CI/SfB

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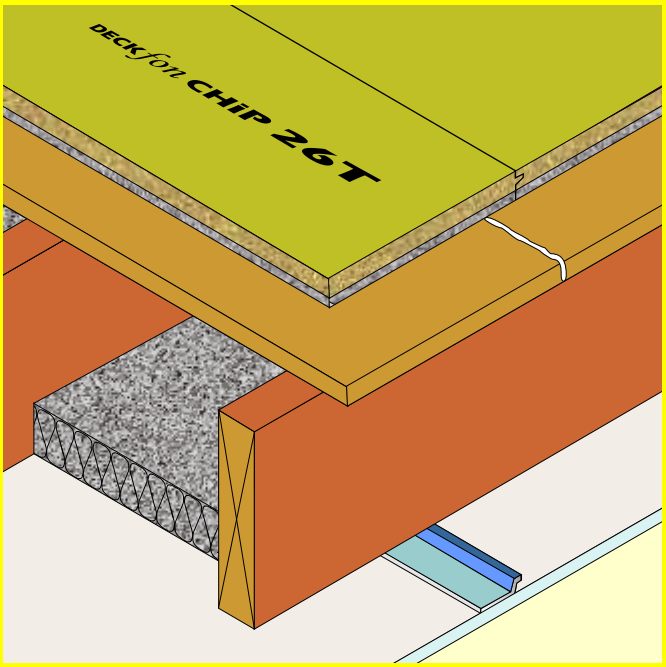
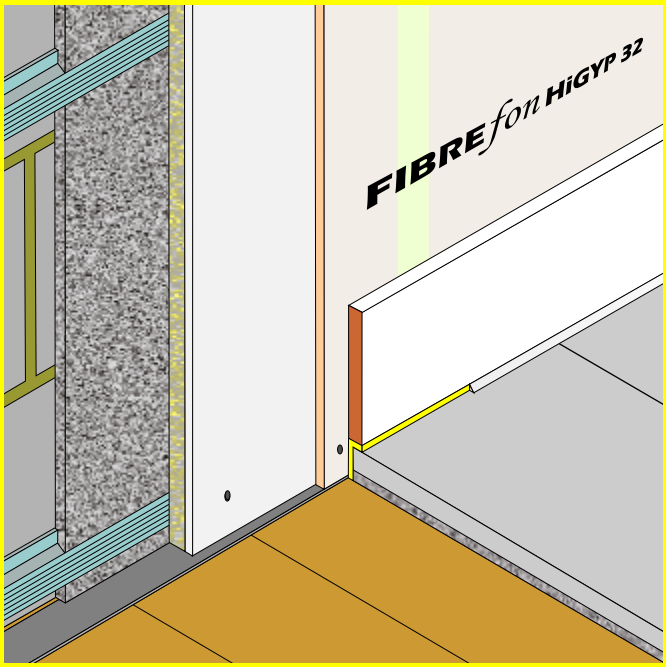
Cellecta®

INNOVATION IN INSULATION

Acoustic Solutions for Refurbishment & Conversion Projects



Floors



Walls

Cellecta®

INNOVATION IN INSULATION

Cellecta is one of the UK's largest producers of environmentally friendly high performance thermal and acoustic insulation products. For over 17 years our products have been supplied to all sectors of the construction industry including: house builders, building contractors, ground workers, screeders, roofers and dryliners.

This refurbishment and conversion solution guide demonstrates clearly how a number of commonly found separating floor and wall constructions can have their acoustic performance upgraded with proven, cost effective treatments that will satisfy the demanding legislative requirements.

What do the Building Regulations require?
To comply with Part E of the Building Regulations[1], all separating floors and walls must be constructed in such a way as to achieve minimum prescribed acoustic values. Tests must be carried out by an accredited acoustic engineer to demonstrate compliance.

Refurbishment and conversion projects
Each construction element adopting exactly the same construction must be pre-completion tested (PCT) at the rate of 1:10.

Historic Buildings
With some historical buildings undergoing a material change of use it may not be practical to achieve the prescribed sound values. In these cases, Building Control bodies should be satisfied that everything reasonable has been done to improve the sound performance of the structure. PCT is normally required and the results submitted accordingly.

Performance requirements

	England & Wales Part E requirements		Scotland
	New Build	Change of use	Building Standards Section 5 (2005)
Airborne $D_{nT,w}+C_{tr}$	≥45 dB (Walls & floors)	≥43 dB (Walls & floors)	>52 dB[2] (Walls & floors)
Impact $L_{nT,w}$	≤62 dB (Floors)	≤64 dB (Floors)	<61 dB (Floors)

[1] Also relevant to Section 5 - 'Noise' of the Scottish Building Standards
[2] Effect of C_{tr} not taken into account

Cellecta & The Environment

Cellecta operates a progressive sustainable environmental policy, with all our insulation products manufactured from materials which are recyclable or made from recycled materials.

0 Global Warming Potential

0 Ozone Depletion Potential

FSC Certified Supplier

Product Range

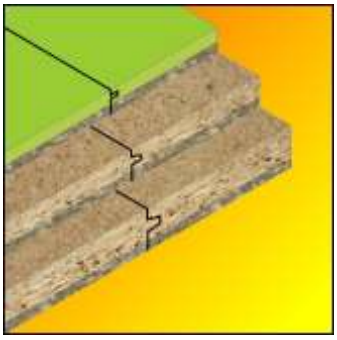
ScreedBoard 28®

ScreedBoard 28 is the ultimate acoustic overlay treatment. Its high density and unique resilient layer provides outstanding acoustic performance.

- Only 28mm thick
- Hard wearing - looks and feels like screed
- Interlocking edges - no need for screws
- Easy to cut to size and install
- Accepts ceramic tiles

Made from Recycled Materials

0 Global Warming Potential



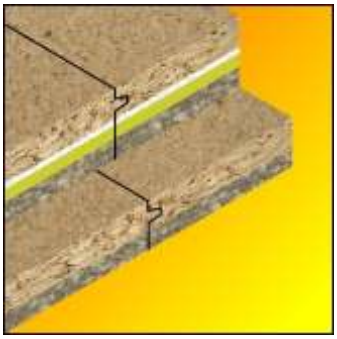
DECKfon® MDF 17T, CHiP 26T & 30T

DECKfon overlay treatments are designed to improve the acoustic performance of a decked timber floor and where the ceiling is to be replaced

- Three thickness' available: 17, 26 & 30mm
- Moisture resistant floorboard
- Tongue and groove edge detail
- Easy to cut to size and install

Made from Recycled Materials

0 Global Warming Potential



DECKfon® CHiP 37T & Quattro

DECKfon structural treatments are designed to be laid directly on the floor joists. Use 37T to improve the acoustic performance for floors where the ceiling is replaced and Quattro on floors where the ceiling is not to be removed.

- Two thickness' available: 37 & 45mm
- Moisture resistant chipboard
- Tongue and groove edge detail
- Easy to cut to size and install

Made from Recycled Materials

0 Global Warming Potential

FIBREfon® HiGYP® 32

Installing FIBREfon HiGYP high density wall boards will reduce airborne sound transmission through all types of existing or new build timber stud, metal frame and masonry walls

- Only 32mm thick
- Excellent acoustic performance
- High impact facing
- Easy to cut to size and install

Made from Recycled Materials

0 Global Warming Potential

FIBREfon® Micro Slab 15 & 50

FIBREfon Micro Slab's unique fibres give the product very high sound absorption properties. It can be fitted between joists and ceiling cavities or partitions and wall voids.

