Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-20/0892 of 23 September 2024

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	MEISTERPaneele
Product family to which the construction product belongs	Composite-based panels for indoor wall and ceiling design
Manufacturer	MeisterWerke Schulte GmbH Johannes-Schulte-Allee 5 59602 Rüthen / Meiste DEUTSCHLAND
Manufacturing plant	
This European Technical Assessment contains	8 pages including 1 annex which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	210058-00-0504
This version replaces	ETA-20/0892 issued on 30 November 2021

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Specific part

1 Technical description of the product

The construction product is a non-load bearing composite-based panel used for decorative indoor wall design and/or indoor ceiling design, in the following referred to as composite-based panel.

The composite-based panels consist of a central core layer made of wood-based panels (medium-density fibreboard – MDF) associated with a printed decorative layer and a coating.

The possible product assembly is mentioned below:

- coating (varnish or melamine resin),
- printed decorative layer (paper, PP-foil) as well as
- central core layer made of wood-based panels (MDF)

The milled front edges of the elements are covered with a stamping foil (moderna Nut-Feder-Paneel without stamping foil). No flame retardants are added to the wood-based panels.

This European Technical Assessment is applicable for composite-based panels of different dimensions (width and length), thicknesses and area weights. The respective dimensions, total thicknesses and total basis weights of the composite boards are listed in Annex 1.

For mounting the composite-based panels to the wall and/or ceiling a fixing with ventilation gap and movement joint to the walls and other fixed components is recommended, on e.g. wooden battens or metal bars as substructure, using mechanic connectors as e.g. screws, screw claws and mounting clamps. The manufacturer's instructions for mounting have to be considered adequately.

The composite-based panels are joined by a smooth tongue and groove connection and can contain design joints.

Decorative for finishing corners and/or edges can be used - they are not part of this European Technical Assessment as well as any thermal insulation that may be used. Also the substructure is not part of this European Technical Assessment.

The European Technical Assessment has been issued for the products on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik (DIBt). The European Technical Assessment applies only to products corresponding to this agreed data/information.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The composite-based panels are intended to be used for decorative purposes as non-load bearing component for internal wall and/or indoor ceiling finishes. The panels are also intended for the use in wet rooms. Exposition to direct water is not intended.

A partial cladding of only a single or parts of a single wall and/or ceilings is conceivable.

The performances given in Section 3 are only valid if the composite-based panels are used in compliance with the specifications and conditions given in clause 1.2.1 of the corresponding European Assessment Document 210058-00-0504.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the composite-based panels of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire test according to EN ISO 11925-2:2020	Class E according to EN 13501-1:2018
Propensity to undergo continuous smouldering	NPA

3.2 Hygiene, health and the environment (BWR 3)

<table>
<tr><th>Essential characteristic</th><th colspan="3">Performance</th></tr>
<tr><td colspan="4">Content, emission and/or release of dangerous substances</td></tr>
<tr><td>Substances classified as Carc. 1A/1B[a)]</td><td colspan="3" rowspan="3">None of these raw materials are actively used in the manufacture of the construction product.[b)]</td></tr>
<tr><td>Substances classified as Muta. 1A/1B[a)]</td></tr>
<tr><td>Substances classified as Acute Tox. 1, 2, 3; Repr. 1A/1B; STOT SE 1 and STOT RE 1[a)]</td></tr>
<tr><td rowspan="7">SVOC and VOC</td><td colspan="3">The products "bocado DP 200", "bocado DP 300" and "terra DP 250" were tested representatively for the emission of dangerous substances, using the loading factor L = 1.4 m²/m³ for ceilings and walls.
The products achieved the following performances:[c)]</td></tr>
<tr><td></td><td>3 days</td><td>28 days</td></tr>
<tr><td>Carcinogens (Cat. 1A/1B)</td><td>< 0.01 mg/m³</td><td>< 0.001 mg/m³</td></tr>
<tr><td>TVOCspez</td><td>< 10 mg/m³</td><td>< 1.0 mg/m³</td></tr>
<tr><td>TSVOC</td><td></td><td>< 0.1 mg/m³</td></tr>
<tr><td>TVOC without NIK</td><td></td><td>< 0.1 mg/m³</td></tr>
<tr><td>R-value</td><td></td><td>< 1</td></tr>
<tr><td>Pentachlorophenol (wood based core layers)</td><td colspan="3">not relevant</td></tr>
<tr><td>Formaldehyde (central core layer material/MDF)</td><td colspan="3">E1</td></tr>
<tr><td colspan="4">Release scenarios regarding BWR 3: IA1</td></tr>
<tr><td colspan="4">[a)] In accordance with Regulation (EC) No 1272/2008.
[b)] Assessment based on the detailed manufacturers' statements on dangerous substances.
[c)] Statement according to test report.</td></tr>
</table>

