

European Technical Assessment

ETA-03/0007
Of 29/03/2018

General part

Technical Assessment Body issuing the European Technical Assessment:

SKG-IKOB Certificatie BV

Trade name of the construction
product

***YTONG/Hebel internal partition kit
with large-sized panels of autoclaved aerated concrete
(AAC) for use as non-loadbearing walls
Internal partition kits***

Product family to which the
construction product belongs

Manufacturer

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This European Technical
Assessment contains

16 pages including 2 Annexes 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

ETAG 003 December 1998 as amended April 2012, Internal
Partition Kits for Use as Non-loadbearing Walls, used as EAD,

This version replaces

ETA 03/0007, version 3, issued on 31/03/2013

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Specific parts

1 Technical description of the product:

The internal partition kit is designed and installed in accordance with the ETA-holder's design and installation instructions.

The kit comprises panels made of autoclaved aerated concrete (AAC 4/600 and AAC 5/750) and thin layer mortar (YTONG fix P) which are factory-produced as part of the kit by the ETA-holder himself and additional components which are produced by other manufactures delivering to the specification of the ETA-holder, who is responsible for the kit.

The additional components are:

- repair mortar (AAC fill)
- Anchorage Adhesive (Ytong ankerlijm)

- ancillary materials, provided by the ETA-holder (see also figure of Annex 1):
 - o Resilient Anchors (galvanised steel)
 - o Wooden wedges
 - o Angle bracket (galvanized steel)
 - o Rubber block
 - o Chipboard screw
 - o Joint filler (assembly foam – regular polyurethane foam)
 - o Joint filler (assembly foam – fire resistant polyurethane foam)

2 Specification of the intended uses in accordance with the applicable Assessment Document (hereinafter EAD)

2.1 Intended use

The YTONG/Hebel internal partition kit is a kit for buildings, to be assembled on site.

The result is an immovable partition intended to be used as a non-loadbearing wall with fire separating capabilities (see 3.1.2) and/or acoustic insulation (see 3.4.1) and/or thermal insulation properties (see 3.5).

The partition is assessed against the requirements of use category IVb to ETAG 003, being zones readily accessible to public and others with little incentive to exercise care. Risk of accidents occurring and misuse. In case of failure risk includes the fall at a lower level, conform type b in figure 1 (see 3.3.1) Conditions for the intended use are:

- structures capable of giving adequate support and adequate possibilities for fixing;
- an average air temperature in the range from 5 °C to 35 °C with a minimum of 0 °C and a maximum of 50 °C;
- an average daily humidity range 20 % RH to 75 % RH. Maximum air relative humidity only exceeding 85 % RH for short periods of time.

The wall can be provided on site with different type of surface treatments such as plastering or rendering. The internal partition kit is also fitted to be used as substrate for ceramic tiling.

The thickness of the wall without rendering is 70 mm, 75 mm or 100 mm, depending upon the applied thickness of the type panel which is chosen to be used. The maximum height of the wall is 3000 mm

An example of the wall is given in annex 1.

Assumed working life

The provisions made in this ETA are based on an assumed intended working life of the non load bearing wall achieved within the internal partition kit 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.

2.1 Characteristics of the components.

Detailed information on the chemical composition and other identifying characteristics of the components have been deposited with the assessment body SKG-IKOB.

The components of the kit are specified by the ETA-holder as follow:

2.2.1 Panels

The YTONG/Hebel panels AAC 4/600 and AAC 5/750 are prefabricated and made of autoclaved aerated concrete (AAC). The panels are provided with a reinforcement (for non-structural purposes) for handling during transport. For this purpose each panel contains ribbed reinforcement bars in the longitudinal direction of the panel. In the cross section of the panel the bars are positioned halfway the thickness at distances as shown in the figure of Annex 1.

For identification of the panels product dimensions, characteristics and tolerances are given in table 1, 2 and 3 unless the essential characteristics are mentioned in the DoP.

