Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-24/0258 of 19 May 2025

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	Faay IPK
Product family to which the construction product belongs	Internal Partitions Kit for use as non-loadbearing walls
Manufacturer	Faay Vianen B.V. Mijlweg 3 4131 PJ VIANEN NIEDERLANDE
Manufacturing plant	Plant 1
This European Technical Assessment contains	17 pages including 3 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	EAD 210005-00-0505

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Specific Part

1 Technical description of the product

FAAY IPK in the versions VP35, VP54, VP70, SP54, SP70, HV84, IW148, IW200/54 and IW200/70, is an internal partition kit (IPK) for use as non-loadbearing walls.

The internal partitions kit FAAY IPK consists of a flax fibreboard, which is clad with a plasterboard, a wood fibreboard, or a chipboard. Depending on the version, the internal partition kits have different properties in terms of reaction to fire, airborne sound insulation, etc.

The FAAY IPK comprises components which are factory-made by the manufacturer or by his suppliers. The non-loadbearing walls have a maximum height of 450 cm and a thickness of 35 mm to 200 mm.

Annex A.1 specifies the kit and annex A.2 specifies the essential characteristics. Annex A.3 shows drawings of all versions and its components.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The main function of non-loadbearing walls is to divide building interiors. The FAAY IPK is intended to be used as an immoveable partition system for residential buildings, offices and public buildings, with an average air temperature range from 5 °C to 35 °C and an average relative air humidity range from 20 % to 75 % average relative air humidity (Table 1, EAD 210005-00-0505, all categories).

The performance given in section 3 is only valid if the internal partition kit is used in compliance with the specifications and conditions given in annexes A.1 to A.3

The verifications and assessment methods on which this ETA is based lead to the assumption of a working life of the building 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.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire (Faay IPK in the versions VP54 and VP70) EN ISO 11925-2:2010; EN 13823:2010+A1:2014	Class B - s1, d0 according to EN 13501-1:2018*
Reaction to fire (Faay IPK in the versions IW148, IW200/54 and IW200/70) EN ISO 11925-2:2010	Class E according to EN 13501-1:2018*
Reaction to fire (Faay IPK in the versions VP35, SP54, SP70 and HV84)	No performance assessed
Resistance to fire	No performance assessed
* Paints, coatings are not permitted.	

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	No performance assessed
Water vapour permeability	No performance assessed

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Sill height	No performance assessed
Resistance to damage and functional failure from horizontal loads	Annex A.2
Resistance to damage and functional failure from eccentric vertical loads	Annex A.2
Resistance to horizontal linear static loads	Annex A.2
Resistance to functional failure from point loads parallel or perpendicular to the surface	Faay IPK in the versions VP54, VP70 and HV84 shows no damage after the test.
Rigidity of partitions to be used as a substrate for ceramic tiling	No performance assessed
Safety against personal injuries by contact	The geometry of the partition does not contain any sharp and cutting edges and there is no risk of abrasion or cutting people or people's clothing rising from the nature of the surfaces.
Resistance to deterioration caused by: - physical agents - chemical agents - biological agents	No performance assessed

3.4 Protection against noise (BWR 5)

Essential characteristic	Performance
Airborne sound insulation	$R_w(C,C_{tr})$
Faay VP54 (35 mm flax fibreboard + 2 x 9,5 mm plasterboard)	30(-1,-1) dB
Faay VP54 + 9,5 mm plasterboard one-sided	35(-1,-2) dB
Faay VP54 + 9,5 mm plasterboard both-sided	36(0,-2) dB
Faay VP70 (50 mm flax fibreboard + 2 x 9,5 mm plasterboard)	33(-1,-2) dB
Faay HV 84 (44 mm flax fibreboard + 2 x 20 mm wood fibreboard)	26(-2;0) dB
Faay HV 84 + clay plaster one-sided (2 x 3 mm)	29(-2;-3) dB
Faay HV 84 + clay plaster both-sided (3 mm + 5 mm)	33(-3;-5) dB
Faay IW148	56(-2,-6) dB
IW200/54	59 (-3;-8) dB
IW200/70	61 (-3;-7) dB
Sound absorption	No performance assessed

3.5 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal resistance	No performance assessed
Thermal inertia	No performance assessed

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

In accordance with EAD No. 210005-00-0505, the applicable European legal act is: Decision 98/213/EC.

