

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS
MANUFACTURER Griesser AG Aadorf

PRODUCT NAME Venetian Blind (Lamisol, Solomatic, Aluflex)

Product Rating

- The product fulfills the requirements for paints and coatings and contribute to achieve one LEED credit within IEQ Credit 4.2.
- The product contains 43,7% recycled materials and contribute to achieve LEED credits within MR Credit 4.

Indoor Environmental Quality (IEQ) - LEED Category

IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants	1 Point	<input type="radio"/>
IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings	1 Point	<input checked="" type="radio"/>
IEQ Credit 4.3: Low Emitting Materials: Flooring Systems	1 Point	<input type="radio"/>
IEQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products	1 Point	<input type="radio"/>

Materials and Resources (MR) - LEED Category

MR Credit 4: Recycled Content	1-2 Points	44%
MR Credit 5: Regional Materials	1-2 Points	See Location
MR Credit 6: Rapidly Renewable Materials	1 Point	<input type="radio"/>
MR Credit 7: Certified Wood	1 Point	<input type="radio"/>

Product Characteristics

Sun protection for windows and doors as well as glass facades. For direct mounting in the reveal, in front of facades, in double facades or indoors. Slats made of special aluminum alloy, corrosion-resistant enamelled. Color according to the standard color collection. Aluminum parts anodized or enameled according to the standard color collection. Lateral guide with guide rails or depending on the type also with tensioning cables. Drive with electric motor 230V AC or manual crank. Options: slats with bicolor (two-color), working position, daylight optimization or perforation.

<input checked="" type="radio"/>	Credit requirements fulfilled - the credit point can be achieved
<input type="radio"/>	Credit is not applicable to this product
22%	X% of the product comply with the credit requirement
—	Required data not specified - for required data contact manufacturer
<input checked="" type="radio"/>	Credit requirements are not fulfilled

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.

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

Detailed Rating

No	Product Name	Manufacturer	Mass per unit* [%]	VOC in g/l	VOC-Limit in g/l	Flooring Systems	Composite Agrifiber product	Recycled Content		Regional Materials		Rapidly Renewable Material	Certified Wood
								Post-Consumer	Pre-Consumer	Location Harvesting/ Extraction	Location Manufacturing		
A1	Slat (Aluminium)	Griesser AG Aadorf	~ 37,6%	N/A	N/A	N/A	N/A	50%	20%	Not specified	CH-1072 Forel	N/A	N/A
A2	Rails and other components (aluminium)	Griesser AG Aadorf	~ 35,3%	N/A	N/A	N/A	N/A	50%	Not specified	Not specified	IT-25025 Manerbio	N/A	N/A
A3	Upper rail (steel)	Griesser AG Aadorf	~ 12%	N/A	N/A	N/A	N/A	25%**	Not specified	Not specified	CH-5733 Leimbach	N/A	N/A
A4	Connecting hook (steel)	Griesser AG Aadorf	~ 1,1%	N/A	N/A	N/A	N/A	Not specified	80%	Not specified	Not specified	N/A	N/A
A5	Manual crank (steel)	Griesser AG Aadorf	~ 6%	N/A	N/A	N/A	N/A	Not specified	Not specified	Not specified	DE-74321 Bietigheim-Bissingen	N/A	N/A
A6	Plastic components	Griesser AG Aadorf	~ 6,2%	N/A	N/A	N/A	N/A	0,1%	0,1%	Not specified	CH-9104 Waldstatt CH-4323 Wallbach CH-9200 Gossau	N/A	N/A
A7.1	Powder coat	Griesser AG Aadorf	~ 0,2%	0	50	N/A	N/A	Not specified	Not specified	Not specified	CH-9500 Wil	N/A	N/A
A7.2	Wet paint	Griesser AG Aadorf	~ 1,5%	0	250	N/A	N/A	Not specified	Not specified	Not specified	CH-8956 Killwangen CH-5442 Fislisbach	N/A	N/A
A7.3	Metallization	Griesser AG Aadorf	~ 0%	N/A	N/A	N/A	N/A	Not specified	Not specified	Not specified	CH-9423 Altenrhein	N/A	N/A
A8													
	Raffstore (Lamisol, Solomatic, Aluflex)	Griesser AG Aadorf	100,0	✓	○	○		39,5%	8,4%	If the location of 'Harvesting & Extraction' and 'Manufacturing' is within a radius of 500 miles of the project the subproduct contributes to the credit.		○	○
								43,7%					

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

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

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.

