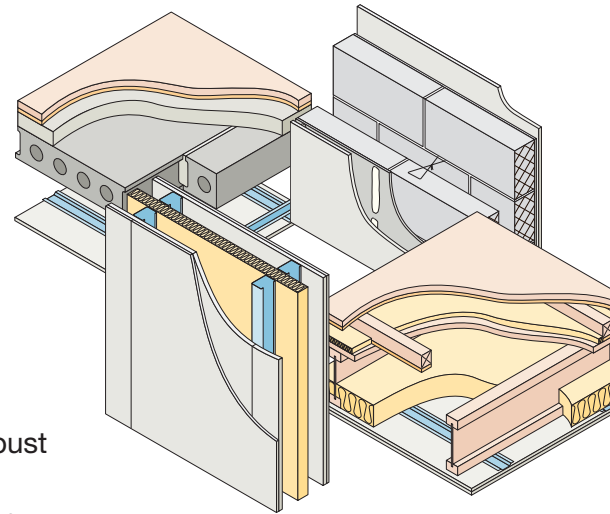


## July 2015 Update Pack



Dear Colleague,

Thank you for subscribing to receive updates to the Part E Robust Details Handbook.

I'm pleased to announce that this update pack includes a new floor, which is now available for registration. Collecta's E-FS-3 is just the third **robust**details® floor to use a steel-based structure; and only the second to use steel joists. The ScreedBoard® 28 floor treatment and HP30 resilient bars, both from Collecta, have provided the performance needed for this floor to achieve 3 credits in the Code for Sustainable Homes.

Don't forget that you can always find a completely updated – and completely free – copy of the Handbook on our website. Simply click on the 'Sign in/Sign' up to create a user account; then log on to view and download your copy.

### **Please update your May 2015, 4th Edition Handbook as follows:**

1. Remove and replace all pages of the Introduction.
2. Remove and replace all pages of the timber separating floors: E-FT-3, E-FT-6 and E-FT-7.
3. Insert all pages of the new E-FS-3 Robust Detail to the end of the Separating Floors, Steel-Concrete Composite section.

Yours sincerely

A handwritten signature in black ink, appearing to read "John Tebbit".

**John Tebbit**

Managing Director,  
Robust Details Limited





## Changes to the fourth edition following July 2015 update

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Section Page Amendment

### Introduction

Table 2	5	New floor E-FS-3 added.
Table 3c	7	New floor E-FS-3 added with valid combinations.
Table 5	8	New floor E-FS-3 added with relevant note.
Table 6b	11	New floor E-FS-3 added with valid combinations.
Table 7	12	New floor E-FS-3 added with valid combinations.

### Separating Floors – Timber

#### E-FT-3

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Joist type	1	Joist name updated to 'ITW Gang-Nail Ecojoist'.
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#### E-FT-6

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Joist type	1	Joist list corrected to include all valid joist types.
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#### E-FT-7

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Diagram 6	5	22mm flooring board corrected to m <sup>3</sup> .
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### Separating Floors – Steel

#### E-FS-3

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All	1-6	New Robust Detail added - Collecta ScreedBoard® 28 on steel joists.
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This Handbook contains the separating wall and separating floor constructions that have achieved the status of Robust Details for Part E of the Building Regulations (England and Wales) and Part G of the Building Regulations (Northern Ireland), “Resistance to the passage of sound”.

The Robust Details have undergone an extensive sound insulation testing regime, robust design analysis and independent audit and have satisfied the Robust Details Limited Management Board that they should provide a level of sound insulation compliant with Part E (England and Wales) and Part G (Northern Ireland).

The use of the **robustdetails**<sup>®</sup> scheme provides an alternative to pre-completion testing for demonstrating compliance with the performance standards for new build dwellings. Every dwelling built using the **robustdetails**<sup>®</sup> scheme needs to be registered with Robust Details Limited and a plot registration fee paid. Further information on the scheme (including how to apply for new Robust Details) is available on the Robust Details Limited web site at:

[www.robustdetails.com](http://www.robustdetails.com)

or from:

Robust Details Limited  
Block E  
Bletchley Park Science and Innovation Centre  
Milton Keynes  
Buckinghamshire  
MK3 6EB

Telephone: 03300 882140 - Technical  
03300 882141 - General

Fax: 01908 363433

Each Robust Detail includes materials and construction details for the separating wall/floor and its key interfaces with other elements and should be read in conjunction with Appendix A. The final page of each Robust Detail is a checklist, which should be photocopied and used by the site manager/supervisor to confirm that the separating wall/floor has been built correctly. The building control body may ask to see the checklist.

It is important that separating walls/floors and their associated junctions and flanking conditions are constructed entirely in accordance with the relevant Robust Detail; otherwise the building control body may require pre-completion testing to be carried out.

The tables on pages 5, 6 and 7 show which **robustdetails**<sup>®</sup> separating floors and walls can be used in flats/apartments.

**Note:**

The contents of this Handbook relate only to compliance with specific aspects of Part E (England and Wales) and Part G (Northern Ireland). Building work will also have to comply with all other relevant legislation and Parts of the Building Regulations.

Where sound testing is required on a wall or floor, the user should seek expert acoustic advice prior to construction commencing.

**Terms and Conditions:**

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Warning: the doing of an unauthorised act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution.

## Introduction

### Special note for Robust Details constructed in Northern Ireland

Members of an expert panel convened to advise NI Government on the subject, consider that the following Robust Details will integrate most readily with NI standards and methods of construction.

Other Robust Details may be suitable for use in NI, however, it is recommended that Building Control be consulted to ensure full compatibility with other NI Regulations and Standards.

Masonry walls	E-WM-1	Concrete floors	E-FC-1	
	E-WM-2		E-FC-2	
	E-WM-3		E-FC-4	
	E-WM-4		E-FC-5	
	E-WM-11		E-FC-6	
	E-WM-16		E-FC-8	
	E-WM-18		E-FC-9	
	E-WM-19		E-FC-10	
	E-WM-21		E-FC-11	
	E-FC-12			
	E-FC-13			
	E-FC-14			
Timber walls	E-WT-1			
	E-WT-2			
	E-WT-4			
Timber floors	E-FT-1			
	E-FT-2			
	E-FT-3			
	E-FT-5			
	E-FT-6			
Steel floors	E-FS-1			

Note:

Refer to Tables 3a, 3b and 3c in the Introduction for valid combinations of the Robust Details walls and floors.

# Introduction

## List of Robust Details

Table 1 – Separating walls

E-WM-1	masonry – dense aggregate blockwork (wet plaster)
E-WM-2	masonry – lightweight aggregate blockwork (wet plaster)
E-WM-3	masonry – dense aggregate blockwork (render and gypsum-based board)
E-WM-4	masonry – lightweight aggregate blockwork (render and gypsum-based board)
E-WM-5	masonry – Besblock “Star Performer” cellular blockwork (render and gypsum-based board)
E-WM-6	masonry – aircrete blockwork (render and gypsum-based board)
E-WM-7	Suspended from further registrations
E-WM-8	masonry – lightweight aggregate blockwork Saint Gobain – Isover RD35 (gypsum-based board)
E-WM-9	masonry – solid dense aggregate blockwork (render and gypsum-based board)
E-WM-10	masonry – aircrete thin joint blockwork with specified wall ties (render and gypsum-based board finish)
E-WM-11	masonry – lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity
E-WM-12	masonry – Plasmor “Aglite Ultima” lightweight aggregate blockwork (render and gypsum-based board)
E-WM-13	masonry – aircrete thin joint - untied blockwork (render and gypsum-based board)
E-WM-14	masonry – lightweight aggregate blockwork Saint Gobain - Isover RD35 (gypsum-based board) with 100mm minimum cavity
E-WM-15	masonry – aircrete blockwork Saint Gobain - Isover RD35 (gypsum-based board)
E-WM-16	masonry – dense aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity
E-WM-17	masonry – lightweight aggregate blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board)
E-WM-18	masonry – dense aggregate blockwork (wet plaster) with 100mm minimum cavity
E-WM-19	masonry – dense or lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity and MONARFLOOR® BRIDGESTOP® system
E-WM-20	masonry – lightweight aggregate blockwork Saint Gobain - Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-21	masonry – lightweight aggregate blockwork (wet plaster) with 100mm minimum cavity
E-WM-22	masonry – lightweight aggregate blockwork Knauf Earthwool Masonry Party Wall Slab or Superglass Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-23	masonry – aircrete blockwork Superglass Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-24	masonry – aircrete blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity
E-WM-25	masonry – Porotherm clay blockwork (Ecoparge and gypsum-based board) with 100mm minimum insulated cavity
E-WM-26	masonry – Besblock “Star Performer” cellular blockwork (gypsum-based board) with 100mm minimum insulated cavity
E-WM-27	masonry - lightweight aggregate blockwork Superglass Party Wall Roll (gypsum-based board) with minimum 75mm cavity
E-WM-28	masonry - lightweight aggregate blockwork Knauf Party Wall Wool (gypsum-based board) with minimum 100mm cavity

See over for timber and steel frame walls

# Introduction

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## List of Robust Details

Table 1 (continued) – Separating walls

E-WT-1	timber frame – without sheathing board
E-WT-2	timber frame – with sheathing board
E-WT-3	timber frame – Elecoframe prefabricated panels
E-WT-4	timber frame – Excel Industries Warmcell 500 insulation - with sheathing board
E-WS-1	steel frame – twin metal frame
E-WS-2	steel frame – British Gypsum Gypwall QUIET IWL
E-WS-3	steel frame – modular steel frame housing
E-WS-4	steel frame – twin metal frame - 250mm between linings



# Introduction

## List of Robust Details

Table 2 – Separating floors

E-FC-1	precast concrete plank with directly applied screed and floating floor treatment
E-FC-2	in-situ concrete slab and floating floor treatment
E-FC-3	Suspended from further registrations
E-FC-4	precast concrete plank and Thermal Economics IsoRubber system and floating screed
E-FC-5	precast concrete plank and Cella Yelofon HD10+ system and floating screed
E-FC-6	beam and block with concrete topping Regupol E48 system and floating screed
E-FC-7	beam and block with concrete topping and floating floor treatment
E-FC-8	precast concrete plank with floating screed and bonded resilient floor covering
E-FC-9	precast concrete plank with directly applied screed and Thermal Economics IsoRubber top bonded resilient floor covering
E-FC-10	in-situ concrete slab with Thermal Economics IsoRubber top bonded resilient floor covering
E-FC-11	precast concrete plank and Icopal-MONARFLOOR® Tranquilt and floating screed
E-FC-12	precast concrete plank and Thermal Economics IsoRubber Base HP3 system and floating screed
E-FC-13	precast concrete plank and InstaCoustic InstaLay 65 system and floating screed
E-FC-14	precast concrete plank and Thermal Economics IsoRubber Code layer and floating screed
E-FC-15	precast concrete plank and Regupol Quietlay layer and floating screed
E-FC-16	precast concrete plank with directly applied screed and Thermal Economics IsoRubber CC3 bonded resilient floor covering
E-FT-1	timber I-joists and floating floor treatment
E-FT-2	timber solid joists and floating floor treatment
E-FT-3	MiTek Posi-Joist, Prestoplan PresWeb, WOLF easi-joist, ITW Gang-Nail Ecojoist or ITW Alpine SpaceJoist metal web timber joist and floating floor treatment
E-FT-4	timber Finnjoists with Finnforest Acoustic layer and Gyvlon screed
E-FT-5	Cellecta ScreedBoard® 28 system on timber I-joists
E-FT-6	Cellecta ScreedBoard® 28 system on metal web joists
E-FT-7	timber I-joists and FFT80 floating floor treatment
E-FT-8	timber solid joists and FFT80 floating floor treatment
E-FS-1	steel deck and in-situ concrete and floating floor treatment
E-FS-2	UltraBEAM metal joists and floating floor treatment
E-FS-3	Cellecta ScreedBoard® 28 system on metal joists

# Introduction

Table 3a – Combinations of Robust Details separating walls and floors for flats/apartments in **loadbearing masonry** constructions

Separating walls		Separating floors					
		E-FC-1					E-FC-8
		E-FC-11	E-FC-14			E-FC-6	E-FC-9
		E-FC-12	E-FC-15	E-FC-4	E-FC-5	E-FC-7	E-FC-10
E-WM-1	E-WM-16	✓		✓	✓	✓	✓
E-WM-3	E-WM-18						
E-WM-2	E-WM-20						
E-WM-4	E-WM-21						
E-WM-5	E-WM-26	✓		✓	✓	F	✓
E-WM-8	E-WM-27						
E-WM-11	E-WM-28						
E-WM-14							
E-WM-6	E-WM-15						
E-WM-10	E-WM-23	F		✓	✓ see note 1	F	✓
E-WM-13	E-WM-24						
	E-WM-12	F		✓	F	F	F
E-WM-17	E-WM-22	✓ see note 2		✓	✓ see note 2	F	✓ see note 2
	E-WM-25	F		F	F	F	F

**Key**

- F** Only the separating floor requires pre-completion sound testing.
- 1** Where this combination is selected, 200mm (min) thick precast concrete planks and ceiling treatment CT5 must be used.
- 2** This combination can only be selected where the construction does not include Plasmor Aglite Ultima blocks (1050 kg/m<sup>3</sup>).

**Combining robustdetails® loadbearing masonry walls and floors with robustdetails® lightweight framed separating walls**

Upper storeys of blocks of flats may be constructed using lightweight steel or timber frame, where the lower storeys are loadbearing masonry.

The lightweight separating walls built directly off the uppermost concrete separating floors may be registered as Robust Details provided:

- the lightweight walls are in vertical alignment with the masonry walls below, such that they can follow the principles of the ground floor junction shown for the relevant robustdetails® separating wall;
- the external (flanking) wall construction above the separating floor meets the requirements on page 2 of the relevant robustdetails® separating wall, and has 2 layers of gypsum-based board;
- the junction between the bottom rail (or sole plate) is well sealed;
- all other relevant requirements in the Handbook are strictly followed.