The system to be applied is: 3.

For uses subject to regulations on reaction to fire the applicable AVCP systems regarding reaction to fire are 1, or 3, or 4 depending on the conditions defined in the said Decision 98/213/EC.

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 with Deutsches Institut für Bautechnik.

Anja Dewitt
Head of Section

beglaubigt:
Vössing

Deutsches Institut für Bautechnik DIBt

A.1 Specification of the technical description

A.1.1 Technical description of building components

The number after the respective version VP35, VP54, VP70, SP54, SP70, HV84, IW148, IW200/54 and IW200/70 indicates the thickness of the partition wall in millimetres. The VP versions are clad with plasterboard (thickness 9.5 mm ± 0.5 mm), the SP versions with chipboard (thickness 9 mm) and the HV version with wood fibreboard (thickness 20 mm). The walls are composed of individual elements with a width of 400 mm or 600 mm (VP35 only 600 mm). All versions can be either storey-high or as a block element 1000 mm (VP54, VP70), 980 mm (HV84) or 1470 mm (HV84) high.

The IW148 version is composed of two VP54 elements separated by a 40 mm cavity filled with rock wool slabs. The IW200 version is composed of two VP54 or VP70 elements separated by a 92 mm (2 x VP54) or 60 mm (2 x VP70) cavity filled with stone wool slabs. Stone wool slabs in accordance with EN 13162:2015 with fire behaviour class A1 in accordance with EN 13501-1 is used. The flow resistance of the rock wool slabs is at least 6 kPa·s/m².

All partition walls except version VP35 are equipped with milled cable ducts.

A flax fibreboard in accordance with EN 15197:2007 with a thickness - depending on the version - of 30 mm for VP54 and 50 mm for VP70 and a bulk density of 420 kg/m³ (± 10 %) is used as core.

For the VP54 and VP70 versions, a gypsum board in accordance with EN 520:2009 with fire behaviour class A2, s1 d0 in accordance with EN 13501-1 with a minimum thickness of 9.5 mm and a bulk density of 800 kg/m³ (± 10 %) is used as the top layer on both sides.

For the HV84 version, a wood fibreboard in accordance with EN 13171:2015 with fire behaviour class E in accordance with EN 13501-1 with a minimum thickness of 20 mm and a bulk density of 250 kg/m³ to 270 kg/m³ is used as the top layer on both sides. The wood fibreboard can be plastered with a clay plaster.

For the SP54 and SP70 version, a chipboard in accordance with EN 13986:2015 with fire behaviour class E in accordance with EN 13501-1 with a minimum thickness of 9 mm and a bulk density of 600 kg/m³ (± 10 %) is used as the top layer on both sides.

A polyvinyl acetate adhesive is used to bond the top layer to the core in accordance with the specifications deposited with Deutsches Institut für Bautechnik. The processing guidelines of the adhesive manufacturer are observed.

A.1.2 Specification of manufacturing and installation

Manufacturing

The manufacturing of the partition kits is done as deposited with DIBt.

Partition wall joints must be butt-jointed or covered with non-flammable building materials.

Installation

General

It is the responsibility of the manufacturer to guarantee that the information about design and installation of the system Faay IPK 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.

Only the components described in Annex A.3 can be used for the system Faay IPK. The components have the essential characteristics listed in Annex A.2.

Design

The design of Faay IPK complies with Annex A.3. The system is installed into indoor spaces with normal indoor temperature and moisture conditions.

