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

MANUFACTURER	MKT GmbH & Co.KG
PRODUCT NAME	MKT expansion anchors and adhesive anchor rods in steel zinc plated

## **Product Characteristics**

Expansion anchors and adhesive anchor rods made of zinc plated steel to be installed into a drill hole or mortar filled drill hole for fixings into concrete and/or masonry, designed according to European Technical Approval, European Technical Assessment or test report.

## **Product Rating DGNB Criteria**

• 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 MKT expansion anchors and adhesive anchor rods in steel zinc plated	100%	
About DGNB Products - www.dgnb.de		

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#### Product assessment of complete system

			Relevance	
Торіс	Number	Criteria	Rel	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		
Sociocultural and	SOC1.6	Quality of outdoor spaces		The product does not lead to toxic or corrosive fumes in case
Functional Quality (SOC)	SOC1.7	Safety and security	$\checkmark$	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		
	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		
	PRO2.1	Construction quality assurance		
	PRO2.2 PRO2.3	Systematic commissioning		
	SITE1.1	Site location risks		
	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 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	Requirements of Quality Levels	Assessement of Product	Evaluation
There are no requirements for the product.			

Other remarks on classification

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Product assessment for criteria SOC1.7 - Safety and Security			

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**Checklist Points** 

The product fulfills the requirments for prevention of fumes.

# **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