- Only half the thickness required compared to traditional mineral wool to achieve the same acoustic performance
- Itch-free fibres
- Supplied pre-cut to suit the application

Made from Recycled Materials

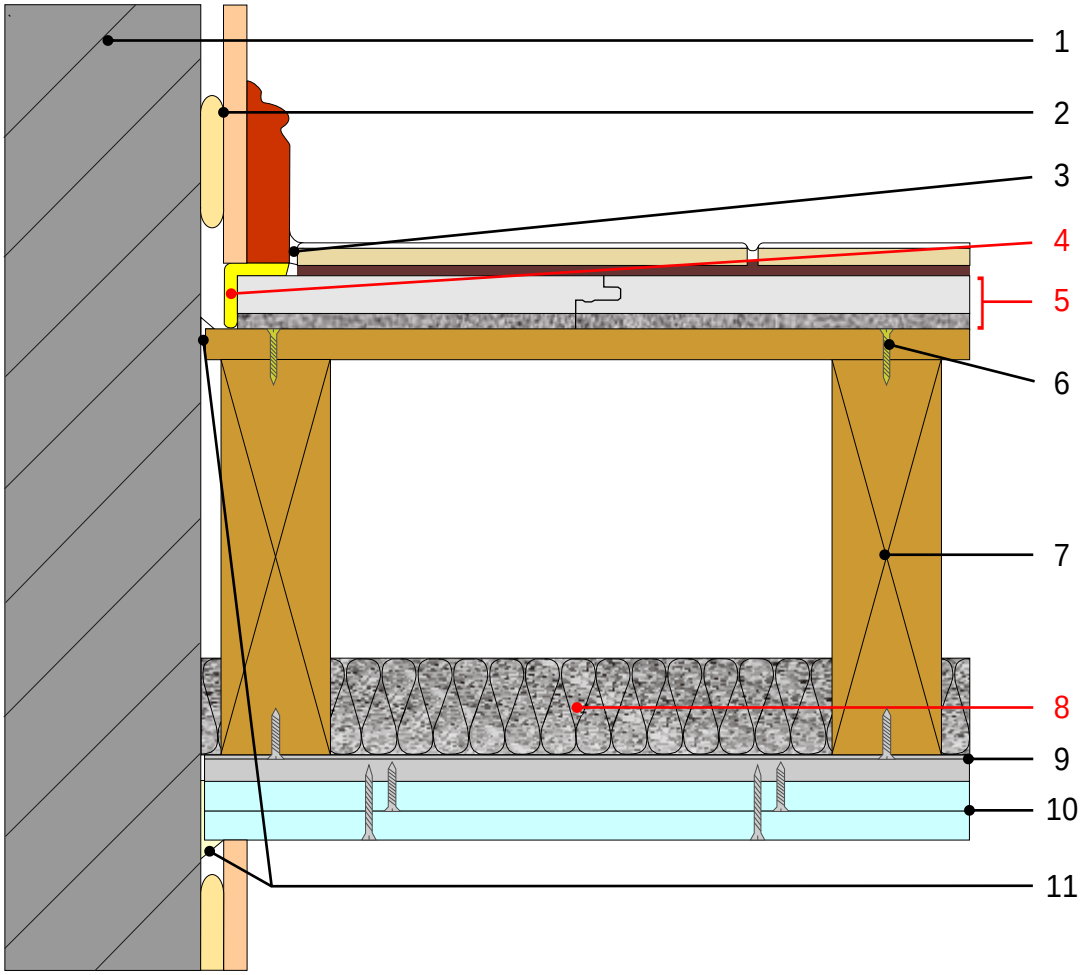
0 Global Warming Potential

ITCH FREE

DECKfon® Ultramat 15

Refer to page 11 for further information on DECKfon Ultramat 15

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid on timber sub-floor
- New ceiling fixed to resilient bars



Typical airborne performance[1]
52dB

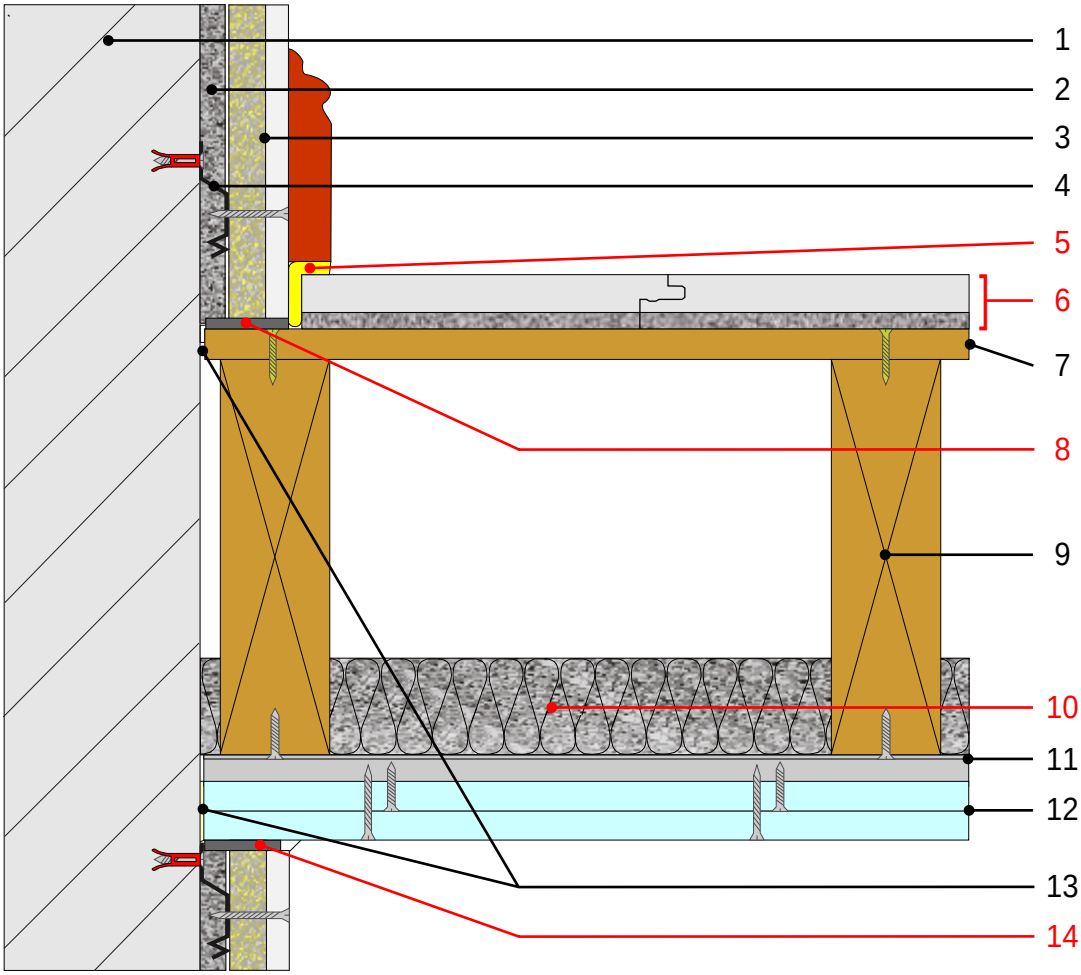
Typical impact performance[2]
54dB

Fire resistance[3]
60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m^2)
3	5mm (min) gap between ceramic floor tiles and skirting board filled with flexible mastic
4	YELO*fon*® FS50 perimeter flanking band, use to isolate plaster / plasterboard and the skirting from the floating floor treatment - 6mm x 50mm x 30mm x 2000mm
5	ScreedBoard® 28 floating floor treatment laid on a timber sub-deck - 28mm x 600mm x 1200mm (26.00kg/m^2)
6	Existing floor boards or new 18mm (min) tongue and groove chipboard floor boards screwed to joist
7	200mm (min) timber floor joists at ≤ 450mm centres
8	FIBRE*fon*® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
9	16mm metal resilient bar fixed perpendicular to floor joists at 400mm centres
10	2 layers of 15mm sound block (12.5kg/m^{2}each) or similar plasterboards to provide fire integrity, fixed in a staggered formation to the resilient bars
11	Gaps filled with acoustic mastic sealant

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value.[3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

- Separating timber floors with aircrete block masonry walls
- Acoustic treatment laid on timber sub-floor
- New ceiling fixed to resilient bars