Installation

The preparation of floor, ceiling and walls, as well as the installation of the system Faay IPK is carried out in accordance with the current version of the manufacturer's installation manual.

In addition, the special features regarding the connection between the partition wall and the supporting structure and the permitted tolerances are observed.

A.1.3 Specification of Packaging, transport and storage

The packaging of the components and the ancillary materials are such that the products are protected from moisture during transport and storage, unless other measures are foreseen by the manufacturer for this purpose. The components are protected against damage and well identified as part of the system Faay IPK in the versions VP35, VP54, VP70, SP54, SP70, HV84, IW148, IW200/54 and IW200/70.

A.1.4 Specification of Use, Maintenance and repair

Any damage on the partition kit (dent, crack, etc.) cannot be repaired unless permitted by the manufacturer, as well as substitutions of any component of the kit. Use and maintenance instructions are detailed in the use and maintenance manual accompanying each Faay IPK system.

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A.2 Specification of essential characteristics - Characteristics of the system Faay IPK and methods of verification

A.2.1 Safety in case of fire (BWR 2)

Resistance to fire

No performance assessed.

A.2.2 Safety and accessibility in use (BWR 4)

Resistance to damage and functional failure from horizontal loads

Tab. 5: Resistance to dynamic loads (damage): classification of the Faay IPK versions VP54, VP70 and HV84.

Resistance to dynamic Loads	Resistance to damage from soft body impact load – 50 kg bag	Resistance to damage from hard body impact load – 1 kg steel ball
Use category and energy level	III 300 Nm	III 10 Nm

Tab. 6: Resistance to dynamic loads (functional failure): classification of the Faay IPK versions VP54, VP70 and HV84.

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
Use category and energy level	III 120 Nm	III 6 Nm

Resistance to damage and functional failure from eccentric vertical loads

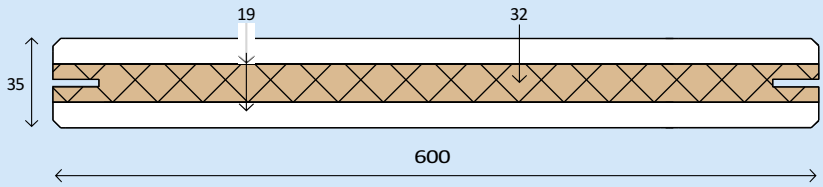
Tab. 7: Resistance to damage and functional failure from eccentric vertical loads: Classification of the Faay IPK versions VP54, VP70 and HV84.

Version	Loading according to Table 4 and 5 of EAD
VP54	A
VP70	A
HV84	A

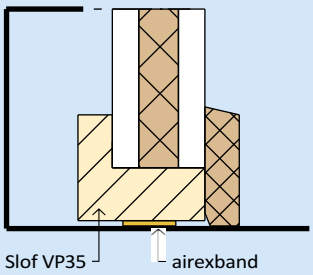
Resistance to horizontal linear static loads

Tab. 8: Resistance to horizontal linear static loads: classification of the Faay IPK versions VP54, VP70 and HV84.

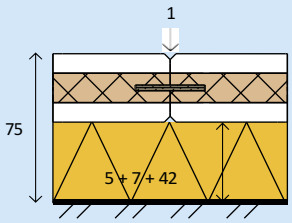
Version	Load at failure [kN/m]
VP54	1.81
VP70	3.22
HV84	2.06