The separating floor may be registered as a Robust Detail provided:

- the floor is constructed in accordance with the requirements of the published Detail;
- the external (flanking) wall below the precast concrete floor satisfies the requirements of detail 1 on page 2 of the relevant robustdetails® separating floor;
- all other relevant requirements in the Handbook are strictly followed.

## Introduction

**Table 3b – Combinations of Robust Details separating walls and floors for flats/apartments in timber frame constructions**

Separating walls	Separating floors	
	E-FT-1 E-FT-2 E-FT-3 E-FT-4 E-FT-5 E-FT-6 E-FT-7 E-FT-8	E-FC-2 E-FS-1
E-WT-1	✓	W see note 1
E-WT-2	✓	W see note 1
E-WT-3	F	W see note 1
E-WT-4	F	W see note 1

**Table 3c – Combinations of Robust Details separating walls and floors for flats/apartments in reinforced concrete and steel frame constructions**

Separating walls	Separating floors				
	E-FC-2	E-FC-10	E-FS-1	E-FS-2	E-FS-3
E-WS-1	W <sup>see note 1</sup>	W	W <sup>see note 1</sup>	✓	✓
E-WS-2	✓	W	W	W	W
E-WS-3	W	W	W	W	W
E-WS-4	W <sup>see note 1</sup>	W	W <sup>see note 1</sup>	✓	✓

Key for Table 3b and Table 3c

**F** Only the separating floor requires pre-completion sound testing.

**W** Only the separating wall requires pre-completion sound testing.

**1** Lightweight steel and timber frame walls may be constructed above in-situ poured concrete floors.

The lightweight walls built directly off the concrete floors may be registered as Robust Details provided:

- they meet all other requirements of the Robust Detail, including flanking constructions;
- the principles of the raft foundation junction are followed. As such, the concrete of the floor must have a mass of 365 kg/m<sup>2</sup> (min), and a floating floor treatment must be provided;

Walls constructed to the soffit of in-situ poured concrete floors cannot be registered as Robust Details and may be subject to pre-completion sound testing.

See also notes relating to [Combining loadbearing masonry and lightweight framed separating walls](#) included under Table 3a.

# Introduction

**Table 4 – Combining Robust Details separating walls with non-Robust Details separating floors in flats/apartments**

Loadbearing masonry			
E-WM-1	F1	E-WM-21	F1
E-WM-2	F1	E-WM-22	F1
E-WM-3	F1	E-WM-23	F1
E-WM-4	F1	E-WM-24	F1
E-WM-5	F1	E-WM-25	F1
E-WM-6	F1	E-WM-26	F1
E-WM-8	F1	E-WM-27	F1
E-WM-10	F1	E-WM-28	F1
E-WM-11	F1		
E-WM-12	F1		
E-WM-13	F1		
E-WM-14	F1		
E-WM-15	F1		
E-WM-16	F1		
E-WM-17	F1		
E-WM-18	F1		
E-WM-20	F1		

Timber frame		Light steel frame	
E-WT-1	F2	E-WS-1	F3
E-WT-2	F2	E-WS-2	F4
E-WT-3	F2	E-WS-3	F3
E-WT-4	F2	E-WS-4	F3

**Key**

- F1** Only the separating floor requires pre-completion testing provided the floor does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- F2** Only the separating floor requires pre-completion testing provided the floor is timber-based and does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- F3** Only the separating floor requires pre-completion testing provided the wall is being used in a lightweight steel frame flat/apartment and the floor does not bridge the separating wall cavity. Otherwise both the wall and floor need testing.
- F4** Only the separating floor requires pre-completion testing provided the wall is being used in a concrete frame building and the base of the wall is shielded by a floating floor treatment. Otherwise both the wall and floor need testing.

**Table 5 – Combining Robust Details separating floors with non-Robust Details separating walls in flats/apartments**

Loadbearing masonry			
E-FC-1	W1	E-FC-11	W1
E-FC-4	W2	E-FC-12	W1
E-FC-5	W2	E-FC-13	W1
E-FC-6	W1	E-FC-14	W1
E-FC-7	W1	E-FC-15	W1
E-FC-8	W2	E-FC-16	W1
E-FC-9	W2		
E-FC-10	W2		

Timber frame		RC frame	
E-FT-1	W3	E-FC-2	W4
E-FT-2	W3	E-FC-10	W4
E-FT-3	W3		
E-FT-4	W3		
E-FT-5	W3		
E-FT-6	W3		
E-FT-7	W3		
E-FT-8	W3		

Light steel frame			
		E-FS-1	W4
		E-FS-2	W5
		E-FS-3	W5

**Key**

- W1** Only the separating wall requires pre-completion testing provided the wall is constructed using aggregate blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the floor and wall need testing.
- W2** Only the separating wall requires pre-completion testing provided the wall is constructed using blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the floor and wall need testing.
- W3** Only the separating wall requires pre-completion testing if used with timber frame supporting walls and twin leaf timber frame separating walls. Otherwise both the floor and wall need testing.
- W4** Only the separating wall requires pre-completion testing provided the external wall meets the specification given in the separating floor Robust Detail. Otherwise both the floor and wall need testing.
- W5** Only the separating wall requires pre-completion testing if used with steel frame supporting walls and twin leaf steel frame separating walls. Otherwise both the floor and wall need testing.

For any construction that requires a separating element to be tested, the user should seek expert acoustic advice on the design and potential acoustic performance.

# Introduction

Table 6a – Robust Detail separating walls which can be used together with the proprietary flanking constructions contained in Appendix A2

		BRIDGESTOP® system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof
Masonry walls	E-WM-1	✓				✓	
	E-WM-2	✓				✓	
	E-WM-3	✓	✓			✓	✓
	E-WM-4	✓	✓			✓	✓
	E-WM-5	✓	✓			✓	✓
	E-WM-6		✓			✓	✓
	E-WM-8	✓	✓			✓	✓
	E-WM-9						
	E-WM-10		✓			✓	✓
	E-WM-11	✓	✓			✓	✓
	E-WM-12	✓	✓			✓	✓
	E-WM-13		✓			✓	✓
	E-WM-14	✓	✓			✓	✓
	E-WM-15		✓			✓	✓
	E-WM-16	✓	✓			✓	✓
	E-WM-17	✓	✓			✓	✓
	E-WM-18	✓				✓	
	E-WM-19	✓ see note 1					
	E-WM-20	✓	✓			✓	✓
	E-WM-21	✓				✓	
	E-WM-22	✓	✓			✓	✓
	E-WM-23	✓ see note 1	✓			✓	✓
	E-WM-24	✓ see note 1	✓			✓	✓
	E-WM-25					✓	
	E-WM-26	✓	✓			✓	✓
	E-WM-27	✓	✓			✓	✓
	E-WM-28	✓	✓			✓	✓

Key

1 When constructing these walls off raft foundations, the raft must have insitu concrete with 150mm minimum thickness.

See over for timber and steel frame walls

## Introduction

Table 6a (continued) – Robust Detail separating walls which can be used together with the proprietary flanking constructions contained in Appendix A2

		BRIDGESTOP® system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof
Timber walls	E-WT-1		✓	✓	✓	✓	✓
	E-WT-2		✓	✓	✓	✓	✓
	E-WT-3		✓			✓	✓
	E-WT-4		✓			✓	✓
Steel walls	E-WS-1					✓	
	E-WS-2						
	E-WS-3						
	E-WS-4					✓	

## Introduction

Table 6b – Robust Detail separating floors which can be used together with the proprietary flanking constructions contained in Appendix A2

	BRIDGESTOP® system	Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof
Masonry floors	E-FC-1				✓	
	E-FC-2					
	E-FC-4				✓	
	E-FC-5				✓	
	E-FC-6				✓	
	E-FC-7				✓	
	E-FC-8				✓	
	E-FC-9				✓	
	E-FC-10				✓	see note 1
	E-FC-11				✓	
	E-FC-12				✓	
	E-FC-13				✓	
	E-FC-14				✓	
	E-FC-15				✓	
	E-FC-16				✓	
	Timber floors	E-FT-1				✓
E-FT-2					✓	
E-FT-3					✓	
E-FT-4					✓	
E-FT-5					✓	
E-FT-6					✓	
E-FT-7					✓	
E-FT-8					✓	
Steel-concrete and steel floors	E-FS-1					
	E-FS-2				✓	
	E-FS-3				✓	

Key

1 Applies only to loadbearing masonry constructions.

## Introduction

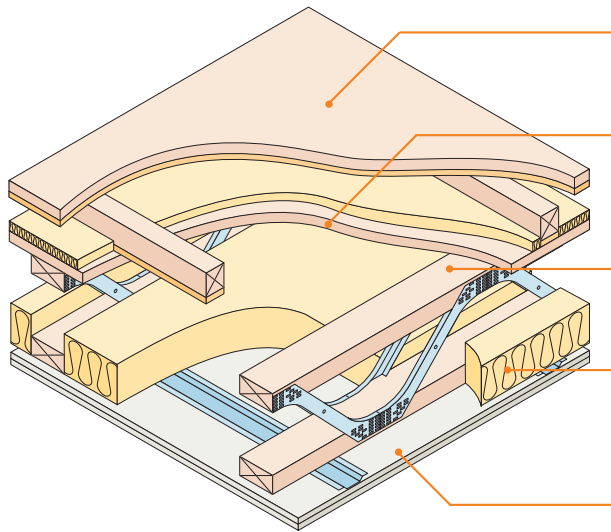
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Table 7 – Robust Detail separating floors which can be used together with alternative products contained in Appendix A3

		British Gypsum GypFloor	Insumate insulation tray
Concrete floors	E-FC-1	✓	
	E-FC-2	✓	
	E-FC-4		
	E-FC-5		
	E-FC-6		
	E-FC-7	✓	
	E-FC-8		
	E-FC-9		
	E-FC-10		
	E-FC-11		
	E-FC-12		
	E-FC-13		
	E-FC-14		
	E-FC-15		
	E-FC-16		
	Timber floors	E-FT-1	
E-FT-2			✓
E-FT-3			✓
E-FT-4			
E-FT-5			
E-FT-6			
E-FT-7			✓
E-FT-8			✓
Steel-concrete and steel floors	E-FS-1	✓	
	E-FS-2		
	E-FS-3		



Timber flange and metal web joists ■  
 Use with timber frame walls only ■



<b>Floating floor</b>	See section 10 for suitable floating floor treatment
<b>Floor decking</b>	18mm thick (min) wood based board, density min 600 kg/m <sup>3</sup>
<b>Joists</b>	253mm (min) metal web joists (see joist type below)
<b>Absorbent material</b>	100mm (min) mineral wool quilt insulation (10–36 kg/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See section 9 for suitable ceiling treatment

## Joist type

### IMPORTANT

Only the following metal web joists may be used in E-FT-3:

- MiTek Posi-Joist
- Prestoplan PresWeb
- WOLF easi-joist
- ITW Gang-Nail Ecojoist
- ITW Alpine SpaceJoist

### Notes:

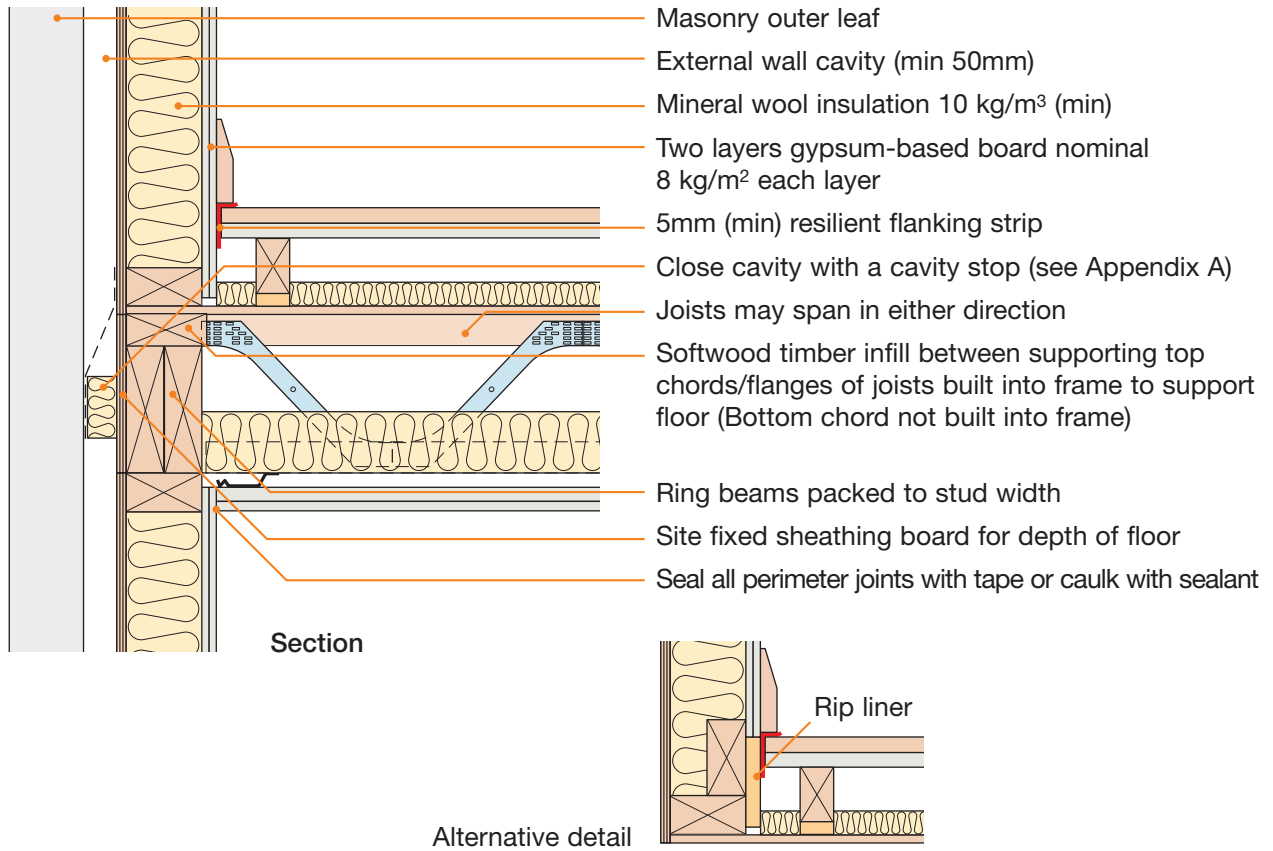
Although single header and sole plates are indicated, increasing the number of header and sole plates would be acceptable, however, all dimension specifications within this Robust Detail must be adhered to.