Typical airborne performance[1]
54dB

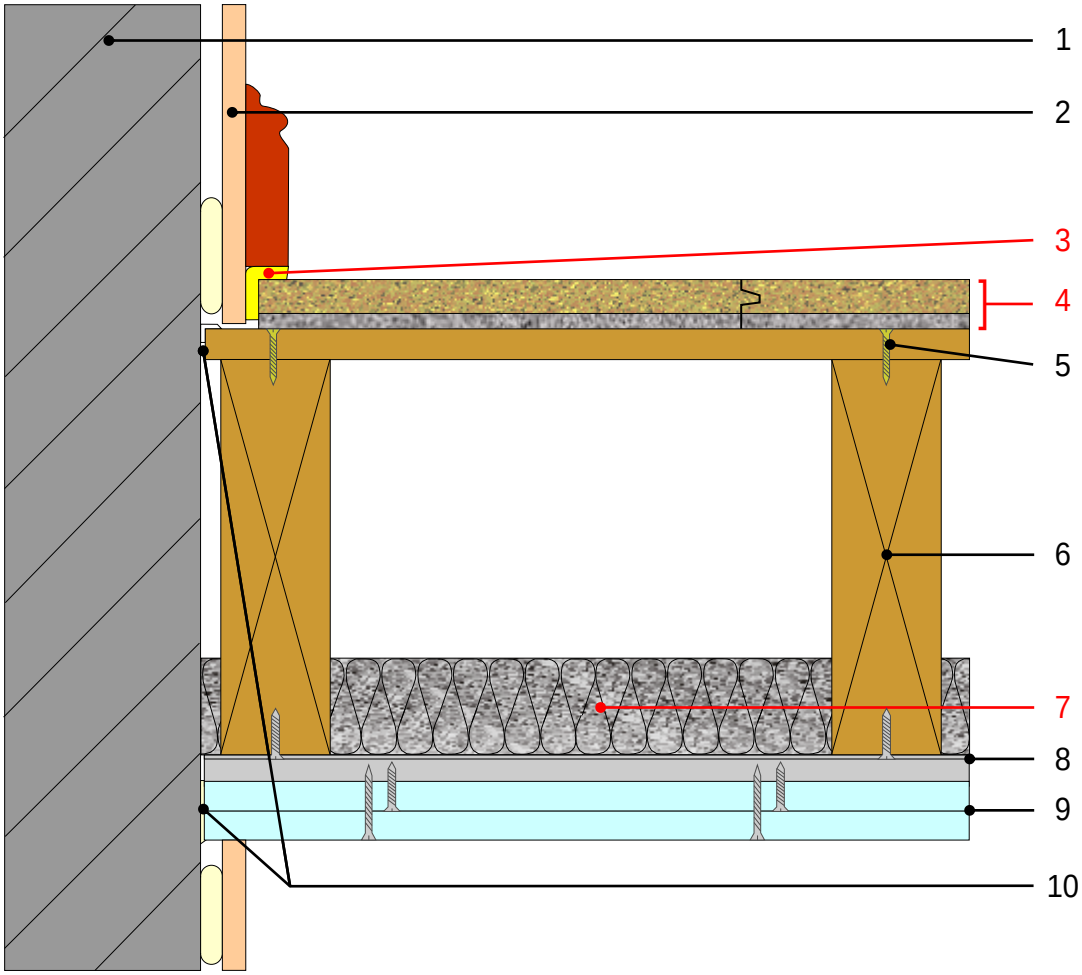
Typical impact performance[2]
54dB

Fire resistance[3]
60min

	Material
1	100mm (min) thick aircrete block wall (min 600Kg/m^3)
2	FIBRE*fon*® Micro Slab 15 sound absorbing slab fitted between resilient bars - 15mm x 600m x 1200mm
3	FIBRE*fon*® HiGYP 32 acoustic wall lining fixed to resilient bars - 32mm x 1200mm x 2400mm
4	16mm metal resilient bar fixed to the masonry wall at 600mm (max) centres
5	YELO*fon*® FS50 perimeter flanking band, used to isolate plaster / plasterboard and the skirting from the floating floor treatment - 6mm x 50mm x 30mm x 2000mm
6	ScreedBoard® 28 floating floor treatment laid on a timber sub-deck - 28mm x 600mm x 1200mm (26.00kg/m^2)
7	Existing floor boards or new 18mm (min) chipboard floor boards screwed to joist
8 /14	*Cellecta* AT5/50 acoustic edge strip used to isolate wall lining from adjoining floor, walls and ceiling - 5mm x 50mm x 15m
9	200mm (min) timber floor joists at ≤ 450mm centres
10	FIBRE*fon*® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
11	16mm metal resilient bar fixed perpendicular to floor joists at 400mm centres
12	2 layers of 15mm sound block (12.5kg/m^{2}each) or similar plasterboards to provide fire integrity, fixed in a staggered formation to the resilient bars
13	Gap filled with acoustic mastic sealant

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value. [3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid on timber sub-floor
- New ceiling fixed to resilient bars



Typical airborne performance[1]

17T - 50dB
26T - 51dB
30T - 51dB

Typical impact performance[2]

17T - 56dB
26T - 57dB
30T - 56dB

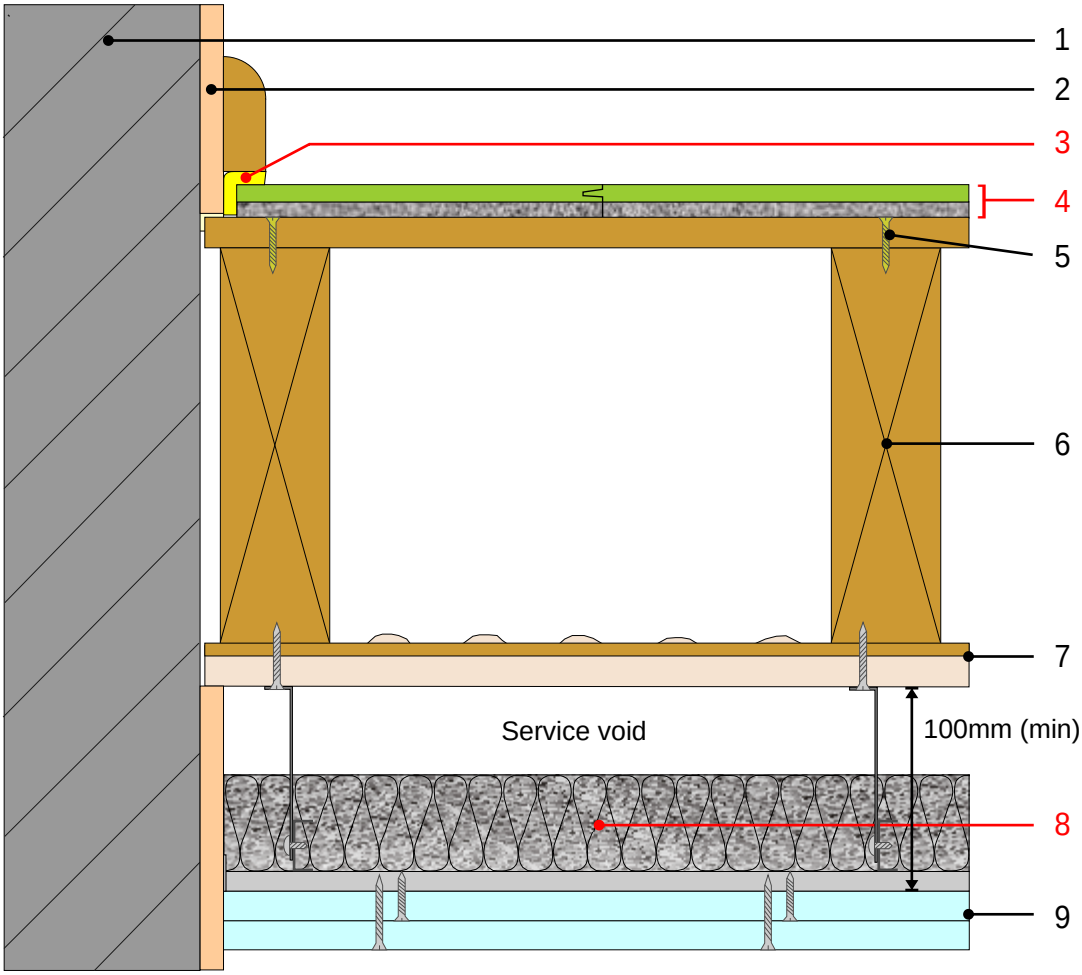
Fire resistance[3]

