MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

Área Anardi 5,
E-20730 Azpeitia
Gipuzkoa-Spain
Tel: +34 946 430 850
Lab_services@tecnalia.com
www.tecnalia.com

Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA
www.eota.eu

European Technical Assessment

ETA 23/0206 of 04.04.2025

General Part

Technical Assessment Body issuing the ETA:	**TECNALIA RESEARCH & INNOVATION**
Trade name of the construction product	KNAUF MAXIBOARD 25
Product family to which the construction product belongs	Fire protective board
Manufacturer	**KNAUF GmbH Sucursal en España** Avenida de Burgos 114, 6 planta E- 28050 Madrid, Spain
Manufacturing plants	KNAUF GmbH Sucursal en España, Ctra. de Incar Km 2,8; E-18130 Escúzar (Granada), Spain KNAUF GmbH Sucursal en España, Ctra. de Berga Km 28,5; E-25285 Guixers (Lérida) Spain
This European Technical Assessment contains	33 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 350142-00-1106 Fire protective board, slab and mat products and kits

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Table of contents

1. Technical description of the product

KNAUF MAXIBOARD 25 board is a laminated plasterboard composed of a gypsum core with additives and covered on both sides with a cellulose sheet. It is manufactured using a continuous lamination process in accordance with the EN 520 standard.

It has a grey exposed side that allows any final finish as indicated in the technical data sheet. The hidden side is brown. To facilitate the treatment of joints, the longitudinal edges are sharp-edged or square-edged for special applications. The transverse edges are cut off.

These boards are used in the interior of all types of new or refurbished buildings' ceilings, where a higher fire resistance is required.

	Nominal value (mm)	Tolerance
Thickness (mm)	25	±1.0
Length (mm)	2500-3000	+0 / -5
Width (mm)	900	+0 / -4

Table 1: Dimensions of the KNAUF MAXIBOARD 25 boards.

The ancillary products referred to in this ETA as a part of installation provisions or in the framework of determining performances are not covered by this ETA.

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1. Intended use

The intended use of KNAUF MAXIBOARD 25 board is to provide fire protection of loadbearing building elements when applied according to intended use type 8, and installed in assemblies in accordance with the provisions respectively given in Annex A.

Use category related to the element(s) intended to be protected:

- Type 8: Fire protective products that contribute to the fire resistance of fire separating assemblies with no load bearing requirements.

Use category related to environmental conditions:

- Type Z_2: internal use only

2.2. Working life

The provisions made in this European Technical Assessment are based on an assumed working life of 25 years as minimum, provided that KNAUF MAXIBOARD 25 are subject to appropriate use and maintenance. 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

The assessment of KNAUF MAXIBOARD 25 board has been performed in accordance with EAD 350142-00-1106 Fire protective board, slab and mat products and kits.

Basic requirement for construction work	Essential characteristic	Performance
BWR 2 Safety in case of fire	Reaction to fire	Class A2-s1,d0. See Clause 3.1.1
	Resistance to fire	See Clause 3.1.2 and Annex A
	Durability	Z_2. See Clause 3.1.3
BWR 4 Safety and accesibility in use	Flexural strength	See clause 3.2.1
	Dimensional stability	See clause 3.2.2

Table 2: Summary of KNAUF MAXIBOARD 25 board performance

The rest of relevant essential characteristics included in EAD 350142-00-1106 has not been assessed in this ETA.

3.1Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

The fire protective board KNAUF MAXIBOARD 25 board has been assessed without further testing according to 2006/673/CE Decision. KNAUF MAXIBOARD 25 board has a reaction to fire classification A2-s1,d0, in accordance with EN 13501-1 and Regulation (EU) 2016/364.

3.1.2 Resistance to fire

The resistance to fire performance, classified according to EN 13501-2, is given in Annex A of this document.

The tests and evaluation methods are also given in Annex A.

3.1.3 Durability

The fire protective board KNAUF MAXIBOARD 25 fulfils the requirements of use category Z_2 in accordance with EAD 350142-00-1106.

3.2 Safety and accessibility in use (BWR 4)

3.2.1 Flexural strength

Flexural strength has been determined in accordance with EAD 350142-00-1106 Clause 2.2.2.9 and EN 12467.

BOARD	MOR (MPa)
KNAUF MAXIBOARD 25	1.8

Table 3: Flexural strength

3.2.2 Dimensional stability

Dimensional stability of KNAUF MAXIBOARD 25 boards has been determined in accordance with EAD 350142-00-1106 Clause 2.2.2.10 and EN 318.

	$\delta l_{65/85}$ (mm/m)	$\delta t_{65/85}$ (%)	$\delta l_{65/30}$ (mm/m)	$\delta t_{65/30}$ (%)
KNAUF MAXIBOARD 25 Longitudinal	0.2	0.3	-0.2	-1.1
KNAUF MAXIBOARD 25 Transversal	0.1	0	-0.2	-1.3

Table 4: Dimensional estability

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

According to the Decision 1999/454/EC of the European Commission, the system of AVCP (see EC Delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire protective products	For fire compartmentation and/or fire protection or fire performance	Any	1

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 Assessment and Verification of Constancy of Performance (AVCP) system are laid down in the control plan deposited at Tecnalia Research & Innovation.

The Control Plan is a confidential part of the ETA and is only handed over to the notified body involved in the assessment and verification of constancy of performance.

Issued in Azpeitia, on 04/04/2025

TECNALIA LAB_SERVICES TECNALIA LAB_SERVICES

Firmado digitalmente por: MIGUEL MATEOS VIZUETE - 72574278D
Fecha y hora: 04.04.2025 10:13:45

Miguel Mateos

Innovation and Conformity Assessment Point

Tecnalia Research & Innovation

Annex A: Specification and assessment of fire separating element: fire separating ceilings with KNAUF MAXIBOARD 25 (intended use type 8)

The systems described in this annex has been tested and evaluated according to EN 1364-2 and classified in accordance with EN 13501-2.

The system installation should be carried out in accordance with the manufacturer's instructions and the provisions given in this ETA.

A.1. Suspended ceilings

A.1.1. Suspended ceiling type D113

Suspended ceiling type D113 composed by KNAUF MAXIBOARD 25 boards (see composition table below) screwed to a metal structure using screws every 150 mm. The metal structure has been formed using primary profiles fixed every 900 mm and suspended from the floor slabs using hangers every 600 mm, with assembly secondary profiles fixed perpendicularly to the first ones using cross tap and placed with a maximum distance of 400. The perimeter frames and profiles are fastened to the supporting construction with anchors. An acoustic strip was fitted to the perimeter of the metal structure. All the joints between boards are fixed in each of the layers with filler and joint strips put in place. The heads of the screws of all the boards have also been covered.

System	Composition of boards	Profile	Hangers distance (mm)	Primary profiles distance (mm)	Secondary profiles distance (mm)	Classification
D113	2x25	CD 60/27/0,6	600	900	400	EI 120(a←b)

Ancillary products:

Designation	Reference	Material	Characteristics
Knauf U-profile (perimeter profile)	U Profile 30x30	Galvanised steel	Thickness = 6/10e 28x28x28
Knauf ceiling profile	CD channel 60x27x0.6	Galvanised steel	Thickness = 6/10e 27x60x27
Lifting accessories	Nonius Hanger Upper part	Galvanised steel	125/30/54 mm
Connection accessories between masters	Flush connector for master 60/27	Galvanised steel	
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30'	Powdered gypsum + additives	
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm
Clamping fixture to metal beam		Galvanised steel	

A.1.2. Suspended ceiling type D112 CD 60/27

Suspended ceiling type D112 formed by KNAUF MAXIBOARD 25 boards (see composition table below) screwed to a galvanised steel structure comprised of primary profiles with a distance between axes of 800 and suspended from the supporting construction using hangers with a distance of 700 mm between them and secondary profiles fixed perpendicularly to the primary ones with stand for profiles and placed with a maximum modulation of 400 between axes. A 30x30 U-profile is fixed to the perimeter with fastenings every 600 mm approximately and an acoustic strip in the back of the whole profile. The profiles of the primary structure are supported on this U-channel in a lengthwise direction and the secondary profiles are then fitted onto this profile. For the fastenings of boards self-drilling screws are used. All the joints between boards are fixed in each of the layers with filler and joint strips put in place. The heads of the screws of all the boards have also been covered.

System	Composition of boards	Profile	Hangers distance (mm)	Primary profiles distance (mm)	Secondary profiles distance (mm)	Classification
D112	2x25	CD 60/27/0,6	700	800	400	EI 120(a←b)

Ancillary products:

Designation	Reference	Material	Characteristics
Knauf U-profile (perimeter profile)	U Profile 30x30	Galvanised steel	Thickness = 6/10e 27x28x27
Knauf ceiling profile	CD channel 60x27x0.6	Galvanised steel	Thickness = 6/10e 27x60x27
Lifting accessories	Nonius Hanger Upper part	Galvanised steel	125/30/54 mm
Connection accessories between masters	Cross connector	Galvanised steel	
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30’	Powdered gypsum + additives	
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm

A.1.3. Field of application

- Any dimension of ceiling provided that the distribution per unit area of the hangers is not reduced, and the distance between hangers is not increased. The distance between grid members and the load on the hanger, shall not be increased.
- Any height of cavity.
- Any length of hangers.
- Inclusion of cables, pipes, etc. above the ceiling provided they are installed in such a manner that they give no additional mechanical load to the ceiling during the fire.