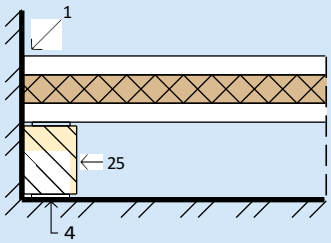
3.9.1 Construction element



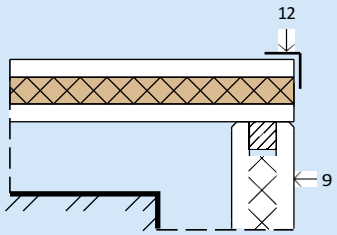
3.9.2 Fußbodenanschluss



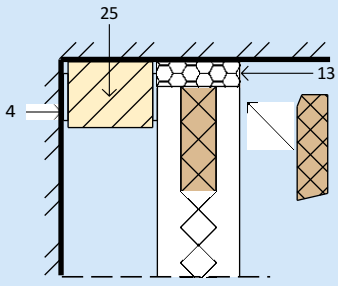
3.9.3 Wall connection



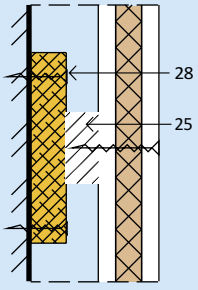
3.9.4 Wall connection



3.9.5 Corner connection



3.9.6 Ceiling connection



3.9.7 Corner connection

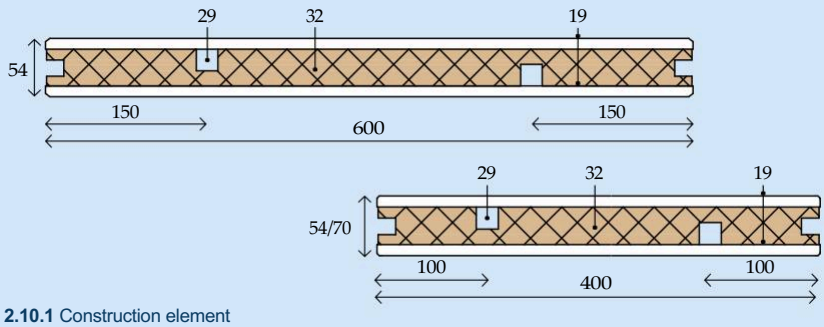
Detail coding

1 possibly glue with FAAYFIX® and fill and finish off with FAAY FILL & FINISH
2 wall socket
3 FAAYFIX® glue
4 foam band
5 vapour inhibitory layer
6 whitewood sole piece
7 mineral wool
8 chipboard tongue
9 half wooden tongue
10 watertight band
11 plastic U-section
12 corner bead
13 PU-foam / FAAYFOAM
14 edge lath
15 block
16 I-beam
17 T-section
18 Nonius hanger
19 plasterboard
20 water-repellent plasterboard
21 moist coating
22 tile glue (apply horizontally)
23 silicone paste
24 wall tile/floor tile
25 whitewood cavity closer
26 meranti/MDF boarding
27 mounting wedge
28 coconut felt
29 wire shaft
30 artificial fibre profile
31 front view
32 flax
33 cardboard
34 I-section
35 PIR
36 mineral wool with glass fibre
37 post
38 PU-kit
39 wire cavity
40 plywood
41 PVC top layer
42 ventilation
43 extruded polystyrene
44 clips
45 sound damping attachment
46 chipboard
47 HPL-plate
48 cover profile
49 steel suspension bracket
50 steel edge profile
51 connecting rail

