



**SHORT VERSION – ENVIRONMENTAL  
PRODUCT DECLARATION ACC. TO EN 15804**

LAMILUX Continuous Rooflight B | Smoke Lift Continuous Rooflight B  
Continuous Rooflight S | Smoke Lift Continuous Rooflight S



Programme operator and publisher  
ift Rosenheim GmbH

Created in cooperation with

brands & values®

# Environmental Product Declaration (EPD)

Short version

Declaration code: EPD-LB-GB-11.4



LAMILUX Heinrich  
Strunz GmbH

## Continuous Rooflights

Continuous Rooflight B, Smoke Lift Continuous Rooflight B, Continuous Rooflight S, Smoke Lift Continuous Rooflight S



**Basis:**

DIN EN ISO 14025  
EN15804

Company-EPD  
Environmental  
Product Declaration

date of issue:  
17.05.2019

next revision:  
17.05.2024



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

# Environmental Product Declaration (EPD)

Short version



Declaration code: EPD-LB-GB-11.4

<b>Programme operator</b>	ift Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim		
<b>Practitioner of the LCA</b>	brands & values GmbH Vagtstr. 48/49 28203 Bremen		
<b>Declaration holder</b>	LAMILUX Heinrich Strunz GmbH Zehstraße 2 95111 Rehau		
<b>Declaration code</b>	EPD-LB-GB-11.4		
<b>Designation of the declared product</b>	LAMILUX Continuous Rooflight B, Smoke Lift Continuous Rooflight B, Continuous Rooflight S, Smoke Lift Continuous Rooflight S		
<b>Scope</b>	Daylight systems for increased daylight incidence and natural ventilation and extraction.		
<b>Basis</b>	This company 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 II Umweltproduktdeklarationen" (General guideline for elaboration of Type III Environmental Product Declarations) applies. The Declaration is based on the PCR Documents PCR-A-0.1:2018 und „Fenster, Flachdachfenster, Lichtkuppeln und Lichtbänder“ (windows, flat roof windows, light domes and continuous rooflights) PCR-FE-2.1:2018.		
<b>Validity</b>	Publication date: 17.05.2019	Last revision: 17.05.2019	Next revision: 17.05.2024
	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.		
<b>LCA basis</b>	The LCA was prepared in accordance with EN ISO 14040 and DIN EN ISO 14044. The base data include both data collected the LAMILUX Heinrich Strunz GmbH production site and the generic data derived from the "GaBi 8.6 ts" database. LCA calculations were based on the "cradle to gate with options" life cycle including all upstream processes (e.g. raw materials extraction, etc.).		
<b>Notes on publication</b>	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	Dr.-Ing. Carolin Roth External Verifier

Note: Use the extended version of the EPD for further information.

