

# 102 Camley street, London Material Appraisal Form (MAF) MAF No.: SK-MAF-DOOR AUTOMATIC Rev. 1

Prepared by: Vitalijs Ragina Approved by: Imants Leitis Company: Skonto Enterprises UK

Dated: 08.06.2017

01	Vitalijs Ragina	Imants Leitis	08.06.2017
Revision	Prepared by	Approved by	Date













Project:	102 Camley street, London	MAF No.: SK-MAF-DOOR AUTOMATIC
Recipient	t: Powel Dobson Architects	

Please appraise the following materials which are proposed to be incorporated into our works:

Material/Description						
Geze powerturn automatic for Type14 and GF doors						
Compliance with specification:   ☐ Fully Compliant ☐ Partly com	pliant (comments below)					
Appendices						
1. Product Declaration - DGNB New Construction Office and Admir (NBV12)	nistration Buildings					
2. Product Declaration - LEED® 2009 New Construction And Major	Renovations NC & CS					
Please approve these materials and confirm that our proposed application is ac your earliest convenience but certainly within 10 working days of the submittal	•					
Filled by recipients' representative  The above materials are: $\Box$ Accepted (A) / $\Box$ Accepted with comments (B) / $\Box$	$\square$ Not accepted (C)					
Comments						
Comments						
Approved by (name/last name):	Date:					
Position:						
Company: Powel Dobson Architects						











Appendix No.: 1

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

MANUFACTURER	GEZE GmbH
PRODUCT NAME	Automatic swing door drive family Powerturn

#### **Product Characteristics**

Low-noise electromechanical swing door drive for internal and external doors (single or double leaf, 70 mm overall height, with hold-open mechanism in accordance with DIN 18 263 Part 4, prepared for connection to release device, with adjustable spring force EN size 4-7, tested and certified in accordance with DIN 18650 and EN16005. Due to Smart swing function suitable to open doors manually without great effort (DIN 18040 optimized) with intelligent digital control (Category 2 in accordance with DIN EN 954-1 and Performance Level "d" in accordance with DIN EN ISO 13849-1). The product supports all 6 installation types, is available in 2 standard and each RAL color.

The product classification is only valid for versions with water-dilutable coating.

#### **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	48%
K2 Aluminium	12%
K3 Copper	19%
K4 Zinc die-cast	18%
K5 Plastics	3%
K6 Lacquer	0%

### About DGNB Products - www.dgnb.de

This declaration helps to assess products easily according the certification system DGNB. Products are not reviewed or certified by DGNB. DGNB credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. Therefore the project team or the manufacturer is responsible to declare the compliance with the project requirements to achieve DGNB points. Detailed information are on the next pages.



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

MANUFACTURER GEZE GmbH

PRODUCT NAME Automatic swing door drive family Powerturn

#### Product assessment of complete system

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Topic	Number	Criteria	Relevance	Evaluation
	ENV1.1	Life cycle Assessment - Emissions		
	ENV1.2	Local environmental impact	<b>✓</b>	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		
	PRO1.1	Comprehensive project brief		
	PRO1.2	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		
Oite Overlin (OITE)	SITE1.2	Public image and social conditions		
Site Quality (SITE)	SITE1.3	Access to transportation		
	SITE1.4	Access to specific-use facilities		

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

MANUFACTURER GEZE GmbH

PRODUCT NAME Automatic swing door drive family Powerturn

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	Relevant Products Requirements of Quality Levels		Assessement of Product	Evaluation
14	Non-structural metal components such as stair railings, metal framing, frames, steel doors, facade elements etc.  Subject: Anti-corrosion coatings and special effect coatings (eg metallic effect paints)	Quality Level 1  Quality Level 2	VOC-Content < 300 g/l - according to category D of VOC- Guideline 2004/42/EG VOC-Content < 300 g/l - according to category D of VOC- Guideline 2004/42/EG		
		Quality Level 3  Quality Level 4	Waterborne products VOC <140 g / I Exception: Metallic effect coatings <300 g / I - Category A / d according to VOC-guideline 2004/42 / EC	VOC-Content < 140 g/l (129 g/l)	Quality Level 4

	Relevant Products	Requirer	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 4
		Quality Level 3	Chromium VI-free passivation	agents	
		Quality Level 4	Chromium VI-free passivation		

	Relevant Products	Requirements 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.	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,	Quality Level 3	No use of lead, cadmium and chromium VI compounds	chromium VI compounds	200, 2010.
	powder coatings)	Quality Level 4	No use of lead, cadmium and chromium VI compounds		

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

MANUFACTURER	GEZE GmbH
PRODUCT NAME	Automatic swing door drive family Powerturn

	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	Overlite Level 4
		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

For buildings that are certified according to DGNB, it must be ensured that only water dilutable coatings are used.