3.3 Protection against noise (BWR 5)

Essential characteristic	Performance
Sound absorption coefficient α_s test according to EN ISO 354:2003	NPA
Sound absorption characteristics α_p and α_w test according to EN ISO 11654:1997	NPA

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance test according to EN 12664:2001	MeisterPaneele, terra DP 200, thickness 12 mm: 0.11 (m^2K)/W MeisterPaneele, bocado DP 250, thickness 12 mm: 0.12 (m^2K)/W

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

For the products covered by European Assessment Document 210058-00-0504 the applicable European legal act is: Decision 1998/437/EC for internal and external wall and ceiling finishes.

System 3 is to be applied with regard to the content, emission and/or and release of dangerous substances.

In addition, with regard to reaction to fire including propensity to undergo continuous smouldering, for products covered by European Assessment Document 210058-00-0504 the applicable European legal acts are: the aforementioned Decision as amended by Decision 2001/596/EC.

The system(s) is (are): 1, 3 or 4 (system 1 in case of classes A1 to C; system 3 in case of classes D and E; system 4 in case of class F).

Based on the determined test performance specified in clause 3.1, system 3 is to be applied with regard to reaction to fire.

For other uses than specified above the system is: 4

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 23 September 2024 by Deutsches Institut für Bautechnik

Dr. Astrid Gräff
Head of Section

beglaubigt:
Dr. Rabe

Trade name of the construction product **Annex 1**
"MEISTERPaneele"

Table - Dimensions, thicknesses and weights of the products

Product-name	**MEISTERPaneele**						
Collection	**terra DP 200**	**terra DP 250**	**tertio DP 200**	**tertio DP 250**	**bocado DP 200**	**bocado DP 250**	**bocado DP 300**
Width [mm]	200	250	200	250	200	250	300
Length [mm]	1280 2050 2600 3300 4100	1280 2050 2600 3300 4100	1280 2600	1280 2600	1280 2050 2600 3300 4100	1280 2050 2600 3300 4100	1280 2600
Thickness [mm]	12	12	9.5	9.5	12	12	12
Area weight [g/m²]	8.3	8.3	6.7	6.7	8.4	8.4	8.4
Joint	Invisible joint (rounded edges)	Discreet invisible-joint (rounded edges)	Invisible joint (rounded edges)	Invisible joint (rounded edges)	Invisible joint (rounded edges)	Discreet invisible-joint (rounded edges)	3 mm shadow joint
Assembly method	Tongue and groove connection for fastening with screw clamps on wooden slats or with mounting clamps on a metal slat profile	Tongue and groove connection for fastening with screw clamps on wooden battens or with mounting clamps on a metal batten profile	Tongue and groove connection for fastening with screw clamps on wooden slats	Tongue and groove connection for fastening with screw clamps on wooden slats	Tongue and groove connection for fastening with screw clamps on wooden slats or with mounting clamps on a metal slat profile	Tongue and groove connection for fastening with screw clamps/ special screws on wooden laths or with mounting brackets on a metal lath profile	Tongue and groove connection for fastening with screw clamps/ special screws on wooden laths or with mounting brackets on a metal lath profile

Trade name of the construction product **Annex 1**
"moderna Paneele"

Table - Dimensions, thicknesses and weights of the products

Product-name	**moderna Paneele**				
Collection	**moderna logifino**	**moderna logimo**	**moderna urbano**	**moderna Steckpaneel**	**moderna Nut-Feder-Paneel**
Width [mm]	190	262	262	190	190
Length [mm]	1300 2200 2600 3200	1300	1300 2600	1280 2600	2600
Thickness [mm]	10	10	10	8	8
Area weight [g/m²]	7.3	7.3	7.3	6.1	6.1
Joint	Rounded joint	Rounded joint	Mirco-bevel	Rounded joint	Face joint
Assembly method	Tongue and groove connection for fastening with screw claws on wooden slats	Tongue and groove connection for fastening with screw claws on wooden slats	Tongue and groove connection for fastening with screw claws on wooden slats	Tongue and groove connection for fastening with screw claws on wooden slats	Tongue and groove connection with alternating folded header for fastening with screw claws on wooden slats

Trade name of the construction product **Annex 1**

"Renova Paneele"

Table - Dimensions, thicknesses and weights of the products

Product-name	**Renovo Paneele**
Collection	
Width [mm]	190
Length [mm]	1300 2200 2600
Thickness [mm]	10
Area weight [g/m²]	7.3
Joint	Rounded joint
Assembly method	Tongue and groove connection for fastening with screw claws on wooden slats