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Product Declaration - LEED® v4 Building Design and Major Renovations

Max Frank GmbH & Co. KG MANUFACTURER

PRODUCT NAME Egcodorns and Egcodubel

PRODUCT Shear connetor for the transmission of shear forces in expansion joints.

CHARACTERISTICS



Max Frank GmbH & Co. KG Mitterweg 1 94339 Leiblfing Deutschland

	Product Rating									
LEED Category	LEED Credit	max. influenced score	Degree of fu	Ifillment %						
• The product contributes to	The product contributes toward satisfying MR Credit 3 "BPDO - Sourcing of Raw Materials" under LEED. The product contributes toward satisfying MR Credit 4 "BPDO - Material Ingredients" under LEED. The product contributes toward satisfying EQ Credit 2 "Low Emitting Materials" under LEED.									
Materials & Ressources	Credit 1: Building Life-Cycle Impact Reductions (Option 4: LCA)	1-3 Points	0%	0%						
	Credit 2: BPDO - Environmental Product Declarations	1-2 Points								
	Option 1: Environmental Product Declaration	1 Point	0%	0%						
	Option 2: Multi-Attribute Optimization	1 Point	0%	0%						
	Credit 3: BPDO - Sourcing of Raw Materials	1-2 Points								
	Option 1: Raw Material Source and Extraction Reporting	1 Point	0%	0%						
	Option 2: Leadership Extraction Practices	1 Point	23.8%	23.8%						
	Credit 4: BPDO - Material Ingredients	1-2 Points								
	Option 1: Material Ingredient Reporting	1 Point	0%	0%						
	Option 2: Material Ingredient Optimization	1 Point	5%	5%						
	Option 3: Product Manufacturer Supply Chain Optimization	1 Point	0%	0%						
Indoor Environmental Quality	Credit 2: Low Emitting Materials	1-3 Points	100%	100%						

About LEED & Products - www.usgbc.org

This declaration helps to assess products easily according to the certification system LEED® v4 Building Design and Major Renovations (excluded HEALTHCARE and 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.









MR Credit 1: Building Life-Cycle Impact Reductions (Option 4: LCA)

Intent

To encourage adaptive reuse and optimize the environmental performance of products and materials.

Requirement

Environmental Product Declaration (EPD) can be used in Credit "MR 1: Building Life-Cycle Impact Reductions" in Option 4 "Whole-Building Life-Cycle Assessment" for the calculation of the Life-Cycle Assessment of the building. If no EPD exitst, generic datasets will be used.

Detailed Nating								
	General Information			Option 4:				
No.	Product name	Manufacturer	Mass [%]	Whole-Building Life-Cycle Assessment	Compliance			
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	not specified				
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified	_			
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified	_			
A3	HPDE	Max Frank GmbH & Co. KG	5%	not specified	_			
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified	_			
A5	Wax	Max Frank GmbH & Co. KG	0%					
A6	Grease	Max Frank GmbH & Co. KG	0%					

MR Credit 2: BPDO - Environmental Product Declarations

Intent

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Requirement

Achieve one or more of the options below, for a maximum of 2 points.

Option 1: Environmental Product Declaration (1 Point)

Use at least 20 different permanently installed products sourced from at least five different manufacturers, for which an Environmental Product Declaration exist.

Proof - weighted value [%]:

- Product-specific declaration 25 %
- Industry-wide (generic) EPD 50 %
- Product-specific Type III EPD 100 %

Option 2: Multi-Attribute Optimization (1 Point)

50 % of all materials (based on the material costs of the project) must be less than the industry average in terms of environmental emissions. Third party certified products that demonstrate impact reduction below industry average in at least three of the following categories are valued at 100 % of their cost for credit achievement calculations.

- global warming potential (greenhouse gases), in CO2e;
- depletion of the stratospheric ozone layer, in kg CFC-11;
- acidification of land and water sources, in moles H+ or kg SO2;
- eutrophication, in kg nitrogen or kg phosphate;
- formation of tropospheric ozone, in kg NOx or kg ethene;
- and depletion of nonrenewable energy resources, in MJ.