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

MANUFACTURER GEZE GmbH

PRODUCT NAME Automatic swing door drive family Powerturn

Product assessment for criteria SOC1.7 - Safety and Security

The product fulfills the requirments for prevention of fumes.

Assessment: 20 of 20 Checklist Points

#### **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
2.3	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

Appendix No.: 2 1 of 4

## Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer GEZE GmbH

Product Name Automatic swing door drive family Powerturn

### **Product Rating**

• The product contains 12% recycled materials and contribute to achieve LEED credits within MR Credit 4.

Indoor Environmental Quality (IEQ) - L	EED Category		
IEQ Credit 4.1: Low Emitting Materials:	Adhesives and Sealants	1 Point	0
IEQ Credit 4.2: Low Emitting Materials:	Paints and Coatings	1 Point	0
IEQ Credit 4.3: Low Emitting Materials:	Flooring Systems	1 Point	0
IEQ Credit 4.4: Low Emitting Materials:	Composite Wood and Agrifiber Products	1 Point	0
Materials and Resources (MR) - LEED	Category		
MR Credit 4: Recycled Content		1-2 Points	12%
MR Credit 5: Regional Materials		1-2 Points	See Location
MR Credit 6: Rapidly Renewable Mate	terials	1 Point	0
MR Credit 7: Certified Wood		1 Point	0

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The product classification is only valid for versions with water-dilutable coating.

# 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

**Detailed Rating** 

Appendix No.: 2 2 of 4

Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

**GEZE GmbH** Manufacturer

Automatic swing door drive family **Product Name Powerturn** 

2	Droduot Name	Manufacturer	Mass per	VOC in	VOC-	Flooring	Composite	Recycled Content	Content	Regional Materials	//aterials	Rapidly	Certified
2		מינות	<b>%</b>	l/g	g/l	Systems	product	Post- Consumer	Pre- Consumer	Location Harvesting/ Extraction	Location Manufacturing	Material	Wood
A	Steel parts	GEZE GmbH	~ 48.1%	N/A	N/A	N/A	N/A	25%**	%0	Not specified	Not specified	N/A	N/A
A2	Aluminium	GEZE GmbH	~ 12.2%	N/A	N/A	N/A	A/N	Not specified	Not specified	Not specified	Not specified	A/N	N/A
A3	Copper	GEZE GmbH	~ 18.5%	N/A	A/N	N/A	N/A	Not specified	Not specified	Not specified	Not specified	N/A	N/A
A4	Zinc die-cast	GEZE GmbH	~ 17.7%	N/A	N/A	N/A	N/A	Not specified	Not spedified	Notspecified	Not specified	A/A	N/A
A5	Plastics	GEZE GmbH	~ 3.1%	N/A	N/A	N/A	N/A	Not specified	Not specified	Notspecified	Not specified	A/A	N/A
A6	Lacquer	GEZE GmbH	~ 0.3%	A/N	N/A	N/A	N/A	Not specified	Not specified	Not specified	Not specified	N/A	N/A
A7													
A8													
A9													
A10													
	Automatische Drehtürantriebs Familie Powertum	GEZE GmbH	100.0			0	0	12.0% -	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.	& Extraction' and dius of 500 miles of the butes to the credit.	0	0
*	/alues are based on the un	*All values are based on the unit:1 element **LEED default recycled content for steel	ault recycled	content fo	r steel								

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Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer GEZE GmbH

Product Name Automatic swing door drive family Powerturn

# 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 Post-	Content Pre-	Contribution of Product	
			Consumer	Consumer		
A1	Steel parts	GEZE GmbH	25%**	0%	Accountable recycled content according to LEED is 25% (1 x Post-Consumer + 0.5 x Pre-Consumer).  **LEED default recycled content for steel	25%
A2	Aluminium	GEZE GmbH	Not specified	Not specified	No recycled content specified.	_
А3	Copper	GEZE GmbH	Not specified	Not specified	No recycled content specified.	_
A4	Zinc die-cast	GEZE GmbH	Not specified	Not specified	No recycled content specified.	_
A5	Plastics	GEZE GmbH	Not specified	Not specified	No recycled content specified.	_
A6	Lacquer	GEZE GmbH	Not specified	Not specified	No recycled content specified.	_

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Product Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer GEZE GmbH

Product Name Automatic swing door drive family Powerturn

## 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**

nufacturing	Location Manufactu	Location Harvesting/ Extraction	Manufacturer	Product Name	No
ecified	Not specified	Not specified	GEZE GmbH	Steel parts	A1
ecified	Not specified	Not specified	GEZE GmbH	Aluminium	A2
ecified	Not specified	Not specified	GEZE GmbH	Copper	А3
ecified	Not specified	Not specified	GEZE GmbH	Zinc die-cast	A4
ecified	Not specified	Not specified	GEZE GmbH	Plastics	A5
ecified	Not specified	Not specified	GEZE GmbH	Lacquer	A6
eci	Not speci	Not specified	GEZE GmbH	Lacquer	A6