

# **Product Verification**

# Sustainability

Self declared according to LEED Building Design and Construction V4 (2015)

#### Product Systems

#### Permanent formwork Pecafil® VR6

# Max Frank GmbH & Co. KG

Pecafil® formwork elements can be used universally for many purposes, above all as formwork for foundations and ribbed slabs as well as sheeting for building pits. It is also suitable in the transparent version for weather, dust and protection screens. The material is available in different thicknesses. Thanks to its light weight it is easy to carry and install. The units can be shortened and adapted on the building site using simple tools. Pecafil® can also be supplied as preformed sections. Pecafil® permanent formwork is environmentally friendly, groundwater-neutral and recyclable.







#### Product Assessment

#### Materials and Resources

| Criteria  | Product Verification        |
|---|-----------------------------|
| MR Credit Life-Cycle Impact Reduction - Option 4: Whole-Building Life-Cycle<br>Assessment           | EPD available: No           |
| MR Credit BPDO - Environmental Product Declaration - Option 1:<br>Environmental Product Declaration | o % weighted value          |
| MR Credit BPDO - Environmental Product Declaration - Option 2: Multi-<br>Attribute Optimization     | o % weighted value          |
| MR Credit BPDO - Sourcing of Raw Materials - Option 1: Raw Material Source and Extraction Reporting | o % weighted value          |
| MR Credit BPDO - Sourcing of Raw Materials - Option 2: Leadership Extraction<br>Practices           | 167.828985 % weighted value |
| MR Credit BPDO - Material Ingredients - Option 1: Material Ingredient<br>Reporting                  | o % weighted value          |
| MR Credit BPDO - Material Ingredients - Option 2: Material Ingredient<br>Optimization               | 100 % weighted value        |
| MR Credit BPDO - Material Ingredients - Option 3: Product Manufacturer<br>Supply Chain Optimization | o % weighted value          |
| Location Valuation Factor   | No                          |

#### Indoor Environmental Quality

| Criteria   | Product Verification |
|--|----------------------|
| EQ Credit Low-Emitting Materials (except Healthcare and Schools) | N/A                  |

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 under LEED MR Building Life-Cycle Impact Redcutions Option 4: Whole-Building Life-Cycle Assessment: EPD available: No
- Weighted Product Value on Credit BPDO Environmental Product Declaration Option 1: Environmental Product Declaration: o % weighted value



- Weighted Product Value on Credit BPDO Environmental Product Declaration Option 2: Multi-Attribute Optimization: o % weighted value
- Weighted Product Value on Credit BPDO Sourcing of Raw Materials Option 1: Raw Material Source and Extraction Reporting: o % weighted value
- Weighted Product Value on Credit BPDO Sourcing of Raw Materials Option 2: Leadership Extraction Practices: 167.828985 % weighted value
- Weighted Product Value on Credit BPDO Material Ingredients Option 1: Material Ingredient Reporting: o % weighted value
- Weighted Product Value on Credit BPDO Material Ingredients Option 2: Material Ingredient Optimization: 100 % weighted value
- Weighted Product Value on Credit BPDO Material Ingredients Option 3: Supply Chain Optimization: o % weighted value
- Information for Location Valuation Factor is available: No

#### Product Properties

#### Ingredients:

| Reused content  | 92.86 wt% |
|---|-----------|
| VOC content according 2004/42/EG:   | N/A       |
| VOC content according 2004/42/EG:   | N/A       |
| Recycled content pre-consumer:  | 20.74 Wt% |
| Recycled content post-consumer:   | 72.12 Wt% |
| Percentage of the product's composition, that is known to the chemical ingredient level | N/A       |
| To what level of detail is the product composition known?                               | N/A       |
| Rapidly renewable content   | 95,55 wt% |
| Non renewable virgin raw material content   | 4,45 wt%  |
| SVHC according REACH < 0,1 %:   | Yes       |
| Free (< 0,1 %) of biocidal:   | Yes       |
| Free (< 0,1 %) of chlorinated paraffins (= CP inkl. SCCP,<br>MCCP, LCCP):               | Yes       |
| Free (< 0,1 %) of polybrominated diphenyl ethers (= PBDE):                              | Yes       |
| Free (< 0,1 %) of polybrominated biphenyls (= PBB):                                     | Yes       |
| Free (< 0,1 %) of hexabromocyclododecane (= HBCD):                                      | Yes       |
| Free (< 0,1 %) of tris (2-carboxyethyl) phosphine (= TCEP):                             | Yes       |
| Free (< 0,1 %) of lead:   | Yes       |
| Free (< 0,1 %) of cadmium:  | Yes       |
| Free (< 0,1 %) of chromium-VI compounds:  | Yes       |