60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m^2)
3	YELO*fon*® perimeter flanking strip, use to isolate plaster / plasterboard and the skirting from the floating floor treatment
4	Floating floor treatment options (all installed on a timber sub-deck): DECK*fon*® MDF17T - 17mm x 600mm x 2400mm (7.45kg/m^2) + YELO*fon*® ES5/60 perimeter flanking strip DECK*fon*® CHiP 26T - 26mm x 600mm x 2400mm (13.40kg/m^2)+ YELO*fon*® FS30 perimeter flanking angle DECK*fon*® CHiP 30T - 30mm x 600mm x 2400mm (16.20kg/m^2)+ YELO*fon*® FS30 perimeter flanking angle
5	Existing floor boards or new 18mm (min) tongue and groove chipboard floor boards, screwed to floor joist
6	200mm (min) timber floor joists at ≤ 450mm centres
7	FIBRE*fon*® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
8	16mm metal resilient bar fixed perpendicular to floor joists at 400mm centres
9	2 layers of 15mm sound block (12.5kg/m^{2}each) or similar plasterboards to provide fire integrity, fixed in a staggered formation to the resilient bars
10	Gap filled with acoustic mastic sealant

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value. [3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid on timber sub-floor
- Existing ceiling retained and new suspended ceiling added



Typical airborne performance[1]

SB28 - 54dB
17T - 52dB
26T - 53dB
30T - 53dB

Typical impact performance[2]

SB28 - 52dB
17T - 54dB
26T - 55dB
30T - 54dB

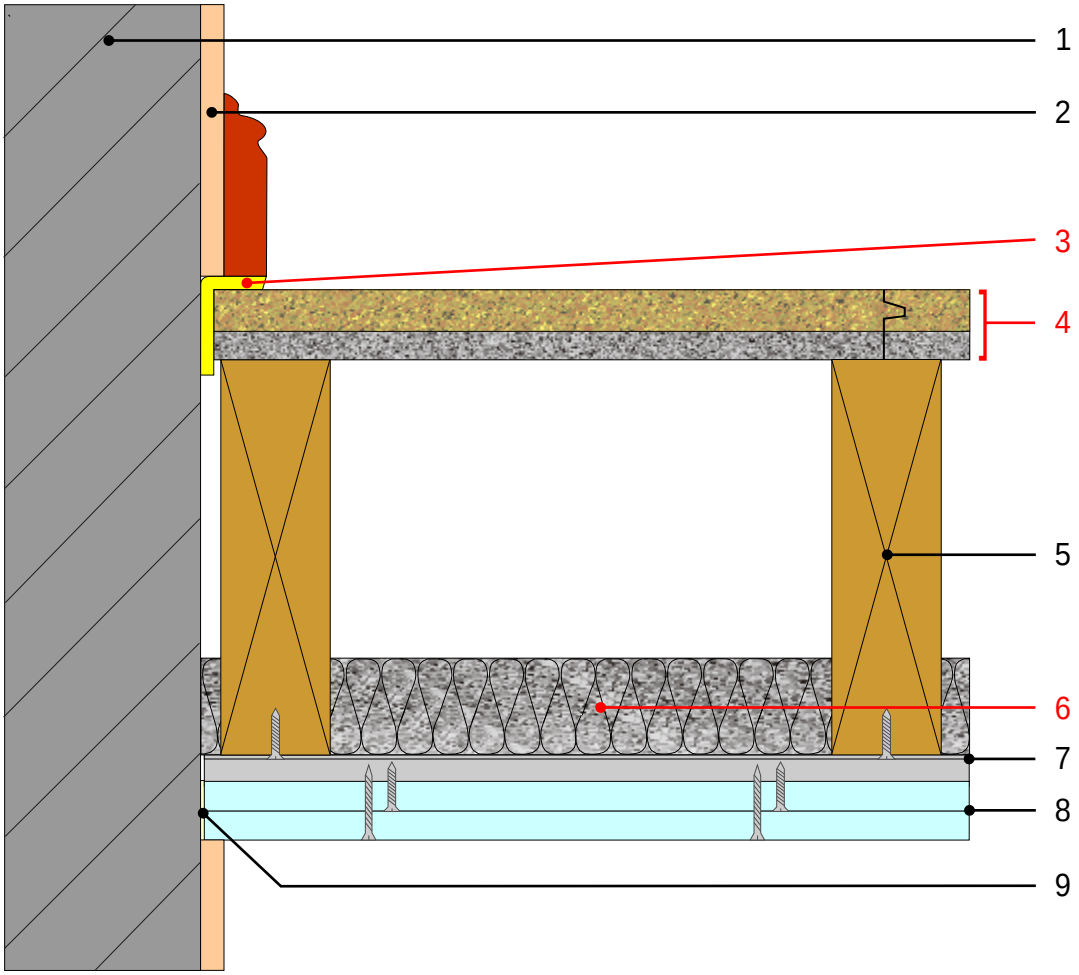
Fire resistance[3]

60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m^2)
3	YELO*fon*® perimeter flanking strip, use to isolate plaster / plasterboard and the skirting from the floating floor treatment
4	Floating floor treatment options (all installed on a timber sub-deck): ScreedBoard® 28 - 28mm x 600mm x 1200mm (26.00kg/m^2) + YELO*fon*® FS50 perimeter flanking angle DECK*fon*® - MDF17T - 17mm x 600mm x 2400mm (7.45kg/m^2) + YELO*fon*® ES5/60 perimeter flanking strip - CHiP 26T - 26mm x 600mm x 2400mm (13.40kg/m^2)+ YELO*fon*® FS30 perimeter flanking angle - CHiP 30T - 30mm x 600mm x 2400mm (16.20kg/m^2)+ YELO*fon*® FS30 perimeter flanking angle
5	Existing floor boards or new 18mm (min) tongue and groove chipboard floor boards, screwed to floor joist
6	200mm (min) timber floor joists at ≤ 450mm centres
7	Existing plaster and lath ceiling, with any holes filled with suitable material
8	FIBRE*fon*® Micro Slab 50 sound absorption material fitted in service void - 50mm x 400mm x 1200mm
9	Metal frame (MF) ceiling system, 2 layers of 15mm sound block (12.5kg/m^{2}each) or similar plasterboards

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value. [3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers literature.

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid directly on timber floor joists
- New ceiling fixed to resilient bars



Typical airborne performance[1]
52dB

Typical impact performance[2]
53dB

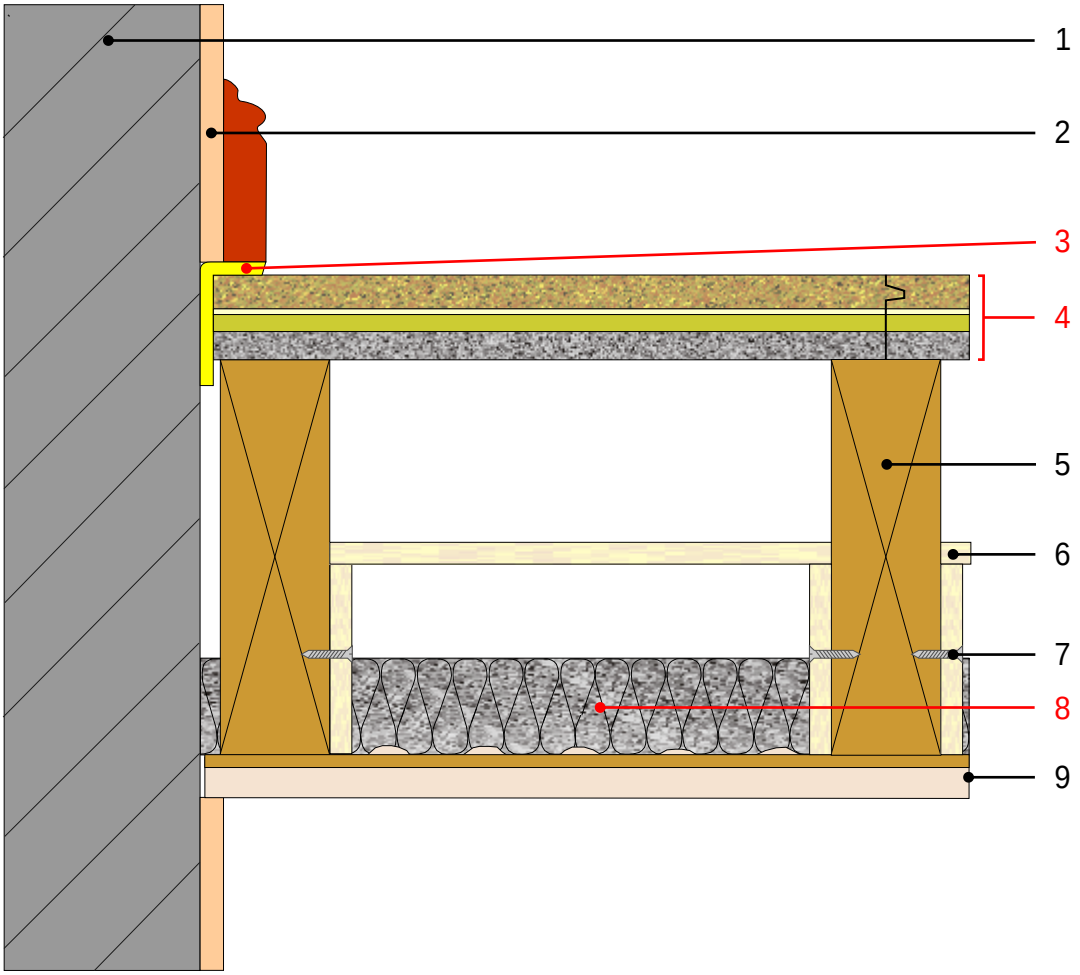
Fire resistance[3]
60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (min 8kg/m^2)
3	YELOfon® ES5/100 perimeter flanking strip, used to isolate plaster / plasterboard and skirting from floating floor treatment
4	DECKfon® CHiP 37T floating floor treatment laid directly on joists - 37mm x 600mm x 2400mm (17.20kg/m^2)
5	200mm (min) timber floor joists at ≤ 450mm centres
6	FIBREfon® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
7	16mm metal resilient bar fixed perpendicular to floor joists at 400mm centres
8	2 layers of 15mm sound block (12.5kg/m^{2}each) or similar plasterboards to provide fire integrity, fixed in a staggered formation to the resilient bars
9	Acoustic mastic sealant