Metal web joists can be **top chord/flange** supported or **fully built-in** and supported on the panel and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

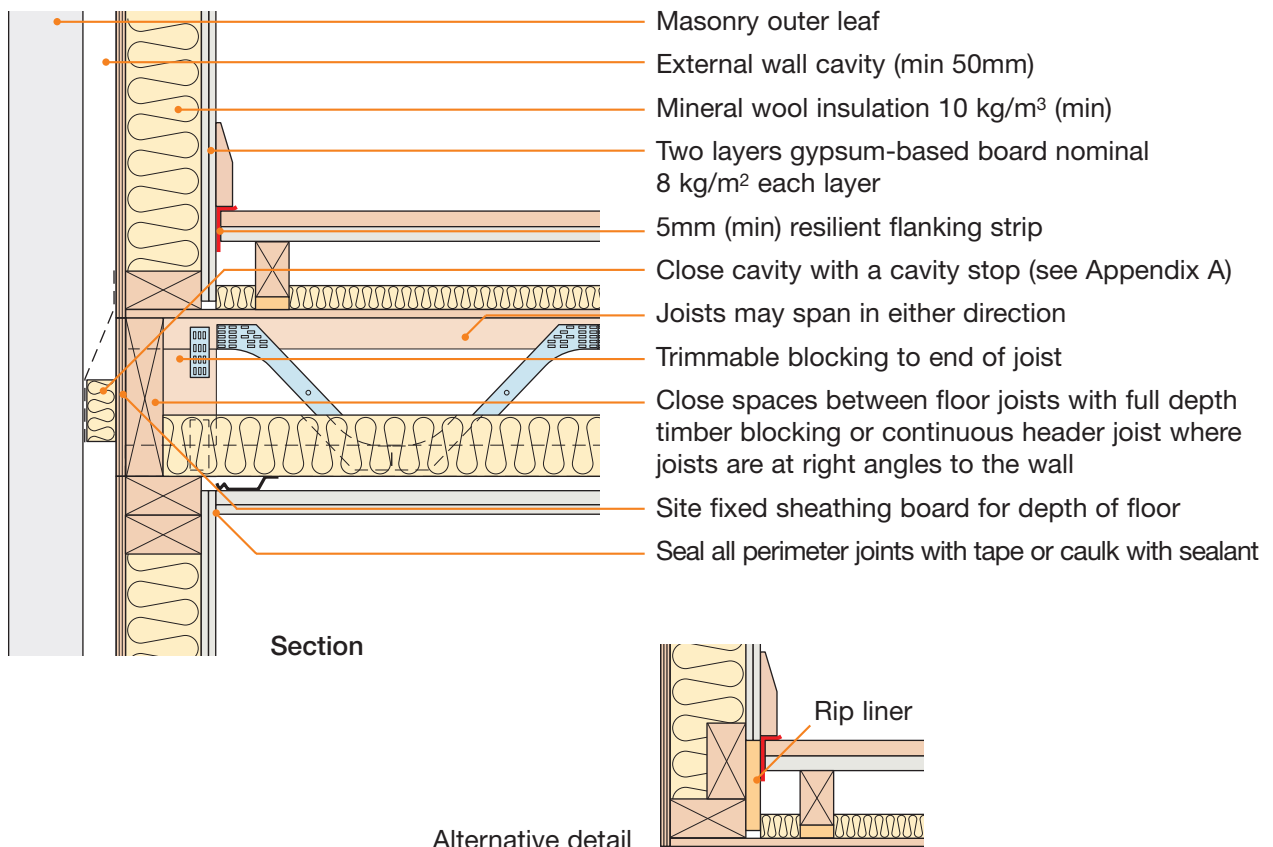
## DO

- Ensure correct metal web joists are being used (see joist type)
- Lay quilt (min 100mm thick) between joists ensuring no gaps remain
- Ensure floating floor treatment is suitable and is installed in accordance with the manufacturer's instructions (See page 7)
- Ensure quilt within floating floor is laid between and not under flooring battens
- Install resilient flanking strips around the perimeter of the flooring board to isolate floor from walls and skirtings
- Ensure resilient ceiling bars are fixed at right angles to the joists
- Ensure timber floor ceiling treatment is fixed correctly (see page 6)
- Stagger joints in ceiling layers
- Refer to Appendix A

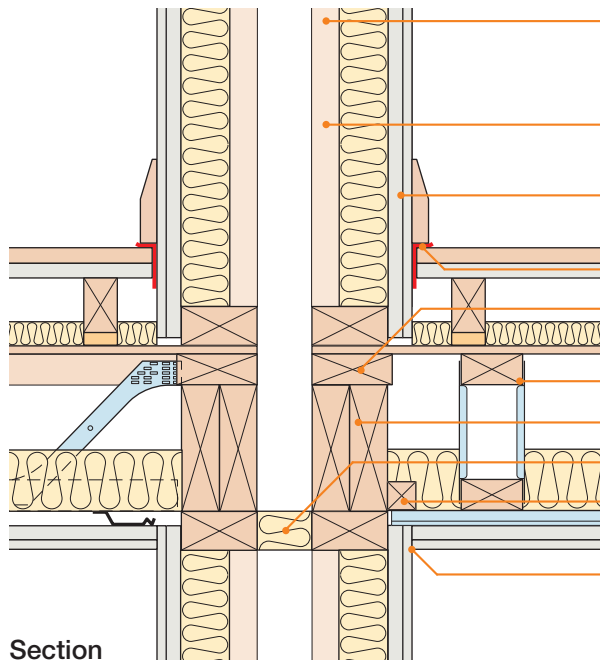
## 1. External (flanking) wall junction (top chord supported)



## 2. External (flanking) wall junction (fully built-in)

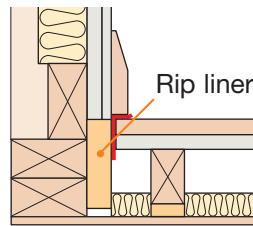


3. Separating wall junction (top chord supported)



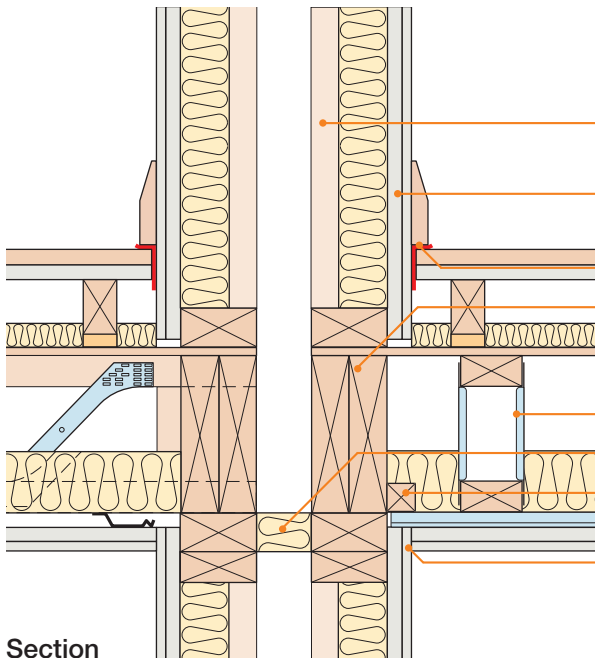
Section

- If using **robustdetails**<sup>®</sup> for wall - refer to Table 3b in introduction to select an appropriate **robustdetails**<sup>®</sup> separating wall
- If using wall requiring pre-completion testing - seek specialist advice
- Two layers gypsum-based board total nominal mass per unit area 22 kg/m<sup>2</sup> both sides
- 5mm (min) resilient flanking strip
- Softwood timber infill between supporting top chords/flanges of joists
- Joists may span in either direction
- Ring beams packed to stud width
- Close cavity with a cavity stop (see Appendix A)
- Softwood timber noggling for resilient bar support (leave a small gap at end of resilient bar)
- Seal all perimeter joints with tape or caulk with sealant



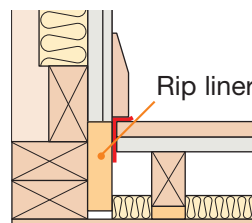
Alternative detail

4. Separating wall junction (fully built-in)



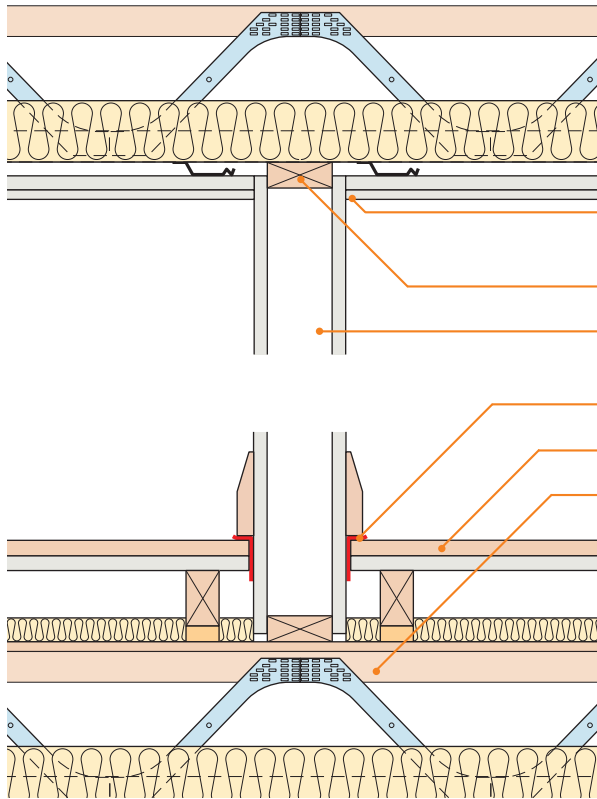
Section

- If using **robustdetails**<sup>®</sup> for wall - refer to Table 3b in introduction to select an appropriate **robustdetails**<sup>®</sup> separating wall
- If using wall requiring pre-completion testing - seek specialist advice
- Two layers gypsum-based board total nominal mass per unit area 22 kg/m<sup>2</sup> both sides
- 5mm (min) resilient flanking strip
- Close spaces between floor joists with full depth timber blocking or continuous header joist where joists are at right angles to the wall
- Joists may span in either direction
- Close cavity with a cavity stop (see Appendix A)
- Softwood timber noggling for resilient bar support (leave a small gap at end of resilient bar)
- Seal all perimeter joints with tape or caulk with sealant



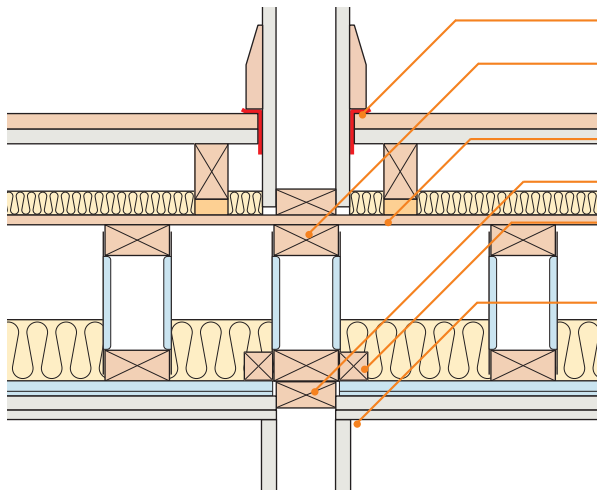
Alternative detail

5. Non loadbearing internal wall perpendicular to joists



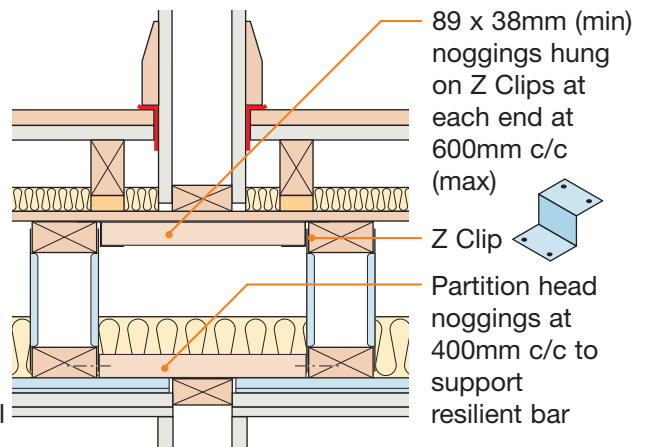
- Seal all perimeter joints with tape or caulk with sealant
- Headplate fixed to joist
- Where required internal wall to comply with Building Regulations Requirement E2
- 5mm (min) resilient flanking strip
- Floating floor
- Metal web joist (see joist type, page 1)
- \*Note - non loadbearing partitions may also be taken directly off the floating floor treatment, check with manufacturer's instructions for installation (see Appendix A)