Table 1 – Product dimensions

Product Characteristics	Test method	YTONG/Hebel Panel		Unit
		AAC 4/600 / AAC 5/750		
Thickness	EN 991	70 and 75	100 and 140	mm
Length	EN 991	2200 – 3000	2200 – 3600	mm
Width	EN 991	498, 598 and 748	498, 598 and 748	mm

Table 2 – Product characteristics

Product Characteristics	Test method	YTONG/Hebel Panel	
		AAC 4/600	AAC 5/750
Density class	EN 678	600	750
Compressive strength class	EN 679	4,0	5,0

Table 3 – Tolerances

Tolerances	
Length	± 3 mm
Width	± 2 mm
Thickness	± 2 mm
Deviation of flatness	± 2 mm
Deviation of parallelism (along sides)	± 2 mm

2.2.2 Thin layer mortar

Trade name Ytong fix P

Use: adhesive applied as (joint)filler for the joints between the panels

Type: cement based dry mortar requiring addition of water.

Compressive strength ≥ 10 N/mm² (EN 1015-11)

Flexural strength $\geq 2,5$ N/mm² (EN 1015-11)

2.2.3 Repair mortar

Trade name AAC -fill

Use: filler for grooves such as required for the incorporation of conduits (such as for electricity purposes)

Type: cement based dry mortar requiring addition of water.

2.2.4 Anchorage Adhesive (Ytong ankerlijm)

Commercial name: Ytong ankerlijm

Use: adhesive to fix the resilient anchors to the adjacent structure

Type: MS-polymer based adhesive

2.2.5 Ancillary materials

- Resilient Anchors (galvanized steel), made of strip 22 mm x 0,7 mm, dimensions 90- 6-16-90 mm
- Wooden wedges
- Angle bracket (galvanized steel); made of sheet 57 mm x 2,00 mm, dimensions 60 mm x 60 mm.
- Rubber block (granulated rubber); dimensions 60 mm x 40 mm x 15 mm.
- Chipboard screw (galvanized steel); diameter 5,0 mm, length 70 mm.

See figure 2 of annex 1

- Joint filler (assembly foam – regular polyurethane foam)
- Joint filler (assembly foam – fire resistant polyurethane foam)

2.3 Working life

The assumed working life of the YTONG/Hebel internal partition kit with large-sized panels of autoclaved aerated concrete is for the intended use 25 years, provided that the assembled product is subject to appropriate installation, use and maintenance. The indication of 25 years cannot be interpreted as a guarantee given by Xella Nederland bv, but should only be regarded 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

The assessment of fitness for use has been made in accordance with ETAG 003 used as an EAD.

3.1 ER 2 - Safety in case of fire

3.1.1 Reaction to fire

The reaction to fire of the YTONG/Hebel panels is classified as **class A1**. The reaction to fire of the thin layer mortar Ytong fix P is also classified as **class A1**.

(Autoclaved aerated concrete AAC and mortar with inorganic binder are mentioned in the Annex of EC decision 94/611/EG modified by EC decision 2000/605/EG as material allowing to be classified in class A1 without testing)

3.1.2 Resistance to fire

The resistance to fire of the internal partition according to this kit, in function of the thickness of the wall and the material used as joint filler between partition and adjacent structure, is classified according table 4 .

Table 4 - Classification of resistance to fire

Classification of resistance to fire			
Partition type	Thickness [mm]	Joint filler	
		Assembly foam Regular polyurethane foam	Assembly foam Fire resistant polyurethane foam
AAC 4/600	70	No performance determined	E 120 / EI 60 ¹⁾
	75	No performance determined	E 120 / EI 60 ²⁾
	100	No performance determined	E 180 / EI 120
	140	No performance determined	E 180 / EI 120 ³⁾
AAC 5/750	70	No performance determined	E 120 / EI 60 ¹⁾
	75	No performance determined	E 120 / EI 60 ²⁾
	100	No performance determined	E 180 / EI 120 ³⁾
	140	No performance determined	E 180 / EI 120 ³⁾

¹⁾ Exchanging the assembly foam by mineral wool as joint filler the classification of the resistance to fire of the 70 mm panel will upgrade from E 120 / EI 60 to E 120 / EI 120

²⁾ The classification is based upon test performed using a wall panel with AAC 4/600 and thickness 70 mm

³⁾ The classification is based upon test performed using wall panel AAC 4/600 and thickness 100 mm

3.2 ER 3 - Hygiene, health and the environment

3.2.1 Release of dangerous substances

Influence on air quality: no dangerous materials

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, 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 EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

3.2.2 Water vapour permeability

The water vapour diffusion coefficient (μ -value) of the AAC panels is 5/10 according to table A.10 of EN 1745 is **5/10** or as is indicated on the DoP of the wall panels.