| Free of solvent according to VdL-RLo1:          | Yes |
|---|-----|
| Free (< 0,1 %) of aromatic compounds:           | Yes |
| Free (< 0,1 %) from halogenated propellants:    | Yes |
| Free (< 0,1 %) of tin:                          | Yes |
| Free (< 0,1 %) of halogenated flame retardants: | Yes |
| Content of VOC:                                 | N/A |
| Content of solvents:                            | N/A |
| Free (< 0,1 %) of halogens:                     | Yes |

# Manufacturer:

| Are reverse logistics in place for the product?        | No  |
|--|-----|
| Environmental Management System according ISO 14001:   | Yes |
| Final manufacturing location of the product: latitude  | N/A |
| Final manufacturing location of the product: longitude | N/A |

# Emissions:

| Formaldehyde emissions after 28 days according DIN EN 717-1:    | N/A |
|---|-----|
| R-Value according to AgBB:                                      | N/A |
| TVOC after 3 days according ISO 16000-3 / AgBB:                 | N/A |
| TVOC after 28 days according ISO 16000-3 / AgBB:                | N/A |
| SVOC after 3 days according ISO 16000-3 / AgBB:                 | N/A |
| SVOC after 28 days according ISO 16000-3 / AgBB:                | N/A |
| Carcinogens 1A and 1B after 3 days according ISO-16000 / AgBB:  | N/A |
| Carcinogens 1A and 1B after 28 days according ISO-16000 / AgBB: | N/A |

# Life Cycle Assessment:

| Functional use period | 100 a |
|-----------------------|-------|
|-----------------------|-------|

# Circularity:

| Has the product been designed for reuse, refurbishment or remanufacturing? | No  |
|--|-----|
| Is the product designed for a recycling of equal quality?                  | Yes |
| Was the product designed for clean incineration?                           | No  |
| Product was designed with cycling in mind.                                 | No  |



| Was the Product designed for emission or direct dispersal?             | No |
|--|----|
| Was the product specifically designed for clean and rapid disassembly? | No |

# Other:

test

N/A

# Product Components

| Name             | Amount , | Material type<br>/ Function | DfD | Total Weight | Specific Weight | Portion (%) |
|------------------|----------|-----------------------------|-----|--------------|-----------------|-------------|
| polyethylen foil | 1.000    | LDPE                        | No  | 0.111        | o kg / m²       | 5.49 %      |
|                  | 1.000    | LDPE                        | No  | 0.111        | o kg / m²       | 5.50 %      |
|                  | 1.000    | B500A+(G)                   | No  | 1.800        | 2 kg / m²       | 89.01 %     |

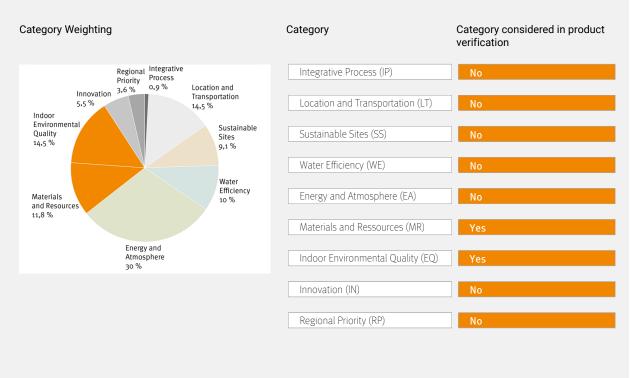


#### System description

This verification is the evaluation and ranking of products in terms of the certification system LEED version 4 (Building Design and Construction). The USGBC (U.S. Green Building Council) generally does not certify products. Therefore the project team or the manufacturer is responsible to declare compliance with respect to the LEED 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 LEED 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 LEED 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 LEED 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.

