

Manufacturer **GU Automatic GmbH**


Product Name **Revolving door GRA, GGG**




Product Rating

- The product fulfills the requirements for paints and coatings and contribute to achieve one LEED credit within IEQ Credit 4.2.
- The timber product contains added urea-formaldehyde resins and does not contribute to achieve e a LEED credit within IEQ Credit 4.4.
- The product contains 17.6% recycled materials and contribute to achieve LEED credits within MR Credit 4.
- The contained timber products are available as up to 100% FSC certified and thus contribute to achieve a LEED credit within MR Credit 7.

Indoor Environmental Quality (IEQ) - LEED Category

IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants	1 Point	
IEQ Credit 4.2: Low Emitting Materials: Paints and Coatings	1 Point	
IEQ Credit 4.3: Low Emitting Materials: Flooring Systems	1 Point	
IEQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products	1 Point	

Materials and Resources (MR) - LEED Category

MR Credit 4: Recycled Content	1-2 Points	18%
MR Credit 5: Regional Materials	1-2 Points	See Location
MR Credit 6: Rapidly Renewable Materials	1 Point	
MR Credit 7: Certified Wood	1 Point	100%

Product Characteristics






Revolving door type GRA, GGG, 3 or 4 panels, manual or automatic. Drum walls, night locking sliding doors and turnstile with slim profile construction for insert of curved laminated glass or toughened safety glass, panels with 3-way circumferential brushes. min. crown height 175 mm resp. glass roof, 360° stainless steel bottom ring (V2A) 40 x 30 x 2 mm as surround for cleaning mat. The automatic revolving door is type-tested by TÜV according to DIN 18650 and EN 16005 and is equipped with active rubber contact strips on the main closing edges. Electronic components are not part of this appraisal.

* Motors and electronics are not part of the assessment.

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**
-  **Credit is not applicable to this product**
-  **X% of the product comply with the credit requirement**
-  **Required data not specified - for required data contact manufacturer**
-  **Credit requirements are not fulfilled**

Manufacturer **GU Automatic GmbH**Product Name **Revolving door GRA, GGG**

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	aluminium	GU Automatic GmbH	~24%	N/A	N/A	N/A	N/A	0%	53%	Not specified	Not specified	N/A	N/A
A2	steel/ stainless steel	GU Automatic GmbH	~4.1%	N/A	N/A	N/A	N/A	25%**	0%	Not specified	Not specified	N/A	N/A
A3	zinc die-cast	GU Automatic GmbH	~0.1%	N/A	N/A	N/A	N/A	0%	0%	Not specified	Not specified	N/A	N/A
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	~2.4%	N/A	N/A	N/A	N/A	0%	0%	Not specified	Not specified	N/A	N/A
A5	glass	GU Automatic GmbH	~65.9%	N/A	N/A	N/A	N/A	8%	15%	Not specified	Not specified	N/A	N/A
A6	chip board	GU Automatic GmbH	~2.5%	N/A	N/A	N/A	Contains urea-added urea-formaldehyd	0%	0%	Not specified	Not specified	N/A	100%
A7	copper	GU Automatic GmbH	~0.1%	N/A	N/A	N/A	N/A	0%	0%	Not specified	Not specified	N/A	N/A
A8	powder coat	GU Automatic GmbH	~0.9%	0	50	N/A	N/A	0%	0%	Not specified	Not specified	N/A	N/A
A9													
A10													
Karusselltür GRA, GGG		GU Automatic GmbH	100.0	✓		○	✗	6.3%	22.7%	If the location of 'Harvesting & Extraction' and 'Manufacturing' is within a radius of 500 miles of the project the subproduct contributes to the credit.		○	100%
								17.6%					

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

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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

No	Product Name	Manufacturer	Related Credit	Product Type	VOC-Content		Contribution of Product	
					Allowable	Product		
A1	aluminium	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A2	steel/ stainless steel	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A3	zinc die-cast	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A5	glass	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A6	chip board	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A7	copper	GU Automatic GmbH	N/A	N/A	N/A	N/A	The product is no adhesive, sealant, paint or coating.	<input type="radio"/>
A8	powder coat	GU Automatic GmbH	IEQ Credit 4.2	Flats (SCAQMD Rule 1113)	50g/l	0g/l	The product fulfills the requirements for paints & coatings.	<input checked="" type="checkbox"/>

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IEQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products (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 composite wood and agrifiber products.

Requirement

Composite wood and agrifiber products used on the interior of the building (i.e., inside the weatherproofing system) must contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins.

Detailed Rating

No	Product Name	Manufacturer	Wooden Material or wood-adhesive	Wooden product free of added Urea-Formaldehyde*	Contribution of Product	
A1	aluminium	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A2	steel/ stainless steel	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A3	zinc die-cast	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A5	glass	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A6	chip board	GU Automatic GmbH	Yes	No	The product contains added urea-formaldehyde resins.	×
A7	copper	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A8	powder coat	GU Automatic GmbH	No	N/A	The product is not made from wood.	○

* Considered is the urea-formaldehyde added during the production process. Naturally urea-formaldehyde might be contained in all wooden materials. Urea-formaldehyde free wood products are available only on request. This is to be agreed separately.

Manufacturer **GU Automatic GmbH**

Product Name **Revolving door GRA, GGG**



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	aluminium	GU Automatic GmbH	0%	53%	Accountable recycled content according to LEED is 26.65% (1 x Post-Consumer + 0.5 x Pre-Consumer).	27%
A2	steel/ stainless steel	GU Automatic GmbH	25%**	0%	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A3	zinc die-cast	GU Automatic GmbH	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A5	glass	GU Automatic GmbH	8%	15%	Accountable recycled content is 15.5% (1 x Post-Consumer + 0.5 x Pre-Consumer).	16%
A6	chip board	GU Automatic GmbH	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A7	copper	GU Automatic GmbH	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%
A8	powder coat	GU Automatic GmbH	0%	0%	Accountable recycled content is 0% (1 x Post-Consumer + 0.5 x Pre-Consumer).	0%

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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	aluminium	GU Automatic GmbH	Not specified	Not specified
A2	steel/ stainless steel	GU Automatic GmbH	Not specified	Not specified
A3	zinc die-cast	GU Automatic GmbH	Not specified	Not specified
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	Not specified	Not specified
A5	glass	GU Automatic GmbH	Not specified	Not specified
A6	chip board	GU Automatic GmbH	Not specified	Not specified
A7	copper	GU Automatic GmbH	Not specified	Not specified
A8	powder coat	GU Automatic GmbH	Not specified	Not specified

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**MR Credit 7: Certified Wood (1 Points)****Intent**

To encourage environmentally responsible forest management.

Requirement

Use a minimum of 50% (based on cost) of wood-based materials and products that are certified in accordance with the Forest Stewardship Council's principles and criteria, for wood building components. These components include at a minimum, structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes.

Detailed Rating

No	Product Name	Manufacturer	Wooden Material	FSC certified	Contribution of Product	
A1	aluminium	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A2	steel/ stainless steel	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A3	zinc die-cast	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A4	plastics/ rubber/ neoprene	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A5	glass	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A6	chip board	GU Automatic GmbH	Yes	100%	*On demand* the product is available with up to 100% FSC certified wood.	100%
A7	copper	GU Automatic GmbH	No	N/A	The product is not made from wood.	○
A8	powder coat	GU Automatic GmbH	No	N/A	The product is not made from wood.	○