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European technical approval

ETA-13/0693

(English language translation, the original version is in German language)

Handelsbezeichnung
Trade name

CereWall

Zulassungsinhaber
Holder of approval

**Henkel AG & Co. KGaA
 Henkelstraße 67
 40589 Düsseldorf
 GERMANY**

Zulassungsgegenstand
 und Verwendungszweck

**Bausatz für innere Trennwände zur Verwendung als
 nichttragende Wände**

*Generic type and use of
 construction product*

Internal partition kit for use as non-loadbearing walls

Geltungsdauer vom
Validity from
 bis
to

28.06.2013

27.06.2018

Herstellwerk
Manufacturing plant

**Henkel AG & Co. KGaA
 Henkelstraße 67
 40589 Düsseldorf
 GERMANY**

Diese Europäische
 technische Zulassung umfasst
*This European
 technical approval contains*

11 Seiten inklusive 0 Anhänge

11 pages including 0 Annexes



European Organisation for Technical Approvals
 Europäische Organisation für Technische Zulassungen
 Organisation Européenne pour l'Agrément Technique

I LEGAL BASES AND GENERAL CONDITIONS

- 1 This European technical approval is issued by the Österreichisches Institut für Bautechnik in accordance with:
- Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products¹, modified by the Council Directive 93/68/EEC of 22 July 1993²;
 - Wiener Bauprodukte- und Akkreditierungsgesetz – WBAG. LGBl. Nr. 30/1996, zuletzt geändert durch das Gesetz LGBl. für Wien Nr. 8/2012;
 - Common Procedural Rules for Requesting, Preparing and the Granting of European technical approvals set out in the Annex of Commission Decision 94/23/EC³;
 - Guideline for European technical approval of “internal partition kits for use as non-loadbearing walls” ETAG no. 003, edition December 1998.
- 2 The Österreichisches Institut für Bautechnik is authorized to check whether the provisions of this European technical approval are met. Checking may take place in the manufacturing plant. Nevertheless, the responsibility for the conformity of the products to the European technical approval and for their fitness for the intended use remains with the holder of the European technical approval.
- 3 This European technical approval is not to be transferred to manufacturers or agents of manufacturers other than those indicated on page 1, or manufacturing plants other than those announced to the Österreichisches Institut für Bautechnik.
- 4 This European technical approval may be withdrawn by the Österreichisches Institut für Bautechnik, in particular after information by the Commission on the basis of Article 5(1) of Council Directive 89/106/EEC.
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- 6 The European technical approval is issued by the approval body in its official language. This version fully corresponds to the version circulated within EOTA. Translations into other languages have to be designated as such.

¹ Official Journal of the European Communities N° L 40, 11.02.1989, p. 12

² Official Journal of the European Communities N° L 220, 30.08.1993, p. 1

³ Official Journal of the European Communities N° L 17, 20.01.1994, p. 34

The internal partition kit may also be used as lining for an external wall.

These intended uses are applicable under the following conditions:

- > structures capable of giving adequate support and adequate possibilities for fixing the internal partition exist
- > the average air temperature of the adjacent spaces is in the range from 5 °C to 35 °C with a minimum of 0 °C and a maximum of 50 °C
- > the average daily humidity range is between 20 % RH and 75 % RH and the maximum relative humidity only exceeds 85 % RH for a short periods of time

The provisions made in this European technical approval are based on an assumed intended working life of the non-loadbearing wall of at least 25 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Approval Body, 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.

2 Characteristics of the product and method of verification

2.1 General

The identification tests and the assessment of the fitness of use of the internal partition kit “**CereWall**” in relation to the requirements for

- > Safety in case of fire (ER2)
- > Hygiene, Health and the Environment (ER3)
- > Safety in use (ER4)

have been made in accordance with ETAG 003, edition December 1998. The internal partition kit shall as far as its composition and manufacturing process is concerned correspond to the product subject to the approval tests. Details of composition and manufacturing process are deposited at Österreichisches Institut für Bautechnik.

Changes to the production process of the components of the kit which could result in deposited information/data being incorrect, shall be notified to the Österreichisches Institut für Bautechnik before they are introduced and the Österreichisches Institut für Bautechnik will assess whether or not such changes affect the ETA and, if so, whether further assessment and/or alteration to the ETA shall be necessary⁴.

The characteristics of the components and of the system not mentioned in this ETA nor in the Annexes of the ETA shall correspond to the respective values laid down in the Technical Documentation of this ETA, checked by Österreichisches Institut für Bautechnik.

⁴ The ETA-holder may change, under his own responsibility, some of the suppliers of a component, but only provided that the characteristics and the performances of the new components and the final performances of the system do not change at all. These changes must be fully recorded within the Factory Production Control documents in order to grant full traceability.

Characteristics of the components

2.2 Autoclaved aerated concrete blocks

For identification of the component the following applies.