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

No	Product Name	Manufacturer	Related Credit	Product Type	VOC-Content		Contribution of Product	
					Allowable	Product		
A1	Slat (Aluminium)	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A2	Rails and other components (aluminum)	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A3	Upper rail (steel)	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A4	Connecting hook (steel)	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A5	Manual crank (steel)	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A6	Plastic components	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○
A7.1	Powder coat	Griesser AG Aadorf	IEQ Credit 4.2	Flats (SCAQMD Rule 1113)	50g/l	0g/l *	The product fulfills the requirements for paints & coatings.	✓
A7.2	Wet paint	Griesser AG Aadorf	IEQ Credit 4.2	Multi-Colour Coatings (SCAQMD Rule 1113)	250g/l	0g/l *	The product fulfills the requirements for paints & coatings.	✓
A7.3	Metallization	Griesser AG Aadorf	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	○

* The product does not contain any liquid coatings applied on building site. The VOC content of the delivered endproduct is 0 g/l.

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PRODUCT NAME Venetian Blind (Lamisol, Solomatic, Aluflex)

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-Consumer	Pre-Consumer		
A1	Slat (Aluminium)	Griesser AG Aadorf	50%	20%	Accountable recycled content according to LEED is 60% (1 x Post-Consumer + 0.5 x Pre-Consumer).	60%
A2	Rails and other components (aluminum)	Griesser AG Aadorf	50%	Not specified	Accountable recycled content is 50% (1 x Post-Consumer + 0.5 x Pre-Consumer).	50%
A3	Upper rail (steel)	Griesser AG Aadorf	25%**	Not specified	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A4	Connecting hook (steel)	Griesser AG Aadorf	Not specified	80%	Accountable recycled content is 40% (1 x Post-Consumer + 0.5 x Pre-Consumer).	40%
A5	Manual crank (steel)	Griesser AG Aadorf	Not specified	Not specified	No recycled content specified.	—
A6	Plastic components	Griesser AG Aadorf	0,1%	0,1%	Accountable recycled content is 0,15% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A7.1	Powder coat	Griesser AG Aadorf	Not specified	Not specified	No recycled content specified.	—
A7.2	Wet paint	Griesser AG Aadorf	Not specified	Not specified	No recycled content specified.	—
A7.3	Metallization	Griesser AG Aadorf	Not specified	Not specified	No recycled content specified.	—

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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	Slat (Aluminium)	Griesser AG Aadorf	Not specified	CH-1072 Forel
A2	Rails and other components (aluminum)	Griesser AG Aadorf	Not specified	IT-25025 Manerbio
A3	Upper rail (steel)	Griesser AG Aadorf	Not specified	CH-5733 Leimbach
A4	Connecting hook (steel)	Griesser AG Aadorf	Not specified	Not specified
A5	Manual crank (steel)	Griesser AG Aadorf	Not specified	DE-74321 Bietigheim-Bissingen
A6	Plastic components	Griesser AG Aadorf	Not specified	CH-9104 Waldstatt CH-4323 Wallbach CH-9200 Gossau
A7.1	Powder coat	Griesser AG Aadorf	Not specified	CH-9500 Wil
A7.2	Wet paint	Griesser AG Aadorf	Not specified	CH-8956 Killwangen CH-5442 Fislisbach
A7.3	Metallization	Griesser AG Aadorf	Not specified	CH-9423 Altenrhein

* The whole venetian blind is produced in CH-8355.