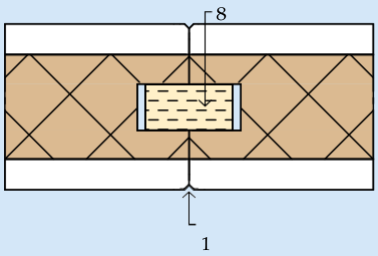
Faay IPK

VP35

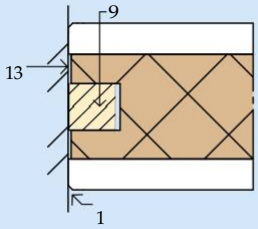
Annex A.3.1



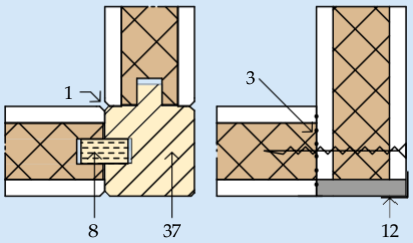
2.10.1 Construction element



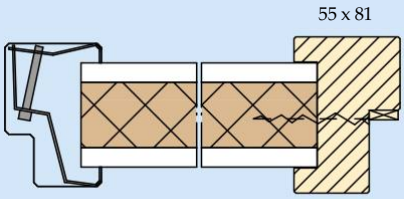
2.10.2 Joint



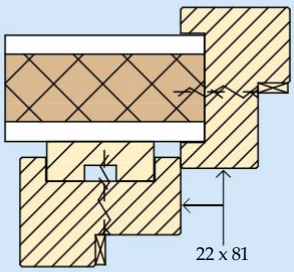
2.10.3 Wall connection



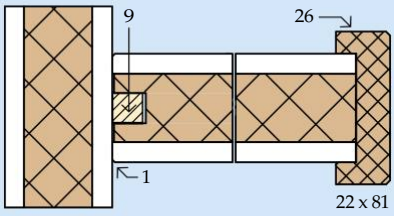
2.10.4 Corner connection



2.10.5 Casing connection

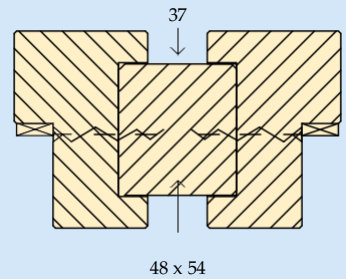


2.10.6 Casing connection

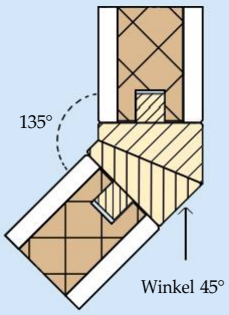


2.10.7 End caps

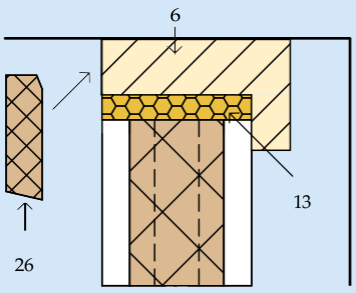
Faay IPK	Annex A.3.2
VP54	



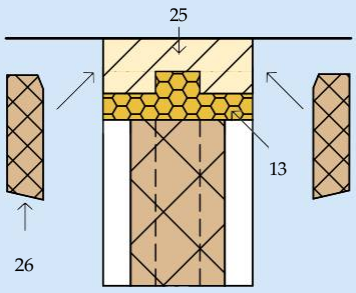
2.11.1 Middle post



2.11.2 Corner post



2.11.3 Ceiling connection



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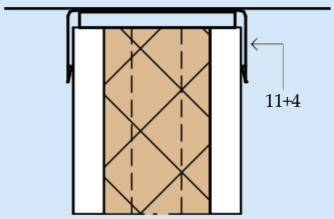
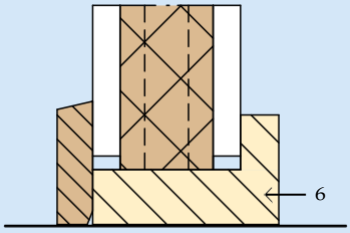
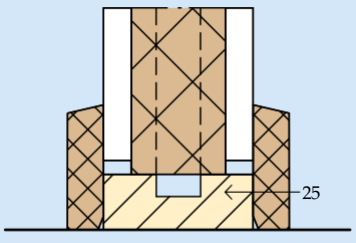