Source: www.usgbc.org

#### System categories



Source: LEED v4 - New Construction



# **Detailed Verification**

Self declared according to LEED Building Design and Construction V4 (2015)

# Materials and Resources

#### MR Credit Life-Cycle Impact Reduction - Option 4: Whole-Building Life-Cycle Assessment

The product has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment under LEED MR Building Life-Cycle Impact Redcutions - Option 4: Whole-Building Life-Cycle Assessment:

| Permanent formwork Pecafil® VR6 | EPD available: No |
|---------------------------------|-------------------|
|                                 |                   |

#### An environmental product declaration exists for the product:

| Permanent formwork Pecafil® VR6 | No  |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

#### EPD Owner of the Declaration:

| Permanent formwork Pecafil® VR6 | No Information      |
|---------------------------------|---------------------|
| polyethylen foil                | No Information      |
| Flachfolien aus Polyethylene    | No Information      |
| Betonstahl/ Betonstabstahl VR6  | Baustahlgewebe GmbH |

#### EPD Publisher:

| Permanent formwork Pecafil® VR6 | No Information                            |
|---------------------------------|---|
| polyethylen foil                | No Information                            |
| Flachfolien aus Polyethylene    | No Information                            |
| Betonstahl/ Betonstabstahl VR6  | Institut für Bauen und Umwelt e. V. (IBU) |

## EPD Programme holder:

| Permanent formwork Pecafil® VR6 | No Information                            |
|---------------------------------|---|
| polyethylen foil                | No Information                            |
| Flachfolien aus Polyethylene    | No Information                            |
| Betonstahl/ Betonstabstahl VR6  | Institut für Bauen und Umwelt e. V. (IBU) |



#### EPD Declaration number:

| Permanent formwork Pecafil® VR6 | No Information           |
|---------------------------------|--------------------------|
| polyethylen foil                | No Information           |
| Flachfolien aus Polyethylene    | No Information           |
| Betonstahl/ Betonstabstahl VR6  | EPD-BSW-20210265-CBA1-DE |

#### EPD Issue date:

| Permanent formwork Pecafil® VR6 | No Information |
|---------------------------------|----------------|
| polyethylen foil                | No Information |
| Flachfolien aus Polyethylene    | No Information |
| Betonstahl/ Betonstabstahl VR6  | 02.03.2022     |

# EPD valid to:

| Permanent formwork Pecafil® VR6 | No Information |
|---------------------------------|----------------|
| polyethylen foil                | No Information |
| Flachfolien aus Polyethylene    | No Information |
| Betonstahl/ Betonstabstahl VR6  | 01.03.2027     |

#### MR Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration

# Weighted Product Value on Credit BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration:

| Permanent formwork Pecafil® VR6 | 0 % weighted value |
|---------------------------------|--------------------|
|---------------------------------|--------------------|

#### An environmental product declaration exists for the product:

| Permanent formwork Pecafil® VR6 | No  |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

#### EPD Type:

| Permanent formwork Pecafil® VR6 | No Information   |
|---------------------------------|--|
| polyethylen foil                | No Information   |
| Flachfolien aus Polyethylene    | No Information   |
| Betonstahl/ Betonstabstahl VR6  | Product-specific EPD (Type III) conform to ISO<br>14025, 14040, 14044, and EN 15804 or ISO 21930 |



# MR Credit BPDO - Environmental Product Declaration - Option 2: Multi-Attribute Optimization

# Weighted Product Value on Credit BPDO - Environmental Product Declaration - Option 2: Multi-Attribute Optimization:

| Permanent formwork Pecafil® VR6 | 0 % weighted value |
|---------------------------------|--------------------|

#### An environmental product declaration exists for the product:

| Permanent formwork Pecafil® VR6 | No  |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

# Third party certified products that demonstrate impact reduction below industry average in at least three of the LCA-Categories GWP, ODP, AP, EP, POCP and ADPF:

| Permanent formwork Pecafil® VR6 | No Information |
|---------------------------------|----------------|
| polyethylen foil                | No Information |
| Flachfolien aus Polyethylene    | No Information |
| Betonstahl/ Betonstabstahl VR6  | No             |

