

# Product Verification

## Sustainability

Self declared according to DGNB Neubau 2018

### Product Systems

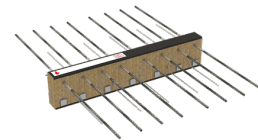
#### EGCOBOX - MM30-VS-C35-h200-REI120-SW

##### Max Frank GmbH & Co. KG

The Max Frank Egccobox® is a load-bearing thermal insulating element for thermal separation of reinforced concrete structural members. The Max Frank Egccobox® consists of an 80 mm thick thermal insulation layer of rock wool (SW) and serves to reduce thermal bridges. Statically, the Egccobox® is determined by a truss model consisting of tension / compression and shear force bars (B500 NR or welded with B500 B).

The Egccobox® is available in different load-bearing levels. These depend on the load and vary in the number and diameter of the reinforcing bars.

<https://www.maxfrank.com/intl-de/produkte/bewehrungstechnik/o4-kragplattenanschluss-egccobox/>



## Product Assessment

### Environmental Quality (ENV)

Criteria	Product Verification
ENV 1.1 Building life cycle assessment (Updated on: 16.07.2018)	EPD available: No
ENV 1.2 Local environmental impact (Updated on: 05.01.2022)	Quality level 4 of 4
ENV1.3.1 Responsibly sourced raw materials	quality level 0 of 3
ENV1.3.2 Secondary raw materials	quality level 0 of 2

Legend: yes = Product contributes toward satisfying the credit, N/A = Product not relevant in the credit, no = Credit requirements are not proven

## Summary

### The product contributes to the certification:

- The product has an Environmental Product Declaration (EPD) which can be used to calculate the building life cycle assessment: EPD available: No
- Achieved quality level in DGNB 2018 Criteria ENV 1.2 Local environmental impact for the entire product: Quality level 4 of 4
- The product achieves the following quality level in criterion ENV1.3.1 (Responsibly sourced raw materials). quality level 0 of 3
- The product achieves the following quality level in criterion ENV1.3.2 (Secondary raw materials). quality level 0 of 2

## Product Properties

### Ingredients:

SVHC according REACH < 0,1 %: Yes

### Manufacturer:

Are reverse logistics in place for the product? No

Environmental Management System according ISO 14001: No

### Emissions:

Formaldehyde emissions after 28 days according DIN EN 717-1: 0 mg/m<sup>3</sup>

## ■ Product Components

Name	Amount	Material type / Function	DfD	Total Weight	Specific Weight	Portion (%)
tensile bars / compression elements / Shear force bars / fixing bars	8.570		No	8.570	1 kg / kg	72.20 %
Insulation material - rock wool	2.900		No	2.900	1 kg / kg	24.43 %
PE-Covers	0.240		No	0.240	1 kg / kg	2.02 %
Hotmelt adhesive	0.160		No	0.160	1 kg / kg	1.35 %

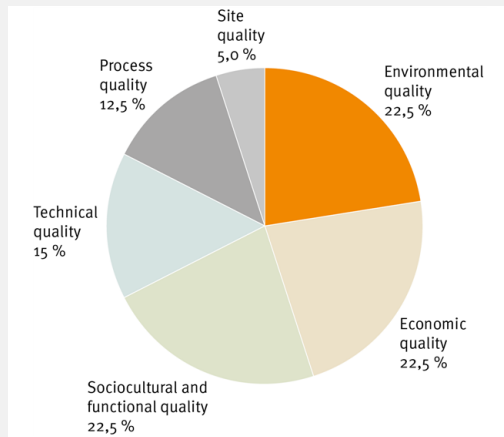
## System description

The DGNB certification system was founded by the "German Sustainable Building Council" and first appeared on the market in 2008. The DGNB system evaluates buildings holistically on the basis of individual criteria within the categories Ecological Quality, Economic Quality, Sociocultural and Functional Quality, Technical Quality, Process Quality and Location Quality. Different profiles allow the certification of new buildings and existing buildings, as well as of quarters in Germany and Internationally. Buildings can achieve a certification in Bronze, Silver, Gold and Platinum. Up to now, more than 3,500 projects have been awarded by the DGNB (as of June 2018).