- Use of access panels for the following systems:
    - System D112, 2 x 25, CD 60/27/0,6: Trapdoor KNAUF CORTAFUEFO TEC EI120. Dimensions between 300 mm x 300 mm and 800 mm x 800 mm.
- Use of additional suspended load of 20 kg/m^2 for the following systems, provided that the suspended materials have a minimum fire reaction classification of B s2 d0 and the loads are suspended using KNAUF direct anchoring elements by using Knauf TN screws:
    - System D112, 2 x 25, CD 60/27/0,6.

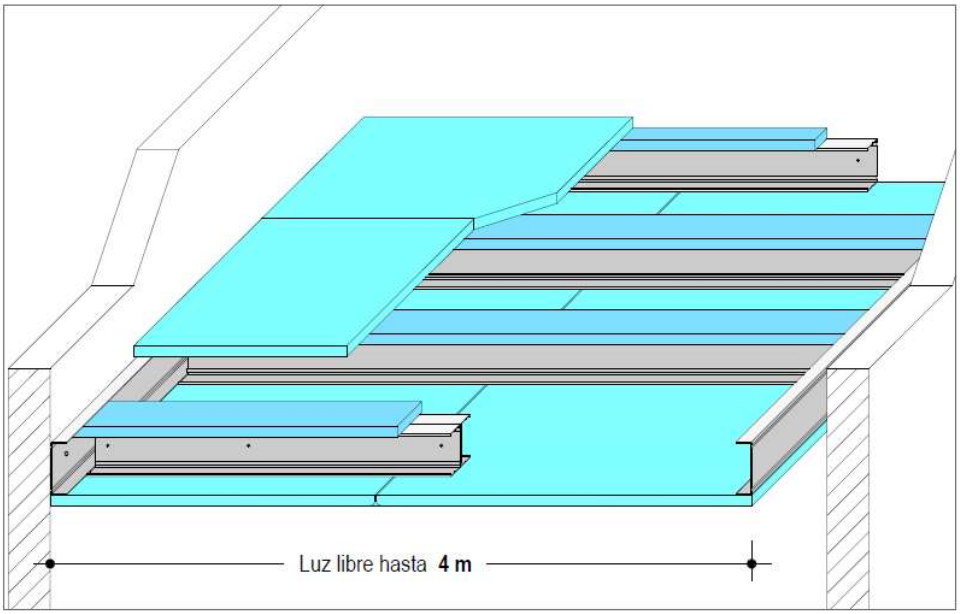
A.2. Self-supporting ceilings

A.2.1. Knauf D 131 175/450 with KNAUF MAXIBOARD 25 (25A+100H+25A)+LM

A.2.1.1. Tested assembly

Self-supporting ceiling consisting of a KNAUF MAXIBOARD 25 plasterboard, screwed under a 100 mm wide steel profile. Another KNAUF MAXIBOARD 25 plasterboard is supported on it. In the cavity of the ceiling is included a 100 mm thick mineral wool.
The acoustic strip is placed on the back pf the perimeter profiles. The rail is fixed to the frame (just on the 3 m side) anchoring each 600 mm. Similarly, a stud is anchored to a side of the frame (the other side is a free edge).
The profiles KNAUF 100/40 are fixed to each other by screws Ø3,5 x 9,5 mm, in spacing of 300 mm, creating H shape profiles. An 80 mm wide strip of KNAUF MAXIBOARD 25 with a bolt spacing of 250 mm is screwed onto one of the wings using Ø3,5 x 35 screws. H shape profiles are placed in spacing of 450 mm.
The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles. To perform the testa joints, a 80 mm width KNAUF MAXIBOARD 25 strip is screwed with board-board screws. Jointfiller is placed to finish the joints. The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles.
The bottom layer of KNAUF MAXIBOARD 25 is fastened to the underside of profiles with Ø3,5 x 35 screws at a spacing of 250 m.
The joints of the two plasterboard layers must be filled, as well as the screw heads of the bottom layer.

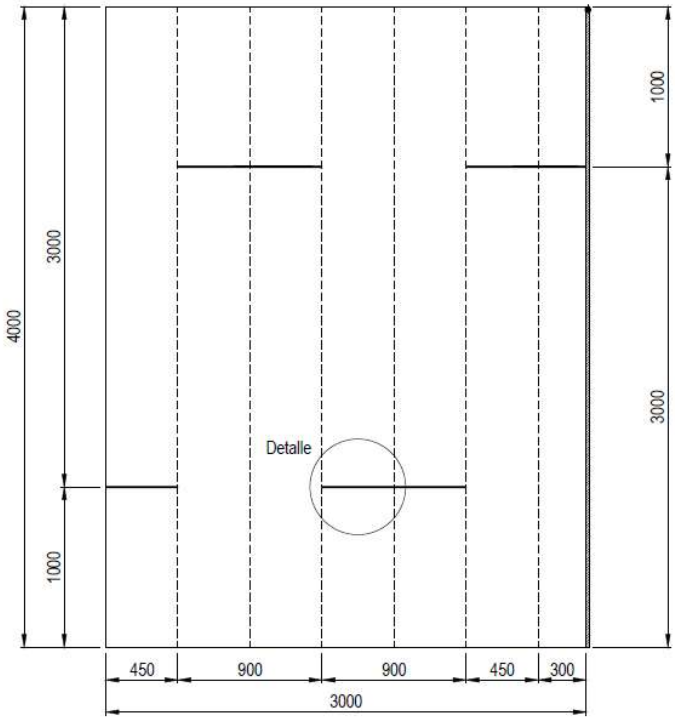
Designation	Reference	Material	Characteristics
U shape rail	Rail 125/40	Galvanised steel	Thickness = 6/10e 125x40
C shape stud	Stud 100/40	Galvanised steel	Thickness = 6/10e 39x98.8x41
Insulation	ULTRACOUSTIC PLUS	Mineral wool	1350 x 600 mm
Board fixing screw	TN D3.5x35	Steel	D3.5x35
Screw board-board	PL D5.5x38	Galvanised steel	D5.5x38
Screw metal-metal	LB D3.5x9.5	Galvanised steel	D3.5x9.5
Hilti Anchors	HUS3-P	Anchor	D6x40
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30’	Powdered gypsum + additives	
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm

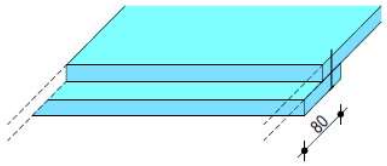


KNAUF www.Knauf.es	Sistema: D131 Techo biapoyado (tamaño 4x3m) placa 25 A de 900 mm de ancho	Escala: 1/10	Proyectado:	Fecha:
	Cliente:	Referencia:	Dpto. Técnico	28/04/2021
	Proyecto: Perspectiva	Nº de plano: 1/4		

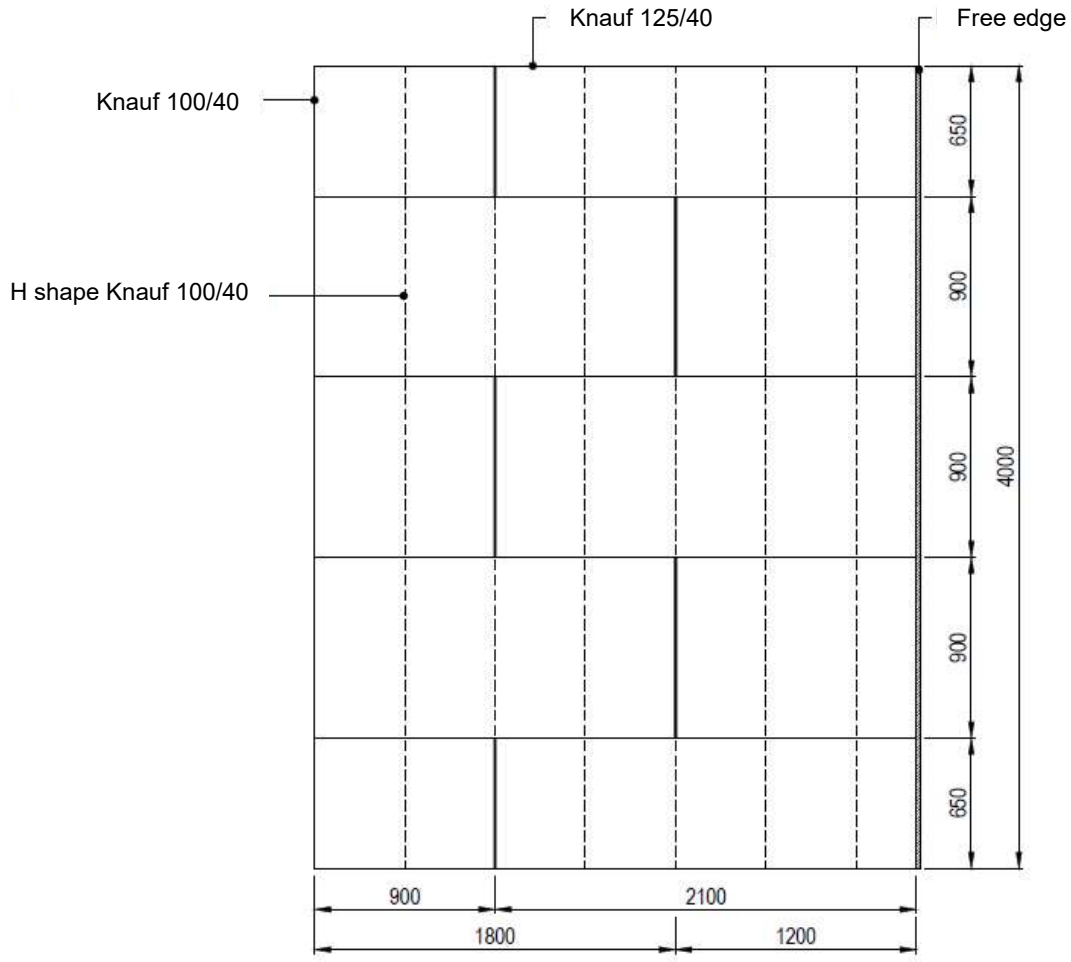
Expediente número: 21/249934-1190
Página: 34