[1] $L_{n,w}$ value. [2] Rw + C_{tr} value. [3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

Caution Do not secure the floating floor treatment to the joists

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid directly on timber floor joists
- Existing ceiling not disturbed - joist fire resistance upgraded



Typical airborne performance[1]
49dB

Typical impact performance[2]
58dB

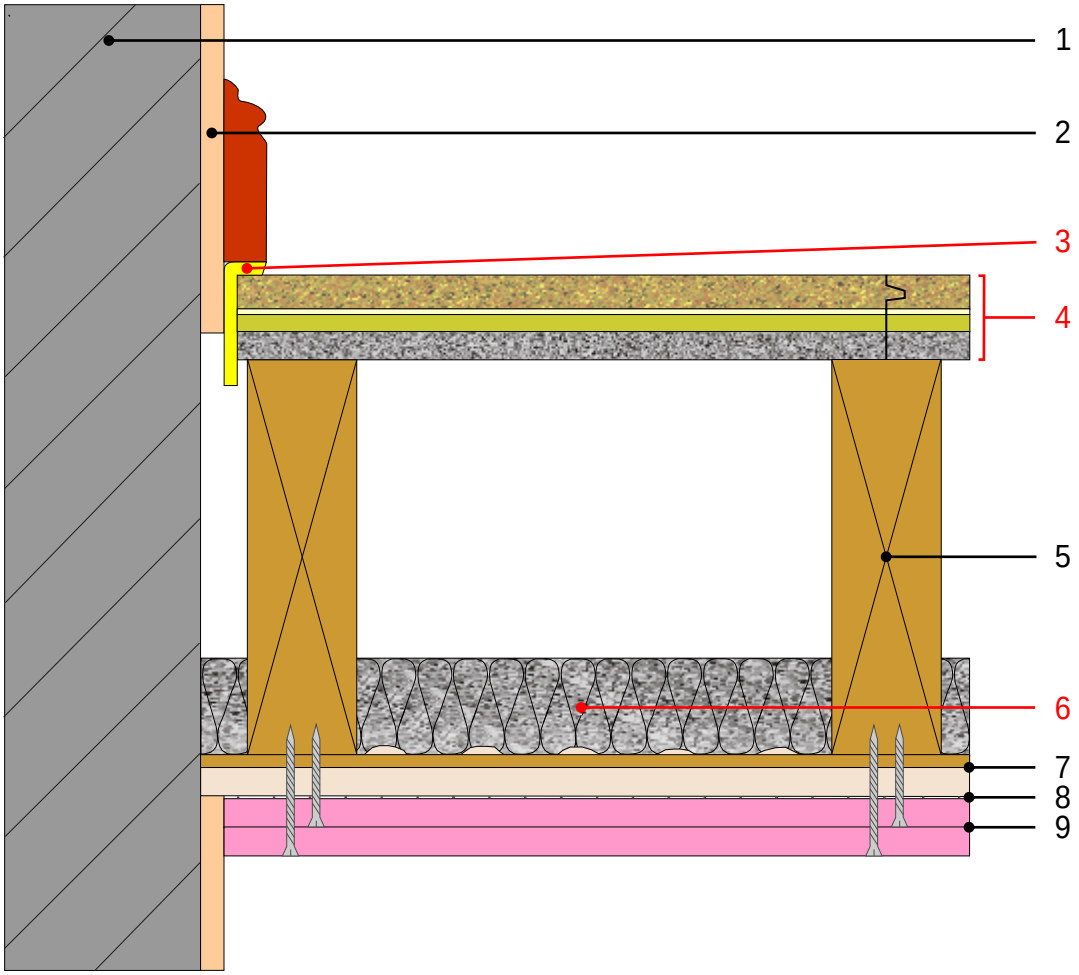
Fire resistance[3]
60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m2)
3	YELOfon® ES5/120 perimeter flanking strip, use to isolate plaster / plasterboard and skirting from floating floor treatment
4	DECKfon® Quattro floating floor treatment laid directly on joists - 45mm x 600mm x 2400mm (20.00kg/m^2)
5	200mm (min) timber floor joists at ≤ 450mm centres
6	Sheet of 12.5mm glass reinforced gypsum board cut to suit gap between joists, laid on fire protection strips
7	100mm wide strips of 12.5mm glass reinforced gypsum board fire protection strips mechanically fixed to both sides of the floor joists
8	FIBREfon® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
9	Existing plaster and lath ceiling (min 16kg/m^2) or similar weight in plasterboards to provide fire integrity, fixed to the joists in a staggered formation.

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value. [3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

Caution **Do not secure the floating floor treatment to the joists**

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid directly on timber floor joists
- Existing ceiling not disturbed