Characteristics	Test method	For internal partitions with resistance to fire classification NPD	Tolerance
Length	EN 772-16	≤ 1500 mm	+/- 1,5 mm
Width	EN 772-16	≥ 75 mm (nominal value)	+/- 1,5 mm
Height	EN 772-16	≤ 1000 mm	+/- 1,0 mm
Flatness	EN 772-20	-----	≤ 1,0 mm
Parallelism	EN 772-16	-----	≤ 1,0 mm
Gross dry bulk density	EN 772-13	475 kg/m ³ to 1000 kg/m ³	+/- 50 kg/m ³
Compressive strength	EN 772-1	≥ 2,5 N/mm ² (mean value)	≥ 2,0 N/mm ² (single value)

Characteristics	Test method	For internal partitions with resistance to fire classification EI 90	Tolerance
Length	EN 772-16	200 mm to 1000 mm	+/- 1,5 mm
Width	EN 772-16	≥ 100 mm (nominal value)	+/- 1,5 mm
Height	EN 772-16	200 mm to 400 mm	+/- 1,0 mm
Flatness	EN 772-20	-----	≤ 1,0 mm
Parallelism	EN 772-16	-----	≤ 1,0 mm
Gross dry bulk density	EN 772-13	475 kg/m ³ to 1000 kg/m ³	+/- 50 kg/m ³
Compressive strength	EN 772-1	≥ 2,5 N/mm ² (mean value)	≥ 2,0 N/mm ² (single value)

2.3 Adhesive

For identification of the component the following applies.

Characteristics	Test method	1-component polyurethane adhesive	Tolerance
Density of cured adhesive (expanded)	EN ISO 845:2009	20 kg/m ³	+/- 3,0 kg/m ³
Shear strength (dry storage 24 hours)	EN 1052-3:2002	≥ 0,15 N/mm ² according to EN 998-2:2003	-----

Characteristics of the internal partition

2.4 Reaction to fire

The reaction to fire of the components of the non-loadbearing wall made from the internal partition kit "CereWall" was assessed in accordance with clause 5.2.1 of ETAG 003, edition 1998 and classified according to EN 13501-1:

Component	Class according to EN 13501-1
1-component polyurethane adhesive	E (for gap width ≤ 10 mm)
Autoclaved aerated concrete blocks	A1 (according to Commission Decision 96/603/EC ⁵)

⁵ Official Journal of the European Communities no. L 267, 19.10.1996, p. 23

2.5 Resistance to fire

The resistance to fire of the non-loadbearing wall made from the internal partition kit “**CereWall**”, tested in accordance with clause 5.2.2 of ETAG 003, edition 1998, with reference to EN 1363-1:2012 and EN 1364-1:1999, can be classified, according to EN 13501-2:2007+A1:2009

EI 90

under the following conditions:

Not rendered internal partition				Optional rendering
Height ≤ 4,0 m	Width ∞	Thickness ≥ 100 mm	Density of the autoclaved aerated concrete blocks 475 kg/m ³ to 1000 kg/m ³	Class A1 according to EN 13501-1

For internal partitions with thickness < 100 mm no performance was determined and therefore the fire resistance classification is **NPD**.

2.6 Release of dangerous substances

The 1-component polyurethane adhesive does contain the following dangerous substances specified in EOTA TR 034 (General ER 3 Checklist for ETAGs/CUAPs/ETAs- Content and/or release of dangerous substances in products/kits), edition March 2012:

- > Dimethyldiphenyldiisocyanat (CAS 9016-87-9)
- > Trichlorisopropylphosphat (CAS 237-158-7)
- > Isobutane (CAS 75-28-5)
- > Propane (CAS 74-98-6)
- > Dimethylether (CAS 115-10-6)

The cured 1-component polyurethane adhesive as part of the internal partition kit “**CereWall**” does not release any of the above mentioned dangerous substances to the ambient air. The intended use category according to EOTA TR 034, edition March 2012 is **IA2**.

A written declaration of conformity in this respect was submitted by the ETA-holder.

In addition to the specific clauses relating to dangerous substances contained in this ETA, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Directive, these requirements need also to be complied with, when and where they apply.

2.7 Water vapour permeability

No performance determined (NPD).

2.8 Resistance to structural damage

The resistance to dynamic loads of the internal partition kit “CereWall” was assessed in accordance with clause 5.4.1 of ETAG 003, edition 1998, with reference to the following standards: ISO 7892:1988, ISO/DIS 7893.2:1991 and ISO/DIS 8413:1990. The classification was carried out through reference to ETAG 003, edition 1998 use categories.

Resistance to dynamic loads	resistance to structural damage from soft body impact load – 50 kg bag	resistance to structural damage from hard body impact load – 1 kg steel ball
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	II 1 x 200 Nm	II 1 x 10 Nm
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	IV b 1 x 500 Nm	IV b 1 x 10 Nm
Resistance to eccentric vertical loads	resistance to structural damage from eccentric vertical loads – 24 hour load	
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	a 1000 N (screwed through fixing)	
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	b 4000 N (screwed through fixing)	

2.9 Safety against personal injury by contact

When properly installed the internal partition kit “CereWall” does not contain any sharp and cutting edges which cause the risk of abrasion or cutting people or people’s clothing.