Top board layer:

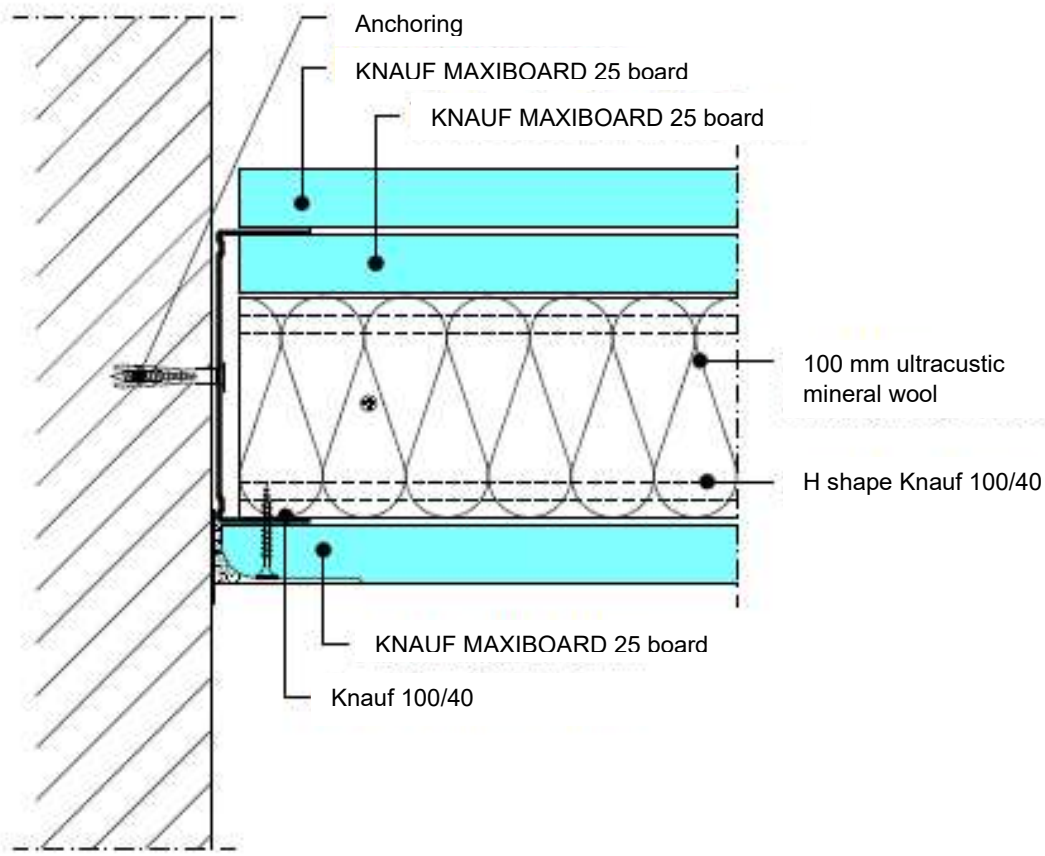




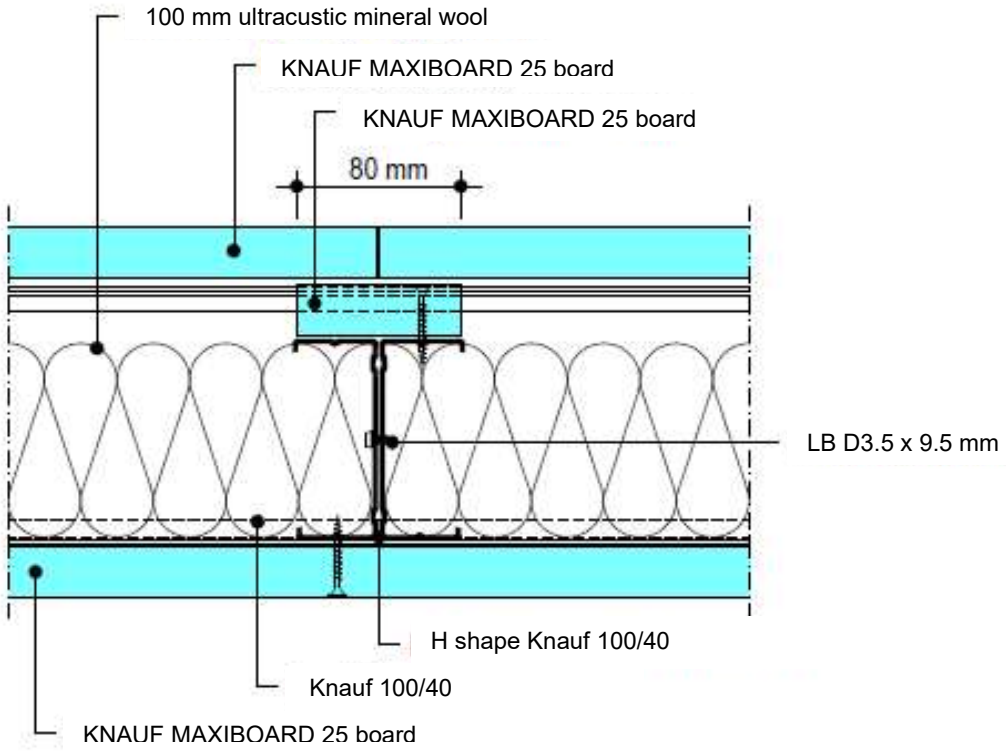
Bottom board layer:



Detail of fixed edge:



Detail of joint between boards:



A.2.1.2. Classification

EI 60(a←b)
EI 90(a→b)

A.2.1.3. Field of application

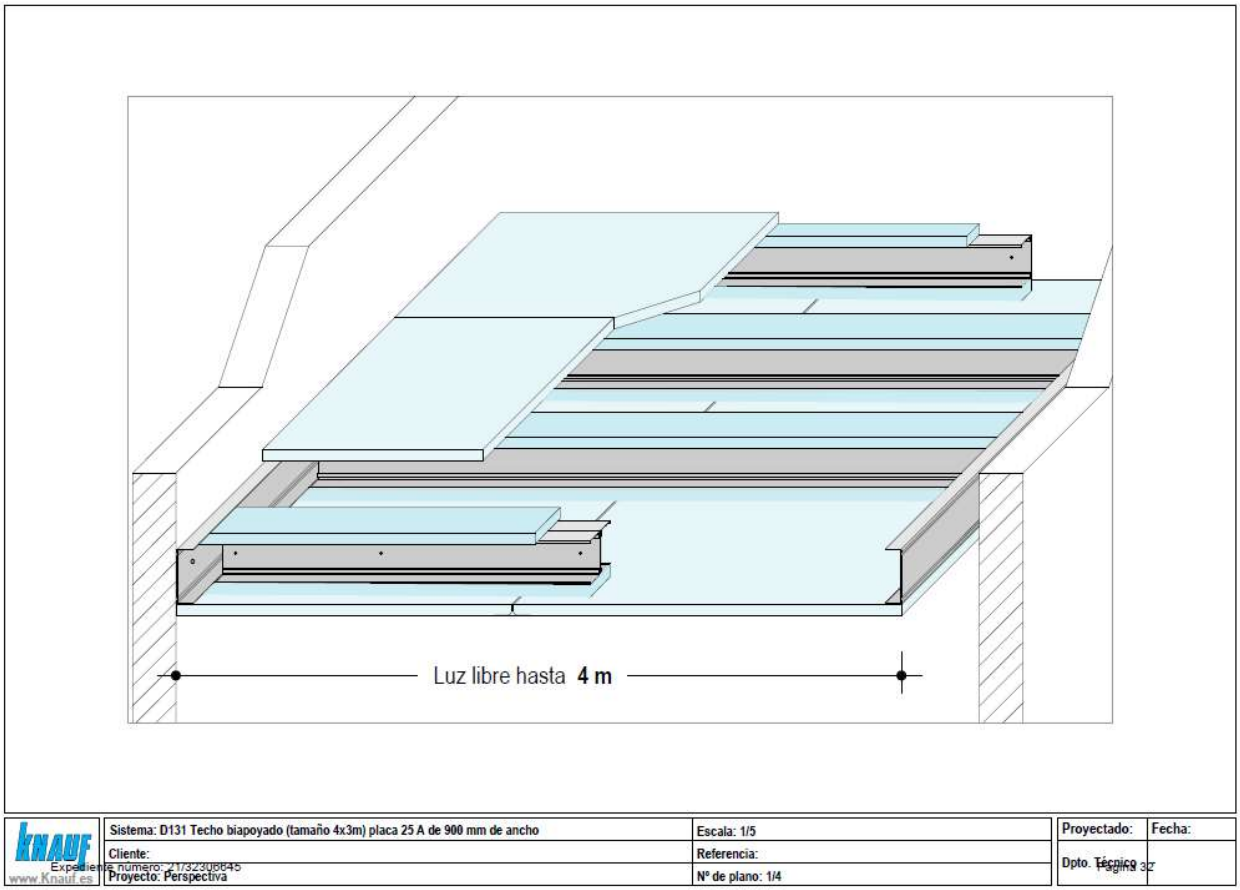
- Length up to 4,4 m and any width of ceiling.
- Any height of cavity.
- Applicable to the inclusion of cables, pipes etc. above the false ceiling provided that they are installed so as not to impose additional mechanical load on the suspended ceilings during fire.
- Type of insulation: ULTRACOUSTIC PLUS (100 mm) or SMART ACOUSTIK 7 (2 x 50 mm).