Typical airborne performance[1]
49dB

Typical impact performance[2]
58dB

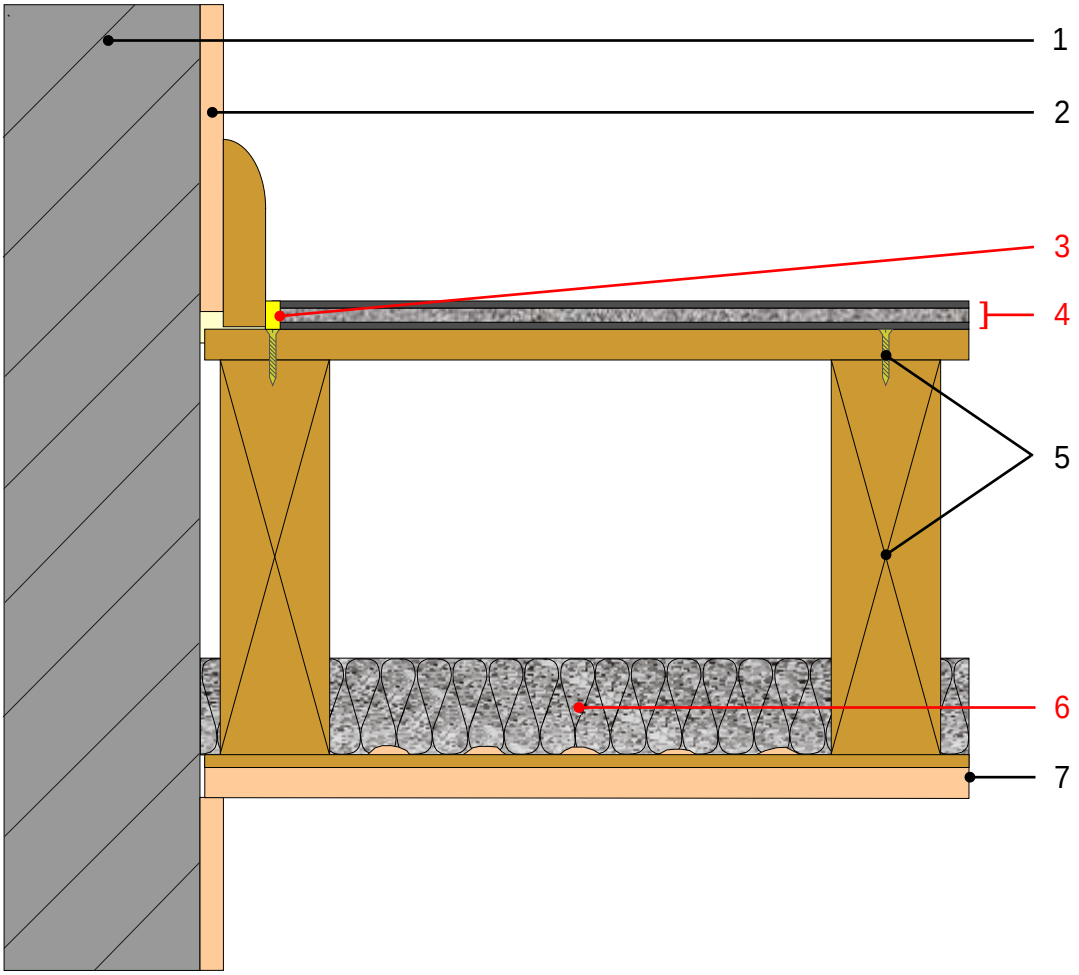
Fire resistance[3]
60min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m2)
3	YELO*fon*® ES5/120 perimeter flanking strip, use to isolate plaster / plasterboard and skirting from floating floor treatment
4	DECK*fon*® Quattro floating floor treatment laid directly on the joists - 45mm x 600mm x 2400mm (20.00kg/m^2)
5	200mm (min) timber floor joists at ≤ 450mm centres
6	FIBRE*fon*® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
7	Existing plaster and lath ceiling
8	Galvanised chicken wire mechanically fixed to the underside of the existing ceiling
9	2 layers of 12.5mm fire boards (9.8kg/m^{2}each) or similar plasterboards to provide fire integrity, fixed in a staggered formation to the floor joists

[1] $L_{n,w}$ value. [2] $Rw + C_{tr}$ value.[3] Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.

Caution **Do not secure the floating floor treatment to the joists**

- Separating timber floors with brick or aggregate block masonry walls
- Acoustic treatment laid directly on timber sub-deck
- Existing ceiling not disturbed



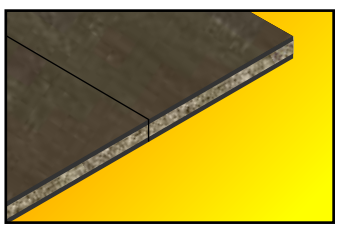
Typical airborne performance[1]
45dB

Typical impact performance[2]
59dB

Fire resistance[3]
30min

Item	Material
1	100mm (min) thick masonry wall (min 1350Kg/m^3)
2	13mm thick plaster or 12.5mm wallboard on dabs (8kg/m^2)
3	YELOfon® ES5/15 perimeter flanking strip, use to isolate skirting from floating floor treatment
4	DECKfon® Ultramat 15 floating floor treatment laid on existing floor boards - 15mm x 1200mm x 1200mm (15kg/m^2)
5	Existing or new floor boards screwed to timber floor joists set at ≤ 450mm centres
6	FIBREfon® Micro Slab 50 sound absorption material fitted snugly between floor joists - 50mm x 400mm x 1200mm
7	Existing plaster and lath ceiling (min 16kg/m^2) or similar weight in plasterboards to provide fire integrity, fixed to the joists in a staggered formation.

Values quoted are based on the treatment being installed correctly, and covered with a 9mm MDF board [1] $L_{n,w}$ value. [2] Rw + C_{tr} value.[3]
Fire resistance stated is given as a guide, to ensure Building Regulations are achieved refer to plasterboard manufacturers specifications.



DECKfon® Ultramat 15

DECKfon Ultramat 15 is designed to improve the acoustic performance of a decked timber floor and where the ceiling is not disturbed

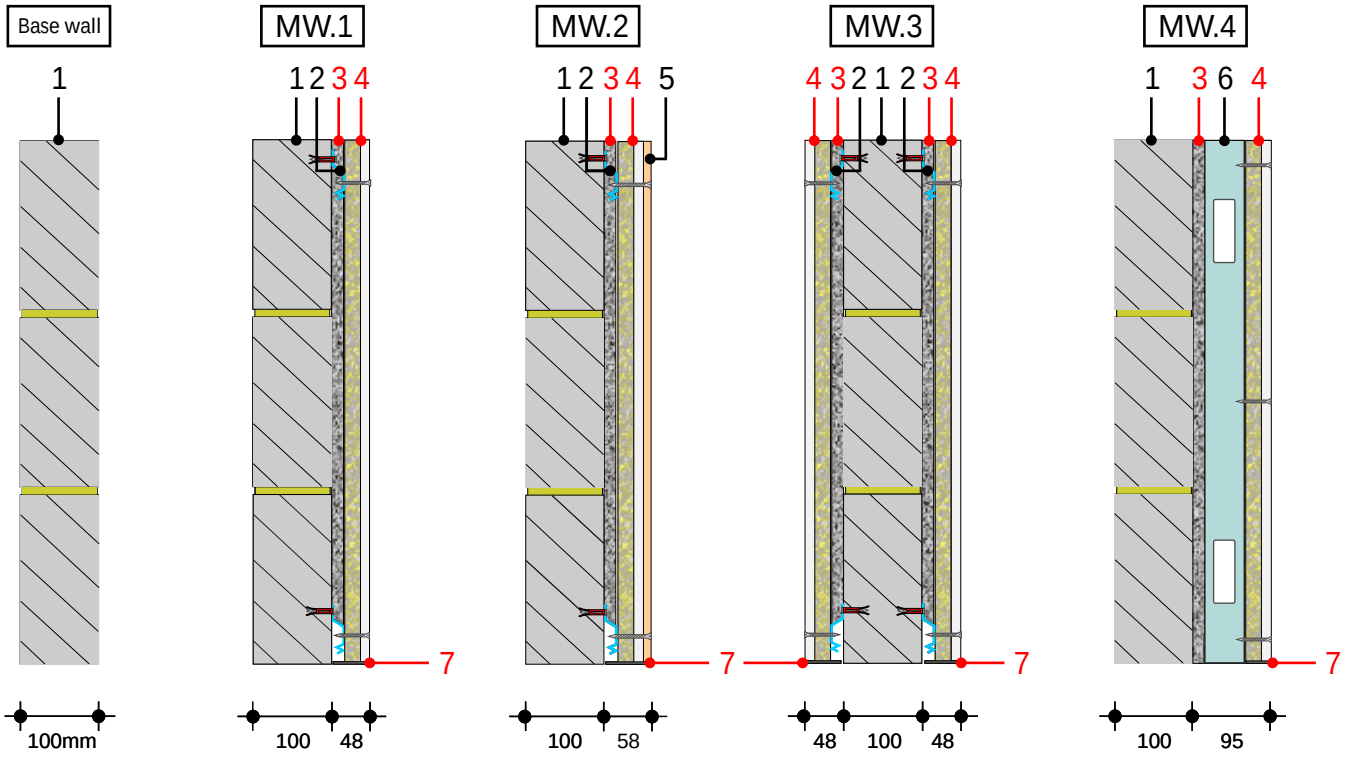
- Only 15mm thick
- Quick and easy to install

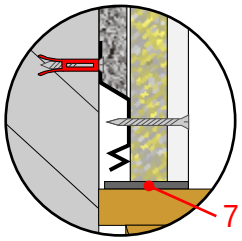
Resilient Layer Made from Recycled Materials

0 Global Warming Potential

Technical Advice: T. 08456 71-71-74 E. technical@cellecta.co.uk

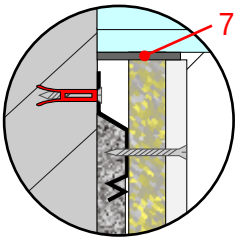
- Brick, aggregate or aircrete block separating / partition walls
- Semi-independently / independently fixed composite acoustic wall lining





