Product Declaration - DGNB New Construction Office and Administration Buildings (NBV12)

MANUFACTURER	GEZE GmbH
PRODUCT NAME	Slimchain

Product Characteristics

Electric chain drive for a smoke and heat extraction system for daily aeration and ventilation as well as safe and fast smoke and heat exhaust and smoke extraction on vertically installed, inward and outward opening bottom-hung, top-hung and side-hung casements. Direct opener in 24 V version, drive is actuated via a microprocessor. The drive is equipped with electronic end position cut-off and overload protection and has electronically regulated soft start and soft stop. Synchronised multiple operation of up to 3 drives must be guaranteed without additional external module. Activation and adjustment of the synchro function is by means of integrated DIP switches without additional programming being necessary. Automatic switch-off when the end position is reached. Overload protection when opening and closing. Sealing via electronically defined pressure. Stroke: 300/500 and 800 mm Tensile force/pressure: 300 N/max. 200 N, stroke-dependent Voltage: 24 V DC / 230V with external mains adapter

Product Rating

• The product meets the requirements of quality level 1 to 4 and contributes to achieve 100 (of max. 100 achievable) checklist points according to criterion 'ENV1.2 Local Environmental Impact'.

• The product does not lead to toxic or corrosive fumes in case of fire. Hence this product contributes to achieve 20 (of max. 20 achievable) checklist points according to criterion 'SOC 1.7 Safety and Security'.

The product contains the following components:	Mass per unit [%]
K1 Steel parts	31%
K2 Aluminium	13%
K3 Copper	3%
K4 Zinc die-cast	45%
K5 Plastics	8%

About DGNB Products - www.dgnb.de

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MANUFACTURER	GEZE GmbH
PRODUCT NAME	Slimchain

Product assessment of complete system

Topic Number		Criteria		Evaluation	
		Life cycle Assessment - Emissions	Relevance	Evaluation	
	ENV1.1 ENV1.2	Local environmental impact	\checkmark	Quality Level 4 is fulfilled	
	ENV1.3.1	Responsible procurement (Wood)			
	ENV1.3.2	Responsible procurement (Formwork)			
Environmental Quality (ENV)	ENV1.3.3	Responsible procurement (Natural Stone)			
	ENV2.1	Life cycle Assessment - Primary Energy			
	ENV2.2	Potable water demand and wastewater volume			
	ENV2.3	Land Use			
	ECO1.1	Building-related life-cycle costs			
Economic Quality (ECO)	ECO2.1	Suitability for conversion			
	ECO2.2	Marketability			
	SOC1.1	Thermal Comfort			
	SOC1.2	Indoor Air Quality			
	SOC1.3	Acoustic Comfort			
	SOC1.4	Visual Comfort			
	SOC1.5	Occupant control			
	SOC1.6	Quality of outdoor spaces			
Sociocultural and Functional Quality (SOC)	SOC1.7	Safety and security	\checkmark	The product does not lead to toxic or corrosive fumes in case of fire	
	SOC2.1	Access for all			
	SOC2.2	Public access			
	SOC2.3	Cyclist facilities			
	SOC3.1	Design and urban quality			
	SOC3.2	Integration of public art			
	SOC3.3	Floor Plan Qualities			
	TEC1.1	Fire prevention			
	TEC1.2	Noise protection			
	TEC1.3	Building envelope quality			
Technical Quality (TEC)	TEC1.4	Adaptability of Technical Systems			
	TEC1.5	Ease of cleaning and maintenance			
	TEC1.6	Ease of dismantling and recycling			
	TEC1.7	Sound immission control			
	PRO1.1	Comprehensive project brief			
	PRO1.2 PRO1.3	Integral design Design concept			
	PRO1.4	Sustainability aspects in tender phase			
Process Quality (PRO)	PRO1.5	Documentation for Facility Management			
	PRO2.1	Environmental impact of construction			
	PRO2.2	Construction quality assurance			
	PRO2.3	Systematic commissioning			
	SITE1.1	Site location risks			
Site Quality (SITE)	SITE1.2	Public image and social conditions			
	SITE1.3	Access to transportation			
	SITE1.4	Access to specific-use facilities			

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	MANUFACTURER
PRODUCT NAME Slimchain	PRODUCT NAME

Product assessment for criteria ENV1.2 - Local environmental impact

The product fulfills the requirements for Quality Level 1-4

Assessment: Quality Level 4

Goals and Relevance

Certain materials, construction products and preparations are a risk for soil, air, groundwater and surface water as well as for human's health, flora and fauna. In order to minimize risks for humans and the local environment, materials, (construction) products and preparations need to be reduced ,avoided or substituted, which due to their material properties or ingredients are a risk for surface and ground water, soil or air. Especially those materials, (construction) products and preparations must be reduced ,avoided or replaced, which affect human health, flora and fauna or harm within a short-, medium / or long-term period . This affects the entire life cycle - from production, processing at site, use of (building) inventory and disposal (dismantling, recycling, landfilling). These local risks are assessed material and product related. Hence eco-and human toxicological impact categories of LCA can not be applied due to lack of evaluation and measurement procedures.

Product Assessment

	Relevant Products	Require	ments of Quality Levels	Assessement of Product	Evaluation
26	Panels made of aluminum and stainless steel on the facade and the roof (sun protection systems	Quality Level 1	No requirements		
	are not currently considered)	Quality Level 2	No requirements	Use of chromium-VI-free passivation	
-	Subject: Products to passivation of aluminum and stainless steel	Quality Level 3	Chromium VI-free passivation	agents	Quality Level 4
		Quality Level 4	Chromium VI-free passivation		
	Relevant Products	Require	ments of Quality Levels	Assessement of Product	Evaluation
27	Factory coated metal components: cladding, doors, radiators, heating and cooling ceilings.	Quality Level 1	No use of lead, cadmium and chromium VI compounds		
	Hot-dipped galvanizing are not considered as coatings for the purposes of this criterion.	gs for the Quality Level 2 chromium VI compounds	No use of lead, cadmium and	Quality Level 4	
	Subject: Primer and finish coat (for example, paints, varnishes,	Quality Level 3	No use of lead, cadmium and chromium VI compounds	chromium VI compounds	
	powder coatings)	Quality Level 4	No use of lead, cadmium and chromium VI compounds		

Relevant Products		Requirements of Quality Levels		Assessement of Product	Evaluation
28	Plastics for coating of surfaces (floor and wall) and components on the facade	Quality Level 1	Content of lead and tin <0.1%		
		Quality Level 2	Content of lead and tin <0.1%	The lead and tin content of the	
		Quality Level 3	Content of lead and tin <0.1%	plastics used is <0.1%	Quality Level 4
		Quality Level 4	Content of lead and tin <0.1%		

Other remarks on classification

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The product fulfills the re	quirments for prevention of fumes.	Assessment: 20 of 20 Checklist Points		
Product assessment for criteria SOC1.7 - Safety and Security				
PRODUCT NAME	Slimchain			
MANUFACTURER	GEZE GmbH			

Goals and Relevance

A high sense of security contributes fundamentally to the comfort of human being. The goal is to avoid dangerous situations as much as possible and to reduce the impact of a non-preventable damage, as far as possible. The criterion safety and security assesses also the performance of products in case of fire.

Product Assessment

		Relevant Requirements	Requirements of Quality Levels	Assessement of Product	Evaluation
2	2.3	Prevention from risks of fumes	20 Checklist Points The product does not lead to toxic or corrosive fumes in case of fire	The product does not lead to toxic or corrosive fumes in case of fire.	20 Checklist Points

Other remarks on classification