A.2.2. Knauf D 131 225/450 with KNAUF MAXIBOARD 25 (25A+125H+25A)+LM

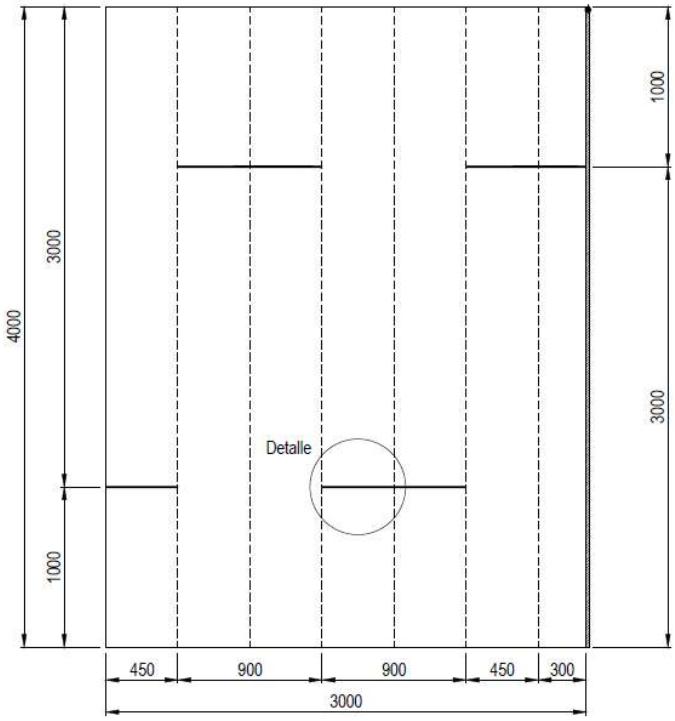
A.2.2.1. Tested assembly

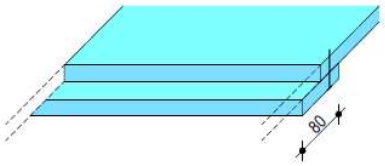
Self-supporting ceiling consisting of a KNAUF MAXIBOARD 25 plasterboard, screwed under a 125 mm wide steel profile. Another KNAUF MAXIBOARD 25 plasterboard is supported on it. In the cavity of the ceiling is included a 100 mm thick mineral wool.
The acoustic strip is placed on the back pf the perimeter profiles. The rail is fixed to the frame (just on the 3 m side) anchoring each 600 mm. Similarly, a stud is anchored to a side of the frame (the other side is a free edge).
The profiles KNAUF 125 are fixed to each other by screws Ø3,5 x 9,5 mm, in spacing of 300 mm, creating H shape profiles. An 80 mm wide strip of KNAUF MAXIBOARD 25 with a bolt spacing of 250 mm is screwed onto one of the wings using Ø3,5 x 35 screws. H shape profiles are placed in spacing of 450 mm. Another 80 mm wide strip is screwed to the lower wings of the H shape profiles, with a distance between screws of 250 mm.
The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles. To perform the testa joints, a 80 mm width KNAUF MAXIBOARD 25 strip is screwed with board-board screws. Jointfiller is placed to finish the joints. The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles.
The bottom layer of KNAUF MAXIBOARD 25 is fastened to the underside of profiles with Ø3,5 x 35 screws at a spacing of 250 m.
The joints of the two plasterboard layers must be filled, as well as the screw heads of the bottom layer.

Designation	Reference	Material	Characteristics
U shape rail	Rail 150	Galvanised steel	Thickness = 5,5/10e
C shape stud	Stud 125	Galvanised steel	Thickness = 6/10e
Insulation	Smart Acoustik 7	Mineral wool	Thickness = 100 mm (2x50 mm) Density = 70 kg/m^3
Board fixing screw	TN D3.5x35	Steel	D3.5x35
Screw board-board	PL D5.5x38	Galvanised steel	D5.5x38
Screw metal-metal	LB D3.5x9.5	Galvanised steel	D3.5x9.5
Hilti Anchors	HUS3-P	Anchor	D6x40
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30’	Powdered gypsum + additives	
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm

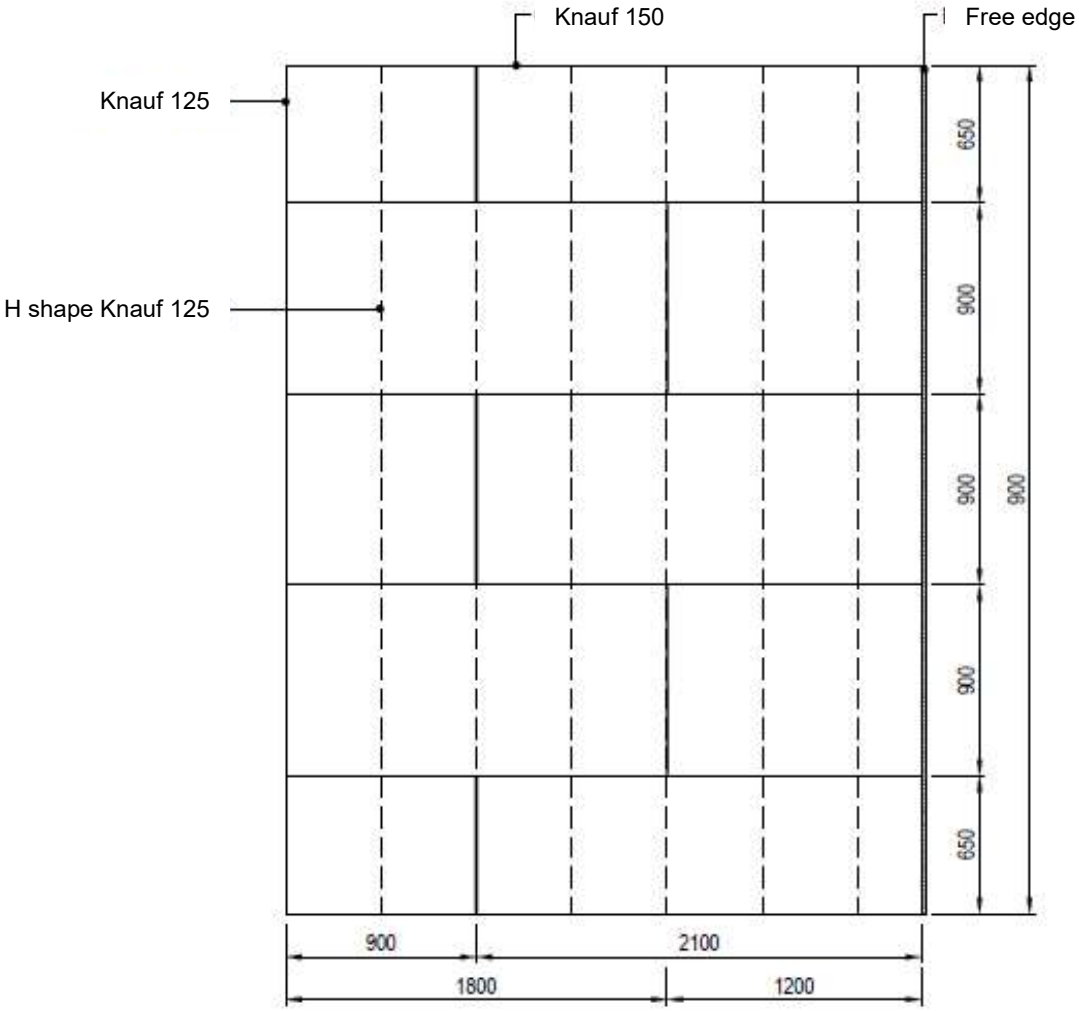


Top board layer:

