

Holder of the declaration: Lindner Group | Bahnhofstraße 29 | 94424 Arnstorf | Germany

Content of the declaration: Product information

Certification system DGNB Certification system LEED Certification system BREEAM Circular Economy







PRODUCT INFORMATION

Green Building Statement

We already think in closed loops while developing our products. In this context we act as one of the specialists within the range of sustainable building for many years. Supported by our internal technical department "Green Building", we ensure the sustainability target of your building projects.

Product description

Lindner GTB 10

The door leaf GTB 10 is an single glazed door. The door leaf thickness is 10 mm.

Application area

For the application inside of buildings, e.g. offices, conference rooms, industrial workspaces as well as rooms for training and research.

Base materials

Base materials per door leaf 1 m x 2,2 m with single glazing					
System components	Material	Weight proportions (%) for 32 dB			
Tempered/ laminated safety glass	Glass	~ 71			
Door frame	Aluminium	~ 28			
Gasket	EPDM	~1			
Screws	Steel	< 0,5			
Screws	Stainless Steel	< 0,5			
Clip-on	Plastic	< 0,5			

Material explanation

Glass

ESG, Tempered safety glass VSG, Laminated safety glass

Aluminium

Extruded aluminium profiles are coated (powder coated or anodized), cut and mounted as a frame with screws and corner connectors.





CERTIFICATION SYSTEM DGNB

Not listed characteristics do not apply to this product.



ENV 1.1 Life Cycle Assessment of the Building

An ecological balance sheet is available for the production facilities and it can be provided on demand. A project-specific EPD can be produced in accordance with the valid standards. Additional time and costs have to be considered.

ENV 1.2 Local Environment Impact

Components	Weight proportion (%)	VOC (%)	GISCODE / Emicode	Other
Tempered/ laminated safety glass				
Door frame			Giscode BS 10 not applicable for powder coating	without lead, mercury, cadmium and chrome (VI) compounds
Gasket				
Thin plate				
Screws				
Clip-on				
Total				

As a manufacturer, Lindner fulfils the obligations towards the EU chemical directive "REACH" and has created its own REACH declaration.

The aim of the **REACH** regulation (**Registration**, **Evaluation** and **A**uthorization of **Chemicals**) is to register materials produced and used in the EU and to determine and record their impact on health and environment.

ENV 1.3 Responsible Procurement

The product GTB 10 does not contain any timber, timber-based products or timber-based components.



ECO 1.1 Life Cycle Costs

Door leaves can be expected to remain durable for up to 50 years (acc. to BBSR table, code no. 344.111 to 344.311, state 11/2011, published by the Federal Institute for Research on Building, Urban Affairs and Spatial Development).



SOC 1.2 Indoor Air Quality

Products of the Linder company are fabricated with materials of low emission like VOC or formaldehyde.

SOC 1.3 Acoustic Comfort

The Lindner GTB 10 single door leaf can be designed with a valued sound insulation of 32 dB according to DIN EN ISO 140-03.

SOC 1.4 Visual Comfort

The Lindner GTB 10 consists mostly of glass. Therefore, daylight from the facades can reach the corridor.







TEC 1.2 Sound Insulation

The Lindner GTB 10 single door leaf can be designed with a valued sound insulation of 32 dB according to DIN EN ISO 140-03.

TEC 1.6 Deconstruction and Disassembly

The door leaves and frames can be dismantled and reutilized. Lindner system product are designed to allow assembly o site with almost no rubbish. Certain rubbish can not be avoided on site, but will principally be recycled by specialised companies.



PRO 1.1 Comprehensive Project Brief

The system was developed by experienced in-house engineers and experts. It was continuously improved with the experience of several completed projects. Both guarantee a strong basis.

PRO 1.5 Documentation for Facility Management

Customary user, maintenance and care instructions are available.

PRO 2.1 Environmental Impact of Construction

The compliance with project-related requirements regarding a low-waste, low-noise and low-dust construction site as well as all measures regarding soil and ground water protection are ensured by specialised in-house departments. An appropriate verification can be produced and implemented on request by specialized personnel.

