO ₂ equiv.		92,50	0,53	5,65	-	0,63	5,09	99,40
Ozone depletion potential (ODP) in kg R11 equiv.		9,45E-07	1,11E-11	3,80E-11	-	6,34E-11	6,17E-08	2,05E-06
Acidification potential (AP) in kg SO ₂ equiv.		0,47	2,50E-03	-1,44E-03	-	2,07E-03	6,19E-03	0,20
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0,03	6,08E-04	-4,49E-05	-	2,40E-04	1,42E-03	0,02
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0,03	-8,69E-04	-2,17E-05	-	2,45E-04	9,33E-04	0,02
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		1,13E-03	2,44E-08	-3,90E-08	-	1,03E-07	1,19E-03	2,42E-03
Abiotic depletion potential (fossil) (ADP _{fos}) in MJ		1.450,00	7,27	-36,00	-	26,44	68,90	1.460,00
Water consumption in m ³		317,00	0,03	0,09	-	0,23	5,87	136,00

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Prof. Ulrich Sieberath Director of Institute	Florian Stich Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 3 of 4)

Declaration code	EPD-LB-11.3
Designation of declared product	LAMILUX CI system continuous rooflight B, LAMILUX CI system smoke lift B, LAMILUX CI system continuous rooflight S, LAMILUX CI system smoke lift S
Scope	Daylight systems for increased daylight incidence and natural ventilation and extraction

Basis

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- EN 15804:2012

Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen Guidance on preparing Type III Environmental Product Declarations)

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Notes on publication

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

Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	
-	-	-	-	0,74	13,30	0,61	-809,00
-	-	-	-	0,04	0,90	0,03	-254,00
-	-	-	-	0,05	12,20	0,05	-67,40
-	-	-	-	1,02E-12	3,62E-08	2,10E-11	-2,05E-08
-	-	-	-	2,94E-04	4,71E-03	1,27E-04	-0,38
-	-	-	-	7,08E-05	1,83E-03	1,38E-04	-0,02
-	-	-	-	-1,11E-04	3,29E-04	2,05E-05	-0,02
-	-	-	-	2,22E-09	5,80E-07	7,90E-09	-1,11E-03
-	-	-	-	0,74	13,30	0,61	-809,00
-	-	-	-	3,07E-03	3,71	0,02	-259,00



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Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 4 of 4)

Programme operator	ift Rosenheim GmbH Theodor-Gietl-Strasse 7-9 83026 Rosenheim		LCA analyst	Brands & values GmbH Karl-Ferdinand-Braun Str.2 28359 Bremen	
Holder of the declaration	LAMILUX Heinrich Strunz GmbH Zehstraße 2 D-95111 Rehau				

LCA results per m ² smoke lift S	Product stage	Construction process stage			Use stage			
		A1 – A3	A4	A5	B1	B2	B3	B4
Primary energy – non-renewable (PE _{n,renw}) in MJ		1.410,00	5,53	-	-	26,44	68,80	1.380,00
Primary energy – renewable (PE _{renw}) in MJ		285,00	0,33	-	-	0,21	1,15	49,60
Global warming potential (GWP 100) in kg CO ₂ equiv.		95,20	0,40	-	-	0,63	5,09	83,30
Ozone depletion potential (ODP) in kg R11 equiv.		9,50E-07	8,41E-12	-	-	6,34E-11	6,17E-08	2,07E-06
Acidification potential (AP) in kg SO ₂ equiv.		0,45	1,90E-03	-	-	2,07E-03	6,19E-03	0,15
Eutrophication potential (EP) in kg PO ₄ ³⁻ equiv.		0,02	4,62E-04	-	-	2,40E-04	1,42E-03	0,02
Photochemical ozone creation potential (POCP) in kg C ₂ H ₄ equiv.		0,03	-6,61E-04	-	-	2,45E-04	9,33E-04	0,02
Abiotic depletion potential (elements) (ADP _{el}) in kg Sb equiv.		8,48E-04	1,86E-08	-	-	1,03E-07	1,19E-03	2,51E-03
Abiotic depletion potential (fossil) (ADP _{fos}) in MJ		1.410,00	5,53	-	-	26,44	68,90	1.390,00
Water consumption in m ³		293,00	0,02	-	-	0,23	5,87	-222,00

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Prof. Ulrich Sieberath Director of Institute	Florian Stich Verifier

Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Continuous rooflight and smoke lift



Short version (Part 4 of 4)

Declaration code	EPD-LB-11.3
Designation of declared product	LAMILUX CI system continuous rooflight B, LAMILUX CI system smoke lift B, LAMILUX CI system continuous rooflight S, LAMILUX CI system smoke lift S
Scope	Daylight systems for increased daylight incidence and natural ventilation and extraction

Basis

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Notes on publication

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Use stage			End-of-life stage				Recycling potential
B5	B6	B7	C1	C2	C3	C4	
-	-	-	-	0,38	11,50	0,55	-832,00
-	-	-	-	0,02	0,59	0,03	-262,00
-	-	-	-	0,03	9,65	0,04	-69,70
-	-	-	-	5,71E-13	4,27E-08	1,90E-11	-1,89E-08
-	-	-	-	1,24E-04	4,20E-03	1,18E-04	-0,40
-	-	-	-	3,00E-05	1,95E-03	1,22E-04	-0,02
-	-	-	-	-4,27E-05	3,13E-04	1,90E-05	-0,02
-	-	-	-	1,26E-09	-2,47E-06	7,17E-09	-7,83E-04
-	-	-	-	0,38	11,4	0,55	-832,00
-	-	-	-	1,67E-03	3,55	0,02	-267,00



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Prefire Lamilux

Este documento no tiene valor acreditativo sino incluye los datos de la obra, y se adjunta el certificado de instalación de Prefire.



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