## Short version

Results per m <sup>2</sup> Continuous Rooflight B (Part 1 of 4)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO <sub>2</sub> -equiv.	55,10	1,11	6,66	5,31E-02	16,10	4,54E-02	10,20	4,43E-02	-40,20
Depletion potential of stratospheric ozone layer	kg R11-equiv.	3,58E-08	2,34E-14	6,85E-14	2,06E-12	7,68E-08	1,13E-15	2,30E-08	1,02E-12	-1,39E-07
Acidification potential of soil and water	kg SO <sub>2</sub> -equiv.	0,22	4,66E-03	8,37E-04	1,15E-04	7,33E-02	2,35E-04	9,78E-03	1,15E-04	-0,16
Eutrophication potential	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	1,83E-02	1,19E-03	2,22E-04	1,98E-05	4,94E-03	6,02E-05	1,57E-03	1,02E-04	-9,78E-03
Formation potential of tropospheric ozone	kg C <sub>2</sub> H <sub>4</sub> -equiv.	1,56E-02	-1,79E-03	1,99E-04	1,49E-05	4,65E-03	-1,00E-04	3,45E-04	1,32E-05	-9,12E-03
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	5,02E-04	1,15E-07	8,63E-08	1,10E-08	1,49E-03	4,20E-09	6,81E-06	9,01E-09	-3,26E-04
Depletion of abiotic resources (ADP fossil fuels)	MJ	847,00	14,90	1,64	2,20	182,00	0,62	15,90	0,59	-453,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	148,00	1,01	109,00	3,34E-02	41,70	3,76E-02	3,70	4,52E-02	-157,00
Renewable primary energy for material use	MJ	109,00	0,00	-109,00	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	257,00	1,01	0,28	3,34E-02	41,70	3,76E-02	3,70	4,52E-02	-157,00
Non-renewable primary energy as energy source	MJ	842,00	14,90	1,79	2,22	216,00	0,62	155,00	0,61	-569,00
Non-renewable primary energy for material use	MJ	135,00	0,00	0,00	0,00	0,00	0,00	-135,00	0,00	0,00
Total use of non-renewable primary energy	MJ	977,00	14,90	1,79	2,22	216,00	0,62	20,00	0,61	-569,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-2,85
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m <sup>3</sup>	0,40	1,17E-03	1,46E-02	9,74E-05	0,11	5,68E-05	2,55	-3,16E-05	-0,35
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	1,35E-04	9,58E-07	2,78E-09	6,86E-04	3,61E-05	3,77E-08	9,85E-08	2,59E-09	-4,04E-07
Disposed non-hazardous waste	kg	8,25	1,11E-03	0,24	1,39E-03	3,06	4,96E-05	3,85	0,67	-8,19
Radioactive waste	kg	5,14E-02	1,80E-05	5,93E-05	8,39E-06	1,32E-02	8,07E-07	6,59E-04	8,67E-06	-4,54E-02
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	88,20	0,00	0,00	0,00	10,20	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	207,00	0,00	0,00	0,00	23,90	0,00	0,00



## Short version

Results per m <sup>2</sup> Continuous Rooflight S (Part 2 of 4)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO <sub>2</sub> -equiv.	82,30	1,39	6,96	7,21E-02	16,10	5,37E-02	12,70	5,01E-02	-65,00
Depletion potential of stratospheric ozone layer	kg R11-equiv.	5,51E-08	2,95E-14	7,15E-14	2,80E-12	7,68E-08	1,31E-15	3,12E-08	1,38E-12	-1,39E-07
Acidification potential of soil and water	kg SO <sub>2</sub> -equiv.	0,33	5,87E-03	8,74E-04	1,56E-04	7,33E-02	2,71E-04	5,20E-03	1,29E-04	-0,24
Eutrophication potential	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	2,55E-02	1,49E-03	2,32E-04	2,69E-05	4,94E-03	6,93E-05	1,82E-03	1,04E-04	-1,57E-02
Formation potential of tropospheric ozone	kg C <sub>2</sub> H <sub>4</sub> -equiv.	1,98E-02	-2,25E-03	2,08E-04	2,02E-05	4,65E-03	-1,14E-04	2,76E-04	1,49E-05	-1,42E-02
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	1,09E-03	1,45E-07	9,01E-08	1,49E-08	1,49E-03	5,05E-09	3,24E-06	1,01E-08	-3,30E-04
Depletion of abiotic resources (ADP fossil fuels)	MJ	1210,00	18,80	1,72	2,98	182,00	0,73	10,10	0,65	-730,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	275,00	1,27	84,00	4,53E-02	41,70	4,50E-02	1,64	5,02E-02	-258,00
Renewable primary energy for material use	MJ	83,70	0,00	-83,70	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	359,00	1,27	0,30	4,53E-02	41,70	4,50E-02	1,64	5,02E-02	-258,00
Non-renewable primary energy as energy source	MJ	1230,00	18,80	1,87	3,01	216,00	0,74	190,00	0,68	-918,00
Non-renewable primary energy for material use	MJ	176,00	0,00	0,00	0,00	0,00	0,00	-176,00	0,00	0,00
Total use of non-renewable primary energy	MJ	1410,00	18,80	1,87	3,01	216,00	0,74	14,00	0,68	-918,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	5,38
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m <sup>3</sup>	0,61	1,47E-03	1,53E-02	1,32E-04	0,11	6,60E-05	3,47	-4,25E-05	-0,56
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	2,14E-04	1,21E-06	2,91E-09	9,32E-04	3,61E-05	4,48E-08	1,20E-06	2,92E-09	-5,47E-07
Disposed non-hazardous waste	kg	13,70	1,40E-03	0,25	1,89E-0,3	3,06	5,82E-05	1,05	0,78	-13,60
Radioactive waste	kg	7,93E-02	2,27E-05	6,20E-05	1,14E-05	1,31E-02	9,46E-07	2,49E-04	9,63E-06	-7,38E-02
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	92,10	0,00	0,00	0,00	18,70	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	216,00	0,00	0,00	0,00	44,60	0,00	0,00