2.10 Airborne sound insulation

No performance determined (NPD).

2.11 Sound absorption

No performance determined (NPD).

2.12 Thermal resistance

No performance determined (NPD).

2.13 Thermal inertia

No performance determined (NPD).

Aspects of durability and serviceability

2.14 Resistance to functional failure

The resistance to dynamic loads of the internal partition kit “CereWall” was assessed in accordance with clause 5.7.1 of ETAG 003, edition 1998, with reference to the following standards: ISO 7892:1988, ISO/DIS 7893.2:1991 and ISO/DIS 8413:1990. The classification was carried out through reference to ETAG 003, edition 1998 use categories.

Resistance to dynamic loads	resistance to functional failure from soft body impact load – 50 kg bag	resistance to functional failure from hard body impact load – 0,5 kg steel ball
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	I 3 x 60 Nm	I 1 x 6 Nm
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	IV 3 x 120 Nm	IV 1 x 6 Nm
Resistance to eccentric vertical loads	resistance to functional failure from eccentric vertical loads – short-term load	
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	a 500 N	
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	a 500 N	
Resistance to point loads	resistance to functional failure from point loads – 10 kg perpendicular	resistance to functional failure from point loads – 25 kg parallel
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	NPD	NPD
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	NPD	NPD
Rigidity of partitions to be used as substrate for ceramic tiling	deflection after impact soft body impact load – 50 kg bag	deflection after impact soft body impact load – 50 kg bag
non-loadbearing wall made of 75 mm thick autoclaved aerated concrete blocks	NPD	NPD
non-loadbearing wall made of 100 mm thick autoclaved aerated concrete blocks	NPD	NPD
	max residual deflection ≤ 5 mm no damages	

2.15 Resistance to deterioration caused by physical agents

Acceptable without specific tests.

2.16 Resistance to deterioration caused by chemical agents

Acceptable without specific tests.

2.17 Resistance to deterioration caused by biological agents

Acceptable without specific tests.

On request the records shall be presented to the Österreichisches Institut für Bautechnik.

3.2.2 Tasks for the approved bodies

3.2.2.1 Initial type-testing of the products

For initial type-testing the results of the tests performed as part of the assessment for the European technical approval shall be used unless there are changes in the production line or plant. In such cases the necessary initial type-testing has to be agreed between the Österreichisches Institut für Bautechnik and the approved bodies involved.

3.3 CE Marking

The CE marking shall be affixed on the internal partition kit/components itself/themselves, an attached label, the packaging, or the accompanying commercial documents. The symbol "CE" shall be accompanied by the following information:

- > the name or identifying mark and address of the ETA-holder
- > the last two digits of the year in which the CE marking was affixed
- > number of the ETAG (ETAG N° 003)
- > number of the European technical approval
- > the designation of the internal partition kit (trade name)
- > the resistance to fire class according to clause 2.5 of the ETA
- > the use category according to clause 1.2 of the ETA

4 Assumptions under which the fitness of the product for the intended use was favourably assessed

4.1 Manufacturing

The "CereWall" components shall correspond, as far as their composition and manufacturing process is concerned, to the products subject to the approval tests.

4.2 Installation

4.2.1 General

It is the responsibility of the ETA-holder to guarantee that the information about design and installation of the kit "CereWall" are effectively communicated to the concerned people. Besides, all the data concerning the execution shall be indicated clearly on the packaging and/or on the enclosed instruction sheets using one or several illustrations.

In any case, it is suitable to comply with national regulations and particularly concerning fire.

Only the components described in clause 1.1 with characteristics in accordance with clause 2 of this ETA can be used for the kit "CereWall". The requirements given in ETAG 003, edition 1998, clause 7, have to be considered.

4.2.2 Design

The internal partition kit design shall comply with characteristics of the kit "CereWall" as well as the national regulations. The kit has to be installed into indoor spaces with normal indoor temperature and moisture conditions (see clause 1 of the ETA).

4.2.3 Installation

The recognition and preparation of floor, ceiling and walls in a work, as well as the installation of the internal partition kit "**CereWall**" with respect to the peculiarities in joints between partition and main structure and admitted tolerances of the system itself, which are fully described in the current version of the ETA-holder's installation manual, shall be carried out in compliance with:

- clause 7 of the ETAG 003, edition 1998
- national regulations in force, if any

For connection joints between partition and the main structure, the 1-component polyurethane adhesive – as tested – or a technically equal grout that is appropriate for the intended use can be used.

5 Recommendations

5.1 Packaging, transport and storage

Packaging, transport and storage of the components and the ancillary materials have to be such that the products are protected from moisture during transport and storage.

The components have to be protected against damage and well identified as part of the internal partition kit "**CereWall**".

5.2 Maintenance and repair of the product

Except for aesthetic reasons no special maintenance is required. Damages however should principally be repaired, if might occur. In general the partition wall can be easily repaired using the components of the internal partition kit as described in clause 1.1 of the ETA.

On behalf of Österreichisches Institut für Bautechnik

The original document is signed by:

Rainer Mikulits
Managing Director