PRO 2.2 Construction Quality Assurance

All documents relevant for project documentation can be provided.





CERTIFICATION SYSTEM LEED

Not listed credits do not apply for this product.



Construction Activity Pollution Prevention

The compliance with project-related requirements of an ESC plan is ensured by specialised in-house departments. A complete ESC plan can be produced and implemented on request by specialised personnel.



Materials and Resources

Construction and Demolition Waste Management Planning

Waste that cannot be avoided on site will be preferentially returned to recycling processes via waste management companies. A complete CWM plan can be issued and implemented by the specialists on request.

Building Life Cycle Impact Reduction

Due to the long-life cycle of GTB 10 Lindner guarantees a reuse of products over the whole useful life (Circular Economy). A specific life-cycle assessment may be provided if required.

Building Product Disclosure and Optimization – Sourcing of Raw Materials

Components for double glazed door leaf with 36 dB	Weight proportion (%)	Recycling content (%)		Regionality
		Pre-Consumer	Post-Consumer	Production location
Tempered/ laminated safety glass	~ 74 %	20 %	5 %	Arnstorf
Door frame	~ 24 %	0 %	30 %	Arnstorf
Gasket	~ 1 %	0 %	0 %	Arnstorf
Screws	< 0,5 %	0 %	0 %	Arnstorf
Clip-on	< 0,5 %	0 %	0 %	Arnstorf
Total	100 %	~ 18.3 %	1	

Building Product Disclosure and Optimization – Material Ingredients

As manufacturer of products Lindner fulfils the obligations towards the EU chemical directive "REACH" and created its own REACH declaration.

The aim of the **REACH** regulation (**Registration**, **Evaluation** and **Authorization** of **CH**emicals) is to capture materials produced and used in the EU and to determine and record their impact on health and environment.

Construction and Demolition Waste Management

The scope of delivery only contain panels which are ready for installation and do not have to be processed on site. Therefore, the product contributes to a noise- and dust-free construction site.

Lindner system products have been designed to minimize processing waste during their installation. Waste that cannot be avoided on site is preferentially put into recycling processes by means of waste management facilities.







Daylight

The Lindner GTB 10 consists mostly of glass. Therefore, daylight from the facades can reach the corridor.

Minimum Acoustic Performance

The Lindner GTB 10 single door leaf can be designed with a valued sound insulation of 32 dB according to DIN EN ISO 140-03 and insulates the rooms of incoming sound.

Low Emitting Materials

Lindner door systems are made from materials that show almost no emissions of e.g. VOC and formaldehyde.

Construction Indoor Air Quality Management Plan

The compliance with project-related requirements of an IAQ plan is ensured by specialised in-house departments. A complete IAQ plan can be produced and implemented on request by specialised personnel.

Indoor Air Quality Assessment

Lindner door systems are made from materials that show almost no emissions of e.g. VOC and formaldehyde.

Acoustic Performance

The Lindner GTB 10 single door leaf can be designed with a valued sound insulation of 32 dB according to DIN EN ISO 140-03 and insulates the rooms of incoming sound.



BREEAM®

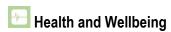
CERTIFICATION SYSTEM BREEAM

Not listed characteristics do not apply for this product.



Man 03 Responsible construction practices

All companies pf the Lindner Group meet the requirements of an environmental management system. For ISO 14001, ISO 50001, SCC ** and OHSAS certified companies within the Lindner Group, additional specific environmental and safety objectives are defined in conjunction with the annual management review. The implementation of environmental protection and the relevant legal regulations are defined in the Lindner internal guideline "Environmental Protection".



Hea 01 Visual comfort

The Lindner GTB 10 consists mostly of glass. Therefore, daylight from the facades can reach the corridor.

Hea 02 Indoor air quality

Products made by Lindner consist of low-emitting materials e. g. with respect to VOC or formaldehyde.

Hea 05 Acoustic performance

The Lindner GTB 10 single door leaf can be designed with a valued sound insulation of 32 dB according to DIN EN ISO 140-03 and insulates the rooms of incoming sound.