(The value 5 is intended to be used for diffusion into the panel, the value 10 is intended to be used for diffusion out of the panel.)

The designer shall consider the relevant needs for ventilation, heating and insulation to minimise condensation in service.

3.2.3 Water permeability

Water permeability: No performance determined (not relevant).

3.3 ER 4 - Safety in use

3.3.1 Resistance to structural damage from dynamic loads

Internal partitions according to this kit have a satisfactory resistance to **Use category IVb**.

For description of the use category IVb and used test method see Table 5.

Table 5 – Use category IVb

Classification resistance to structural damage from dynamic loads		
Use category	Description	Test method used
The system has been assessed for Use category IVb	Use category IVb is described as «Zones readily accessible to public and others with little incentive to exercise care. Risk of accidents occurring and misuse. In case of failure, risk includes the fall to a floor at lower level, cf type b in figure 1»	The system is tested with: <ul style="list-style-type: none"> • a soft body energy level (up to 1.5 m above pedestrian level) of 500 Nm • a hard body energy level of 10 Nm.

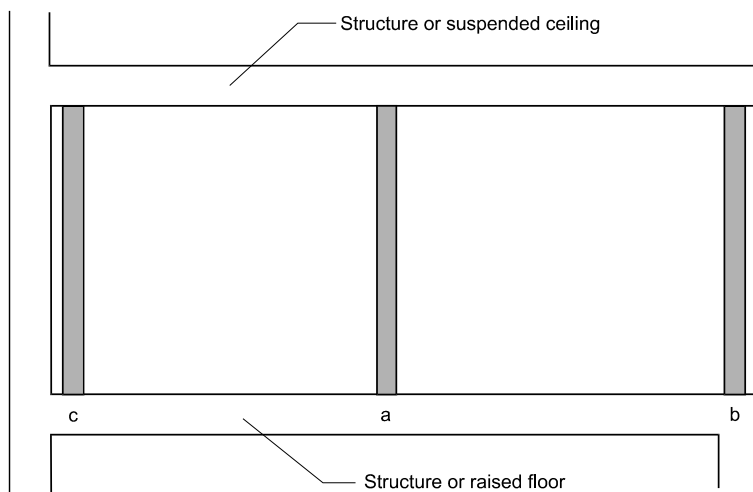


Figure 1 – Use category IVb conform type b

3.3.2 Resistance to structural damage from eccentric loads

Internal partitions according to this kit have a satisfactory resistance to **Loading use category b**.

For description of loading use category b and used test method see Table 6.

Table 6 – Loading use category b

Resistance to structural damage from eccentric loads		
Loading use category	Description	Test method used
The system has been assessed for: Loading use category b	Loading use category b is described as «Very heavy object such as (sanitary or heating equipment) boilers, large bookshelves»	The system is tested with: an eccentric vertical 24 h load of 4000 N.

3.3.3 Safety against personal injury by contact

When properly installed, the internal partition does not contain sharp or abrasive components liable to cause personal injury.

3.4 ER 5 - Protection against noise

3.4.1 Airborne sound insulation

Table 7 provides an indication of airborne sound insulation values for internal partition according to this kit.

Table 7 – Airborne sound insulation

Partition type	Thickness [mm]	Measured mass per unit area [kg/m ²]	Laboratory sound insulation (ISO 717-1) 100 Hz - 3150 Hz $R_w (C;C_{tr})$ [dB]	
AAC 4/600	70	52,5	34(-2;-3) ¹⁾	
	75	56,2		
	100	75,0		
	140	75,0		
AAC 5/750	70	57,3		
	75	61,4		
AAC 5/750	100	81,8		37(-1;-3) ²⁾
	140	81,8		

¹⁾ this value is generated by testing the most unfavourable one of the four types mentioned, being the AAC 4/600 thickness 70 mm

²⁾ this value is generated by testing the most unfavourable one of the two types mentioned, being the AAC 5/750 with thickness 100 mm.

3.4.2 Sound absorption

No performance determined, whereas the sound absorption depends on the surface treatment to be applied.