6. Non loadbearing internal wall parallel to joists



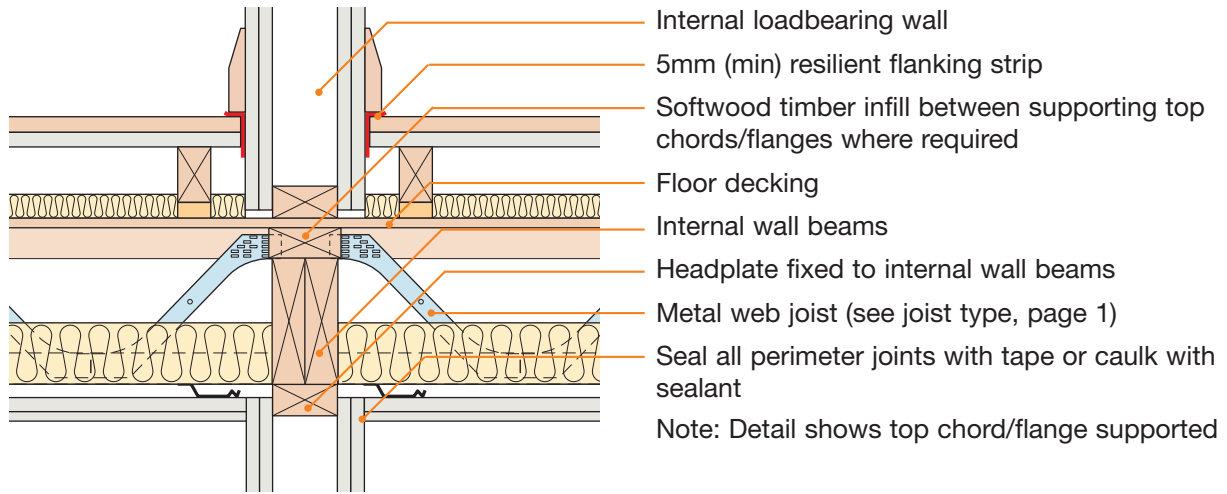
- 5mm (min) resilient flanking strip
- Extra metal web joist (see joist type, page 1) under internal wall
- Floor decking
- Headplate fixed to joist
- Softwood timber noggings for resilient bar support (leave a small gap at end of resilient bar)
- Seal all perimeter joints with tape or caulk with sealant

\*Note - non loadbearing partitions may also be taken directly off the floating floor treatment, check with manufacturer's instructions for installation (see Appendix A)

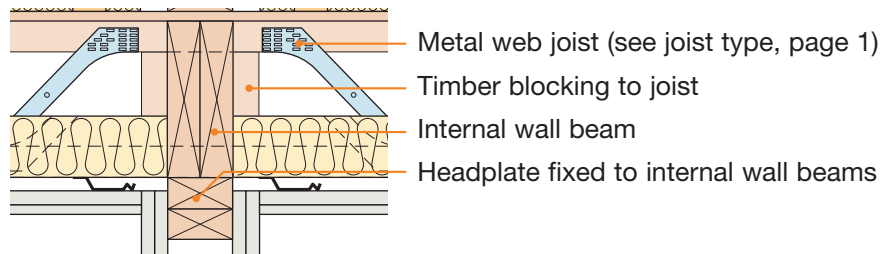


Alternative detail

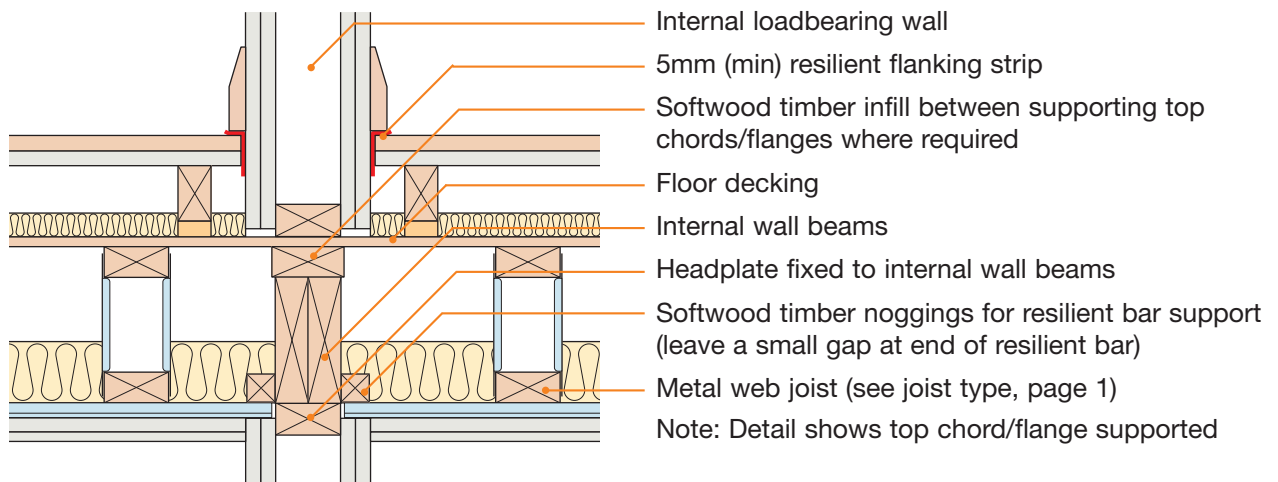
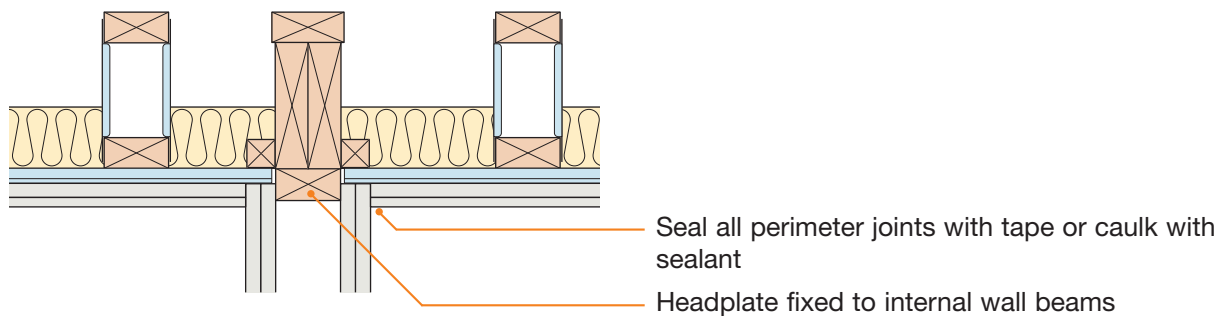
7. Loadbearing internal wall perpendicular to joists



Alternative detail



8. Loadbearing internal wall parallel to joists



## 9. Ceiling treatment for E-FT-3

Timber floor ceiling treatment must be either CT1, CT2 or CT3 (see below). All joints to outer layers of ceiling must be sealed with tape or caulked with sealant.

The maximum load on resilient bars should not exceed that specified in the manufacturer's instructions.

Ensure ceiling layers have staggered joints.

Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

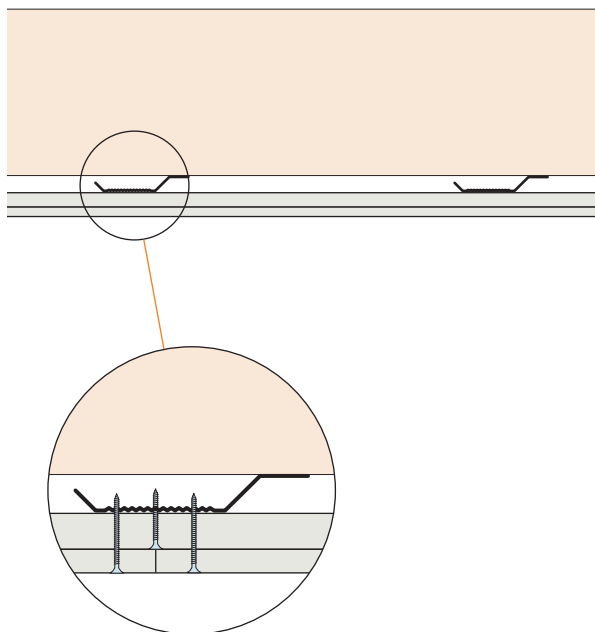
### Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m<sup>2</sup> of ceiling area in each room unless the use of a greater density of light fittings is supported by testing undertaken in accordance with Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety

**Note: Only downlighters which have been satisfactorily assessed in accordance with the procedure described in Appendix F "Determination of the acoustic performance of downlighters and recessed lighting in timber separating floors" are acceptable.**



### CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS

#### 16mm (min) resilient bars with CT1 and CT2

16mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of  $rd\Delta Rw+Ctr=17dB$  and  $rd\Delta Lw=16dB$ ) – see Appendix E

#### Ceiling treatment CT1

Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m<sup>2</sup>) fixed with 32mm screws, and 12.5mm (nominal 10 kg/m<sup>2</sup>) fixed with 42 mm screws

#### Ceiling treatment CT2

Two layers of gypsum-based boards composed of 15mm (nominal 11.7 kg/m<sup>2</sup>) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 11.7 kg/m<sup>2</sup>) fixed with 42mm screws

#### 25mm (min) resilient bars with CT3

25mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of  $rd\Delta Rw+Ctr=17dB$  and  $rd\Delta Lw=16dB$ ) - see Appendix E

#### Ceiling treatment CT3

Two layers of gypsum-based board, composed of 10mm (nominal 12kg/m<sup>2</sup>) fixed with 30mm screws and second layer of 10mm (nominal 12kg/m<sup>2</sup>) fixed with 30mm screws

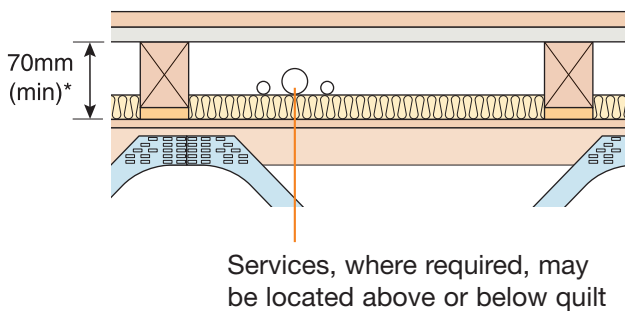
## 10. Floating floor treatment for E-FT-3

Floating floor treatment:

- a) Must achieve a minimum laboratory performance of  $rd\Delta R_w + C_{tr} = 13\text{dB}$  and  $rd\Delta L_w = 15\text{dB}$  - see Appendix C.
- b) Must be installed in accordance with the manufacturer's instructions.
- c) Require 5mm (min) resilient flanking strips around the perimeter of the flooring board to isolate floor from walls and skirting.

- d) For further guidance on floating floor treatments and flanking strips, please refer to Appendix A.

\* Note - void dimension indicated is when floor is loaded to 25 kg/m<sup>2</sup>.

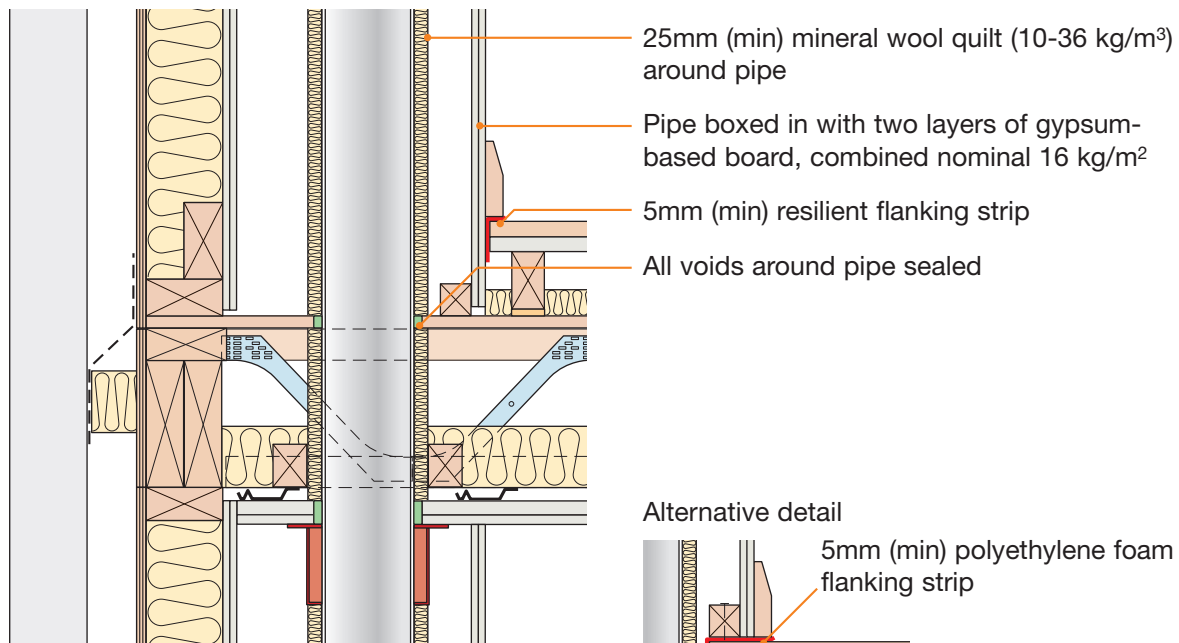


### FFT1 – Resilient composite deep batten system for E-FT-3

- 18 mm (min) t&g flooring board
- gypsum-based board nominal 13.5 kg/m<sup>2</sup>
- FFT1 resilient composite deep battens
- battens may have the resilient layer at the top or the bottom
- mineral wool quilt laid between battens
  - 13mm (min) 33-36 kg/m<sup>3</sup>, or
  - 25mm (min) 10-36 kg/m<sup>3</sup>
- ensure any services do not bridge the resilient layer

\* Note - Services may run within the floor zone (see Appendix A)

