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

MANUFACTURER	GEZE GmbH
PRODUCT NAME	Power lock

Product Characteristics

Electrical locking drive for the safe locking and unlocking of vertically installed and inward opening bottomhung, top-hung and side-hung casements as well as outward opening top-hung casements. Modular system with set on electric drive with integrated sequence control in combination with the GEZE electric chain drives Slimchain, Powerchain and the electric spindle drive E 250 NT Locking and unlocking of window casements through driver pins on the central closure. Automatic adjustment of final position, variable installation for casement or frame installation, drive can be mounted on the left and right, drive can be unlocked even in the closed position. Locking stroke: 22 mm Tensile force/pressure: max. 600 N Voltage: 24 V GEZE locking drive Power lock is suitable for installation in tested and certified GEZE SHEVs in accordance with EN 12101-2.

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	33%
K2 Aluminium	22%
K3 Copper	14%
K4 Zinc die-cast	16%
K5 Plastics	15%

About DGNB Products - www.dgnb.de

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Product assessment of complete system

Торіс	Number	Criteria	Relevance	Evaluation	
_	ENV1.1	Life cycle Assessment - Emissions			
_	ENV1.2	Local environmental impact	\checkmark	Quality Level 4 is fulfilled	
	ENV1.3.1	Responsible procurement (Wood)			
Environmental Quality (ENV)	ENV1.3.2	Responsible procurement (Formwork)			
	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			
	PR01.1	Comprehensive project brief			
	PR01.2	Integral design			
_	PRO1.3	Design concept			
Process Quality (PRO)	PRO1.4	Sustainability aspects in tender phase			
	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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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) Subject: Products to passivation of aluminum and stainless steel	Quality Level 2	No requirements	Use of chromium-VI-free passivation	
		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. Hot-dipped galvanizing are not considered as coatings for the purposes of this criterion.	Quality Level 1	No use of lead, cadmium and chromium VI compounds		
		Quality Level 2	No use of lead, cadmium and chromium VI compounds	No use of lead, cadmium and	Quality Level 4
	Subject: Primer and finish coat (for example, paints, varnishes, powder coatings)	Quality Level 3	No use of lead, cadmium and chromium VI compounds	chromium VI compounds	
		Quality Level 4	No use of lead, cadmium and chromium VI compounds		
	Relevant Products	Require	ments 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 4
		Quality Level 3	Content of lead and tin <0.1%	plastics used is <0.1%	
		Quality Level 4	Content of lead and tin <0.1%		

Other remarks on classification

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The product fulfills the requi	irments for prevention of fumes.	Assessment: c	20 of 20 hecklist Points	
Product assessment for criteria SOC1.7 - Safety and Security				
PRODUCT NAME	Power lock			
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	vant Requirements of Quality Levels		Evaluation
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