## Short version

Results per m <sup>2</sup> Smoke Lift Continuous Rooflight B (Part 3 of 4)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO <sub>2</sub> -equiv.	81,90	0,86	0,00	5,95E-02	16,10	2,25E-02	3,89	3,00E-02	-72,40
Depletion potential of stratospheric ozone layer	kg R11-equiv.	1,74E-07	1,81E-14	0,00	2,31E-12	7,68E-08	4,76E-16	2,57E-08	1,14E-12	-2,31E-07
Acidification potential of soil and water	kg SO <sub>2</sub> -equiv.	0,35	3,60E-03	0,00	1,28E-04	7,33E-02	9,09E-05	6,05E-03	7,57E-05	-0,33
Eutrophication potential	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	2,56E-02	9,16E-04	0,00	2,22E-05	4,94E-03	2,31E-05	1,46E-03	3,45E-05	-1,92E-02
Formation potential of tropospheric ozone	kg C <sub>2</sub> H <sub>4</sub> -equiv.	2,23E-02	-1,38E-03	0,00	1,67E-05	4,65E-03	-3,46E-05	1,39E-04	8,47E-06	-1,83E-02
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	2,91E-03	8,92E-08	0,00	1,23E-08	1,49E-03	2,35E-09	4,35E-06	5,77E-09	-2,75E-03
Depletion of abiotic resources (ADP fossil fuels)	MJ	947,00	11,50	0,00	2,46	182,00	0,30	10,60	0,37	-795,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	271,00	0,78	0,00	3,74E-02	41,70	2,05E-02	2,20	2,86E-02	-270,00
Renewable primary energy for material use	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	271,00	0,78	0,00	3,74E-02	41,70	2,05E-02	2,20	2,86E-02	-270,00
Non-renewable primary energy as energy source	MJ	1110,00	11,50	0,00	2,49	216,00	0,31	40,90	0,39	-981,00
Non-renewable primary energy for material use	MJ	26,70	0	0,00	0,00	0,00	0,00	-26,70	0,00	0,00
Total use of non-renewable primary energy	MJ	1140,00	11,50	0,00	2,49	216,00	0,31	14,20	0,39	-981,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	7,39
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m <sup>3</sup>	0,59	9,01E-04	0,00	1,09E-04	0,11	2,38E-05	2,85	-3,44E-05	-0,63
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	2,24E-04	7,40E-07	0,00	7,69E-04	3,61E-05	1,95E-08	1,39E-07	1,80E-09	-2,47E-05
Disposed non-hazardous waste	kg	14,30	8,61E-04	0,00	1,56E-03	3,06	2,27E-05	2,05	0,53	-19,40
Radioactive waste	kg	7,66E-02	1,39E-05	0,00	9,41E-06	1,31E-02	3,68E-07	3,42E-04	5,48E-06	-7,31E-02
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	3,21	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	7,62	0,00	0,00