Wall - floor junction detail

	Typical airborne performance[1]				
	Base wall	MW.1	MW.2	MW.3	MW.4
R_w	40dB	55dB	57dB	59dB	58dB
$R_w + C_{tr}$	37dB	48dB	50dB	51dB	53dB
Improvement on base wall $DR_w + C_{tr}$	-	11dB	13dB	14dB	16dB

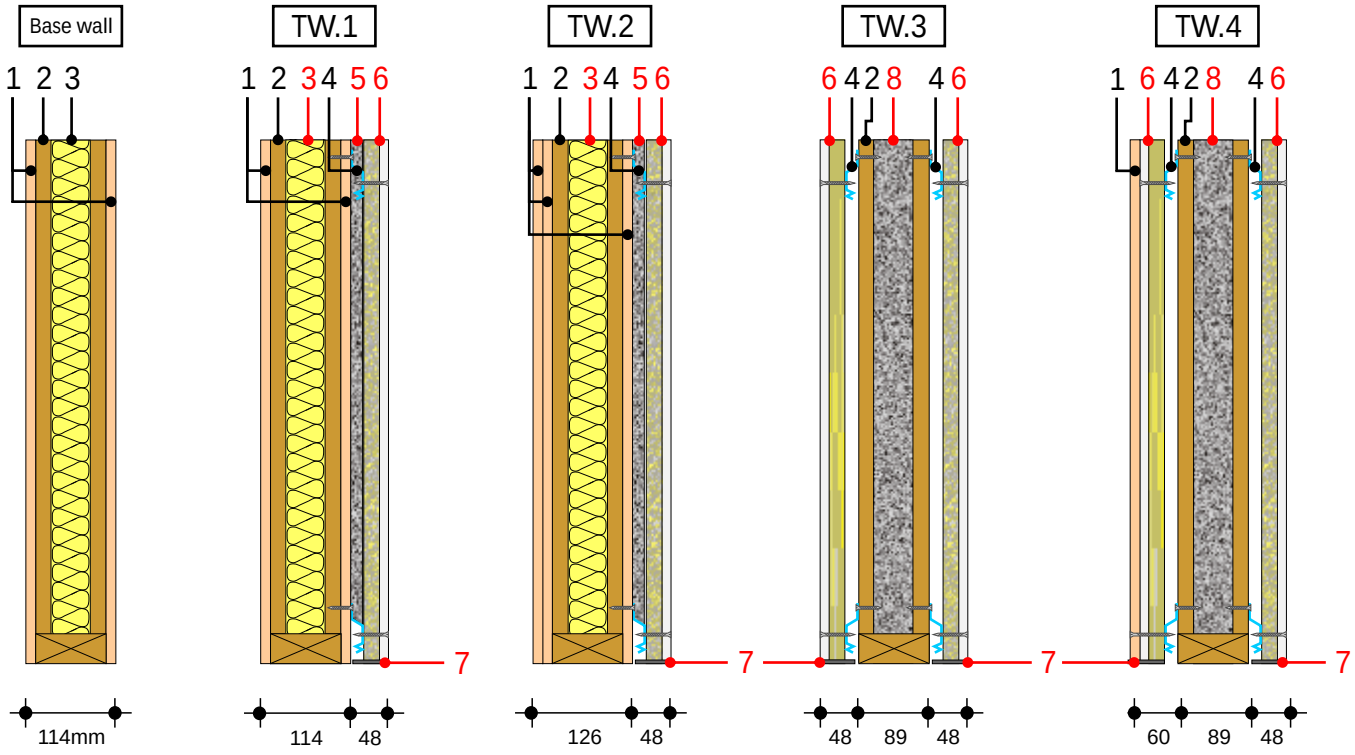


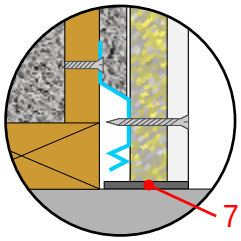
Wall - ceiling junction detail

Item	Material
1	100mm (min) thick masonry wall - brick, concrete block or aircrete block (min 600Kg/m^3)
2	16mm thick metal resilient bar fixed to masonry wall at 600mm (max) horizontal centres
3	FIBRE*fon*® Micro Slab 15 fitted between resilient bars - 15mm x 600mm x 1200mm
4	FIBRE*fon*® HiGYP 32 composite acoustic wall lining - 1200mm x 2400mm (20.40kg/m^2)
5	9.5mm plasterboard mechanically fixed, taped and skimmed
6	Independent C-stud metal frame wall installed 15mm off masonry wall
7	*Cellecta* AT5/50 acoustic edge strip used to isolate wall lining from adjoining floor, walls and ceiling - 5mm x 50mm x 15m

[1] Internal face of aggregate blocks must have a 13mm parge coat applied (10kg/m^2) to achieve quoted values.

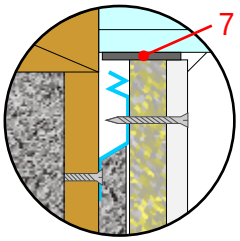
- Timber stud separating / partition walls
- Semi-independent fixed composite acoustic wall lining





Wall - floor junction detail

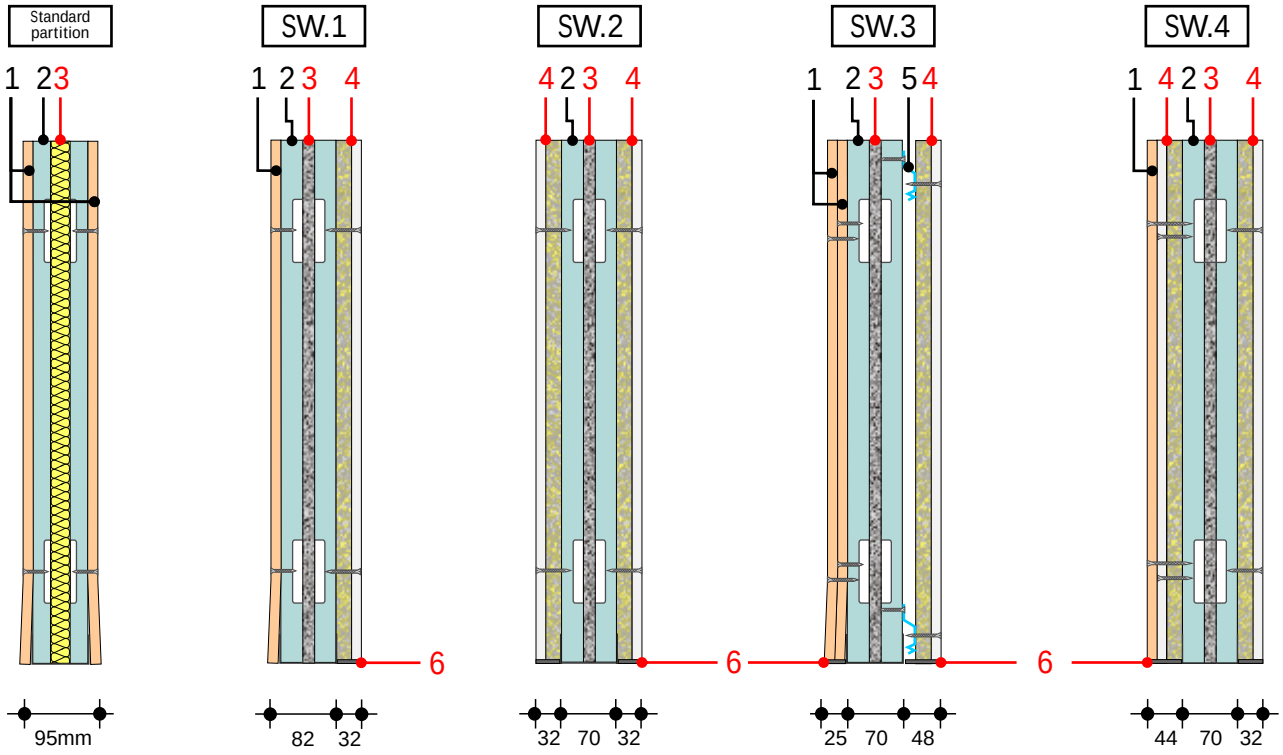
	Typical airborne performance				
	Base wall	TW.1	TW.2	TW.3	TW.4
R_w	40dB	54dB	56dB	58dB	60dB
$R_w + C_{tr}$	35dB	45dB	49dB	49dB	52dB
Improvement on base wall $DR_w + C_{tr}$	-	14dB	16dB	18dB	20dB
Fire resistance	30 minutes	30 minutes	60 minutes	60 minutes	60 minutes