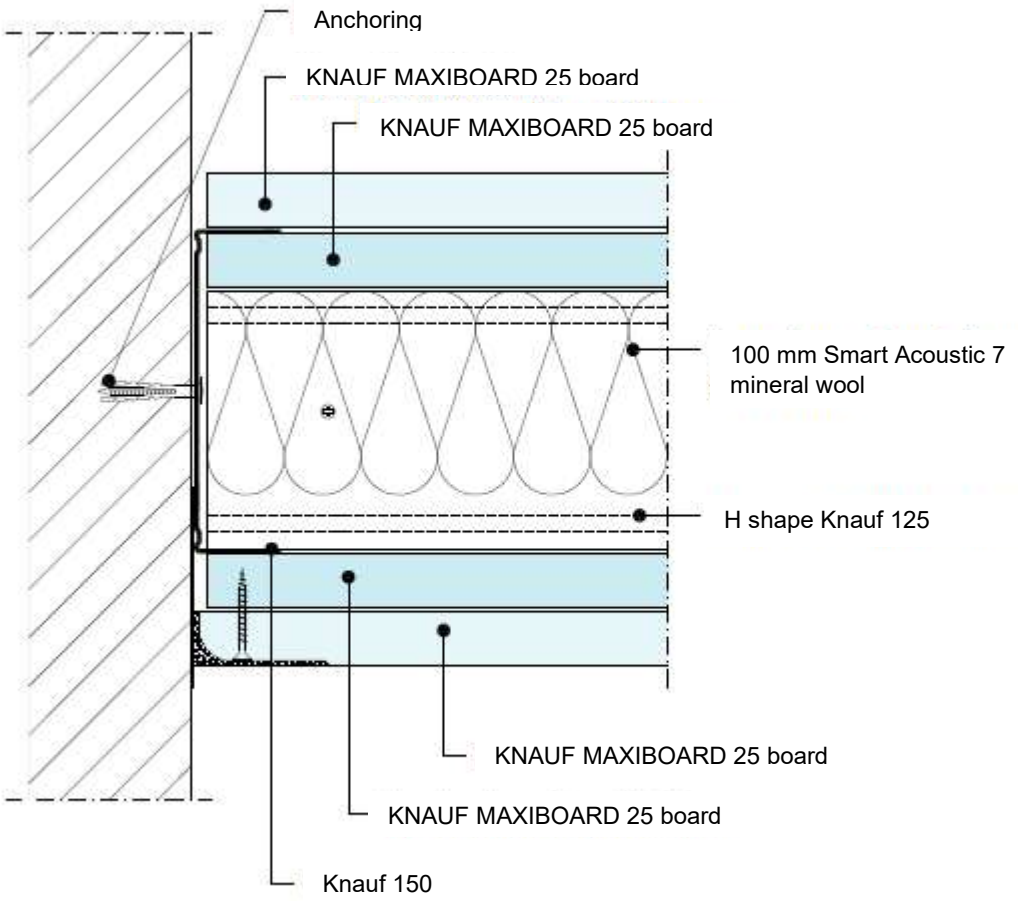




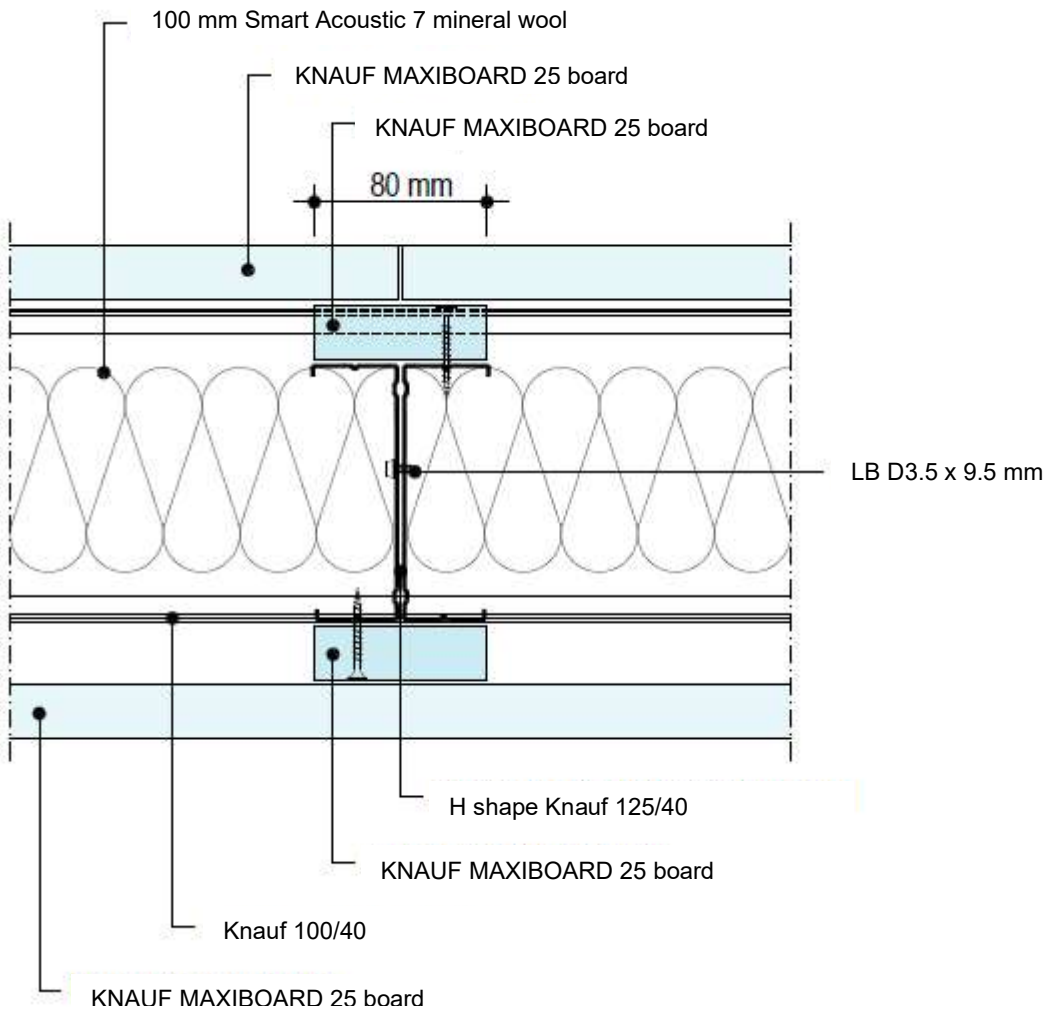
Bottom board layer:



Detail of fixed edge:



Detail of joint between boards:



A.2.2.2. Classification

EI 90(a←b)

A.2.2.3. Field of application

- Length up to 4 m and any width of ceiling.
- Any height of cavity.
- Applicable to the inclusion of cables, pipes etc. above the false ceiling provided that they are installed so as not to impose additional mechanical load on the suspended ceilings during fire.

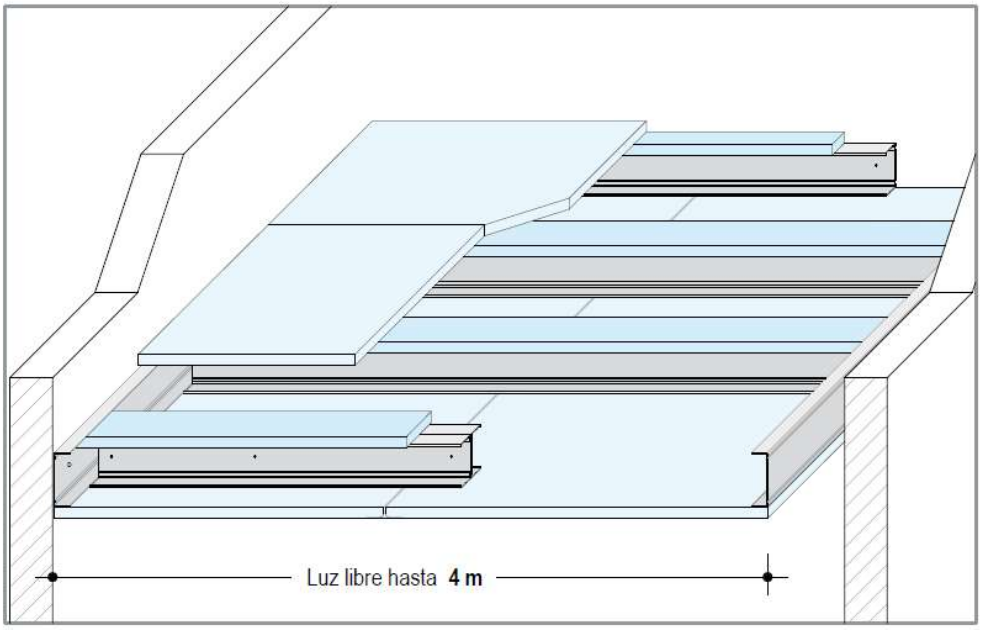
A.2.3. Knauf D 131 175/450 with KNAUF MAXIBOARD 25 (25A+100H+25A)+LM

A.2.3.1. Tested assembly

Self-supporting ceiling consisting of a KNAUF MAXIBOARD 25 plasterboard, screwed under a 100 mm wide steel profile. Another KNAUF MAXIBOARD 25 plasterboard is supported on it. In the cavity of the ceiling is included a 100 mm thick mineral wool.
The acoustic strip is placed on the back pf the perimeter profiles. The rail is fixed to the frame (just on the 3 m side) anchoring each 600 mm. Similarly, a stud is anchored to a side of the frame (the other side is a free edge).
The profiles KNAUF 100/40 are fixed to each other by screws Ø3,5 x 9,5 mm, in spacing of 300 mm, creating H shape profiles. An 80 mm wide strip of KNAUF MAXIBOARD 25 with a bolt spacing of 250 mm is screwed onto one of the wings using Ø3,5 x 35 screws. H shape profiles are placed in spacing of 450 mm.
The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles. To perform the testa joints, a 80 mm width KNAUF MAXIBOARD 25 strip is screwed with board-board screws. Jointfiller is placed to finish the joints. The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles.
The bottom layer of KNAUF MAXIBOARD 25 is fastened to the underside of profiles with Ø3,5 x 35 screws at a spacing of 250 m.
The joints of the two plasterboard layers must be filled, as well as the screw heads of the bottom layer.