Regional products (within 160 km = 100 Milen) are double-weighted.

	General Information			Option 1: Environment	al Product Declaration	Option 2: Multi-Attribute Optimization		
No.	Product name	Manufacturer	Mass [%]	EPD Program Operator	EPD Type - Weighted Value [%]	Third Party Certification Program**	Location*	
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	not specified	not specified	not specified ***	see location	
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified	not specified	not specified ***	see location	
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified ***	see location	
A3	HPDE	Max Frank GmbH & Co. KG	5%	not specified	not specified	not specified ***	see location	
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified ***	see location	
A5	Wax	Max Frank GmbH & Co. KG	0%			***	see location	
A6	Grease	Max Frank GmbH & Co. KG	0%			***	see location	

^{*} see explanation "Location Valuation Factor" on page 10

^{**} Demonstrate impact reduction below industry average

^{***} Evidence is verified by: not specified



MR Credit 3: BPDO - Sourcing of Raw Materials 1/2

Intent

To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

Requirement

Achieve one or more of the options below, for a maximum of 2 points.

Option 1: Raw Material Source and Extraction Reporting (1 Point)

Use at least 20 different permanently installed products sourced from at least five different manufacturers, who published a sustainability report of their suppliers.

- Manufacturer declared corporate sustainability report 50 %
- Third-party verified corporate sustainability report (CSR) according to Global Reporting Initiative (GRI) Sustainability Report, Organisation for Economic Cooperation and Develoment (OECD) Guidelines for Multinational Enterprises, U.N. Global Compact: Communication of Progress or ISO 26000: 2010 Guidance on Social Responsibility 100 % Option 2: Leadership Extraction Practices (1 Point)

25 % of all materials (based on the material costs of the project) must have at least an extended producer responsibility (closed loop or tage back programm) or are made from SAN certified bio-based materials, FSC certified wood, recycling materials (post-consumer recycled content plus one-half of the pre-consumer content), salvaged or reused materials.

Deta	talled Rating						
	General	I Information		Option 1: Raw Material Source and Extraction Reporting			
No.	Product name	Manufacturer	Mass [%]	Corporate Sustainability Report Type - Weighted Value [%]			
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	not specified			
	percentage influential degree (weighted contribution)			0%			
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified			
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified			
А3	HPDE	Max Frank GmbH & Co. KG	5%	not specified			
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified			
A5	Wax	Max Frank GmbH & Co. KG	0%	not specified			
A6	Grease	Max Frank GmbH & Co. KG	0%	not specified			

MR Credit 3: BPDO - Sourcing of Raw Materials 2/2

Deta	iled Kating									
	General Information			Option 2: Leadership Extraction Practices						
No.	Product name	Manufacturer	Mass [%]	Extended Producer Responsibility - Content [%]	SAN [%]**	FSC [%]***	Salvaged material [%]	Post- Consumer [%]	Pre- Consumer [%]	Location*
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	not specified	0%	0%	0%	23.8%	0%	see location
	percentage influential degree (weighted contribution)						23.8%			
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified	0%	0%	0%	25%	0%	see location
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified	0%	0%	0%	0%	0%	see location
A3	HPDE	Max Frank GmbH & Co. KG	5%	not specified	0%	0%	0%	0%	0%	see location
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified	0%	0%	0%	0%	0%	see location
A5	Wax	Max Frank GmbH & Co. KG	0%	not specified	0%	0%	0%	0%	0%	see location
A6	Grease	Max Frank GmbH & Co. KG	0%	not specified	0%	0%	0%	0%	0%	see location

^{*} see explanation "Location Valuation Factor" on page 10

^{**} SAN certified Content [%]

^{***} FSC certified Content [%]

^{****} Content of reused and salvaged materials [%]

MR Credit 4: BPDO - Material Ingredients

Intent

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

Achieve one or more of the options below, for a maximum of 2 points.