Source: [www.dgnb.de](http://www.dgnb.de)

## System categories

### Category Weighting



Source: DGNB 2018

### Category

### Category considered in product verification

Environmental quality (ENV)	Yes
Economic quality (ECO)	No
Sociocultural and functional quality (SOC)	No
Technical quality (TEC)	No
Process quality (PRO)	Yes
Site quality (SITE)	No

# Detailed Verification

Self declared according to DGNB Neubau 2018

## ■ Environmental Quality (ENV)

### ■ ENV 1.1 LBuilding life cycle assessment (Updated on: 16.07.2018)

The product has an Environmental Product Declaration (EPD) which can be used to calculate the building life cycle assessment:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	EPD available: No
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An environmental product declaration exists for the product:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No
tensile bars / compression elements / Shear force bars / fixing bars	No
Insulation material - rock wool	Yes
PE-Covers	No
Hotmelt adhesive	No

EPD Owner of the Declaration:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	DEUTSCHE ROCKWOOL GmbH & Co. KG
PE-Covers	No Information
Hotmelt adhesive	No Information

EPD Publisher:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	Institut Bauen und Umwelt e.V. (IBU)
PE-Covers	No Information
Hotmelt adhesive	No Information

**EPD Programme holder:**

<b>EGCOBOX - MM30-VS-C35-h200-REI120-SW</b>	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	Institut Bauen und Umwelt e.V. (IBU)
PE-Covers	No Information
Hotmelt adhesive	No Information

**EPD Declaration number:**

<b>EGCOBOX - MM30-VS-C35-h200-REI120-SW</b>	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	EPD-DRW-20180119-IBC1-DE
PE-Covers	No Information
Hotmelt adhesive	No Information

**EPD Issue date:**

<b>EGCOBOX - MM30-VS-C35-h200-REI120-SW</b>	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	27.08.2018
PE-Covers	No Information
Hotmelt adhesive	No Information

**EPD valid to:**

<b>EGCOBOX - MM30-VS-C35-h200-REI120-SW</b>	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	26.08.2023
PE-Covers	No Information
Hotmelt adhesive	No Information

**■ ENV 1.2 Local environmental impact (Updated on: 05.01.2022)**
**Achieved quality level in DGNB 2018 Criteria ENV 1.2 Local environmental impact for the entire product:**

<b>EGCOBOX - MM30-VS-C35-h200-REI120-SW</b>	Quality level 4 of 4
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**Achieved quality level in DGNB 2018 Criterion ENV 1.2 Local environmental impact:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Quality level 4
tensile bars / compression elements / Shear force bars / fixing bars	Quality level 4
Insulation material - rock wool	Quality level 4
PE-Covers	Quality level 4
Hotmelt adhesive	Quality level 4

**Row 40: Plastic foam insulating materials for buildings and building services - Resole plates.**
**Achieved quality level in DGNB 2018 ENV 1.2 Row 40 for the entire product:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Quality level 4
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**Achieved quality level in DGNB 2018 ENV 1.2 Row 40:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	Quality level 4
PE-Covers	No Information
Hotmelt adhesive	No Information

**Insulating materials - plastic foam insulation such as Resol Plates (DGNB ENV1.2 Row 40):**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	Yes
PE-Covers	No Information
Hotmelt adhesive	No Information

**Free from halogenated propellants:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	No Information
Insulation material - rock wool	Yes
PE-Covers	No Information
Hotmelt adhesive	No Information

The product does not fall under any of the above listed product groups according to DGNB 2018 ENV 1.2

The entire product does not fall under a DGNB 2018 requirement in ENV 1.2 Local environmental impact. The product helps to achieve the following quality level:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	4
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The product does not fall under a DGNB 2018 requirement in ENV 1.2 Local environmental impact. The product helps to achieve the following quality level:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Quality level 4
tensile bars / compression elements / Shear force bars / fixing bars	Quality level 4
Insulation material - rock wool	No Information
PE-Covers	Quality level 4
Hotmelt adhesive	Quality level 4

The product does not fall under any of the above listed product groups according to DGNB 2018 ENV 1.2 or the relevant product group is evaluated on the components:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	No Information
PE-Covers	Yes
Hotmelt adhesive	Yes

#### ■ ENV1.3.1 Responsibly sourced raw materials

The product achieves the following quality level in criterion ENV1.3.1 (Responsibly sourced raw materials).