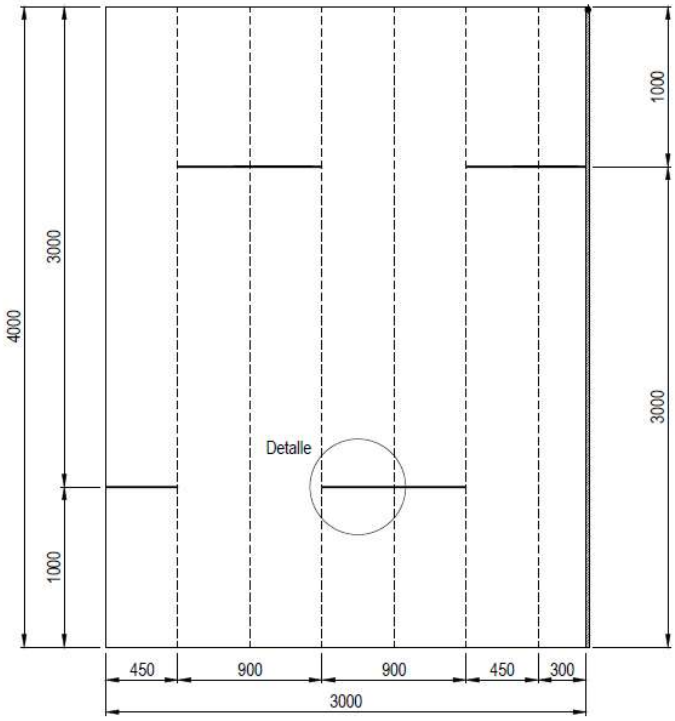
Designation	Reference	Material	Characteristics
U shape rail	Rail 125/40	Galvanised steel	Thickness = 6/10e 125x40
C shape stud	Stud 100/40	Galvanised steel	Thickness = 6/10e 39x98.8x41
Insulation	Smart Acoustik 7	Mineral wool	Thickness = 100 mm (2x50 mm) Density = 70 kg/m^3
Board fixing screw	TN D3.5x35	Steel	D3.5x35
Screw board-board	PL D5.5x38	Galvanised steel	D5.5x38
Screw metal-metal	LB D3.5x9.5	Galvanised steel	D3.5x9.5
Hilti Anchors	HUS3-P	Anchor	D6x40
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30’	Powdered gypsum + additives	

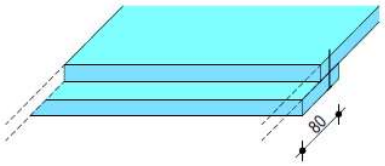
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm



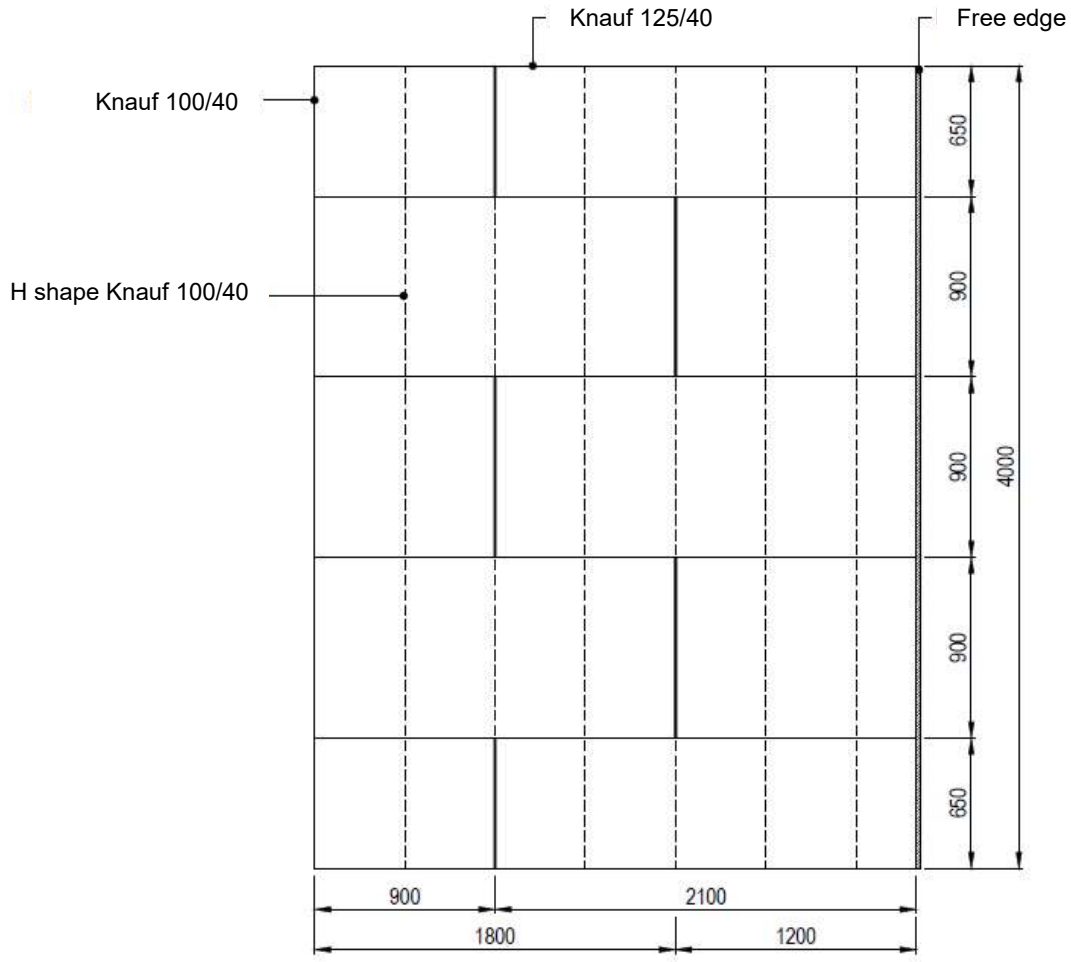
KNAUF www.Knauf.es	Sistema: D131 Techo biapoyado (tamaño 4x3m) placa 25 A de 900 mm de ancho	Escala: 1/10	Proyectado:	Fecha:
	Cliente:	Referencia:	Dpto. Técnico	marzo 2022
	Proyecto: Perspectiva	Nº de plano: 1/4		

Top board layer:

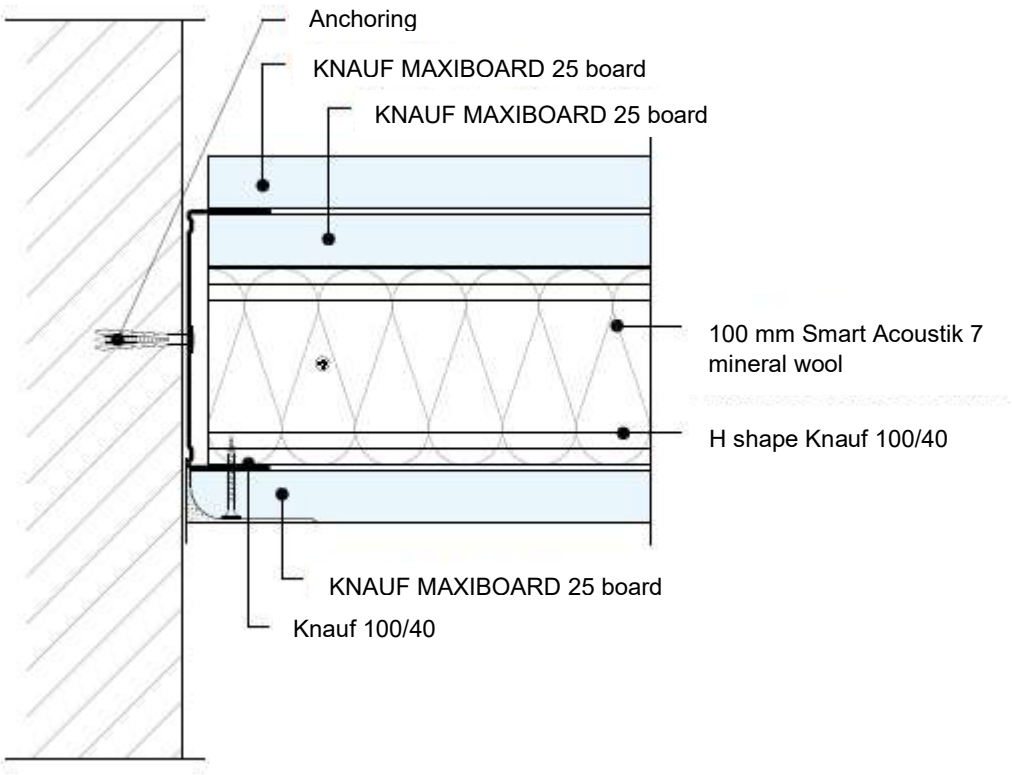




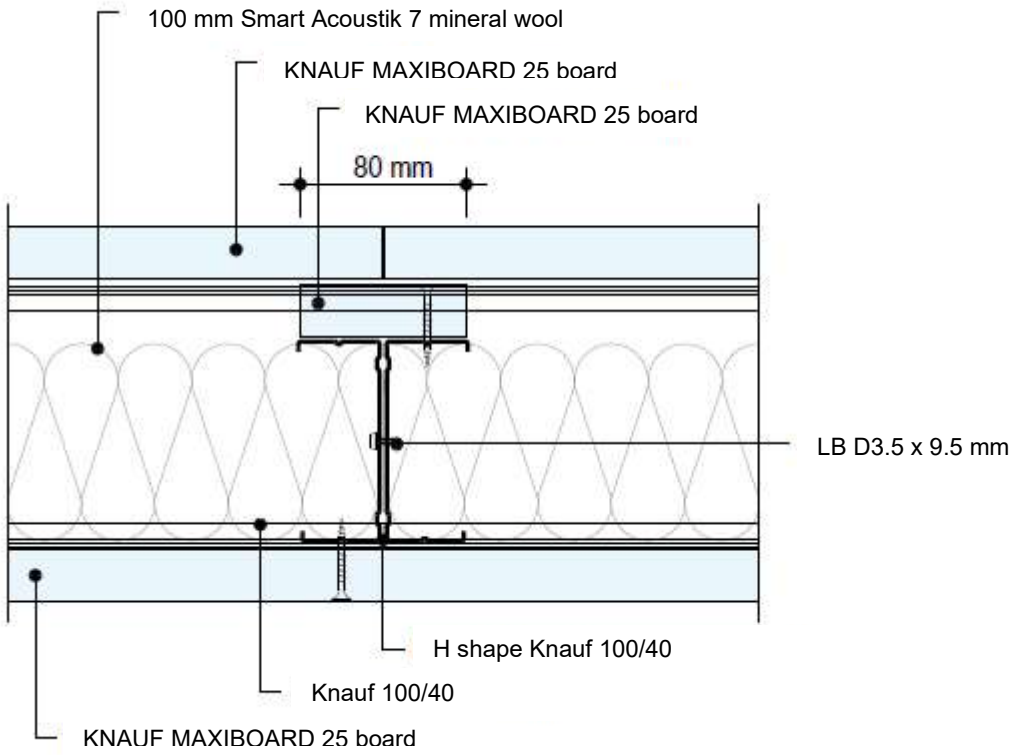
Bottom board layer:



Detail of fixed edge:



Detail of joint between boards:



A.2.3.2. Classification

EI 120(a→b)

A.2.3.3. Field of application

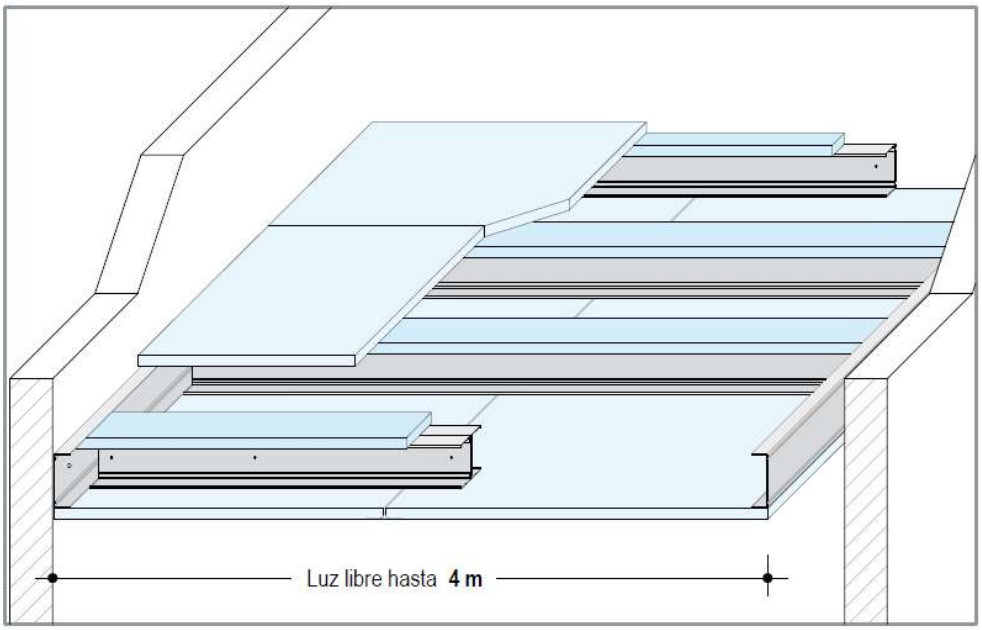
- Length up to 4 m and any width of ceiling.
- Any height of cavity.
- C shape stud 100/40 or 125/40.

A.2.4. Knauf D 131 175/450 with KNAUF MAXIBOARD 25 (25A+100H+25A)+LM

A.2.4.1. Tested assembly

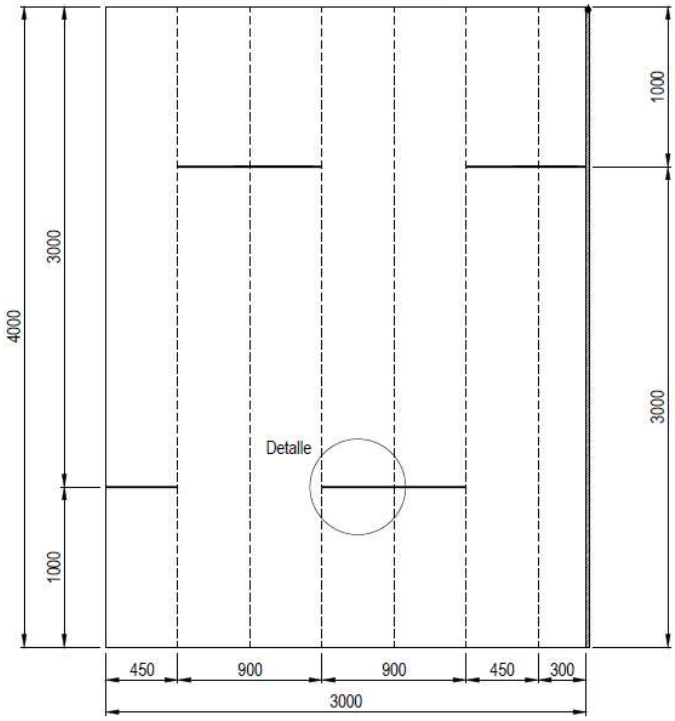
Self-supporting ceiling consisting of a KNAUF MAXIBOARD 25 plasterboard, screwed under a 100 mm wide steel profile. Another KNAUF MAXIBOARD 25 plasterboard is supported on it. In the cavity of the ceiling is included a 100 mm thick mineral wool.
The acoustic strip is placed on the back pf the perimeter profiles. The rail is fixed to the frame (just on the 3 m side) anchoring each 600 mm. Similarly, a stud is anchored to a side of the frame (the other side is a free edge).
The profiles KNAUF 100/40 are fixed to each other by screws Ø3,5 x 9,5 mm, in spacing of 300 mm, creating H shape profiles. An 80 mm wide strip of KNAUF MAXIBOARD 25 with a bolt spacing of 250 mm is screwed onto one of the wings using Ø3,5 x 35 screws. H shape profiles are placed in spacing of 450 mm.
The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles. To perform the testa joints, a 80 mm width KNAUF MAXIBOARD 25 strip is screwed with board-board screws. Jointfiller is placed to finish the joints. The top layer of KNAUF MAXIBOARD 25 board is placed on top of the profiles.
The bottom layer of KNAUF MAXIBOARD 25 is fastened to the underside of profiles with Ø3,5 x 35 screws at a spacing of 250 m.
The joints of the two plasterboard layers must be filled, as well as the screw heads of the bottom layer.