## 11. Services – pipes through separating floor



Section

Sketch shows top chord supported external (flanking) wall junction detail, for fully built-in arrangement see section 2



**CHECKLIST** (to be completed by site manager/supervisor)

Company: \_\_\_\_\_

Site: \_\_\_\_\_

Plot: \_\_\_\_\_ Site manager/supervisor: \_\_\_\_\_

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Are correct metal web joists being used (see page 1 of Robust Detail)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Which of the permitted metal web joist types are being used?	<input type="text"/>		
3.	Are joists at least 253mm deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Has quilt (min 100mm thick) been fitted between the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Are resilient ceiling bars fitted at right angles to the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Has ceiling system been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Has floating floor treatment been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Has quilt been fitted between the floor battens?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Is ceiling treatment CT1, CT2 or CT3 fixed to the resilient bars with correct screws such that the screws do not touch or penetrate the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Are all joints to gypsum-based boards sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Are vertical service pipes wrapped in quilt and boxed in with two layers of gypsum-based board combined nominal mass per unit area of 16 kg/m <sup>2</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	Have all resilient flanking strips been fitted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
13.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

**Notes** (include details of any corrective action)

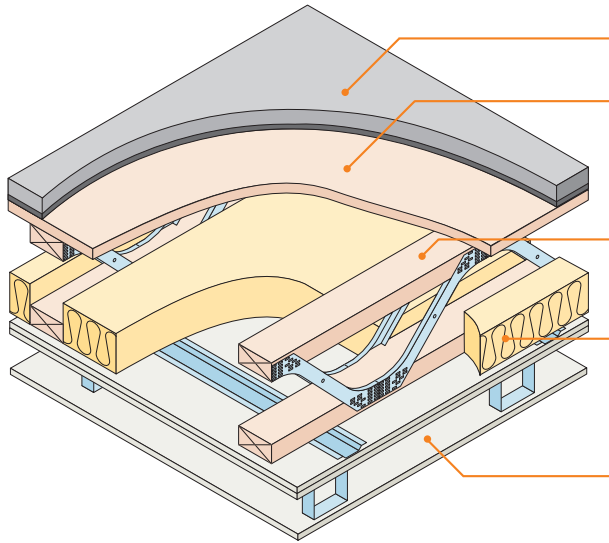
  
  
  
  
  
  
  
  
  
  

Site manager/supervisor signature .....

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 Warning: the doing of an unauthorised act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution.



- *Cellecta*® ScreedBoard® 28 on timber sub-floor
- Timber flange and metal web joists
- Use with timber frame walls only



<b>Floating floor</b>	<i>Cellecta</i> ® ScreedBoard® 28
<b>Floor decking</b>	18mm thick (min) wood based board, density min 600 kg/m <sup>3</sup>
<b>Joists</b>	253mm (min) metal web joists (see joist type below)
<b>Absorbent material</b>	100mm (min) mineral wool quilt insulation (10–36 kg/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See section 9 for suitable ceiling treatment

## Joist type

### IMPORTANT

Only the following metal web joists may be used in E-FT-3:

- MiTek Posi-Joist
- Prestoplan PresWeb
- WOLF easi-joist
- ITW Gang-Nail Ecojoist
- ITW Alpine SpaceJoist

### Notes:

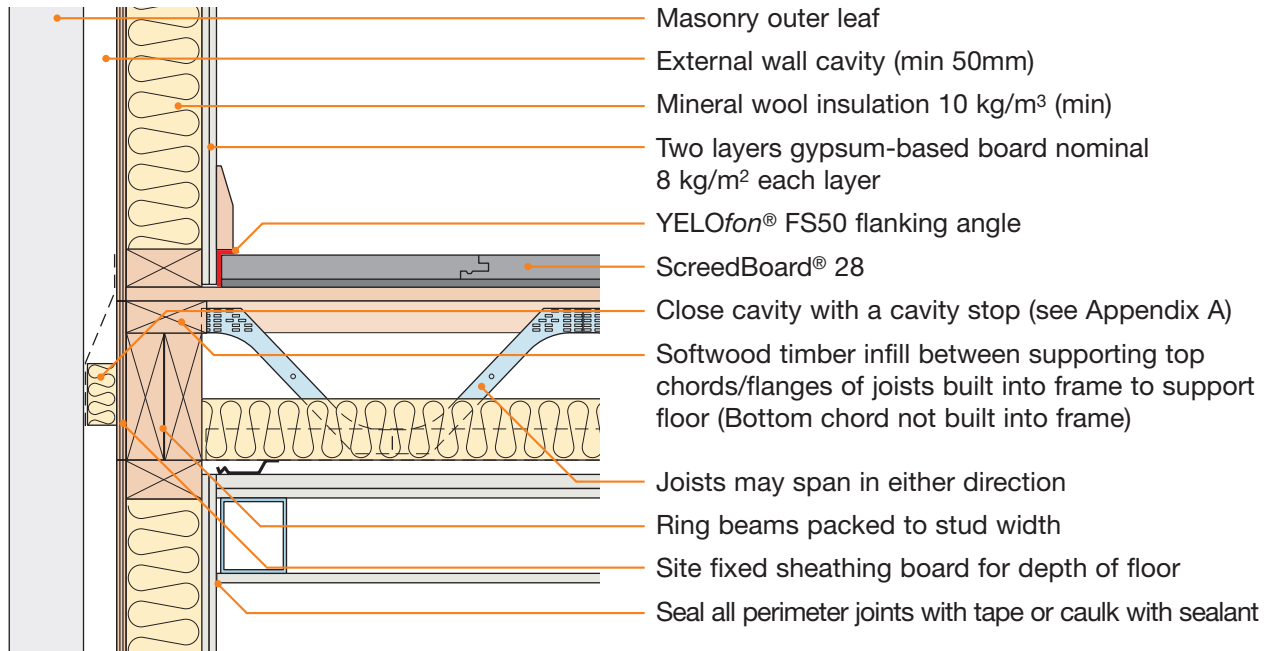
Although single header and sole plates are indicated, increasing the number of header and sole plates would be acceptable, however, all dimension specifications within this Robust Detail must be adhered to.

Metal web joists can be **top chord/flange** supported or **fully built-in** and supported on the panel and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

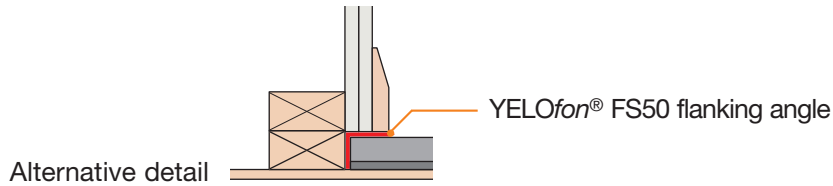
## DO

- Ensure correct metal web joists are being used (see joist type)
- Lay quilt (min 100mm thick) between joists ensuring no gaps remain
- Apply *Cellecta*® SB adhesive to all ScreedBoard® 28 decking joints
- Install *YELOfon*® FS50 flanking angle around the perimeter of the ScreedBoard® 28 to isolate floor from walls and skirtings
- Ensure resilient ceiling bars are fixed at right angles to the joists
- Ensure timber floor ceiling treatment is fixed correctly (see section 9)
- Stagger joints in ceiling layers
- Refer to Appendix A

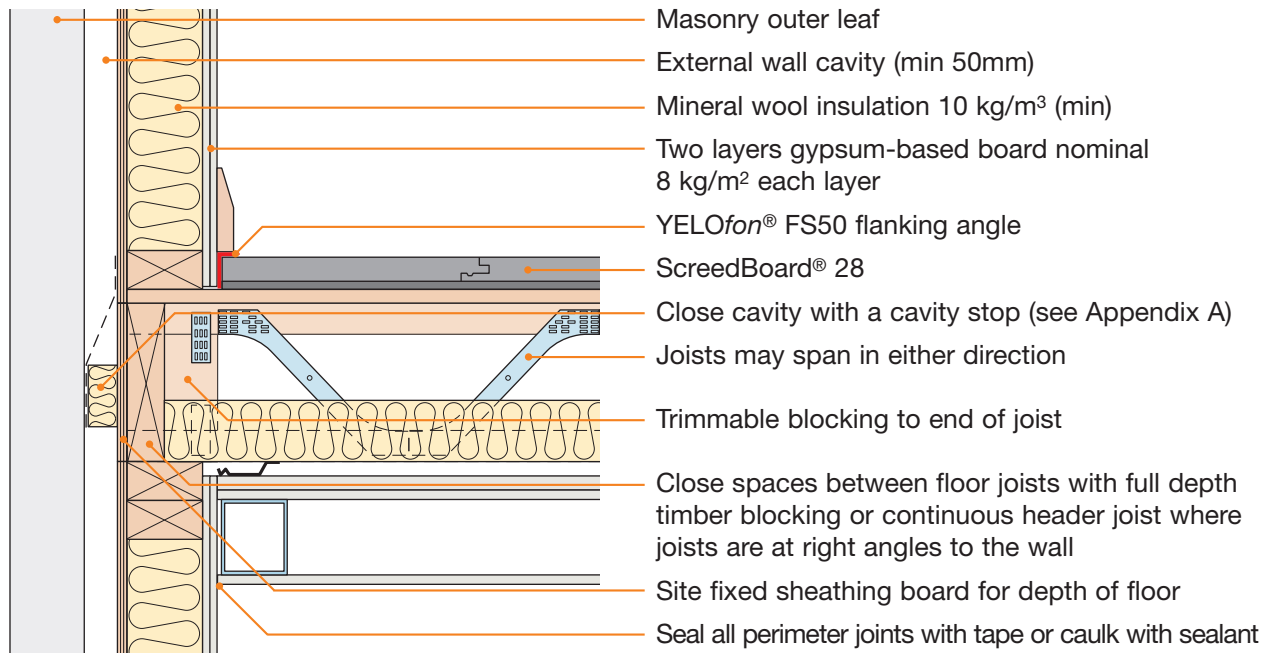
1. External (flanking) wall junction (top chord supported)



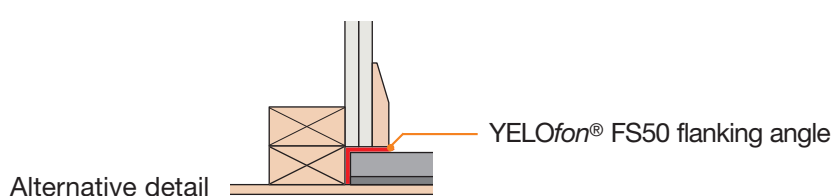
Section



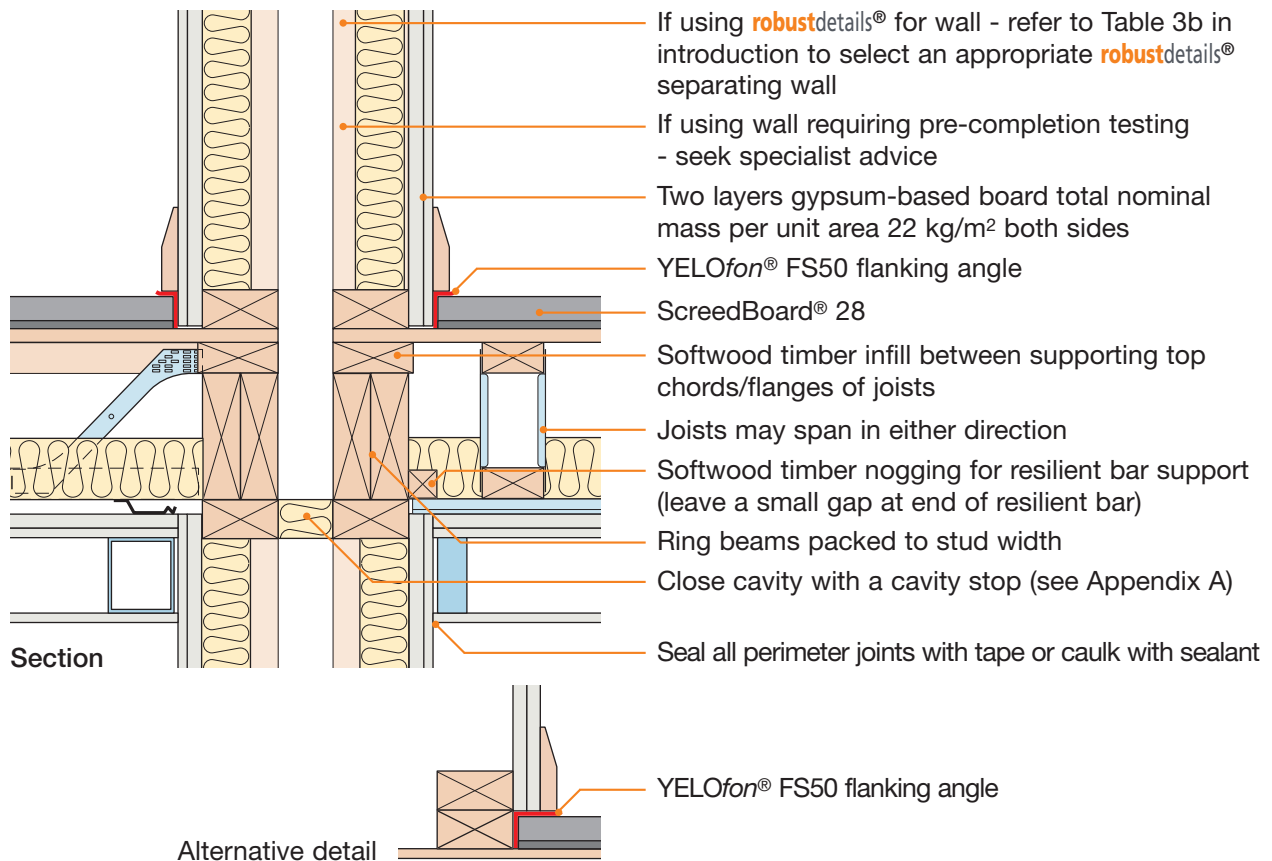
2. External (flanking) wall junction (fully built-in)