# MR Credit BPDO - Sourcing of Raw Materials - Option 1: Raw Material Source and Extraction Reporting

# Weighted Product Value on Credit BPDO - Sourcing of Raw Materials - Option 1: Raw Material Source and Extraction Reporting:

| Permanent formwork Pecafil® VR6 | 0 % weighted value |
|---------------------------------|--------------------|
|---------------------------------|--------------------|

#### There is a corporate sustainability reports (CSR) report from the manufacturer:

| Permanent formwork Pecafil® VR6 | No  |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

#### CSR-Report according:

| Permanent formwork Pecafil® VR6 | No Information       |
|---------------------------------|----------------------|
| polyethylen foil                | No Information       |
| Flachfolien aus Polyethylene    | No Information       |
| Betonstahl/ Betonstabstahl VR6  | Self-declared report |



#### MR Credit BPDO - Sourcing of Raw Materials - Option 2: Leadership Extraction Practices

| Permanent formwork Pecafil® VR6  | 167.828985 % weighted value                         |
|--|---|
| Extended producer responsibility   |   |
| Content of materials for a closed-loop recycling or t  | ake-back programm in the entire product:            |
| Permanent formwork Pecafil® VR6  | 0 %   |
| Bio-based materials  |   |
| Content of SAN-certified bio-based materials in the  | entire product:                                     |
| Permanent formwork Pecafil® VR6  | 0 %   |
| Permanent formwork Pecafil® VR6  | 0 %   |
| Permanent formwork Pecafil® VR6  | . 0 %   |
| Materials reuse  |   |
|  |   |
| Content of salvaged, refurbished, or reused product  | s or materials in the entire product:               |
| Content of salvaged, refurbished, or reused product<br>Permanent formwork Pecafil® VR6   | s or materials in the entire product:<br>87.54165 % |
| Permanent formwork Pecafil® VR6  | 87.54165 %  |
| Permanent formwork Pecafil® VR6  | 87.54165 %  |
| Permanent formwork Pecafil® VR6<br>The product is made of salvaged, refurbished, or reu  | 87.54165 %<br>used products:                        |
| Permanent formwork Pecafil® VR6<br>The product is made of salvaged, refurbished, or reu<br>Permanent formwork Pecafil® VR6                     | 87.54165 %<br>used products:<br>Yes                 |
| Permanent formwork Pecafil® VR6<br>The product is made of salvaged, refurbished, or reu<br>Permanent formwork Pecafil® VR6<br>polyethylen foil | 87.54165 %   used products:   Yes   Yes             |

Do you want to enter the content of FSC-certified materials for the entire product? Otherwise it will be automatically calculated from the components. If you do not have any components for your product, we recommend that you enter here the content of FSC certified materials for the entire product:

| Permanent formwork Pecafil® VR6 | No             |
|---------------------------------|----------------|
| polyethylen foil                | Yes            |
| Flachfolien aus Polyethylene    | No Information |
| Betonstahl/ Betonstabstahl VR6  | Yes            |

#### Reused content

| Permanent formwork Pecafil® VR6 | 92.86 wt%      |
|---------------------------------|----------------|
| polyethylen foil                | 30 wt%         |
| Flachfolien aus Polyethylene    | No Information |
| Betonstahl/ Betonstabstahl VR6  | 96.5 wt%       |



#### **Recycled content**

#### Creditable recycled content according to LEED for the entire product:

| Permanent formwork Pecafil® VR6 | 80.287335 % |
|---------------------------------|-------------|

#### Postconsumer recycled content for the entire product:

| Permanent formwork Pecafil® VR6 | 69.91767 % |
|---------------------------------|------------|
| polyethylen foil                | 30 %       |
| Flachfolien aus Polyethylene    | 0 %        |
| Betonstahl/ Betonstabstahl VR6  | 76.7 %     |

# Do you want to enter the recycled content for the entire product? Otherwise it will be automatically calculated from the components. If you do not have components for your product, we recommend that you enter the recycling percentage for the entire product here:

| Permanent formwork Pecafil® VR6 | No  |
|---------------------------------|-----|
| polyethylen foil                | Yes |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