EGCOBOX - MM30-VS-C35-h200-REI120-SW	quality level 0 of 3
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The raw materials for the production of the product were extracted, mined or manufactured free of child and forced labor.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

For the raw materials used for the production of the product, illegal raw material mining / manufacturing can be excluded.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes



Material extraction and further processing takes place entirely in Europe.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

The product meets the requirements of quality level 1:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	quality level 0 of 1
tensile bars / compression elements / Shear force bars / fixing bars	quality level 0 of 1
Insulation material - rock wool	quality level 0 of 1
PE-Covers	quality level 0 of 1
Hotmelt adhesive	quality level 0 of 1

The manufacturer takes responsibility for responsible and transparent resource extraction and can demonstrate this through CSR reports and proof of origin of the raw materials.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No
tensile bars / compression elements / Shear force bars / fixing bars	No
Insulation material - rock wool	No
PE-Covers	No
Hotmelt adhesive	No

### ■ ENV1.3.2 Secondary raw materials

The product achieves the following quality level in criterion ENV1.3.2 (Secondary raw materials).

EGCOBOX - MM30-VS-C35-h200-REI120-SW	quality level 0 of 2
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The raw materials for the production of the product were extracted, mined or manufactured free of child and forced labor.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

For the raw materials used for the production of the product, illegal raw material mining / manufacturing can be excluded.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

Material extraction and further processing takes place entirely in Europe.

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

#### metal

The metal fraction in the product is obtained from secondary raw materials of the following quality level:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
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The product is mainly made of metal

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No
tensile bars / compression elements / Shear force bars / fixing bars	Yes
Insulation material - rock wool	No
PE-Covers	No
Hotmelt adhesive	No

Metal content in the product

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	100 %
Insulation material - rock wool	No Information
PE-Covers	No Information
Hotmelt adhesive	No Information

**Proportion of secondary material in the metal (Recycled Content)**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	85 %
Insulation material - rock wool	No Information
PE-Covers	No Information
Hotmelt adhesive	No Information

**othermaterials**

The product meets the quality level in the category of other material groups:

EGCOBOX - MM30-VS-C35-h200-REI120-SW	0 of 1
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**The product does not consist of any of these materials**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	Yes
tensile bars / compression elements / Shear force bars / fixing bars	No
Insulation material - rock wool	Yes
PE-Covers	Yes
Hotmelt adhesive	Yes

**Recycled content pre-consumer:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	46.5 wt%
Insulation material - rock wool	24.6 wt%
PE-Covers	0 wt%
Hotmelt adhesive	0 wt%

**Recycled content post-consumer:**

EGCOBOX - MM30-VS-C35-h200-REI120-SW	No Information
tensile bars / compression elements / Shear force bars / fixing bars	85 wt%
Insulation material - rock wool	0.1 wt%
PE-Covers	25 wt%
Hotmelt adhesive	0 wt%

## ■ Contact Details Manufacturer

### Max Frank GmbH & Co. KG

Mitterweg 1  
94339 Leiblfing  
DE  
<http://www.maxfrank.de/>



## ■ Disclaimer

This verification is the evaluation and ranking of products in terms of the certification system DGNB 2018 (New construction building). The DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the DGNB criteria. Notice: This verification is generated by the Assessment Service of BMS. The distribution or publication by third parties is not permitted. The data sheet is not a DGNB certification document. The information is based on the manufacturer's specifications. Despite a diligent treatment of all information BMS can not make any warranties about the completeness, reliability and accuracy of this information. The requirements of DGNB can be interpreted differently and depend on the project and scope of application. Therefore, BMS cannot accept any liability for the evaluation in terms of the DGNB criteria. The user of the data sheet, the user / purchaser of the product and the consultant / planner, who is advising on this product has the duty to check the product for the intended application at their own responsibility. When a new version of this product verification is produced, the previous version loses its validity.