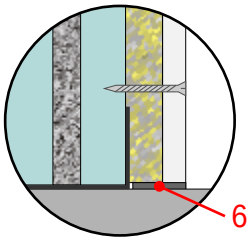


Wall - ceiling junction detail

Item	Material
1	12.5mm (min) thick plasterboard (8Kg/m^3)
2	89mm (min) x 38mm timber stud wall set at 600mm (max) vertical centres
3	Sound absorption material fitted between timber studs: • FIBRE*fon*® Micro Slab 15 - 15mm x 600mm x 1200mm • 25-50mm mineral wool partition roll
4	16mm thick metal resilient bar fixed to metal studs at 600mm (max) horizontal centres
5	FIBRE*fon*® Micro Slab 15 fitted between resilient bars - 15mm x 600mm x 1200mm
6	FIBRE*fon*® HiGYP 32 composite acoustic wall lining - 1200mm x 2400mm (20.40kg/m^2)
7	*Cellecta* AT5/50 acoustic edge strip used to isolate wall lining from adjoining floor, walls and ceiling - 5mm x 50mm x 15m
8	FIBRE*fon*® Micro Slab 50 sound absorption material fitted between timber studs: - 50mm x 400mm x 1200mm

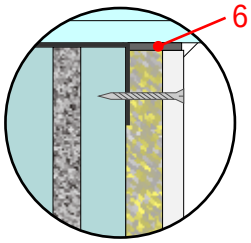
- Metal frame separating / partition walls
- Directly / semi independently fixed composite acoustic wall lining





Wall - floor junction detail

	Typical airborne performance				
	Standard partition	SW.1	SW.2	SW.3	SW.4
R_w	43dB	48dB	53dB	55dB	55dB
$R_w + C_{tr}$	34dB	45dB	45dB	46dB	46dB
Improvement over standard partition wall $DR_w + C_{tr}$	-	5dB	10dB	12dB	12dB
Fire resistance	30 minutes	30 minutes	60 minutes	60 minutes	60 minutes



Wall - ceiling junction detail

Item	Material
1	12.5mm (min) thick plasterboard (8Kg/m^3)
2	70mm (min) metal 'C' studs set at 600mm (max) vertical centres
3	Sound absorption material fitted between metal studs: • FIBRE*fon*® Micro Slab 15 - 15mm x 600mm x 1200mm • 25 mineral wool partition roll
4	FIBRE*fon*® HiGYP 32 composite acoustic wall lining - 1200mm x 2400mm (20.40kg/m^2)
5	16mm thick metal resilient bar fixed to metal studs at 600mm (max) horizontal centres
6	*Cellecta* AT5/50 acoustic edge strip used to isolate wall lining from adjoining floor, walls and ceiling - 5mm x 50mm x 15m

Technical data

Cellecta's insulation products are manufactured to the highest possible technical specification using the latest production techniques. All products' technical data are determined under strictly controlled laboratory conditions.

	FIBREfon®				DECKfon®					
Properties	ScreedBoard 28	HiGYP 32	MiCRO SLAB 15	MiCRO SLAB 50	MDF 17T	CHiP 26T	CHiP 30T	CHiP 37T	Quattro	Ultramat 15
Overall thickness	28mm	32mm	15mm	50mm	17mm	26mm	30mm	37mm	45mm	15mm
Type and thickness of facing material	20mm ScreedBoard	12.5mm HiGYP	-	-	9mm MR MDF	18mm P5 chipboard	22mm P5 chipboard	22mm P5 chipboard	18mm P5 chipboard	3mm high density polymeric barrier bonded to both faces of the resilient layer
Resilient layer slab thickness	8mm	20mm	15mm	50mm	8mm	8mm	8mm	15mm	15mm	9mm
Resilient layer / slab composition	70% (min) recycled polyester fibre (PES)	100% Recycled cellulose board	70% (min) recycled polyester fibre slab (PES)		Open-cell, low resonance, recycled, flexible polyurethane (Grade A2)			Open-cell, low resonance, recycled, flexible polyurethane (Grade B1)		High density, open cell, low resonance, recycled polyurethane
Sheet / slab size	600 x 1200mm	1200 x 2400mm	600 x 1200m	400 x 1200mm	600 x 2400mm	600 x 2400mm	600 x 2400mm	600 x 2400mm	600 x 2400mm	1200 x 1200mm
Weight	26.00kg/m²	20.40kg/m²	<0.50kg/m²	<0.75kg/m²	7.45 kg/m²	13.40kg/m²	16.20kg/m²	17.20kg/m²	20.00kg/m²	15kg/m²
	18.72kg/ sheet	48.74kg/ sheet	<0.36kg/ slab	<0.36kg/ slab	10.74kg/ sheet	19.29kg/ sheet	23.32kg/ sheet	24.76kg/ sheet	28.88kg/ sheet	21.60kg/mat
'Peel clean' version available	No	-	-	-	Yes	Yes	Yes	Yes	Yes	No
Perimeter edge strip required	FS50	AT5/50	-	-	ES5/60	FS30	FS30	ES5/120	ES5/120	ES5/15

Eliminating Acoustic Flanking

The acoustic efficiency of a floor or wall will be adversely affected should acoustic bridging between the acoustic treatment and the surrounding structures occur (known as flanking transmission).
All treatments must therefore be isolated from the surrounding structures and services. To combat this, Cellecta offers an extensive range of flexible extruded polyethylene edge strips designed to suit each specific treatment.

Recycled and recyclable resilient layers

FSC Certified Company

BM TRADA CERTIFICATION

	YELOfon®						Cellecta
Properties	ES5/15	ES5/60	ES5/100	ES5/120	FS30	FS50	AT5/ 50
Composition	HCFC free extruded polyethylene foam rolls				'L' profiled HCFC free extruded polyethylene foam strips		Self adhesive polyethylene foam rolls
Thickness	5mm	5mm	5mm	5mm	6mm	6mm	5mm
Roll / strip dimensions	15mm x 50m	60mm x 50m	100mm x 50m	120mm x 50m	30 x 30mm x 2m	50 x 30mm x 2m	50mm x 15m

Note. Other sizes manufactured to order, subject to minimum quantity.

Ceiling Treaments

The resistance to airborne sound depends mainly on the mass per unit area of the structural floor and supporting walls, and partly on the ceiling's construction. It is therefore important to choose a ceiling treatment that complements the performance of the chosen structural floor, to produce an overall structure that exceeds the required values. De-coupling the ceiling from the structural floor is an effective way of reducing the contact path that impact sound can follow. Adding mass in the way of plasterboard to the floor structure and filling the ceiling void with a mineral wool will also improve the acoustic performance of the structure.

Listed below are three types of ceiling treatments available in order of performance.
Ceiling treatment A: Independent ceiling
Ceiling treatment B: Plasterboard on proprietary resilient bars with absorbing material
Ceiling treatment C: Plasterboard on proprietary timber battens or resilient bars with absorbing material
Further guidance is given in Approved Document E 2003.

Notes
Cellecta reserves the right to amend product specifications without prior notice. Colours shown are for illustration purposes and are subject to production variation. Product technical data stated is typical. The information included in this guide is based on *Cellecta's* experience and is believed to be reliable. dB values quoted and applications illustrated are typical, however, each site's characteristics are different and as a result reliance should not be solely placed upon the recommendations detailed.
Cellecta, as the manufacturer, has no control over the installation of its products. The purchaser should evaluate the product's suitability and is responsible for adhering to any laws or regulations in this respect, making the purchaser also liable for observing any third party rights.

Cellecta®
INNOVATION IN INSULATION

Technical Advice

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www.cellecta.co.uk

Services offered by *Cellecta*:

FREE - Technical and installation advice
FREE - Site surveys and take-off service
FREE - U-value, condensation risk and imposed load calculations

Other products available from Cellecta

YELOFOAM® X
High Performance Extruded Polystyrene

eco XPS
<5 GWP Extruded Polystyrene

XLAMINATES
Extruded Polystyrene Laminates

UNICLOSER® XCC
Cavity Closer Solutions

TETRIS®
Insulation Blocks for Concrete Beamed Floors

Approved supplier

ARB/810/V1