#### Postconsumer recycled content of product (creditable):

| Permanent formwork Pecafil® VR6 | 72.12 % |
|---------------------------------|---------|
| polyethylen foil                | 30 %    |
| Flachfolien aus Polyethylene    | 0 %     |
| Betonstahl/ Betonstabstahl VR6  | 76.7 %  |

#### Recycled content post-consumer:

| Permanent formwork Pecafil® VR6 | 72.12 wt% |
|---------------------------------|-----------|
| polyethylen foil                | 30 wt%    |
| Flachfolien aus Polyethylene    | 0 wt%     |
| Betonstahl/ Betonstabstahl VR6  | 76.7 wt%  |

#### Postconsumer recycled content for steel according to LEED:

| Permanent formwork Pecafil® VR6 | 0 % |
|---------------------------------|-----|
| polyethylen foil                | 0 % |
| Flachfolien aus Polyethylene    | 0 % |
| Betonstahl/ Betonstabstahl VR6  | 0 % |



#### The product is made of steel:

| Permanent formwork Pecafil® VR6 | Yes |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

#### Recycled content pre-consumer:

| Permanent formwork Pecafil® VR6 | 20.74 wt% |
|---------------------------------|-----------|
| polyethylen foil                | 0 wt%     |
| Flachfolien aus Polyethylene    | 0 wt%     |
| Betonstahl/ Betonstabstahl VR6  | 23.3 wt%  |

#### Preconsumer recycled content for the entire product:

| Permanent formwork Pecafil® VR6 | 20.73933 % |
|---------------------------------|------------|
| polyethylen foil                | 0 %        |
| Flachfolien aus Polyethylene    | 0 %        |
| Betonstahl/ Betonstabstahl VR6  | 23.3 %     |

#### MR Credit BPDO - Material Ingredients - Option 1: Material Ingredient Reporting

#### Weighted Product Value on Credit BPDO - Material Ingredients - Option 1: Material Ingredient Reporting:

| Permanent formwork Pecafil® VR6 | 0 % weighted value |
|---------------------------------|--------------------|
|---------------------------------|--------------------|

#### A manufacturer inventory with all ingredients (to at least 0.1 %) identified by CASRN exists for the product:

| Permanent formwork Pecafil® VR6 | No             |
|---------------------------------|----------------|
| polyethylen foil                | No Information |
| Flachfolien aus Polyethylene    | No             |
| Betonstahl/ Betonstabstahl VR6  | No             |

# A Health Product Declaration (HPD) exists for the product:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |



# Certified according Declare - all ingredients have been evaluated and disclosed down to 0,1 % = 1000 ppm:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

## Certified according Product Lens:

| Contined dooblaing i roudot zono. |    |
|-----------------------------------|----|
| Permanent formwork Pecafil® VR6   | No |
| polyethylen foil                  | No |
| Flachfolien aus Polyethylene      | No |
| Betonstahl/ Betonstabstahl VR6    | No |

#### Certified according Cradle to Facts - NSF/ANSI 336: Sustainability Assessment for Commercial Furnishings Fabric:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# Assessed according ANSI/BIFMA e3 Furniture Sustainability standard - Product earned at least 3 points under 7.5.1.3 Advanced Level in e3-2014 or 3 points under 7.4.1.3 Advanced Level in e3-2012:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# Certified with Cradle to Cradle:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# Cradle to Cradle Standard Version:

| Permanent formwork Pecafil® VR6 | no entry |
|---------------------------------|----------|
| polyethylen foil                | no entry |
| Flachfolien aus Polyethylene    | no entry |
| Betonstahl/ Betonstabstahl VR6  | no entry |



#### Cradle to Cradle Level:

| Permanent formwork Pecafil® VR6 | no entry |
|---------------------------------|----------|
| polyethylen foil                | no entry |
| Flachfolien aus Polyethylene    | no entry |
| Betonstahl/ Betonstabstahl VR6  | no entry |

# Certified with Cradle to Cradle Material Health:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

#### Cradle to Cradle Material Health Level:

| Permanent formwork Pecafil® VR6 | no entry |
|---------------------------------|----------|
| polyethylen foil                | no entry |
| Flachfolien aus Polyethylene    | no entry |
| Betonstahl/ Betonstabstahl VR6  | no entry |

#### For Cradle to Cradle Material Health are at least 90% of materials assessed by weight:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# MR Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization

# Weighted Product Value on Credit BPDO - Material Ingredients - Option 2: Material Ingredient Optimization:

| Permanent formwork Pecafil® VR6 | 100 % weighted value |
|---------------------------------|----------------------|

# The product contains no ingredients listed on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list. This is proved down to fully inventoried chemical ingredients to 100 ppm (0,01 %):

| Permanent formwork Pecafil® VR6 | Yes |
|---------------------------------|-----|
| polyethylen foil                | No  |
| Flachfolien aus Polyethylene    | Yes |
| Betonstahl/ Betonstabstahl VR6  | No  |



The Product have fully inventoried chemical ingredients to 100 ppm and no Benchmark 1 hazard according to GreenScreen v1.2 Benchmark. The product is assessed with "GreenScreen List Translator":

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# The Product have fully inventoried chemical ingredients to 100 ppm and no Benchmark 1 hazard according to GreenScreen v1.2 Benchmark. The product is assessed with "GreenScreen Assessment":

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# Certified with Cradle to Cradle:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

# Cradle to Cradle Standard Version:

| Permanent formwork Pecafil® VR6 | no entry |
|---------------------------------|----------|
| polyethylen foil                | no entry |
| Flachfolien aus Polyethylene    | no entry |
| Betonstahl/ Betonstabstahl VR6  | no entry |

# Cradle to Cradle Level:

| Permanent formwork Pecafil® VR6 | no entry |
|---------------------------------|----------|
| polyethylen foil                | no entry |
| Flachfolien aus Polyethylene    | no entry |
| Betonstahl/ Betonstabstahl VR6  | no entry |

# MR Credit BPDO - Material Ingredients - Option 3: Product Manufacturer Supply Chain Optimization

#### Weighted Product Value on Credit BPDO - Material Ingredients - Option 3: Supply Chain Optimization:

| Permanent formwork Pecafil® VR6 | 0 % weighted value |
|---------------------------------|--------------------|
|---------------------------------|--------------------|



#### Environmental Management System according ISO 14001:

| Permanent formwork Pecafil® VR6 | Yes |
|---------------------------------|-----|
| polyethylen foil                | Yes |
| Flachfolien aus Polyethylene    | No  |
| Betonstahl/ Betonstabstahl VR6  | Yes |

# Manufacturer is certified according OHSAS 18000 - Health and Safety Management System:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

#### Location Valuation Factor

## Information for Location Valuation Factor is available:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|

#### Place of raw material extraction (e.g D-70563 Stuttgart):

| Permanent formwork Pecafil® VR6 | Europa            |
|---------------------------------|-------------------|
| polyethylen foil                | Europa            |
| Flachfolien aus Polyethylene    | Europäische Union |
| Betonstahl/ Betonstabstahl VR6  | Europa            |

# Place of manufacture (e.g. D-70563 Stuttgart):

| Permanent formwork Pecafil® VR6 | D-96332            |
|---------------------------------|--------------------|
| polyethylen foil                | D-49439 Steinfeld  |
| Flachfolien aus Polyethylene    | D-52379 Langerwehe |
| Betonstahl/ Betonstabstahl VR6  | Deutschland        |

# Place of purchase incl. distribution (e.g. D-70563 Stuttgart):

| Permanent formwork Pecafil® VR6 | D-96332            |
|---------------------------------|--------------------|
| polyethylen foil                | D-49439 Steinfeld  |
| Flachfolien aus Polyethylene    | D-52379 Langerwehe |
| Betonstahl/ Betonstabstahl VR6  | Deutschland        |



# The distance between place of raw material extraction and manufacture is less than 100 miles/160 km:

| Permanent formwork Pecafil® VR6 | No |
|---------------------------------|----|
| polyethylen foil                | No |
| Flachfolien aus Polyethylene    | No |
| Betonstahl/ Betonstabstahl VR6  | No |

#### Indoor Environmental Quality

#### EQ Credit Low-Emitting Materials (except Healthcare and Schools)

#### The entire product contributes toward satisfying EQ Credit: Low-Emitting Materials:

| Permanent formwork Pecafil® VR6 N/A |  |
|-------------------------------------|--|
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#### Contact Details Manufacturer

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BUILDING MAX FRA

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