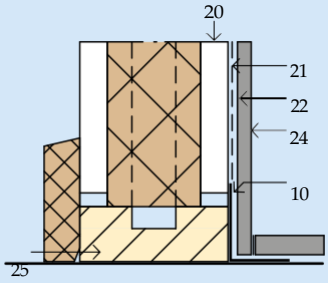
2.11.5 Ceiling connection



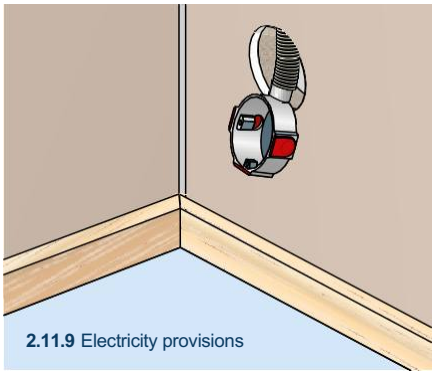
2.11.6 Floor connection



2.11.7 Floor connection



2.11.8 Floor connection sanitary core



2.11.9 Electricity provisions

Faay IPK	Annex A.3.3
VP54	

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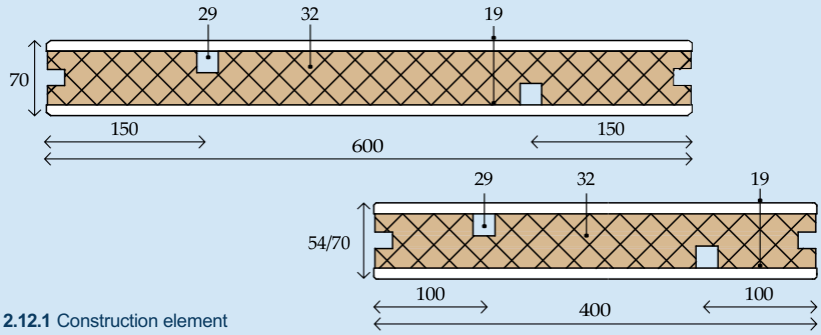
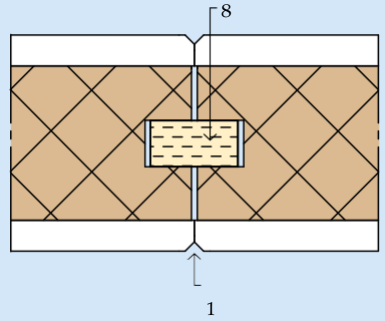
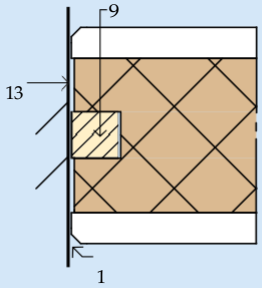


