

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-18/0481
of 16 April 2020

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

"AcoustiCORK U34" and "AcoustiCORK U71"

Product family
to which the construction product belongs

rubber granulate fibre mat for impact sound insulation
under floating screed

Manufacturer

Amorim Cork Composites, S.A.
Rua de Meladas n° 260
4536-902 MOZELLOS
PORTUGAL

Manufacturing plant

Amorim Cork Composites, S.A.
Rua de Meladas n° 260
4536-902 MOZELLOS
PORTUGAL

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

EAD 040048-01-0502

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

Specific part

1 Technical description of the product

This European Technical Assessment applies to the single-side profiled rubber granulate mat "AcoustiCORK U34" and "AcoustiCORK U71" for impact sound insulation under floating screeds, hereinafter referred to as impact sound insulation mat.

The mat manufactured using rubber granulate based on recycling material and a binding agent based on polyurethane (PU elastomer) is delivered in the form of rolls or mats.

The impact sound insulation mat is made with the following dimensions:

Nominal length: 9000 mm und 15000 mm (rolls) or 1250 mm (mats)

Nominal width: 1000 mm

Nominal thickness d_L : 8.0 mm or 17.0 mm

The European Technical Assessment has been issued for the product 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 mat is 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 screed.

The performance according to section 3 only applies if the impact sound insulation mats are installed according to the manufacture'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 impact sound insulation 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 040048-01-0502 "rubber fibre mat to be used for impact sound insulation" apply.

3.1 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

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance																		
Content, emission and/or release of dangerous substances																			
Substance(s) classified as Carc. 1A/1B. ^{a)}	The product does not contain these dangerous substances actively used with the exception of PAH and N-Nitrosamines. ^{b)}																		
Substance(s) classified as Muta. 1A/1B. ^{a)}																			
Substance(s) classified as EU-cat. Acute Tox. 1, 2 and/or 3; substance(s) classified as Repr. 1A/1B; substance(s) classified as STOT SE 1 and/or STOT RE 1. ^{a)}																			
PAH	Sum of 16 EPA-PAH: ≤ 50 mg/kg B[a]P: ≤ 5 mg/kg																		
N-Nitrosamines	≤ 11 μ g/kg																		
SVOC and VOC	The product was tested for the emission of dangerous substances using the loading factor $L = 0.4 \text{ m}^2/\text{m}^3$ (for floor) and was therefore assessed: ^{c)}																		
	<table border="1"> <thead> <tr> <th></th> <th>3 days</th> <th>28 days</th> </tr> </thead> <tbody> <tr> <td>Carcinogen (Cat. 1A/1B)</td> <td>$< 0.01 \text{ mg}/\text{m}^3$</td> <td>$< 0.001 \text{ mg}/\text{m}^3$</td> </tr> <tr> <td>TVOC_{spez}</td> <td>$< 10 \text{ mg}/\text{m}^3$</td> <td>$< 1.0 \text{ mg}/\text{m}^3$</td> </tr> <tr> <td>TSVOC</td> <td></td> <td>$< 0.1 \text{ mg}/\text{m}^3$</td> </tr> <tr> <td>TVOC without NIK ^{d)}</td> <td></td> <td>$< 0.1 \text{ mg}/\text{m}^3$</td> </tr> <tr> <td>R-value</td> <td></td> <td>< 1</td> </tr> </tbody> </table>		3 days	28 days	Carcinogen (Cat. 1A/1B)	$< 0.01 \text{ mg}/\text{m}^3$	$< 0.001 \text{ mg}/\text{m}^3$	TVOC _{spez}	$< 10 \text{ mg}/\text{m}^3$	$< 1.0 \text{ mg}/\text{m}^3$	TSVOC		$< 0.1 \text{ mg}/\text{m}^3$	TVOC without NIK ^{d)}		$< 0.1 \text{ mg}/\text{m}^3$	R-value		< 1
	3 days	28 days																	
Carcinogen (Cat. 1A/1B)	$< 0.01 \text{ mg}/\text{m}^3$	$< 0.001 \text{ mg}/\text{m}^3$																	
TVOC _{spez}	$< 10 \text{ mg}/\text{m}^3$	$< 1.0 \text{ mg}/\text{m}^3$																	
TSVOC		$< 0.1 \text{ mg}/\text{m}^3$																	
TVOC without NIK ^{d)}		$< 0.1 \text{ mg}/\text{m}^3$																	
R-value		< 1																	
Release scenarios regarding BWR 3: IA2 (according to EOTA TR 034)																			

- 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
d) Available at www.dibt.de (German LCI list)

3.3 Protection against noise (BWR 5)

Essential characteristic	Performance
Dynamic stiffness ^{a)} test acc. to EN 29052-1:1992	
Nominal thickness $d = 17.0 \text{ mm}$	$s'_t \leq 16 \text{ MN}/\text{m}^3$
Nominal thickness $d = 8.0 \text{ mm}$	$s'_t \leq 26 \text{ MN}/\text{m}^3$

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance	No performance assessed.

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

In accordance with the European Assessment Document EAD No 040048-01-0502 "rubber fibre mat to be used for impact sound insulation" the legal basis is:
Commission Decision 2000/273/EC (including change)
The system to be applied is: system 3

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 16. April 2020 by Deutsches Institut für Bautechnik

Maja Tiemann
Head of Department

beglaubigt:
Getzlaff

ANNEX A

The given values for the impact sound reduction in clause 3.3 apply, if the following is taken into account regarding the structural assembly:

- The impact sound insulation mats are loosely laid on the even solid floor slab to be insulated, with the profiled side down to the solid floor. If necessary unevenness is leveled off.
- The impact sound insulation mats are laid with edges tightly abutted 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.