## Short version

Results per m <sup>2</sup> Smoke Lift Continuous Rooflight S (Part 4 of 4)										
Environmental impacts	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Global warming potential	kg CO <sub>2</sub> -equiv.	84,70	1,06	0,00	7,39E-02	16,1	2,79E-02	10,60	4,95E-02	-68,60
Depletion potential of stratospheric ozone layer	kg R11-equiv.	9,24E-08	2,24E-14	0,00	2,87E-12	7,68E-08	5,91E-16	3,20E-08	1,42E-12	-1,39E-07
Acidification potential of soil and water	kg SO <sub>2</sub> -equiv.	0,32	4,47E-03	0,00	1,59E-04	7,33E-02	1,13E-04	5,02E-03	1,27E-04	-0,27
Eutrophication potential	kg PO <sub>4</sub> <sup>3-</sup> -equiv.	2,35E-02	1,14E-03	0,00	2,75E-05	4,94E-03	2,86E-05	1,83E-03	9,31E-05	-1,70E-02
Formation potential of tropospheric ozone	kg C <sub>2</sub> H <sub>4</sub> -equiv.	2,30E-02	-1,71E-03	0,00	2,07E-05	4,65E-03	-4,30E-05	2,79E-04	1,45E-05	-1,58E-02
Depletion of abiotic resources (ADP elements)	kg Sb-equiv.	8,07E-04	1,11E-07	0,00	1,53E-08	1,49E-03	2,92E-09	3,17E-06	9,87E-09	-8,14E-04
Depletion of abiotic resources (ADP fossil fuels)	MJ	1190,00	14,3	0,00	3,06	182,00	0,38	9,83	0,64	-761,00
Use of resources	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Renewable primary energy as energy source	MJ	246,00	0,97	0,00	4,64E-02	41,70	2,55E-02	1,38	4,93E-02	-263,00
Renewable primary energy for material use	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total use of renewable primary energy	MJ	246,00	0,97	0,00	4,64E-02	41,70	2,55E-02	1,38	4,93E-02	-263,00
Non-renewable primary energy as energy source	MJ	1210,00	14,30	0,00	3,09	216,00	0,38	174,00	0,66	-949,00
Non-renewable primary energy for material use	MJ	160,00	0,00	0,00	0,00	0,00	0,00	-160,00	0,00	0,00
Total use of non-renewable primary energy	MJ	1370,00	14,30	0,00	3,09	216,00	0,38	13,80	0,66	-949,00
Use of secondary materials	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	6,61
Renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Non-renewable secondary fuels	MJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Use of fresh water resources	m <sup>3</sup>	0,60	1,12E-03	0,00	1,35E-04	0,11	2,95E-05	3,55	-4,33E-05	-0,58
Waste categories and output material flows	unit	A1-A3	A4	A5	B2	B3	C2	C3	C4	D
Disposed hazardous waste	kg	2,02E-04	9,19E-07	0,00	9,54E-04	3,61E-05	2,42E-08	2,65E-06	2,92E-09	-6,64E-06
Disposed non-hazardous waste	kg	13,00	1,07E-03	0,00	1,93E-03	3,06	2,82E-05	1,02	0,79	-15,30
Radioactive waste	kg	7,17E-02	1,73E-05	0,00	1,17E-05	1,31E-02	4,56E-07	2,49E-04	9,45E-06	-7,38E-02
Components for further use	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for recycling	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Materials for energy recovery	kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Exported electrical energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	19,20	0,00	0,00
Exported thermal energy	MJ	0,00	0,00	0,00	0,00	0,00	0,00	46,90	0,00	0,00

## **Imprint**

### **Practitioner of the LCA**

brands & values GmbH  
Vagtstr. 48/49  
28203 Bremen

### **Programme operator**

ift Rosenheim GmbH  
Theodor-Gietl-Str. 7-9  
83026 Rosenheim  
Phone: 0 80 31/261-0  
Fax: 0 80 31/261 290  
E-Mail: [info@ift-rosenheim.de](mailto:info@ift-rosenheim.de)  
[www.ift-rosenheim.de](http://www.ift-rosenheim.de)

### **Declaration holder**

LAMILUX Heinrich Strunz GmbH  
Zehstraße 2  
95111 Rehau

### **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).

The publication and all of its parts are protected by copyright. Any utilisation outside the confined limits of the copyright provisions is not permitted without the consent of the publishers and is punishable. In particular, this applies to any form of reproduction, translations, storage on microfilm and the storage and processing in electronic systems.

### **Layout**

ift Rosenheim GmbH - 2018

### **Photographs (front page)**

LAMILUX Heinrich Strunz GmbH

© ift Rosenheim, 2019





ift Rosenheim GmbH  
Theodor-Gietl-Str. 7-9  
83026 Rosenheim  
phone: +49 (0) 80 31/261-0  
fax: +49 (0) 80 31/261-290  
email: [info@ift-rosenheim.de](mailto:info@ift-rosenheim.de)  
[www.ift-rosenheim.de](http://www.ift-rosenheim.de)