Option 1: Material Ingredient Reporting (1 Point)

Use at least 20 different permanently installed products sourced from at least five different manufacturers, which published reports or data sheets with all ingredients.

Proofs (Weighted Value 100 %):

- Manufacturer Inventory
- Health Product Declaration (HPD)
- Cradle to Cradle (Cradle to Cradle v2 Basic or Cradle to Cradle v3 Bronze)

Option 2: Material Ingredient Optimization (1 Point)

25 % of all materials (based on the material costs of the project) must be certified by Green Screen, Cradle to Cradle or REACH.

- GreenScreen v1.2 List Translator 100 %
- GreenScreen v1.2 Assessment 150 %
- Cradle to Cradle v2 Gold 100 %
- Cradle to Cradle v2 Platinum 150 %
- Cradle to Cradle v3 Silver 100 %
- Cradle to Cradle v3 Gold or Platinum 150 %
- REACH 100 %

Option 3: Product Manufacturer Supply Chain Optimization (1 Point)

25 % of all materials (based on the material costs of the project) are sourced from product manufacturers who engage in validated and robust safety, health, hazard, and risk programs and are sourced from product manufacturers with independent third party verification of their supply chain (e.g. ISO 14001 & OHSAS 18000).

Deta	iled Rating						
No.	General Information		_	Option 2: Material Ingredient Optimization	Option 3:	Location*	
NO.	Product name	Manufacturer Mass [%]		Type of Reporting	Certification Program Weighted Value [%]	Product Manufacturer Supply Chain Optimization	Location
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	not specified	not specified	not specified	see location
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified	not specified	not specified	see location
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified	see location
А3	HPDE	Max Frank GmbH & Co. KG	5%	not specified	REACH 100%	not specified	see location
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified	see location
A5	Wax	Max Frank GmbH & Co. KG	0%				see location
A6	Grease	Max Frank GmbH & Co. KG	0%				see location

^{*} see explanation "Location Valuation Factor" on page 10



EQ Credit 2: Low Emitting Materials 1/4

Intent

To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

Requirement

This credit includes requirements for product manufacturing as well as project teams. It covers volatile organic compound (VOC) emissions into indoor air and the VOC content of materials, as well as the testing methods by which indoor VOC emissions are determined. Different materials must meet different requirements to be considered compliant for this credit

Category	Requirement			
lataria anista and soutions and indicates	General Emissions Evaluation for paints and coatings applied to walls, floors, and ceilings			
Interior paints and coatings applied on site	VOC content requirements for wet applied products			
Interior adhesives and sealants applied on site including flooring	General Emissions Evaluation			
adhesive	VOC content requirements for wet applied products			
Flooring	General Emissions Evaluation			
	Composite Wood Evaluation			
Composite wood	Proof: ultra-low-emitting formaldehyde (ULEF), no added formaldehyde resins (NAUF) or salvaged and			
	reused wood			
Ceilings, walls, thermal, and acoustic insulation	General Emissions Evaluation			
Furniture (include in coloulations if	Furniture Evaluation			
Furniture (include in calculations if	Proof: ANSI/BIFMA e3-2011 §7.6.1, ANSI/BIFMA e3-2011 §7.6.2, CDPH Standard Method v1.1-2010 or			
part of scope of work)	salvaged or reused furniture			

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	General Information			Option 1:	Optio			
				Product Category Calculations	Budget Calcu	lation Method	Inherently	
No.	Product name	Manufacturer	Mass [%]	Category	Assembly Type	Emissions Criteria	Nonemitting	
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%		see below			
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	N/A	N/A	N/A	N/A	
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	N/A	N/A	N/A	N/A	
A3	HPDE	Max Frank GmbH & Co. KG	5%	N/A	N/A	N/A	N/A	
A4	LDPE	Max Frank GmbH & Co. KG	0%	N/A	N/A	N/A	N/A	
A5	Wax	Max Frank GmbH & Co. KG	0%					
A6	Grease	Max Frank GmbH & Co. KG	0%					