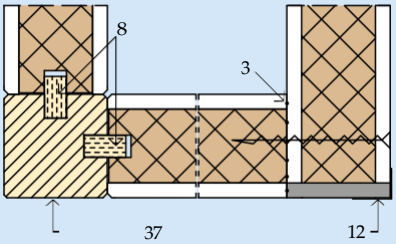
2.12.1 Construction element



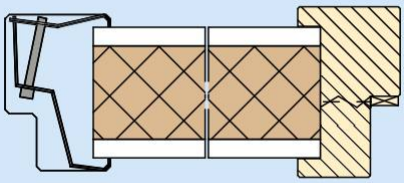
2.12.2 Joint



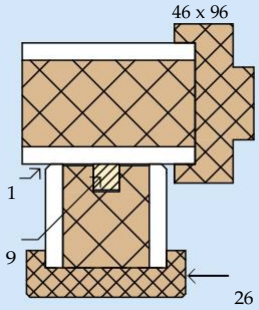
2.12.3 Wall connection



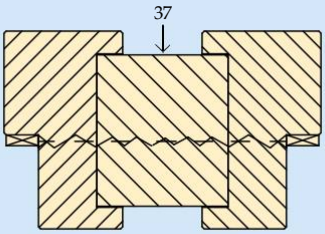
2.12.4 Casing connection



2.12.5 Casing connection

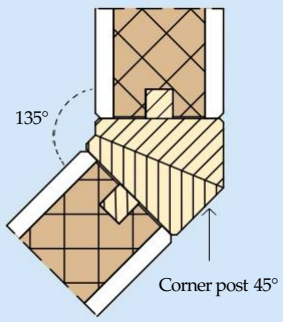


2.12.6 Joint/ Casing connection/ end

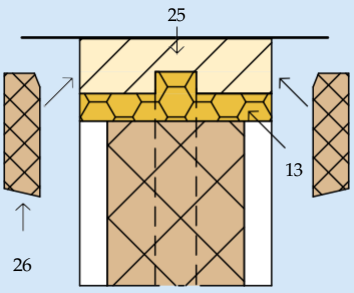


2.12.7 Middle post

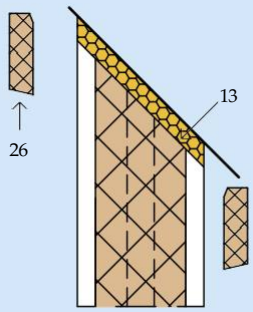
Faay IPK	Annex A.3.4
VP70	



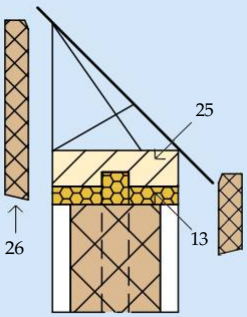
2.13.1 Corner connection



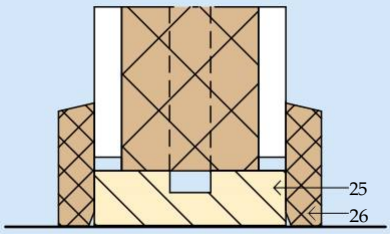
2.13.2 Ceiling connection



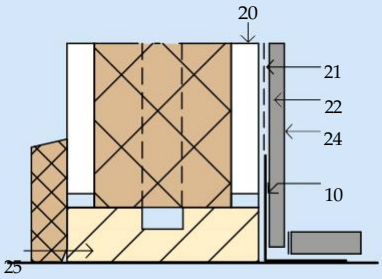
2.13.3 Ceiling connection



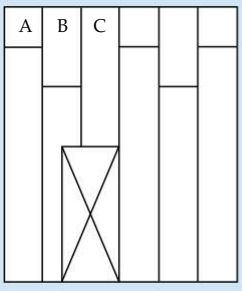
2.13.4 Ceiling connection



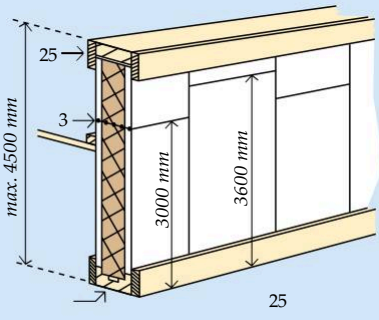
2.13.5 Floor connection



2.13.6 Floor connection sanitary core

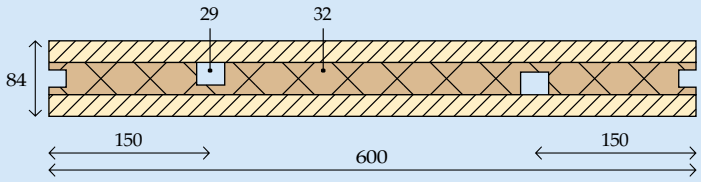


Wall heigh
Fitting piece A from elements
Fitting piece B from elements
Fitting piece C from elements

