

WALL COVERINGS

Self-declaration that the named products comply with the requirements for wall coverings as per BREEAM-NOR's chapter HEA 02

This form must be filled out by the MANUFACTURER of wall coverings according to NS-EN 15102:2007. Decorative wall coverings include:

- Wallcoverings in roll form
- Wallcoverings in panel form

Approved emission certificates are M1¹, EC 1² or SINTEF Technical Approval

If the product has one of the approved emission certificates, it is not necessary to fill in this form. Connect the emission certificate to the product in goBIM.

¹ Approved performance standard NS-EN 15251:2007, Annex C

² Approved performance standard GEV Emicode

It is important that the information given here is correct, and we strongly encourage thoroughness in researching the extent to which emission testing and/or test reports show that the product complies with the standards and emission limit values required by BREEAM-NOR 2016. If in doubt, the manufacturer should consult own internal and external experts. **Providing incorrect and misleading information can have legal consequences. Once filled-out, the form must be signed by a legally responsible person for the manufacturer, such as a technical director or a managing director.**

| | |
|---------------------|--|
| MANUFACTURER: | BTS BRANDENBURGER TAPETEN SCHWEDT GMBH |
| PRODUCT TRADE NAME: | ARISTO |
| PRODUCT ID: | NON-WOVEN WALLCOVERING |

The following is hereby confirmed by the manufacturer:

1. The product is in accordance with standard: NS-EN 15102:2007
2. The product has undergone an emission test³ which shows that its emissions are below the values⁴ shown in BREEAM-NOR 2016 "Table 15" according to the intended use of the product.

Table 15: Emission limits for all product categories – Conversion table

| Emission | Wall | | Floor/ceiling | | Sealants | |
|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | µg/m ² h | µg/m ³ h | µg/m ² h | µg/m ³ h | µg/m ² h | µg/m ³ h |
| TVOC 28d | 200 | 417 | 200 | 160 | 4260 | 60 |
| Formaldehyde 3d | 24 | 50 | 62.5 | 50 | 3550 | 50 |
| Formaldehyde 28d | 50 | 104 | 50 | 40 | 710 | 10 |
| Carcinogenic | 5 | 10 | 5 | 4 | 71 | 1 |

¹The emission test has been performed in accordance with the following approved standards ISO 16000-9 in combination with ISO 16000-6 (volatile organic compounds), ISO 16000-3 (formaldehyde). Testing and calculation shall be carried out according to EN 16516 Documentation (test in acc. with approved standard) can be requested if required.

⁴Show accordance with units µg/m³ or µg/m²h.

3. The product⁵ shows accordance⁶ with upper limit values for migration of heavy metals, of VCM and of formaldehyde release:

- Vinyl chloride monomer (VCM): Pass (substance < 0,2 mg/kg).
- Formaldehyde level < Pass (substance < 120 mg/kg)
- Migration of heavy metals > "Table 2" (NS-EN 15102:2007)
- Antimony - no upper limit
- Arsenic 25 mg/kg
- Barium 500 mg/kg
- Cadmium 25 mg/kg
- Chromium 60 mg/kg
- Lead 90 mg/kg
- Mercury 20 mg/kg
- Selenium 165 mg/kg

⁵Approved performance standard is NS-EN 15251: 2007 Annex C, NS-EN 233:1999, Section 5.7 – Finished wall papers , NS-EN 233:1999, section 5.7 – Wall vinyls and plastic wall covering , NS-EN 234:1997, section 9.0 – Wall papers for subsequent decoration, NS-EN 259-1:2001, section 4.5-4.7 - Heavy duty wall coverings

⁶ Carried out according to the following approved standards: NS-EN 12149:1998 – Wall coverings in roll form. Determination of migration of heavy metals and certain other elements, of vinyl chloride monomer and of formaldehyde release - Test A Heavy metals, Test B Vinyl chloride monomer, Test C Formaldehyde.

Legally responsible:

Eckhard Rütz

Position:

Company Manager

Date:

23.05.2019

Signature:

Rütz

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