3.5 ER 6 – Energy economy and heat retention

3.5.1 Thermal resistance

Table 8 provides an indication of thermal resistance of the internal partition according to this kit.

Table 8 – Thermal resistance R_T calculated according EN-ISO 6946

Partition type	Thickness [mm]	R_T [(m ² ·K)/W]
AAC 4/600	70	0,71
	75	0,75
	100	0,91
	140	0,91 ¹⁾
AAC 5/750	70	0,62
	75	0,64
	100	0,77
	140	0,77 ²⁾

¹⁾ this value is generated by testing the most unfavourable one of the three types mentioned, being the partition type AAC 4/600 with thickness 100 mm.

²⁾ this value is generated by testing the most unfavourable one of the three types mentioned, being the partition type AAC 5/800 with thickness 100 mm.

Note:

The design thermal conductivity λ_U used for the determination of the thermal resistance R_T is calculated from the basic λ -value, which is determined from the $\lambda_{10,dry}$ -values ($P=50\%$) given in table A10 of EN 1745, which relate $\lambda_{10,dry}$ to density.

The value of the moisture conversion factor F_m is calculated for the intended interior application of the partition, using the formula $F_m = e^{f_u(u_2-u_1)}$ with $f_u = 4$ (kg/kg) and $u_2-u_1 = 0,02$ (kg/kg). The value of the moisture conversion factor F_m for interior application is 1,083.

If in the DoP the thermal performance of the AAC is declared, these values are to be used in order to give a realistic evaluation of the partition.

3.5.2 Thermal inertia

Table 9 provides information on heat capacity of the wall panels in order to perform a thermal inertia calculation for the building.

Table 9 – Heat capacity of the AAC panels

Partition type	Thickness [mm]	Heat capacity, c [kJ/(kg.K)] according to EN12602
AAC 4/600	70	1,05
	75	1,05
	100	1,05
	140	1,05
AAC 5/750	70	1,05
	75	1,05
	100	1,05
	140	1,05

3.6 Related aspects of serviceability

3.6.1 Resistance to functional failure from impact loads

Internal partition according to this kit have a satisfactory resistance to **Use category IV**

For description use category IV, used test method and measured maximum deflection see Table 10.

Table 10 – Use category IV

Resistance to functional failure from impact loads			
Use category	Description	Test method used	Deflection measured
The system has been assessed for: Use category IV	Use category IV (IVa and IVb) is described as «Zones readily accessible to public and others with little incentive to exercise care. Risk of accidents occurring and misuse. In case of failure, risk includes the fall to a floor at lower level, cf type b in figure 1»	The resistance to functional failure from soft body impact load of the system is tested with energy level of 120 Nm (3x).	For a height of 3000 mm of the test specimen (thickness 70 mm) the maximum deflection during impact measured is 9,7 mm.

3.6.2 Resistance to point loads

Lightweight fixtures can be made directly to the partition.

3.6.3 Rigidity of partitions to be used as a substrate for ceramic tiling

Internal partition according to this kit have all a satisfactory rigidity in order to be used as substrate for ceramic tiling.

The testing of the rigidity has been performed by soft body impact load with energy level 120 Nm (3x) and 240 Nm (1x) requirements are satisfied tested.

3.6.4 Protection against deterioration caused by hygrothermal conditions

No performance determined as the movement caused by differential temperatures on the partition within the range indicated under the intended use would be too small and insufficient to cause any noticeable bowing or deformation of the surface.

3.6.5 Protection against deterioration caused by corrosion

The partition has a sufficient protection against corrosion since all ancillary metal materials are made of galvanised steel (hot-dip zinc Z275 coating) and the in house use is a non-aggressive environment.

3.6.6 Protection against deterioration caused by cleaning agents

The partition has a sufficient protection against cleaning agents

- 3.6.7 Protection against deterioration caused by biological agents
The use of the partition does not encourage infestation as there is no food in materials used.