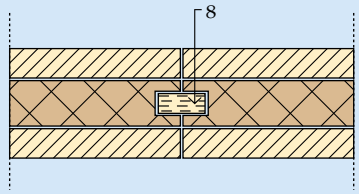


2.13.7 VP70 Height solution, other walltypes reconsile with Faay Vianen B.V.

Faay IPK	Annex A.3.5
VP70	

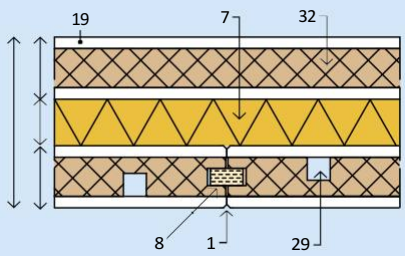


2.15.1 Construction element

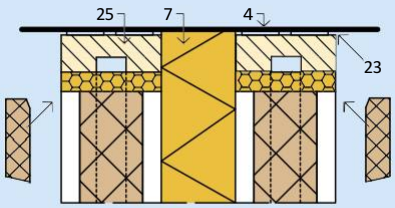


2.15.2 Joint

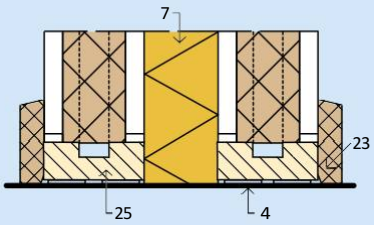
Faay IPK	Annex A.3.6
HV84	



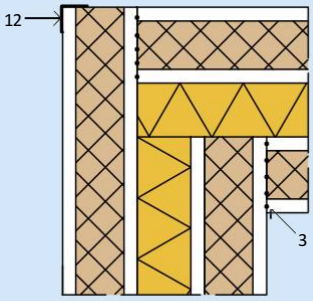
4.14.1 Joint



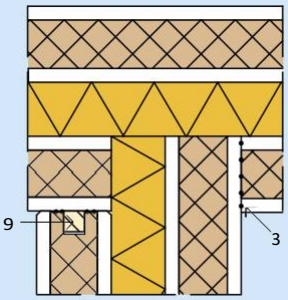
4.14.2 Ceiling connection



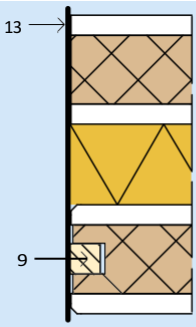
4.14.3 Floor connection



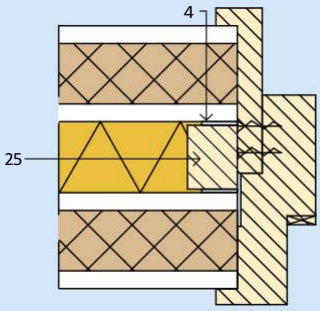
4.14.4 Corner joint



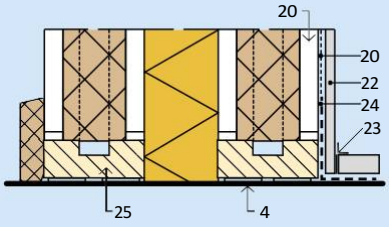
4.14.5 Connection



4.14.6 Wall connection

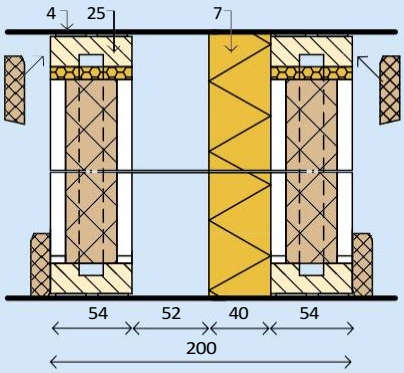


4.14.7 Casing connection

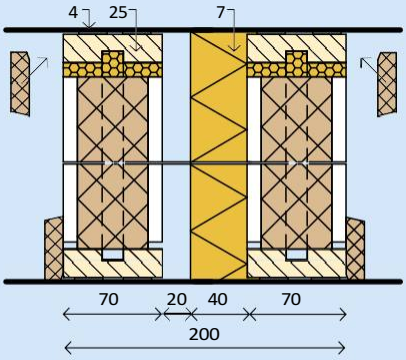


4.14.8 Floor connection sanitary core

Faay IPK	Annex A.3.7
IW148	



4.15.1 IW200/54



4.15.2 IW200/70

Faay IPK	Annex A.3.8
IW200	