

Manufacturer **Knauf Gips KG**

Product Name **Knauf Metal Stud Partition W112 Diamant F90**



Product Rating

- The product contains 21.7% recycled materials and contribute to achieve LEED credits within MR Credit 4.
- Depending on the building project location the product fulfills the requirements for regional extracted and manufactured materials (see locations). The product might contribute to achieve LEED credits within MR Credit 5.
- The product consists of 0.1% rapidly renewable material and thus contribute to achieve LEED credits within MR Credit 6.

Indoor Environmental Quality (IEQ) - LEED Category

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

Materials and Resources (MR) - LEED Category

MR Credit 4: Recycled Content (The recycled content represents a mean value. For specific data please contact manufacturer.)	1-2 Points	22%
MR Credit 5: Regional Materials	1-2 Points	See Location
MR Credit 6: Rapidly Renewable Materials	1 Point	0%
MR Credit 7: Certified Wood	1 Point	<input checked="" type="radio"/>

Product Characteristics

Knauf Metal Stud Partition W 112 with single metal stud frame and double-layer cladding made of Diamant is a partition system for rooms with fire protection requirement F90 and increased sound insulation.

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**
- 22% **X% of the product comply with the credit requirement**
- **Required data not specified - for required data contact manufacturer**
- Credit requirements are not fulfilled**

Manufacturer **Knauf Gips KG**Product Name **Knauf Metal Stud Partition W112 Diamant F90**

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	Harvesting/ Extraction	Location Manufacturing		
A1	Knauf Diamant 12,5	Knauf Gips KG	95.47	N/A	N/A	N/A	N/A	3%	36%	See detailed rating on next pages	Iphofen (D), Rottleberode (D), Lauffen (D) Stadlbaldorf (D)	N/A	N/A
A2	Knauf CW Stud 50/50/06	Knauf Gips KG	2.61	N/A	N/A	N/A	N/A	25%**	0%	not specified	Griesheim (D)	N/A	N/A
A3	Knauf LW Runner 50/40/06	Knauf Gips KG	0.65	N/A	N/A	N/A	N/A	25%**	0%	not specified	Griesheim (D)	N/A	N/A
A4	Knauf Insulation Partition Slab TP 115 40 mm	Knauf Insulation	1.27	N/A	N/A	N/A	N/A	60%	10%	See detailed rating on next pages	Vise (B), Krupka (CZ)	4%	N/A
A5													
A6													
A7													
A8													
A9													
A10													
	Knauf Metalländerwand	Knauf Gips KG	100.0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	4.4%	34.5%				<input type="radio"/>
									22%				0.1%

If the location of "Harvesting & Extraction" and "Manufacturing" is within a radius of 500 miles of the project the subproduct contributes to the credit.

*All values are based on the unit:1 m² **LEED default recycled content for steel ***The pre-consumer recycled content is weighted with 0.5 according to LEED.

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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	Knauf Diamant 12,5	Knauf Gips KG	3%	36%	Accountable recycled content according to LEED is 21% (1 x Post-Consumer + 0.5 x Pre-Consumer).	21%
A2	Knauf CW Stud 50/50/06	Knauf Gips KG	25%**	0%	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A3	Knauf UW Runner 50/40/06	Knauf Gips KG	25%**	0%	Accountable recycled content is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer). **LEED default recycled content for steel	25%
A4	Knauf Insulation Partition Slab TP 115 40 mm	Knauf Insulation	60%	10%	Accountable recycled content is 65% (1 x Post-Consumer + 0.5 x Pre-Consumer).	65%

(The recycled content represents a mean value. For specific data please contact manufacturer.)

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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	Knauf Diamant 12,5	Knauf Gips KG	The average haul distance of the essential raw materials to the production site are the following: 38%: 3 km* 58%: 170 km* 4%: origin is varying, therefore statements are not possible	Iphofen (D), Rottleberode (D), Lauffen (D) Stadtoldendorf (D)
A2	Knauf CW Stud 50/50/06	Knauf Gips KG	not specified	Griesheim (D)
A3	Knauf UW Runner 50/40/06	Knauf Gips KG	not specified	Griesheim (D)
A4	Knauf Insulation Partition Slab TP 115 40 mm	Knauf Insulation	The average haul distance of the essential raw materials to the production site are the following: Raw materials: 200km Binder: 300km	Vise' (B), Krupka (CZ)

* These data are averages of the different production sites under consideration of the market shares.

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MR Credit 6: Rapidly Renewable Materials (1 Points)

Intent

To reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.

Requirement

Use rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle.

Detailed Rating

No	Product Name	Manufacturer	Rapidly Renewable Material	Percentage	Contribution of Product	
A1	Knauf Diamant 12,5	Knauf Gips KG	No	N/A	The product does not contain rapidly renewable materials.	○
A2	Knauf CW Stud 50/50/06	Knauf Gips KG	No	N/A	The product does not contain rapidly renewable materials.	○
A3	Knauf UW Runner 50/40/06	Knauf Gips KG	No	N/A	The product does not contain rapidly renewable materials.	○
A4	Knauf Insulation Partition Slab TP 115 40 mm	Knauf Insulation	Yes	4%	The product contains 4% rapidly renewable materials.	4%

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Datasheets for Download

Product Name	Manufacturer
Knauf Metal Stud Partition W112 Diamant F90	Knauf Gips KG
 Technical Data Sheet	
 Map Location of Production	
 EPD	

Datasheets per Component

No	Product Name	Manufacturer
A1	Knauf Diamant 12,5	Knauf Gips KG
	 Technical Data Sheet	
	 MSDS	
	 Self-declared Environmental Claims	
A2	Knauf CW Stud 50/50/06	Knauf Gips KG
	 Self-declared Environmental Claims	
A3	Knauf UW Runner 50/40/06	Knauf Gips KG
	 Self-declared Environmental Claims	
A4	Knauf Insulation Partition Slab TP 115 40 mm	Knauf Insulation
	 EPD	