EQ Credit 2: Low Emitting Materials 2/4

Detailed Rating

	General Information			General Emissions Evaluation		VOC Content				00
No.	Product name	Manufacturer	Mass [%]	Criteria Met	TVOC Range after 14 days	Regulation	Product Type	VOC [g/l] Allowable	VOC [g/l] Actual	Compliance
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%			see l	below			✓
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	N/A *	N/A	N/A	N/A	N/A	N/A	✓
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	N/A	N/A	N/A	N/A	N/A	N/A	\checkmark
A3	HPDE	Max Frank GmbH & Co. KG	5%	N/A	N/A	N/A	N/A	N/A	N/A	\checkmark
A4	LDPE	Max Frank GmbH & Co. KG	0%	N/A	N/A	N/A	N/A	N/A	N/A	\checkmark
A5	Wax	Max Frank GmbH & Co. KG	0%							
A6	Grease	Max Frank GmbH & Co. KG	0%							

Other remarks on classification

EQ Credit 2: Low Emitting Materials 3/4

	General Information			Composite Wood	lwo
No.	Product name	Manufacturer	Mass [%]	Criteria Met	Compliance
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	see below	0
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	N/A	0
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	N/A	0
А3	HPDE	Max Frank GmbH & Co. KG	5%	N/A	0
A4	LDPE	Max Frank GmbH & Co. KG	0%	N/A	0
A5	Wax	Max Frank GmbH & Co. KG	0%		
A6	Grease	Max Frank GmbH & Co. KG	0%		

^{*}The product does not fall under any category and therefore under no requirement. Thus, the product contributes to fullfill this criteria.



EQ Credit 2: Low Emitting Materials 4/4

	General Information			Furniture	Com
No.	Product name	Manufacturer	Mass [%]	Criteria Met	Compliance
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%	see below	0
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	N/A	0
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	N/A	0
А3	HPDE	Max Frank GmbH & Co. KG	5%	N/A	0
A4	LDPE	Max Frank GmbH & Co. KG	0%	N/A	0
A5	Wax	Max Frank GmbH & Co. KG	0%		
A6	Grease	Max Frank GmbH & Co. KG	0%		

Location Valuation Factor

Information

Several credits in the MR section include a location valuation factor, which adds value to locally produced products and materials. The intent is to incentivize the purchase of products that support the local economy. Products and materials that are extracted, manufactured, and purchased within 100 miles (160 kilometers) of the project are valued at 200 % of their cost. For a product to qualify for the location valuation factor, it must meet two conditions: all extraction, manufacture, and purchase (including distribution) of the product and its materials must occur within that radius, and the product (or portion of an assembled product) must meet at least one of the sustainable criteria (e.g. FSC certification, recycled content) specified in the credit. Products and materials that do not meet the location criteria but do meet at least one of the sustainability criteria are valued 100 % of their cost (i.e. the valuation factor is 1).

The distance must be measured as the crow flies, not by actual travel distance. The point of purchase is considered the location of the purchase transaction. For online or other transactions that do not occur in person, the point of purchase is considered the location of product distribution.

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	General Information			Location						
No.	Product name	Manufacturer	Mass [%]	Extraction	Manufacture	Purchase (including distribution)				
	Egcodorns and Egcodubel	Max Frank GmbH & Co. KG	100%		Oouble weighting depends on building s	ite				
A1	Steel/Stainless Steel	Max Frank GmbH & Co. KG	95%	not specified	not specified	not specified				
A2	Siliconrubber	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified				
A3	HPDE	Max Frank GmbH & Co. KG	5%	not specified	not specified	not specified				
A4	LDPE	Max Frank GmbH & Co. KG	0%	not specified	not specified	not specified				
A5	Wax	Max Frank GmbH & Co. KG	0%							
A6	Grease	Max Frank GmbH & Co. KG	0%							



Notice:

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