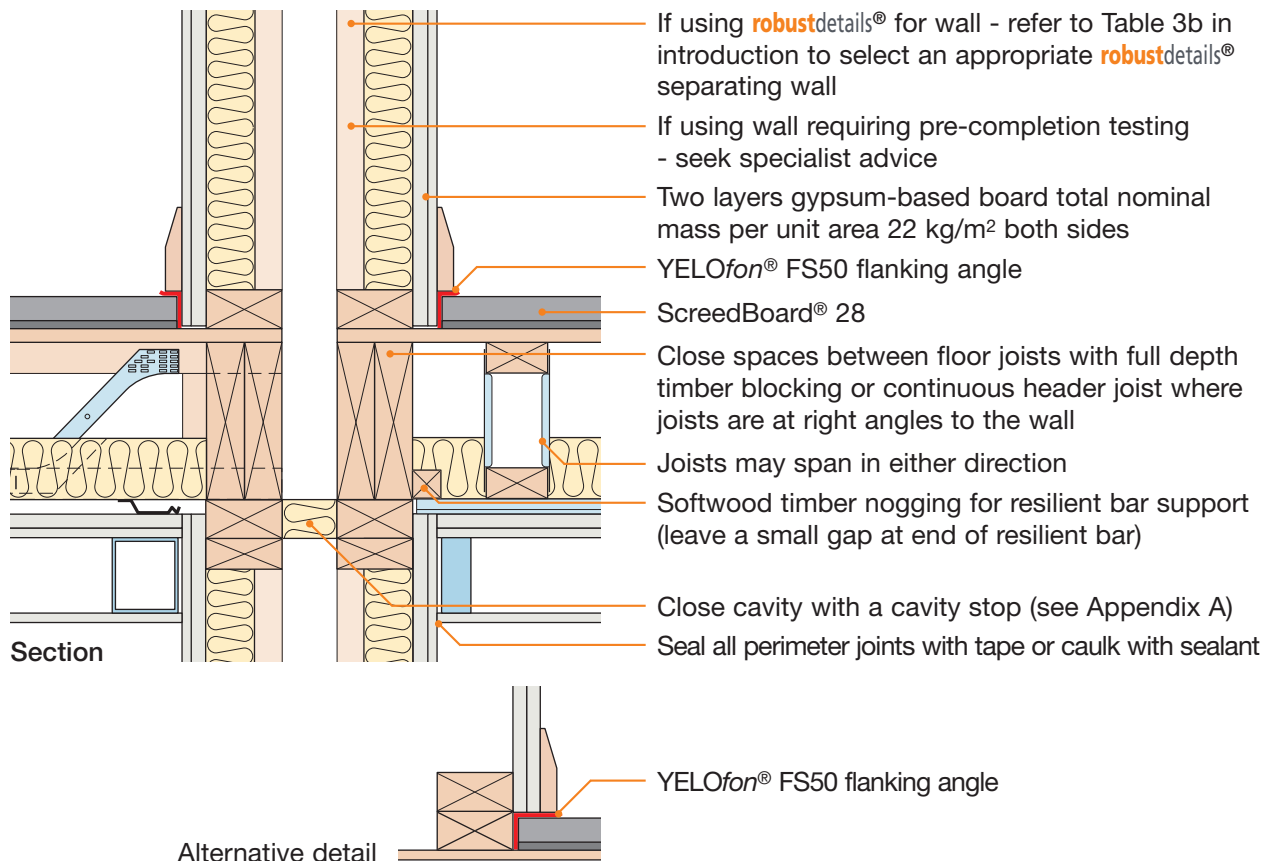
Section



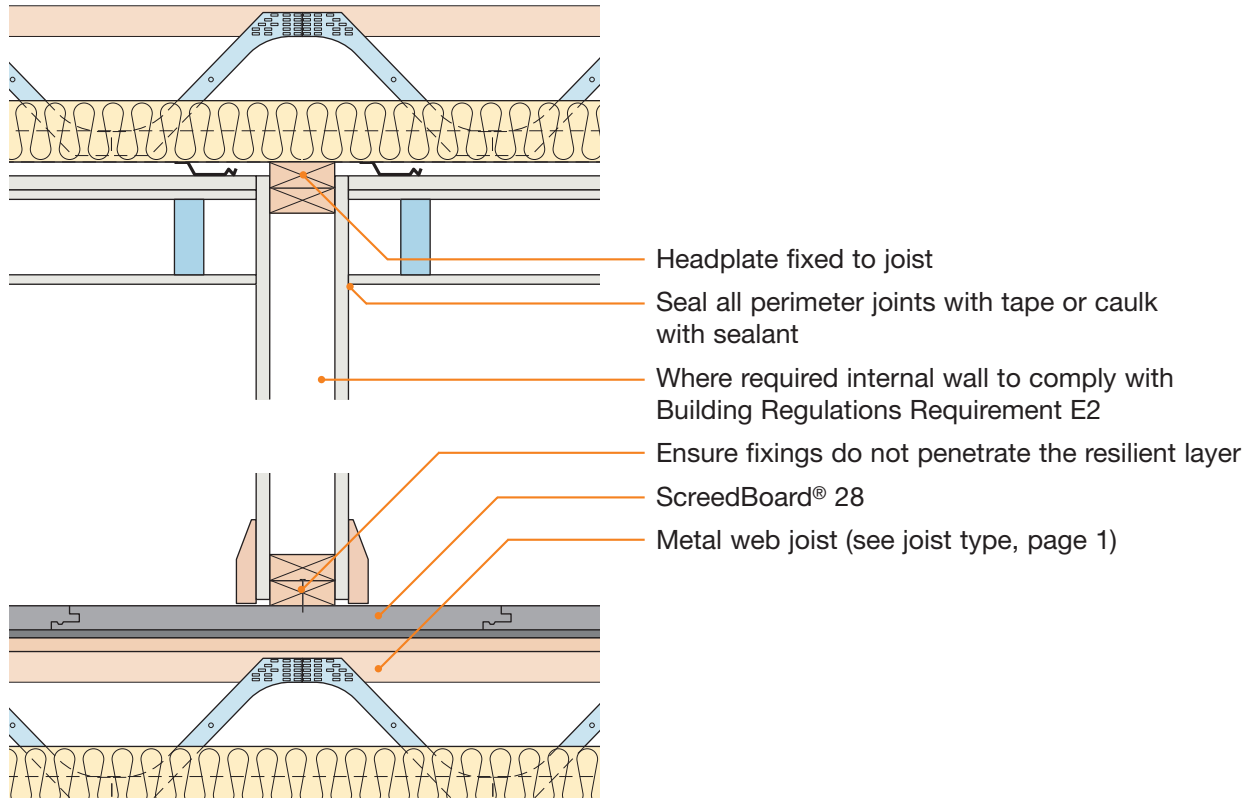
## 3. Separating wall junction (top chord supported)



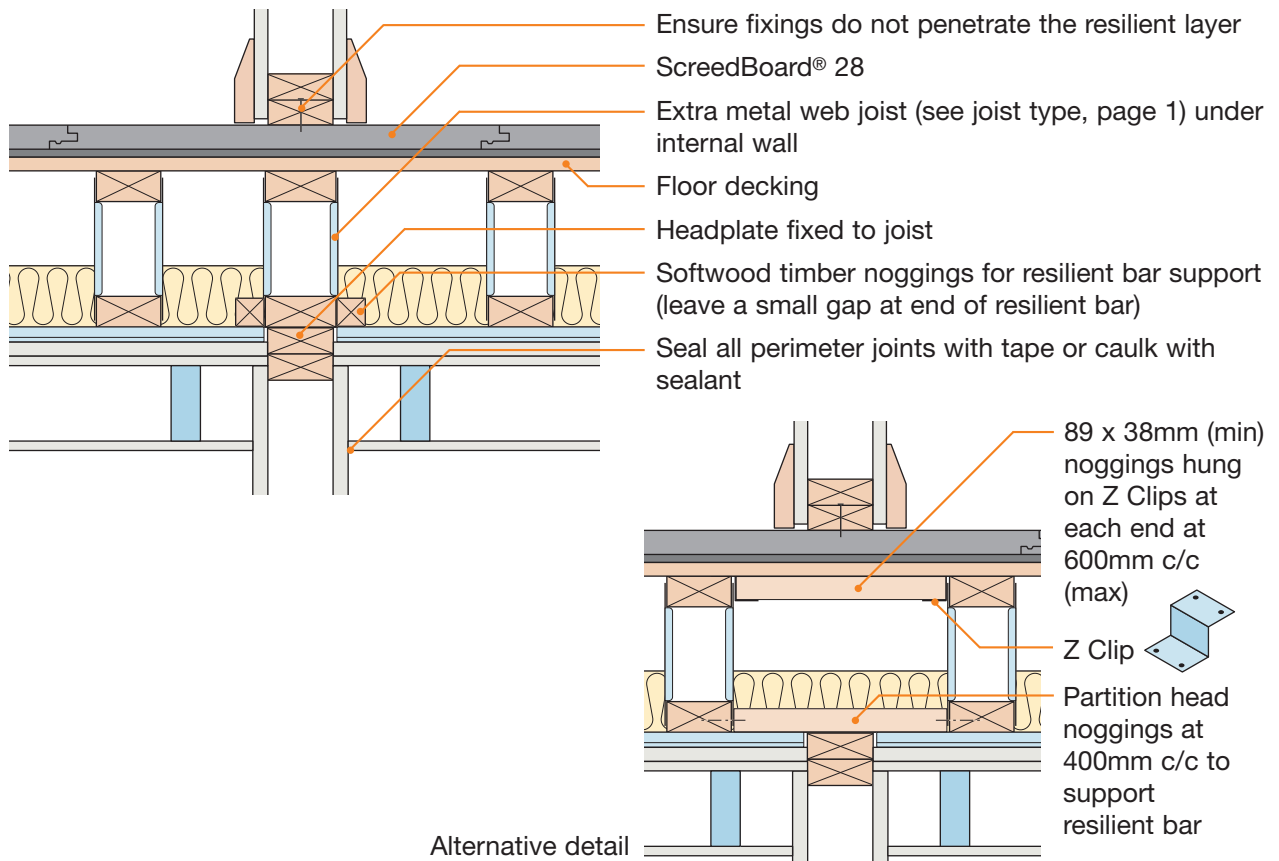
## 4. Separating wall junction (fully built-in)



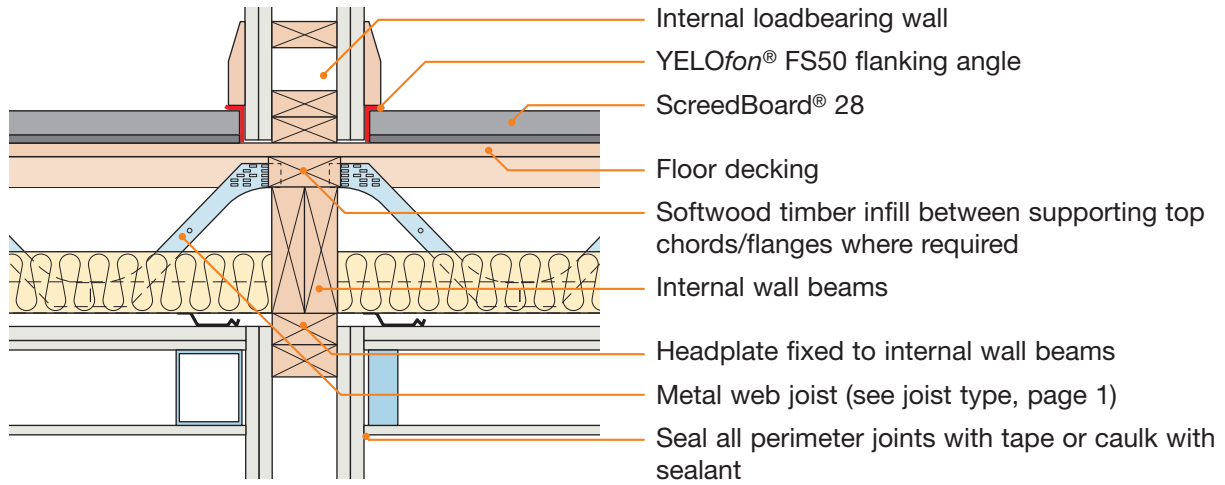
5. Non loadbearing internal wall perpendicular to joists



6. Non loadbearing internal wall parallel to joists



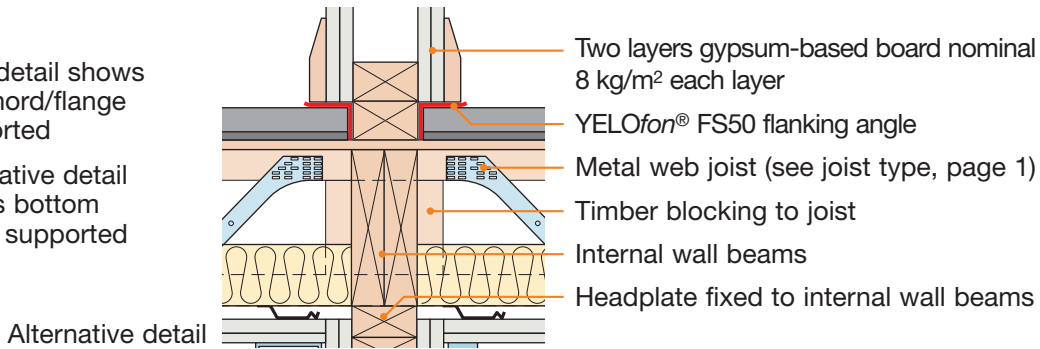
7. Loadbearing internal wall perpendicular to joists