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

According to the decision 98/213/EC – Commission Decision of date 9th March 1998 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards internal partition kits, published in the Official Journal of the European Union (OJEU) L80/42 of 18/03/1998, see <http://eur-lex.europa.eu/JOIndex.do> of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Internal partition kits	For uses subject to reaction to fire requirements	A (without testing)	4
Internal partition kits	For fire compartmentation	Any	3
Internal partition kits	For uses liable to present 'safety-in-use' risks and subject to such regulations	—	3

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

Tasks of the manufacturer:

Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European Technical Assessment. The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this European Technical Assessment.

The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at SKG-IKOB.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

Other tasks of the manufacturer

Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

(a) Technical data sheet:

- Field of application:
- Building elements for which the YTONG/Hebel internal partition kit with large-sized panels of autoclaved aerated concrete are suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.
- Limits in size, minimum thickness etc. of the products
- Construction of the YTONG/Hebel internal partition kit with large-sized panels of autoclaved aerated concrete including the necessary components and additional products with clear indication whether they are generic or specific.

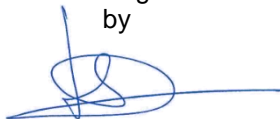
(b) Installation instruction:

- Steps to be followed
- Except for aesthetic reasons no special maintenance is required. Damages however should principally be repaired. In general the partition can easily be repaired using the repair mortar as mentioned in this document.

Issued in Geldermalsen, the Netherlands on 29.03.2018

The original English version is signed on behalf of SKG-IKOB

by



SKG-IKOB, Certification Manager
ir. H.A.J. van Dartel

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Annex A – Description of product(s)

Ytong/Hebel wall panels

AAC 4/600 / AAC 5/750

Thickness 70, 75, 100 or 140 mm

Width 498, 598 or 748 mm

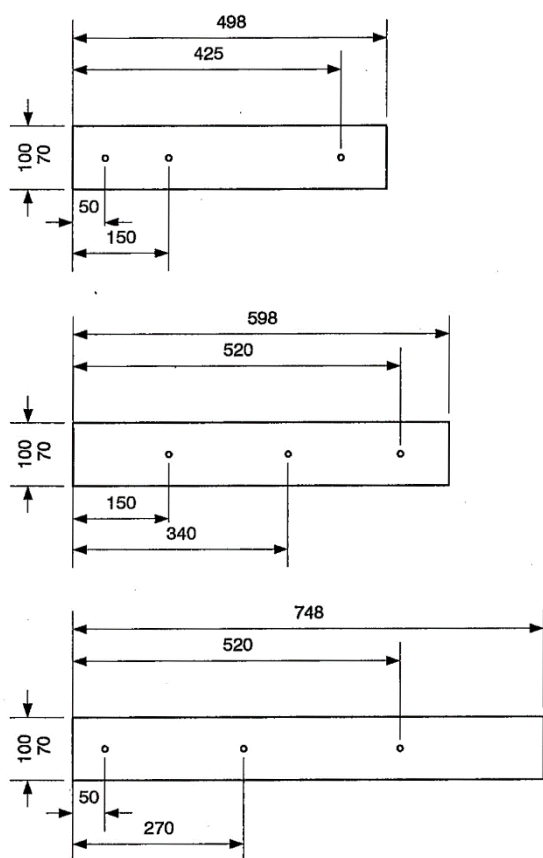
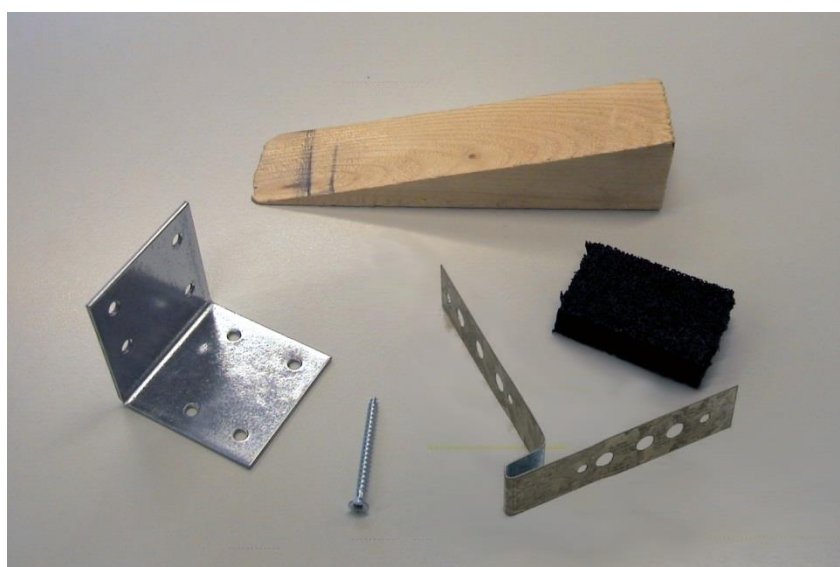


