



# DESIGNBOARD 310 CREATIVE

The decorative board for the wet room

## Product description

### Board type

DESIGNBOARD 310 CREATIVE acc. to EN 15102 consists of a moisture-resistant carrier board and is coated with a printed design and a surface finish.

### Storage

Flat on board pallets

### Quality

In compliance with DIN EN 15102, the product is subject to an initial test as well as continuous production monitoring in the plant, and carries the CE mark.

## Properties and added value

- Painted at the factory
- Suitable for use indoors as a building product
- Universally applicable
- Durable surface, resistant to chemicals, resistant to scratches and abrasion
- Water-repellent material
- Simple to process with using standard power tools
- Significantly lighter than tiles or natural stone
- Ideally suited for fast renovations by sticking on top of old tiles
- Large-format panels
- Outstanding interior air quality
- Concealed connection using Königsfuge joint

## The decorative board for the wet room

### Application area

DESIGNBOARD 310 CREATIVE is used in all areas of high-quality interior design as well as drywall systems with exacting design requirements. The embellished surfaces of DESIGNBOARD 310 CREATIVE enable individual designs to be achieved, meaning that tomorrow's requirements can be met today. The requirements fulfilled by DESIGNBOARD 310 CREATIVE include water repellence and sturdiness, as well outstanding design flexibility. Ideally suitable for use in areas subject to building regulations in which minimum thickness and weight are required, as well as fast renovations. DESIGNBOARD 310 CREATIVE can be fitted as wall lining <sup>1)</sup> and with our DESIGNBOARD FIX substructure as ceiling lining <sup>2)</sup>.

For example in:

- Public buildings
- Wet rooms and bathrooms
- Hospitals
- High-rise buildings

### Applicability

- Wall lining <sup>1)</sup>
- Ceiling lining and suspended ceilings <sup>2)</sup>

1) see also technical brochure *Tro180.de*

2) see also technical brochure *Tro179.de*

### Processing

DESIGNBOARD 310 CREATIVE can be sawn, milled, drilled, cut to shape, trimmed and cropped with the standard machine tools for woodworking and attachments for metal and aluminium. Precautionary measures are required to prevent scratches, such as maintaining a clean workplace and working on the back of the board material. Hand deburring tools with rotating blades or grinding pads are to be used for tidying up edges or for deburring.

**Technical data**

DESIGNBOARD 310 CREATIVE	Unit	Untrimmed size	Panel	Standard
Standard formats	mm	3050 x 1250 2500 x 1250	3030 x 1230 2480 x 1230	–
Thicknesses	mm	3	3	–
Dimensional tolerances				–
Length	mm/m	- 0.0 / + 4.0	+/- 0.4	
Width	mm/m	- 0.0 / + 4.0	+/- 0.35	
Thickness	mm	+/- 0.3	+/- 0.3	
Diagonal difference (rectangularity)	mm	2.0	+/- 2.0	
Edge configuration		Unprocessed	Long side with Königsfuge joint	–
Reaction to fire	Class		E	DIN EN 13501-1
Alloy/hardness of the aluminium coatings		17	EN AW-3105/ H44	DIN 485
Core Polyethylene density	g/cm <sup>3</sup>		0.92	–
Hygrothermal installation conditions	°C % r.h.	-20 – +60 30 – 90	-20 – +60 30 – 90	–
Hygrothermal usage conditions	°C % r.h.	-20 – +60 30 – 90	-20 – +60 30 – 90	–
Linear heat expansion with a temperature difference of 100°C	mm/(m)		2.40	–
Tensile strength of the aluminium coating layers <sup>1)</sup>	N/mm <sup>2</sup>		150 – 200	–
Modulus of elasticity <sup>1)</sup>	N/mm <sup>2</sup>		70000	–
Behaviour under chemical stress <sup>2)</sup>	Degree		1B (5 no visible changes)	DIN 68861-1
Evaluation of surfaces exposed to cold liquids <sup>2)</sup>	Degree		5 (no change)	EN 12720
Behaviour when exposed to abrasion <sup>2)</sup>	Degree		2A (> 650 r.p.m)	DIN 68861-2
Behaviour when exposed to scratching <sup>2)</sup>	Degree		4B (2-4 N)	DIN 68861-4
Behaviour when exposed to dry heat <sup>2)</sup>	Degree		7A (180°C)	DIN 68861-7
Behaviour when exposed to dry heat <sup>2)</sup>	Degree		7A (180°C)	EN 127222
Behaviour when exposed to moist heat <sup>2)</sup>	Degree		8A (100°C)	DIN 68861-8
Behaviour when exposed to moist heat <sup>2)</sup>	Degree		8A (100°C)	EN 12721
Coating materials - cross cutting test <sup>2)</sup>	Characteristic value		0 – 1	DIN EN ISO 2409
Resistance to impact stress	N		≥ 30N	EN 438-2 section no. 20
Light resistance <sup>2)</sup>	Degree		5 (no visible changes)	DIN EN 15187
Climate cycle test <sup>2)</sup> 1 cycle: 4h +60°C at 30%RH; 4h +60°C at 90%RH; 4h -20°C	Cycles		56	Company standard

1) Carrier board

2) Surface finish

## Non-polluting properties: Evaluation of the eurofins emissions test results

DESIGNBOARD 310 CREATIVE			
Regulation or protocol	Conclusion		
French VOC regulation	A+	after 28 days	Below the evaluation limit
French CMR components	Met	after 28 days	Below the evaluation limit
AgBB	Met	after 3 and 28 days	Below the evaluation limit
Belgian regulations	Met	after 28 days	Below the evaluation limit
EMICODE	EC 1 PLUS	after 3 and 28 days	Below the evaluation limit
Indoor Air Comfort	Met	after 3 and 28 days	Below the evaluation limit
EN 717-1	E1	after 28 days	Below the evaluation limit
BREEAM International	Compliant	GN22: BREEAM Recognised Schemes für VOC Emissions from Building Products	
LEED v4 (outside U.S.)	Compliant	LEED v4 for Building Design and Construction (April, 2015)	
Carcinogenic substances <sup>1)</sup>	after 3 and 28 days		Not identifiable
TVOC <sup>2)</sup>	after 3 and 28 days		Below the evaluation limit
SVOC <sup>3)</sup>	after 28 days		Below the evaluation limit
VOC <sup>4)</sup> -individual substances Rd and Ra	after 28 days		Below the evaluation limit
VOC <sup>4)</sup> -individual substances without NIKD	after 28 days		Below the evaluation limit
Formaldehyde	after 28 days		Below the evaluation limit

1) Carcinogenic substances = substances which can cause cancer

2) TVOC = total volatile organic compounds

3) SVOC = semivolatile organic compounds

4) VOC = volatile organic compounds

The VOC emissions have been tested on the product and meet the requirements of national regulations in Europe.



**Comply with safety data sheet!**

Safety data sheets and CE marking, see

[www.knauf-design.com](http://www.knauf-design.com)



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