Note:

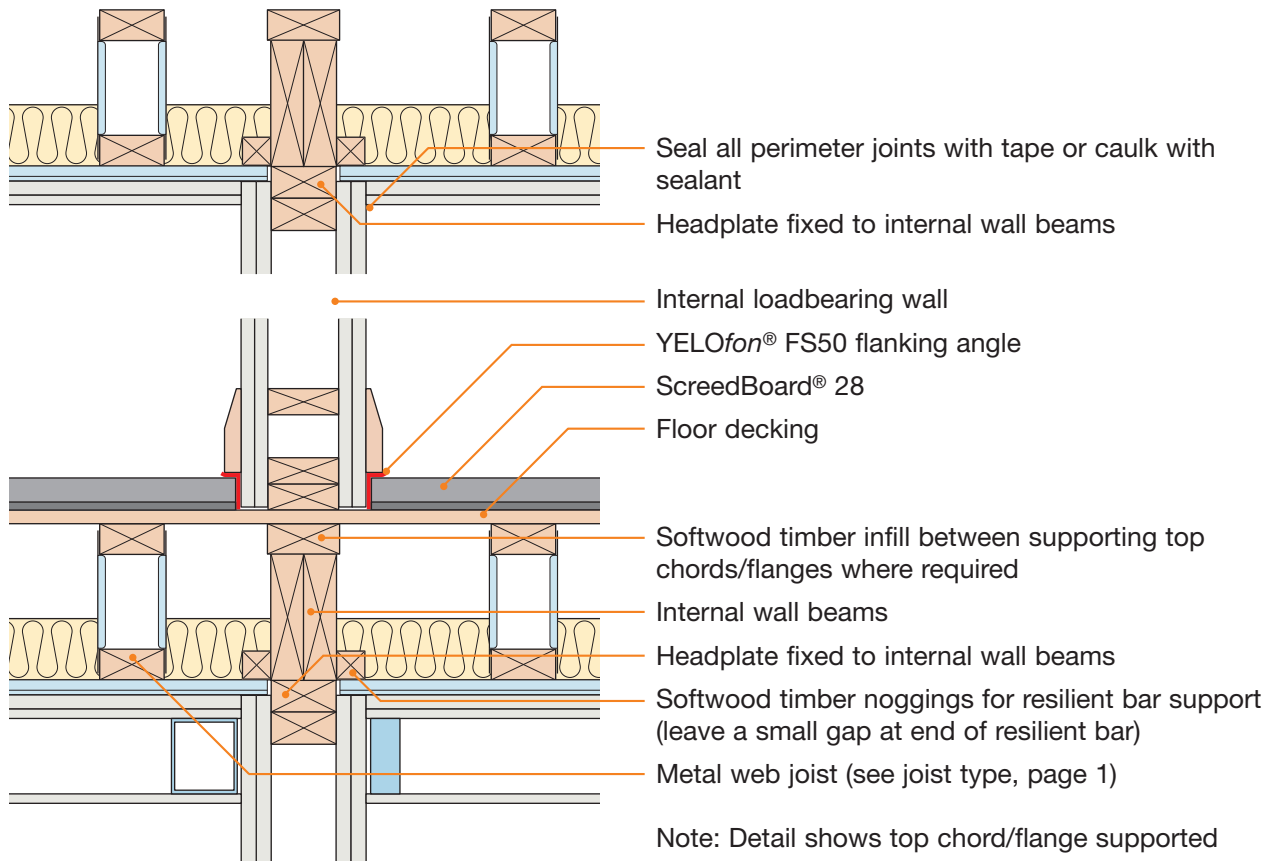
Main detail shows top chord/flange supported

Alternative detail shows bottom chord supported



Alternative detail

8. Loadbearing internal wall parallel to joists



Note: Detail shows top chord/flange supported

9. Ceiling treatment for E-FT-6

The maximum load on resilient bars should not exceed that specified in the manufacturer’s instructions.

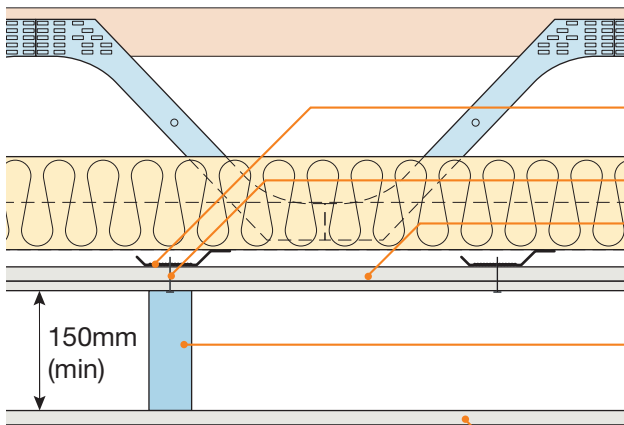
Ensure ceiling layers have staggered joints.

Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

**Downlighters and recessed lighting**

Downlighters or recessed lighting may be installed in the ceiling in accordance with the manufacturer’s instructions

Particular attention should also be paid to Building Regulations Part B - Fire Safety



Min 16mm resilient bars at 400mm centres, mounted at right angles to joists

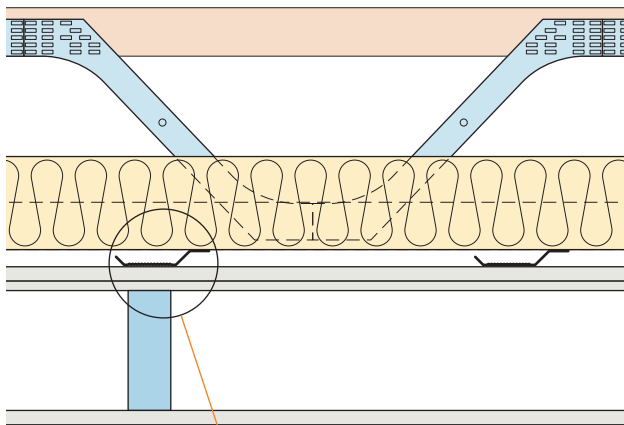
See detail CT1 or CT2 below

Two layers gypsum-based board. See detail CT1 or CT2 below

150mm (min) metal frame suspended service ceiling supported from resilient bars only according to manufacturer’s instructions. See Appendix A

12.5mm ceiling board (nominal 8 kg/m<sup>2</sup>)

\*Note - Ensure that there is no contact between screws and joists



**CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS**

**16mm (min) resilient bars with CT1 and CT2**

16mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of  $rd\Delta R_w + C_{tr} = 17dB$  and  $rd\Delta L_w = 16dB$ ) – see Appendix E

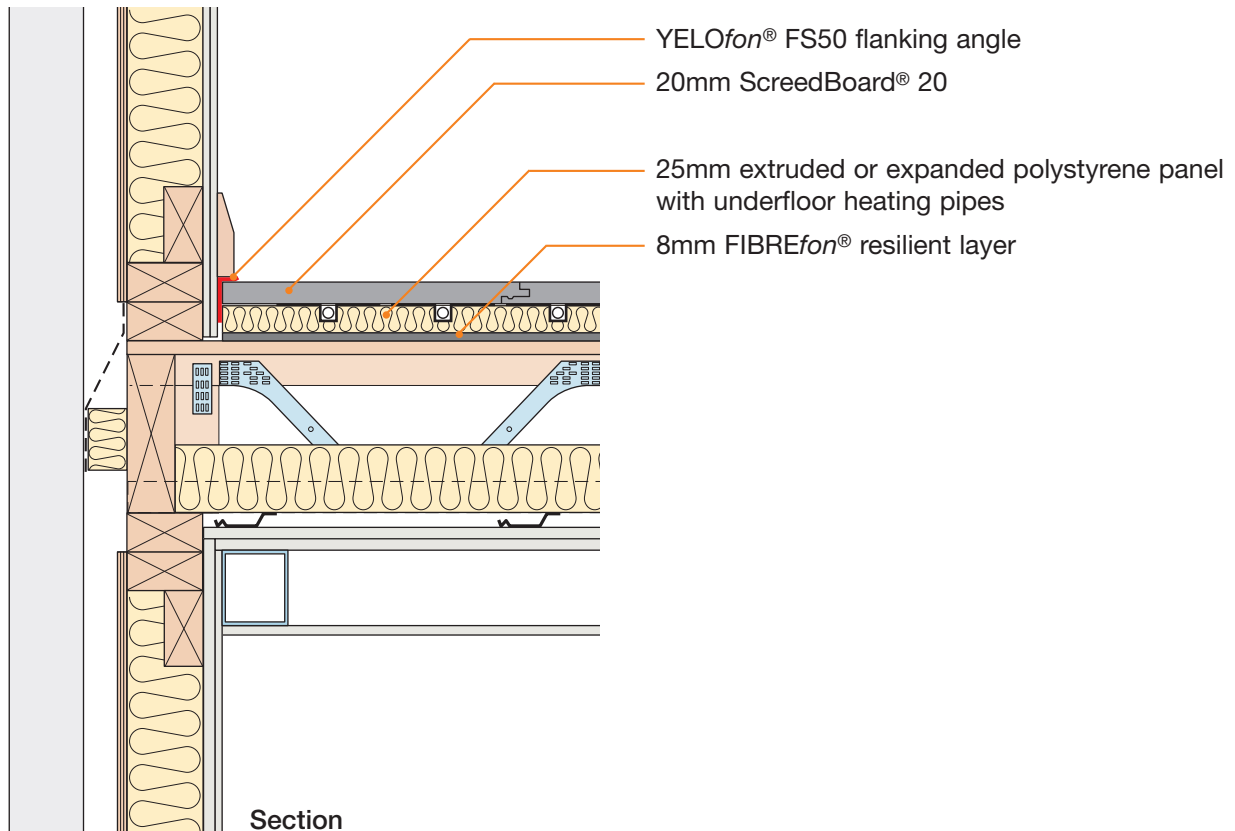
**Ceiling treatment CT1**

Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m<sup>2</sup>) fixed with 32mm screws, and 12.5mm (nominal 10 kg/m<sup>2</sup>) fixed with 42 mm screws

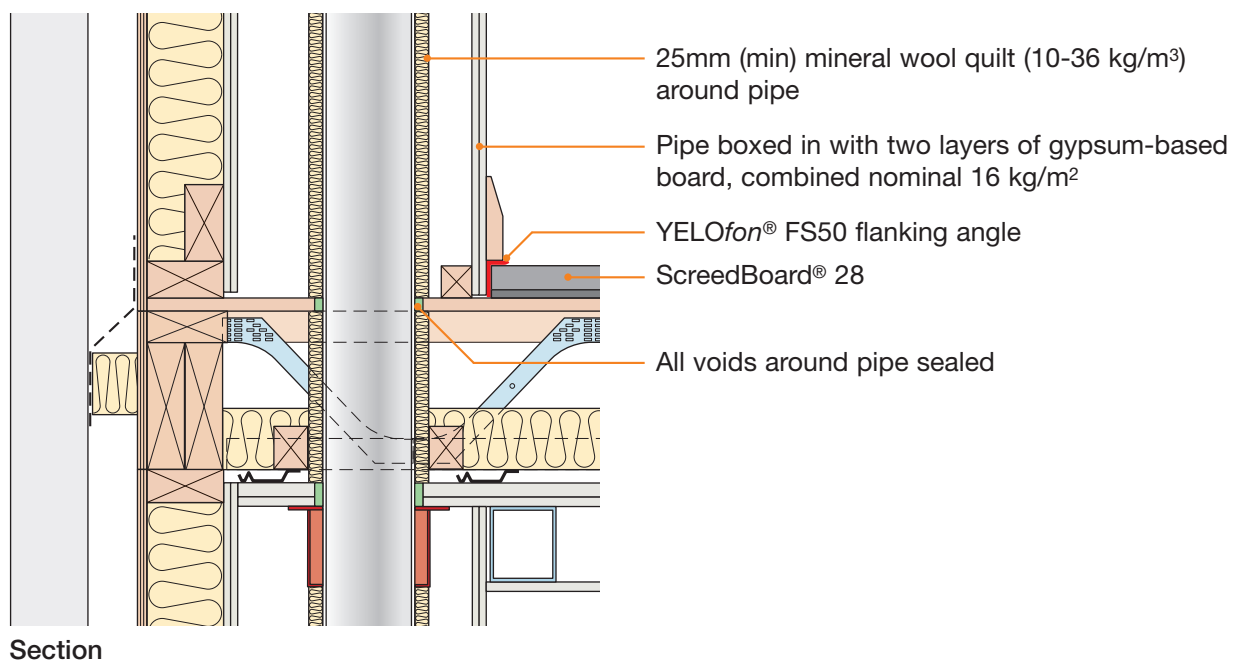
**Ceiling treatment CT2**

Two layers of gypsum-based boards composed of 15mm (nominal 12.5 kg/m<sup>2</sup>) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 12.5 kg/m<sup>2</sup>) fixed with 42mm screws

## 10. Underfloor heating systems below ScreedBoard®



## 11. Services – pipes through separating floor



Sketch shows top chord supported external (flanking) wall junction detail, for fully built-in arrangement see section 2



**CHECKLIST** (to be completed by site manager/supervisor)

Company: \_\_\_\_\_

Site: \_\_\_\_\_

Plot: \_\_\_\_\_ Site manager/supervisor: \_\_\_\_\_

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Are correct metal web joists being used (see page 1 of Robust Detail)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Which of the permitted metal web joist types are being used?	<input type="text"/>		
3.	Are joists at least 253mm deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Has quilt (min 100mm thick) been fitted between the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Are resilient ceiling bars fitted at right angles to the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Has ceiling system been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Is ceiling treatment fixed to the resilient bars with correct screws such that the screws do not touch or penetrate the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Are all joints to gypsum-based boards sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Is secondary ceiling void minimum 150mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Has the ScreedBoard® 28 floating floor treatment been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Where underfloor heating is used, is FIBREfon® 8 installed in addition to the ScreedBoard® 20?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	Are YELOfon® FS50 flanking angles installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
13.	Are vertical service pipes wrapped in quilt and boxed in with two layers of gypsum-based board combined nominal mass per unit area of 16 kg/m²?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
14.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

Contact details for technical assistance from *Collecta*®, manufacturer of ScreedBoard® 28 system:  
**Telephone: 08456 717174      Fax: 08456 717172      E-mail: technical@collecta.co.uk**

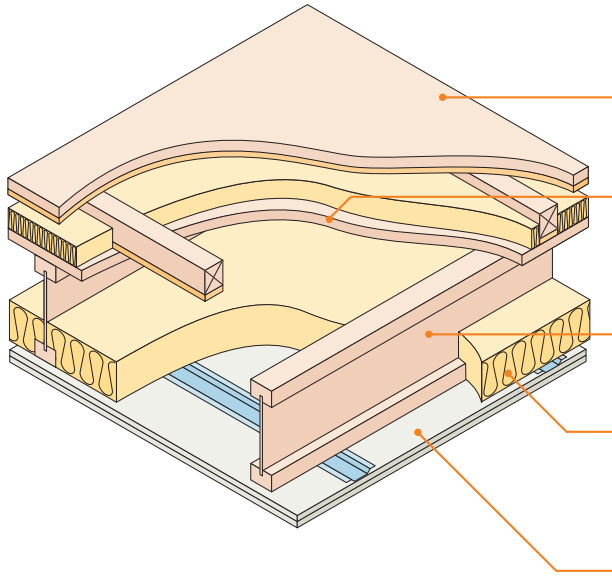
**Notes** (include details of any corrective action)

Site manager/supervisor signature .....

