Produkt Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Lindner AG Manufacturer

Product Name



Product Rating

- The product fulfills the requirements for adhesives and sealants and contribute to achieve one LEED credit within IEQ Credit 4.1.
- The product fulfills the requirements for paints and coatings and contribute to achieve one LEED credit within IEQ Credit 4.2.
- The product contains 28.7% recycled materials and contribute to achieve LEED credits within MR Credit 4.

Indoor Environ	nmental Quality (IEQ) -	LEED Category		
IEQ Credit 4.1:	Low Emitting Materials:	Adhesives and Sealants	1 Point	\checkmark
IEQ Credit 4.2:	Low Emitting Materials:	Paints and Coatings	1 Point	\checkmark
IEQ Credit 4.3:	Low Emitting Materials:	Flooring Systems	1 Point	0
IEQ Credit 4.4:	Low Emitting Materials:	Composite Wood and Agrifiber Products	1 Point	0
Materials and I	Resources (MR) - LEED	O Category		
MR Credit 4:	Recycled Content		1-2 Points	29%
MR Credit 5:	Regional Materials		1-2 Points	See Location
MR Credit 6:	Rapidly Renewable Ma	aterials	1 Point	0
MR Credit 7:	Certified Wood		1 Point	0

Product Characteristics

Lindner Heated and Chilled Post Cap ceilings are the solid foundation for partitioning your rooms. Visible and concealed post cap profiles can be installed to align with mullions, reflecting exterior architectural design in the interior. Distances between post caps are variable. Provided additional bracing is in place.

Unmatched functionality and accessibility, ensured by Swing-Down mechanisms make this heated and chilled ceiling a secure choice.

The integrated Heating and Cooling Technologies of Plafotherm® B create a pleasant temperature for any living and working environment. We will be glad to give your metal ceiling a distinctive look by applying one of our many eyecatching Lindner surfaces.

About LEED & Products - www.usgbc.org

This declaration helps to assess products easily according the certification system LEED® 2009 New Construction and Major Renovations NC & CS (excluded SCHOOLS). Products are not reviewed or certified by LEED. LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information about LEED visit www.usgbc.org/leed. The project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve LEED points.

Below you find an explanation of the symbols. Detailed information are on the next pages.

Credit requirements fulfilled - the credit point can be achieved



X% of the product comply with the credit requirement

Required data not specified - for required data contact manufacturer

Credit requirements are not fulfilled

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Produkt Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Lindner AG Manufacturer 🖂 Lindner Plafotherm® B - Post Cap Heated/Chilled **Product Name** Ceilings Certified Wood NA NA MA MA NA NA NA MA \bigcirc Rapidly Renewable Material ΝA ΝA \bigcirc NA Ν AN ΝA ΝA ΝA 'Manufacturing' is within a radius of 500 miles of the Manufacturing Arnstorf (D) project the subproduct contributes to the credit. Location If the location of 'Harvesting & Extraction' and Regional Materials See detailed rating on See detailed rating on Harvesting/ Extraction See detailed rating on next pages Location Consumer 28.7% 0.0% Not relevant relevant Not relevant Not relevant Recycled Content Not Pre-%0 %0 %0 %0 29% Consumer Not relevant Not relevant relevant Not elevant 25%** 25%** Post-%06 Not %0 Composite Agrifiber product N/A A/A ΝA NA NA С NA NA NA Flooring Systems NA A/A N/A NA NA NA N/A N/A \bigcirc VOC-Limit in <u>|/b</u> NA NA ٨ AN 50 2 ΝA NΑ VOC in N/A A/A N/A NA NA l/g AN 0 0 Wass per unit* [%] 18.00 18.00 46.50 14.00 100.0 8. 0.50 <u>8</u>. <u>8</u>. Manufacturer -indner AG Lindner AG -indner AG -indner AG indner AG indner AG indner AG indner AG -indner AG Subconstruction, zink Product Name Hot melt adhesives Metal ceiling, zink Acoustical Fleece coated steel sheet Plafotherm® B -Bandrasterheizcoated steel sheet Aluminium Profile **Detailed Rating** Powder Coating Sealing strip CU-Pipes A10 B3 ¥ A5 A6 ¥ ۶ Ł R **A**8 A9

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All values are based on the unit:1 m² **LEED default recycled content for steel

Produkt Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer Lindner AG

Product Name

Plafotherm® B - Post Cap Heated/Chilled Ceiling



IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants (1 Point)

Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by adhesives and sealants applied on site.