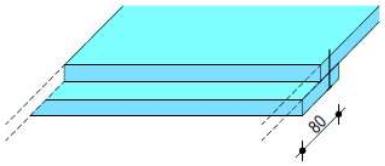
Designation	Reference	Material	Characteristics
U shape rail	Rail 125/40	Galvanised steel	Thickness = 6/10e 125x40
C shape stud	Stud 100/40	Galvanised steel	Thickness = 6/10e 39x98.8x41
Insulation	Smart Acoustik 7	Mineral wool	Thickness = 100 mm (2x50 mm) Density = 70 kg/m^3
Board fixing screw	TN D3.5x35	Steel	D3.5x35
Screw board-board	PL D5.5x38	Galvanised steel	D5.5x38
Screw metal-metal	LB D3.5x9.5	Galvanised steel	D3.5x9.5
Hilti Anchors	HUS3-P	Anchor	D6x40
Knauf joint strips		Micro-perforated paper	Width = 52 mm Thickness = 2/10
Knauf jointfiller	Knauf Unik 30’	Powdered gypsum + additives	
Acoustic strip	Knauf acoustic strip	Polyurethane foam tape.	Width = 30 mm Thickness = 3.2 mm



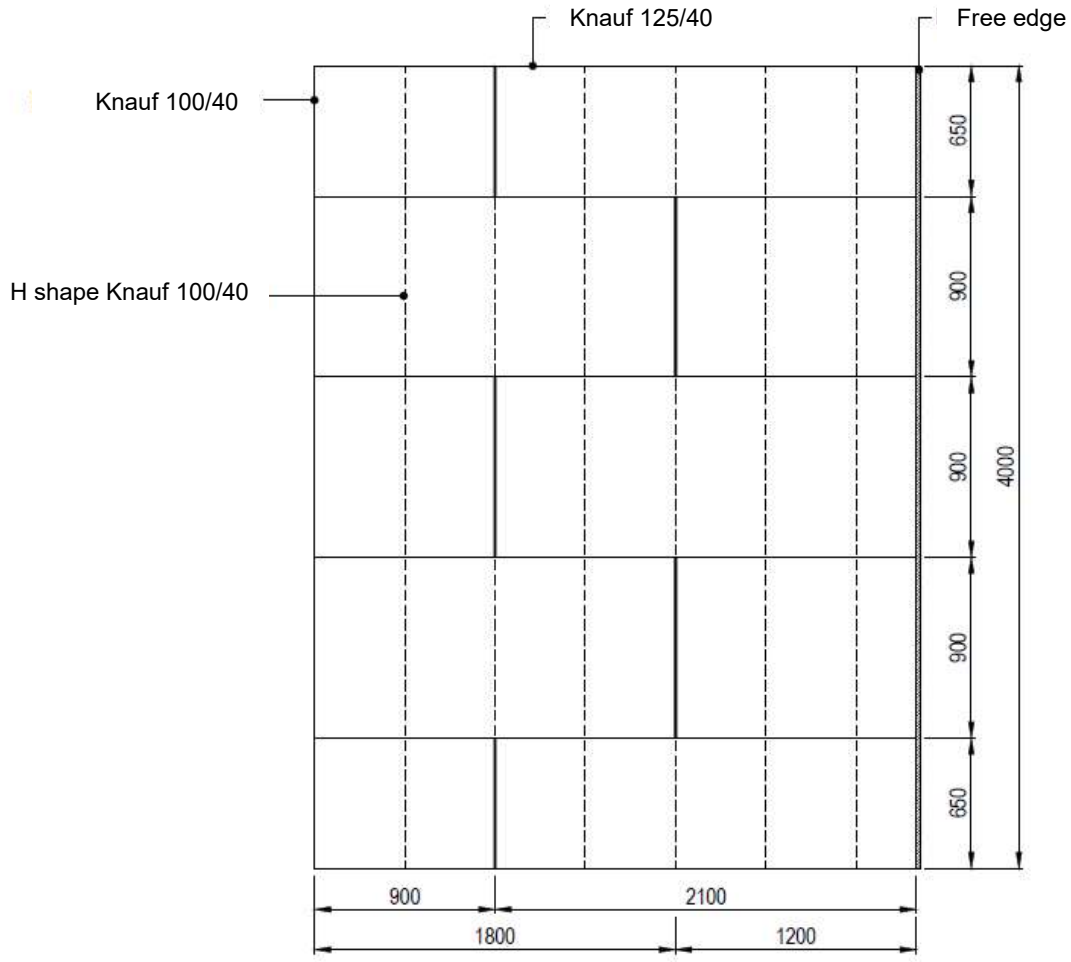
KNAUF www.Knauf.es	Sistema: D131 Techo biapoyado (tamaño 4x3m) placa 25 A de 900 mm de ancho	Escala: 1/10	Proyectado:	Fecha:
	Cliente:	Referencia:	Dpto. Técnico	marzo 2022
	Proyecto: Perspectiva	Nº de plano: 1/4		

Top board layer:

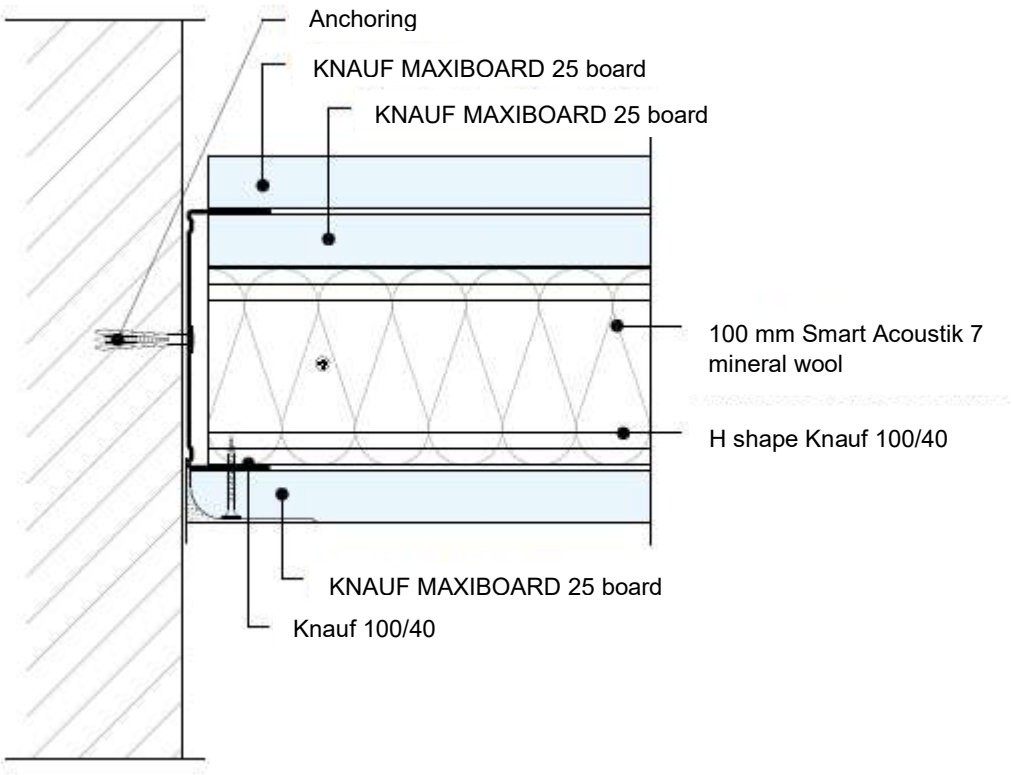




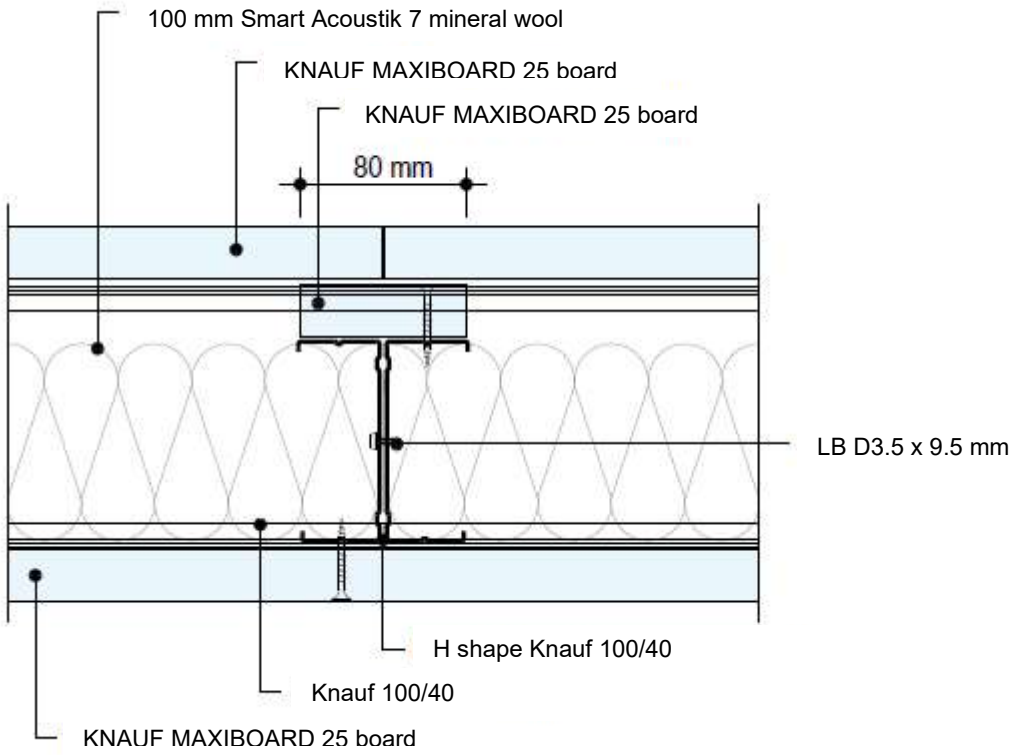
Bottom board layer:



Detail of fixed edge:



Detail of joint between boards:



A.2.4.2. Classification

EI 120(a→b)
EI 60(b→a)

A.2.4.3. Field of application

- Length up to 4 m and any width of ceiling.
- Any height of cavity.