

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

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European Technical Assessment

ETA-17/0243
of 10 April 2017

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

"CM ER 0725", "CM ER 1050", "Acoustic Floor Mat 31",
"Acoustic Floor Mat 33"

Product family
to which the construction product belongs

Polyurethane(PU) foam mat to be used for impact sound
insulation

Manufacturer

Getzner Werkstoffe GmbH
Herrenau 5
6706 BÜRS
ÖSTERREICH

Manufacturing plant

Getzner Werkstoffe GmbH
Herrenau 5
6706 BÜRS
ÖSTERREICH

This European Technical Assessment
contains

7 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

European Assessment Document (EAD)
040049-00-0502

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Specific part

1 Technical description of the product

This European Technical Assessment applies to the single-sided profiled polyurethane foam mats "CM ER 0725", "Acoustic Floor Mat 33", "CM ER 1050" and "Acoustic Floor Mat 31" for impact sound insulation under floating screeds, hereinafter referred to as impact sound insulation mats.

The impact sound insulation mats do not contain any recycling materials.

The impact sound insulation mats are produced with a nominal length of 1500 mm and a nominal width of 750 mm (preferred dimensions). Other nominal dimensions (> 750 mm) are possible.

The nominal thickness d_L is 16 mm.

The European Technical Assessment has been issued for the products on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik, which identifies the product that has been assessed. 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 impact sound insulation mats are used as insulation material on solid floor slabs for the improvement of impact sound insulation inside buildings. In this connection the impact sound insulation mats are placed in one layer under floating unheated screeds.

As to the application of the impact sound insulation mats, the respective national regulations shall additionally be observed.

The performance according to section 3 only applies if the impact sound insulation mats are installed according to the manufacturer's installation instructions and according to annex A and if they are protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the polyurethane foam mats 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

For sampling, conditioning and testing the provisions of the EAD No 040049-00-0502 "polyurethane (PU) foam mat to be used for impact sound insulation" apply.

3.1 Mechanical resistance and stability (BWR 1)

Not applicable.

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire test acc. to EN ISO 11925-2:2010	Class E acc. to EN 13501-1:2007 + A1:2009

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	
Substance(s) classified as EU-cat. Carc. 1A/1B (H350, H350i), in accordance with Regulation (EC) No 1272/2008.	The product does not contain these dangerous substances actively used. ^{a)}
Substance(s) classified as EU-cat. Muta. 1A/1B (H340), in accordance with Regulation (EC) No 1272/2008.	
Substance(s) classified as EU-cat. Acute Tox. 1, 2 and/or 3 (H300, H301, H310, H311, H339, H331); substance(s) classified as EU-cat. Repr. 1A/1B (H360, H360F, H360D, H360FD); substance(s) classified as EU-cat. STOT SE 1 and/or STOT RE 1 (H370, H372), in accordance with Regulation (EC) No 1272/2008.	
Organic tin compounds	Not contained. ^{a)}
SVOC and VOC Release scenarios regarding BWR 3: IA 2, IA3, SW 3 (according to EOTA TR 034)	The release of dangerous substances was not assessed. Due to the assessment of the possible release scenarios by the Technical Assessment Body (DIBt), including the assessment of the intended use, there is no risk of the release of hazardous substances into the interior.
a) Assessment based on a detailed manufacturer's product declaration.	

3.4 Safety and accessibility (BWR 4)

Not applicable.

3.5 Protection against noise (BWR 5)

Essential characteristic	Performance
Dynamic stiffness ^{a)} test acc. to EN 29052-1:1992 "CM ER 0725", "Acoustic Floor Mat 33" "CM ER 1050", "Acoustic Floor Mat 31"	$s'_t \leq 13 \text{ MN/m}^3$ $s'_t \leq 17 \text{ MN/m}^3$
Impact sound reduction with a structural assembly in accordance with annex A Rating acc. to EN ISO 10140:2010 (category II) assessment acc. to EN ISO 717-2:2013 "CM ER 0725", "Acoustic Floor Mat 33" "CM ER 1050", "Acoustic Floor Mat 31"	$\Delta L_w \geq 31 \text{ dB}^{b), c)}$ $\Delta L_w \geq 29 \text{ dB}^{b), c)}$

Essential characteristic	Performance
Nominal length test acc. to EN 822:2013 dimensional deviation	1500 mm L3 acc. to EN 16069:2012 + A1:2015
Nominal widths test acc. to EN 822:2013 dimensional deviation	750 mm W4 acc. to EN 16069:2012+ A1:2015
Squareness test acc. to EN 824:2013 dimensional deviation	$S_b \leq 4 \text{ mm/m}$
Thickness test acc. to EN 12431:2013	$d_L \geq 16.0 \text{ mm}$
Compressibility test acc. to EN 12431:2013	$c \leq 2.0 \text{ mm}$ (with $c = d_L - d_B$)
Mass per unit area test in line with EN 1602:2013 "CM ER 0725", "Acoustic Floor Mat 33" "CM ER 1050", "Acoustic Floor Mat 31"	2.4 kg/m ² to 2.7 kg/m ² 3.1 kg/m ² to 3.4 kg/m ²
Compressive creep	No performance assessed.
Compressive stress at 10 % deformation test acc. to EN 826:2013 "CM ER 0725", "Acoustic Floor Mat 33" "CM ER 1050", "Acoustic Floor Mat 31"	$\sigma_{10\%} \geq 3.0 \text{ kPa}$ $\sigma_{10\%} \geq 7.0 \text{ kPa}$
Deformation under specified load and temperature test in line with 1605:2013 with the test conditions (20 kPa, 60 °C, 48 h)	$\Delta \varepsilon \leq 5.0 \%$ (difference between the relative deformation ε_1 after step A and ε_2 after step B)
<p>a) Note: The dynamic stiffness is not used for calculation of impact sound reduction of a floor build-up. Only the declared impact sound reduction is to be used for the design of protection against noise.</p> <p>b) The given value includes a reduction of 2 dB to take influence of possible ageing into account.</p> <p>c) The design of the sound protection is to be performed according to the national provisions taking account of the structural assembly according to annex A with the design value of the impact sound reduction. The design value of the impact sound reduction shall be laid down based on the nominal value given in clause 3.5 according to the respective national regulations.</p>	

3.6 Energy economy and heat retention (BWR 6)

Not applicable.

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

English translation prepared by DIBt

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

According to Decision of the Commission 2000/273/EC as amended by Decision of the Commission 2001/596/EC, the system 3 of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) shall be applied.

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 at Deutsches Institut für Bautechnik.

Issued in Berlin on 10 April 2017 by Deutsches Institut für Bautechnik

Prof. Gunter Hoppe
Head of Department

beglaubigt:
Getzlaff

ANNEX A

The given values for the impact sound reduction in clause 3.5 apply, if the following is taken into account regarding the structural assembly:

- The impact sound insulation mats are loosely laid with the profiled side down on the even solid floor slab to be insulated. If necessary unevenness is leveled off.
- The impact sound insulation mats are laid with edges tightly abutted, avoiding cross joints, and fixed with a suitable adhesive tape against displacement in such a way that no gaps will occur in the joint area.
- Appropriate insulating edge strips are used at the boundary area on rising walls in order to avoid sonic bridges.
- The impact sound insulation mats are protected by a suitable foil before the screed will be built in.
- The floating screed, to be executed according to the national provisions, has a mass per unit area of at least 180 kg/m².