Requirement

All adhesive, sealants and sealant primers used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply shall comply with the VOC content limits of the following:

- SCAQMD Rule #1168 (effective date of July 1, 2005 and rule amendment date of January 7, 2005),
- Aerosol Adhesives must comply with Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings (1 Point)

Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants caused by paints and coatings applied on site.

Requirement

Paints and coatings used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) must comply with the VOC content limits of the following:

- Green Seal Standard GS-11, Paints Edition, May 20, 1993,
- Green Seal Standard GC-03, Anti-Corrosive Paints, Second Edition, January 7, 1997, and

South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

Detailed Rating

······································						Contribution of Product		
			Credit	-	Allowable	Product		
A1	Metal ceiling , zink coated steel sheet	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0
A2	Subconstruction, zink coated steel sheet	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0
A3	CU-Pipes	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0
A4	Aluminium Profile	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0
A5	Powder Coating	Lindner AG	IEQ Credit 4.2	Flats (SCAQMD Rule 1113)	50g/l	0g/I	The product fulfills the requirements for paints & coatings.	\checkmark
A6	Hot melt adhesives	Lindner AG	IEQ Credit 4.1	Multipurpose construction adhesives (SCAQMD Rule 1168)	70g/l	0g/l	The product fulfills the requirements for adhesives & sealants.	\checkmark
A7	Acoustical Fleece	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0
A8	Sealing strip	Lindner AG	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	0

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Manufacturer Lindner AG

Product Name

Plafotherm® B - Post Cap Heated/Chilled Ceilin



MR Credit 4: Recycled Content (1-2 Points)

Intent

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials

Requirement

Use materials with recycled content* such that the sum of post-consumer** recycled content plus one-half of the pre-consumer*** content constitutes at least 10%/20% (based on cost) of the total value of the materials in the project.

The minimum percentage materials recycled for each point threshold is as follows:

10% Recycled Content -> 1 Point

20% Recycled Content -> 2 Points.

Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 — Environmental labels and declarations — Self-declared environmental claims (Type II environmental labeling).

Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

*** Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

Detailed Rating

No	Product Name	Manufacturer	Recycled Content Contribution of Product Post- Pre-			
			Consumer	Consumer		
A1	Metal ceiling , zink coated steel sheet	Lindner AG	25%**	0%	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A2	Subconstruction, zink coated steel sheet	Lindner AG	25%**	0%	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A3	CU-Pipes	Lindner AG	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A4	Aluminium Profile	Lindner AG	90%	0%	Accountable recycled content is 90% (1 x Post-Consumer + 0.5 x Pre-Consumer).	90%
A5	Powder Coating	Lindner AG	Not relevant	Not relevant	Recycled content is not relevant.	—
A6	Hot melt adhesives	Lindner AG	Not relevant	Not relevant	Recycled content is not relevant.	—
A7	Acoustical Fleece	Lindner AG	Not relevant	Not relevant	Recycled content is not relevant.	_
A8	Sealing strip	Lindner AG	Not relevant	Not relevant	Recycled content is not relevant.	—

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Lindner AG Manufacturer

Product Name

Plafotherm® B - Post Cap Heated/Chilled Ceiling



MR Credit 5: Regional Materials (1-2 Points)

Intent

To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Requirement

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

10% Regional Materials -> 1 Point

20% Regional Materials -> 2 Points.

Detailed Rating

No	Product Name	Manufacturer	Location Harvesting/ Extraction	Location Manufacturing
A1	Metal ceiling , zink coated steel sheet	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A2	Subconstruction, zink coated steel sheet	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A3	CU-Pipes	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A4	Aluminium Profile	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A5	Powder Coating	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A6	Hot melt adhesives	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A7	Acoustical Fleece	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)
A8	Sealing strip	Lindner AG	All raw materials are manufactured by companies within a radius of 500 km, based on the company's headquarters in Arnstorf (D).	Arnstorf (D)

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