Hea 18 Volatile organic compounds (In-Use only)

Products made by Lindner consist of low-emitting materials e. g. with respect to VOC or formaldehyde.



Mat 01 Life cycle impacts

Material evidences and reports may be provided. A project-specific EPD can be produced in accordance with the valid standards. Additional time and costs have to be considered.

Mat 03 Responsible sourcing of construction products

Lindner door systems are made from materials with a high recycling content. Local suppliers are preferred. The company Lindner is certified according to the environmental management system according to DIN EN ISO 14001.

Mat 06 Material efficiency

Lindner system products have been designed to minimize processing waste during their installation. Waste that cannot be avoided on site is preferentially put into recycling processes by means of waste management facilities.





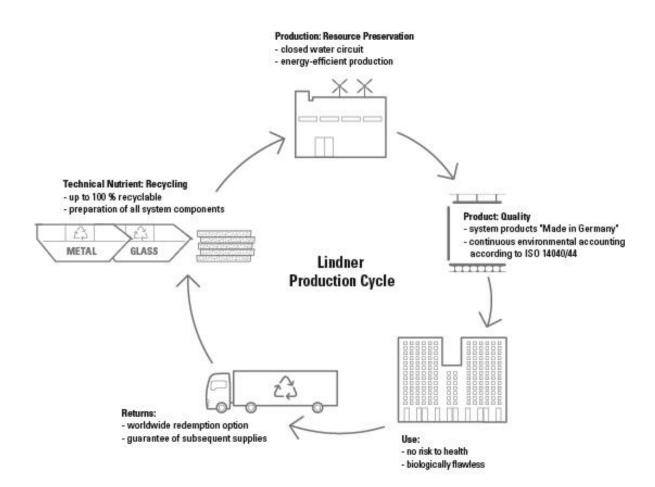
CIRCULAR ECONOMY



General Information

Due to the transfer of the Circular Economy thoughts we avoid waste, toxic substances and pollution. The 100 % technical cycle we are striving for, allows a separation of types and nearly a whole reuse of all materials. Environmental aspects already play a primary role when choosing our suppliers. Responsibility towards people and environment is as important for Lindner as the quality of the products. Due to this reason an environmental management system according to DIN EN ISO 14001 is established and mostly certified through the whole Lindner Group.

- + Protection of prospective generations and eco systems through care of natural resources
- + Security by choosing high-quality and contaminant-free materials
- + Health as supreme asset of humans
- + Safe environment for all building occupants







Material Health



The parts of the Lindner GTB 10 have to be secure and highly compatible for health and environment. Lindner develops systems which are environmentally friendly and also healthy for humans, from the production up to the usage and reuse.

We do know the chemical substances of all materials and run an ongoing process to develop safer products. To meet all criteria according to sustainability and human health, system components were modified and also replaced.



Material Reutilization

The Lindner GTB 10 is a product which can be recycled or further recovered.

Therefore, complete components can be reused or new created, after transferring to recycling processes.



Renewable Energy

Through eco-management certification and our in-house environmental accounting, the whole Lindner Group campaigns for a reduction of the ecological footprint of their own production processes by using less energy.

The share of renewable energy is currently around 37 %.

Increasing the share of renewable energy in our production sites is an ongoing process. The reduction of energy within the production sites is our main goal.



Water Stewardship

The concept of water circulation reduces our water consumption systematically.

Due to sedimentation and cleaning of the solid matter, the process water can be pursued in a closed loop, so the fresh water consumption is reduced to a minimum.



Social Fairness

The most important corporate principle is the focus on the individual employee. For this reason the compliance rules "Our Values" for employees were defined. The Lindner Group supports a number of social projects, which are distributed in regional and nationwide areas. Therefore, the charitable "Hans Lindner Stiftung" was founded in 1991.

As a responsible manufacturer, Lindner is certified in accordance to the international environmental management standard ISO 14001. This standard supports our further development of managing scarce resources and the environment in general.