Figure 1 – Cross section of the Ytong/Hebel wall panels and indicative the location of the non structural reinforcement



Wooden wedge

Rubber block

Material: granulated rubber

Dimensions: 60 mm x 40 mm x 15 mm

Resilient anchor

Material: galvanized steel

Steel strip 22 mm x 0,7 mm

Length: 90-6-16-90 mm SV (Z275)

Angle bracket

Material: galvanized steel

Steel sheet 57 mm x 2,00 mm

60 mm x 60 mm SV (Z275)

Self drilling screw

Type: Chip board screw

Galvanized steel

Ø 5,0 mm

Length 70 mm

Figure 2 - Ancillary materials

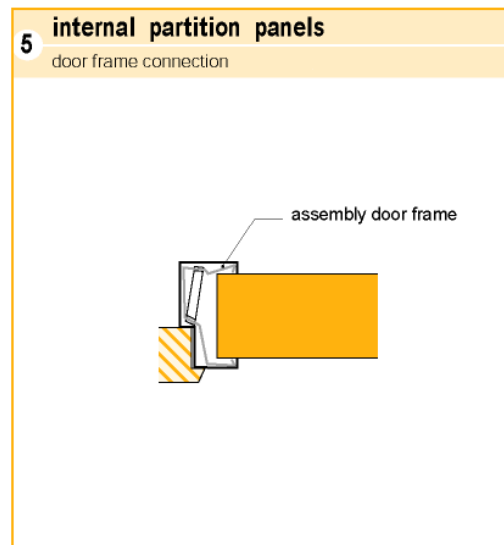
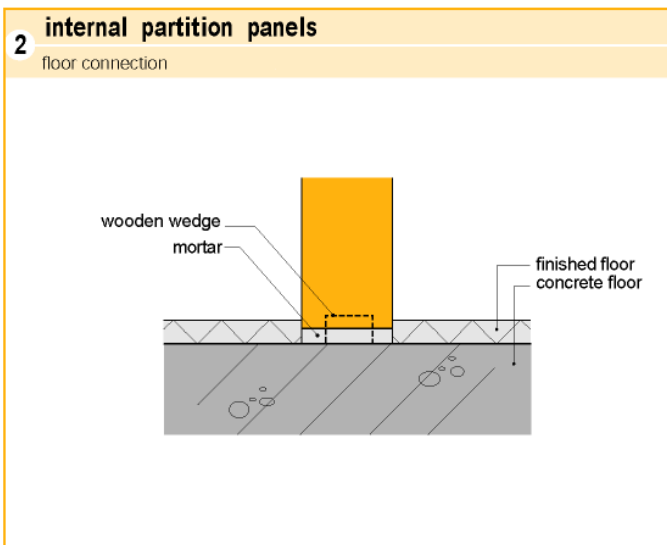
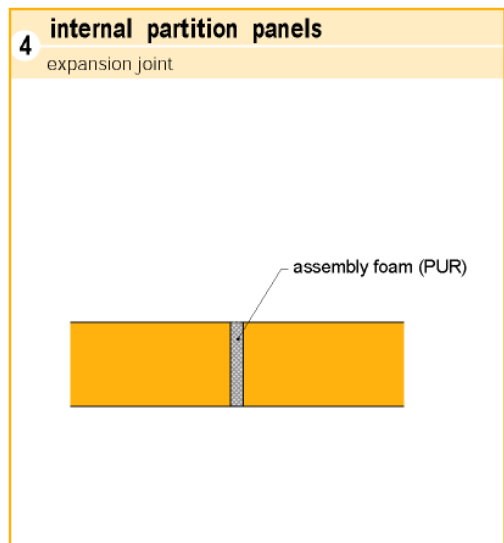
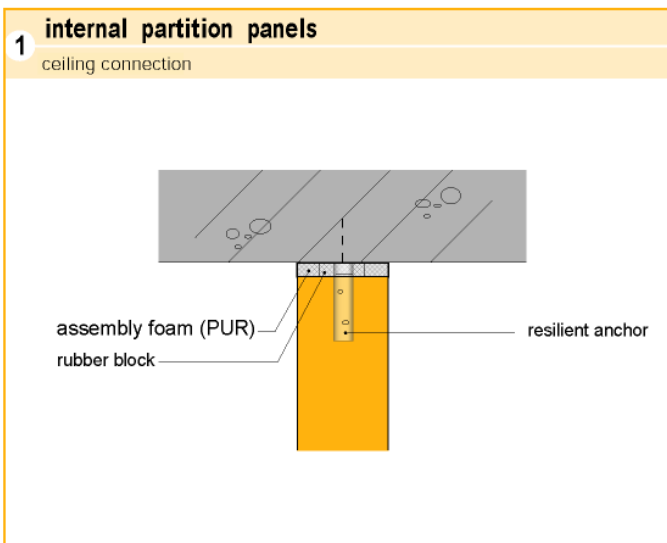
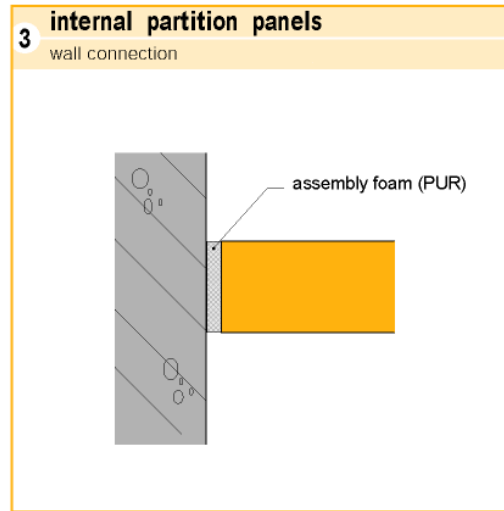
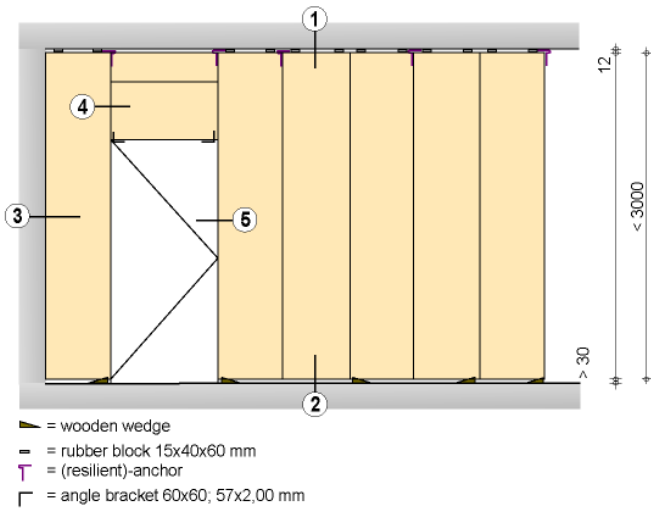


Figure 3 - Example of Internal partition with YTONG/Hebel panels

Annex B – Installation details

Installation details and application details for the man on site are given by the manufacturer in the Manufactures Installation Guidance document which forms part of the documentary material for the ETA and which shall always accompany the kit delivered on site.

The essential parts of the installation details and application are mentioned hereafter.

B.1 General

The non-load bearing wall is made on site by installing the panels of the internal partition kit in vertical position. The vertical joints between the panels are made with the YTONG fix P. Expansion joints are made with joint filler assembly foam. Depending on the required resistance to fire an assembly foam of the type fire resistant polyurethane is to be used.

B.2 Installation of the panels

The panels are installed side by side in vertical position respecting that the thickness of the joints is 2mm with a tolerance of ± 1 mm. The joints are made by applying the YTONG fix P in a sufficient amount, using the appropriate equipment along one longitudinal side of the panel. For the preparation of the thin layer mortar the prescriptions as on the packaging of the mortar are to be followed. The work life of the YTONG fix P after mixing is 4 hours.

B.3 Design details

Design details are given in figure 3 of annex A.

B.3.1 Floor connection

The panels are generally installed on the rough concrete floor. After being lifted up to the required height position with the help of a crowbar, and the eventual necessary adjustment of the front and the side in perpendicular position, the panels are fixed with wooden wedges at the bottom and the sides. The required height position is reached as soon as a distance of circa 17 mm between panel and ceiling is achieved (see hereafter).

After a sufficient hardening of the adhesive (> 48 h) the wedges placed at the sides are removed and the space at the bottom is being filled with no-slump mortar.

B.3.2 Ceiling connection

Two blocks of granulated rubber 60 mm x 40 mm x 15 mm are fixed with adhesive or nails at the upside of each panel at a distance of 100 mm from both edges. The wedging of the panels is carried out until the thickness of the rubber blocks is decreased to circa 12 mm.

The remaining space between partition and ceiling is to be filled with the joint filler (assembly foam of the type regular or of the type fire resistant polyurethane foam.).

Each second panel and also the first and last panel of a of partition is always fixed to the ceiling with a resilient anchor. The fixing of the anchor to the panel is made by mastic or two nails, for panels with thickness 70 mm or 75 mm nails (\varnothing 5,6 mm, length 125 mm) are to be used, for panels with thickness 100 mm nails (\varnothing 6,1 mm, length 125 mm) are to be used..

The fixing of the anchor to the ceiling has to be made by mechanical means or by an adhesive, Ytong Ankerlijm, both appropriate for the substrate

B.3.3 Wall connection

Between partition and adjacent structure a joint of approx.. 10 - 15 mm width is to be respected and is to be filled with the joint filler (assembly foam of the type regular or of the type fire resistant polyurethane foam.).

B.3.4 Corners

Corners and connections with other adjacent structures are carried out in a flexible way following the same procedure as described in Annex B.3.3 Wall connection.

For partition parts having a length smaller or equal to the width of the panel, the joint can also be made in a non flexible way using the adhesive YTONG fix P together with an additional mechanical fixing existing out of three nails. For panels with thickness 70 mm or 75 mm nails (\varnothing 5,6 mm, length 125 mm) are to be used. For panels with thickness 100 mm nails 160 mm x 6.1 mm are to be used. The positioning of the nails should be chosen at equal distances distributed over the length of the joint.

B.3.5 Doorframes

Preference should be given to the application of door frames that span from floor to ceiling.

Door frames combined with a filling part of AAC in the space between frame and ceiling however can also be applied, provided that the width of the frame is not exceeding the length of 1250 mm.

For the use a filling slab of AAC the following procedure is to be followed.

1. Angle brackets of galvanised steel (60 mm x 60 mm x 57 mm, thickness 2 mm) are mechanically fixed on both sides of the adjacent panels of the door frame at the required height using two self drilling screws (\varnothing 5,0 mm, length 70 mm). The positioning of the brackets should be centred in respect to the thickness of the panel.
2. From a panel the filling slab with its required dimensions is made by sawing. The length of the filling slab should be circa 30 mm less than the distance of the space between the adjacent panels that is to be filled. The joint on the side on which the door hangers will be installed, shall be made with thin layer mortar.
3. The filling slab is then mechanically fixed at the brackets using one self drilling screw (\varnothing 5,0 mm, length 70 mm) each bracket.
4. The remaining space between the slab and the adjacent panels is then to be filled with the joint filler (assembly foam of the type regular or of the type fire resistant polyurethane foam.).

B.3.6 Expansion joints

Expansion joints with a width of circa 15 mm are to be foreseen in ongoing partitions at distances about two times the height of the wall with a maximum of 5.0 m. The joint is to be filled with the joint filler (assembly foam of the type regular or of the type fire resistant polyurethane foam.). If

B.4 Finishing

The repair of damaged panels and the filling up of grooves such as required for the incorporation of conduits (such as for electricity purposes) is carried out by using the repair mortar AAC-fill or by using a filler based upon a binder of modified gypsum. After treatment of the joints and local irregularities in the surface with AAC-fill the partition is fit as substrate to be finished with ceramic tiling, wall-paper, or other thin finishing coats. The application of the finishing coat is to be carried taking account of the prescriptions that are belonging to the specific finishing coat.