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 Warning: the doing of an unauthorised act in relation to a copyright work may result in both a civil claim for damages and criminal prosecution.



Timber I-Joists ■  
 Use with timber frame walls only ■



<b>Floating floor</b>	See page 5 for suitable floating floor treatment
<b>Floor decking</b>	15mm thick (min) wood based board, density 600 kg/m <sup>3</sup> (min)
<b>Joists</b>	240mm (min) timber I-Joists
<b>Absorbent material</b>	100mm (min) mineral wool quilt insulation (10–36 kg/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See page 4 for suitable ceiling treatment

**Note:** Structural framing details may vary slightly between different manufacturers and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

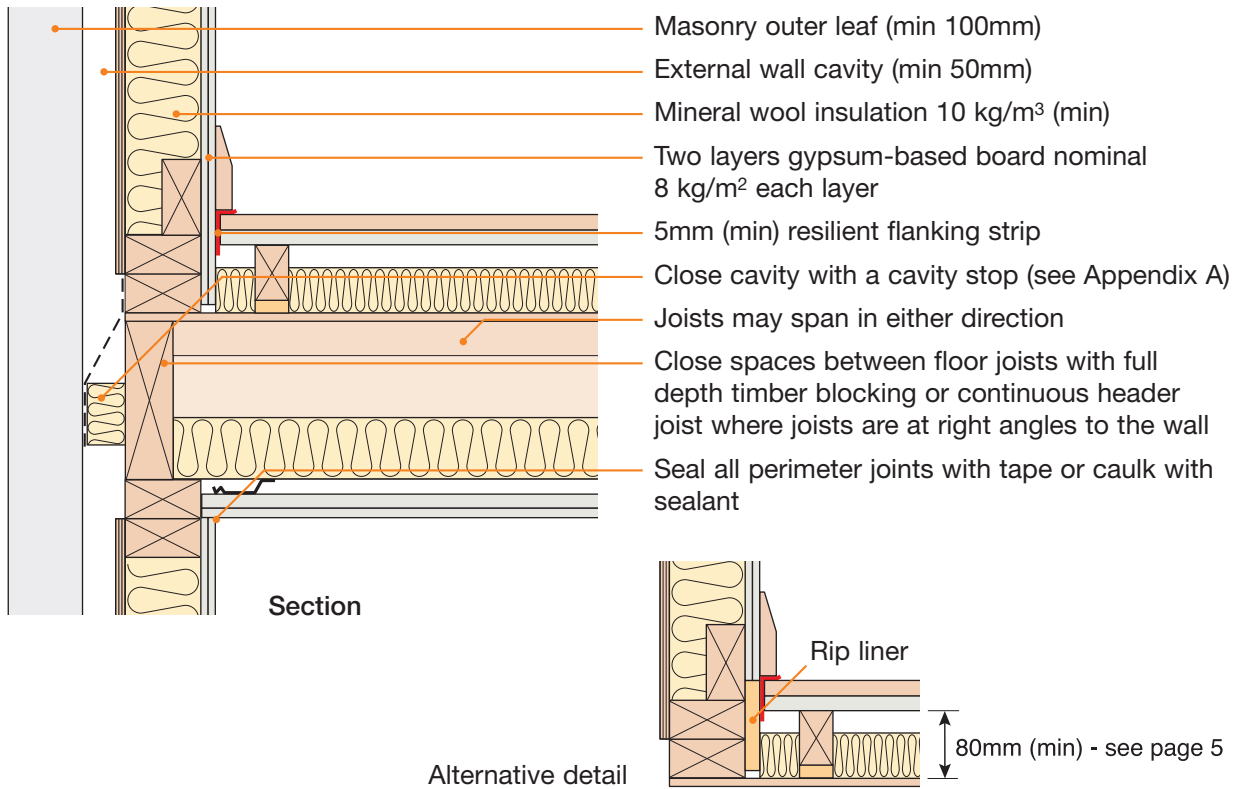
### FLOATING FLOOR

22mm t&g chipboard  
 19mm gypsum board  
 50mm (min) quilt  
 FFT80 resilient batten\*

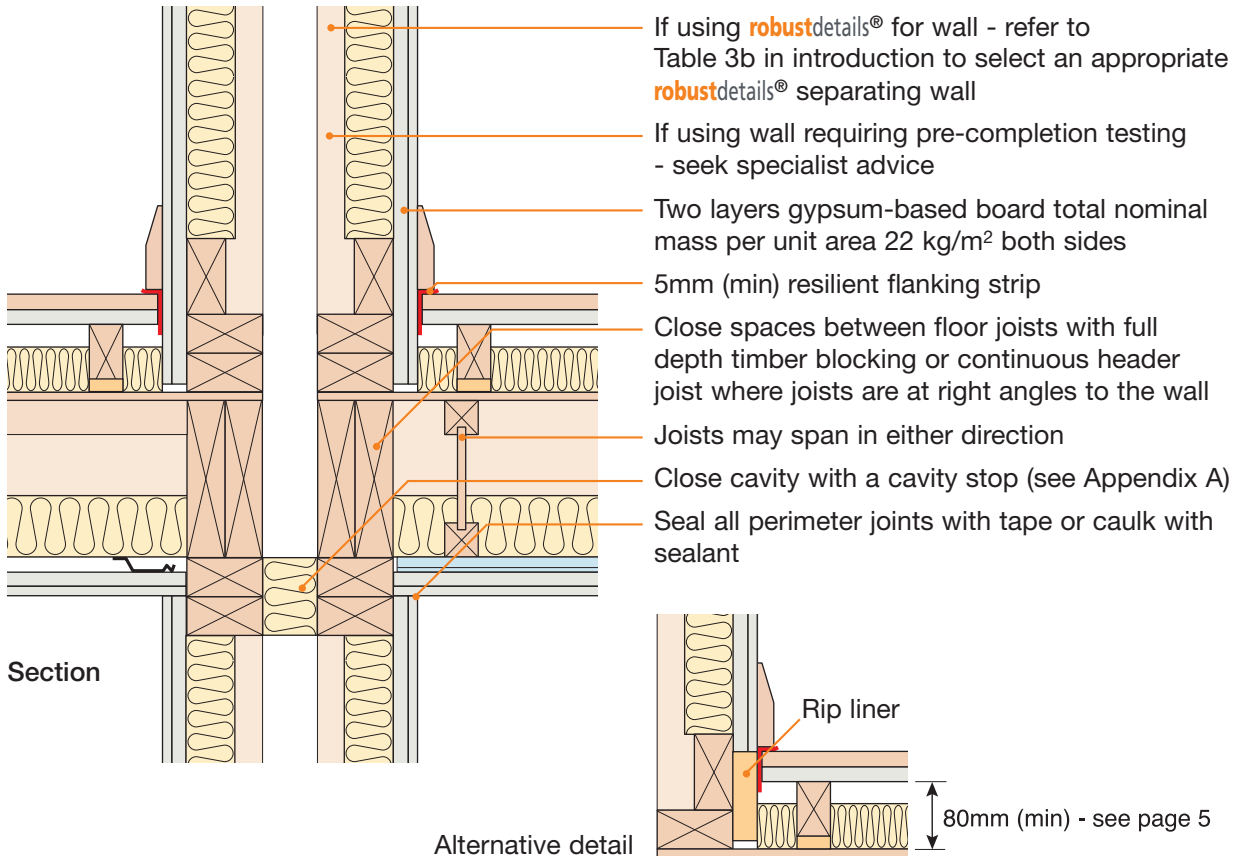
\* FFT80 resilient batten must comply with laboratory performance requirements detailed on page 5

- DO**
- Lay quilt (min 100mm thick) between all joists, including doubled up I-joists, ensuring no gaps remain
  - Ensure floating floor treatment is suitable and is installed in accordance with the manufacturer's instructions
  - Ensure quilt is laid between and not under flooring battens
  - Install flanking strips around the perimeter of the flooring board to isolate floor from walls and skirtings
  - Ensure resilient ceiling bars are fixed at right angles to the joists
  - Ensure timber floor ceiling treatment is CT1 and is fixed correctly (see page 4)
  - Stagger joints in ceiling layers
  - Refer to Appendix A

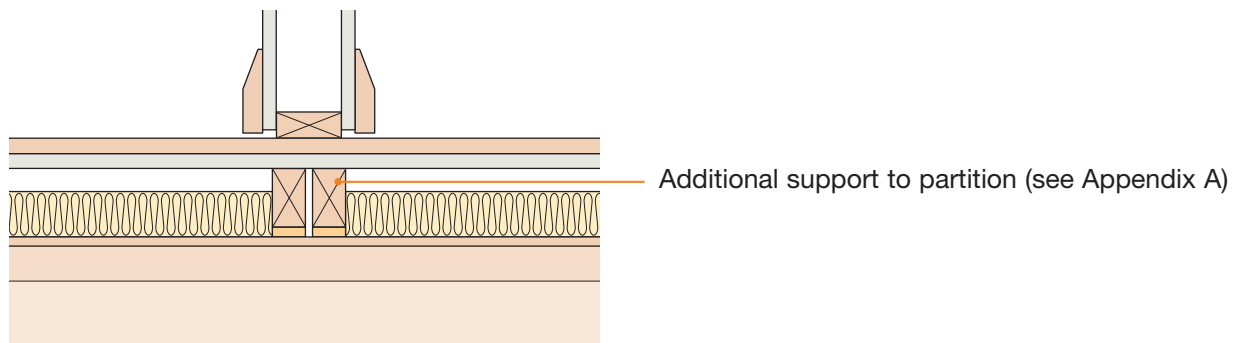
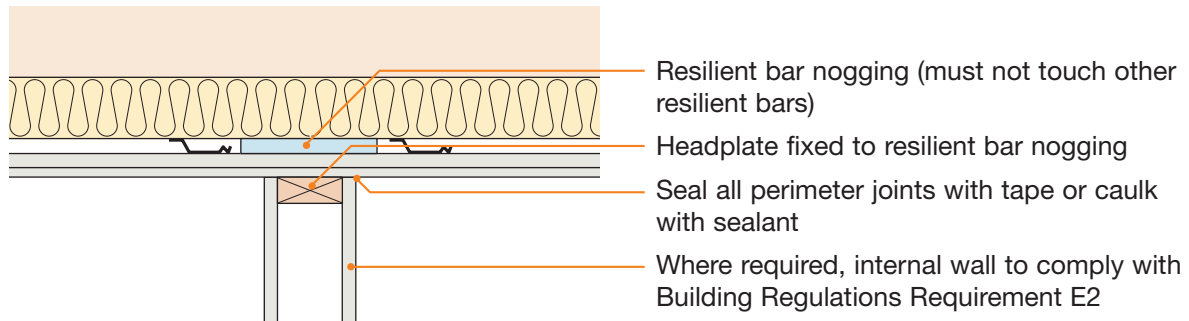
## 1. External (flanking) wall junction



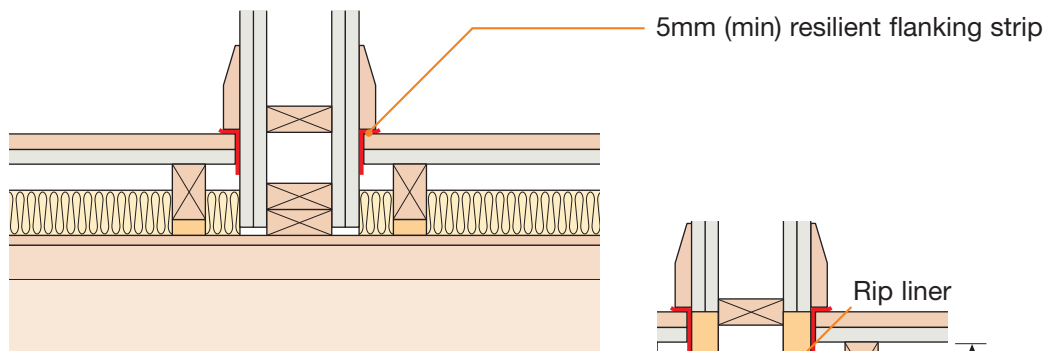
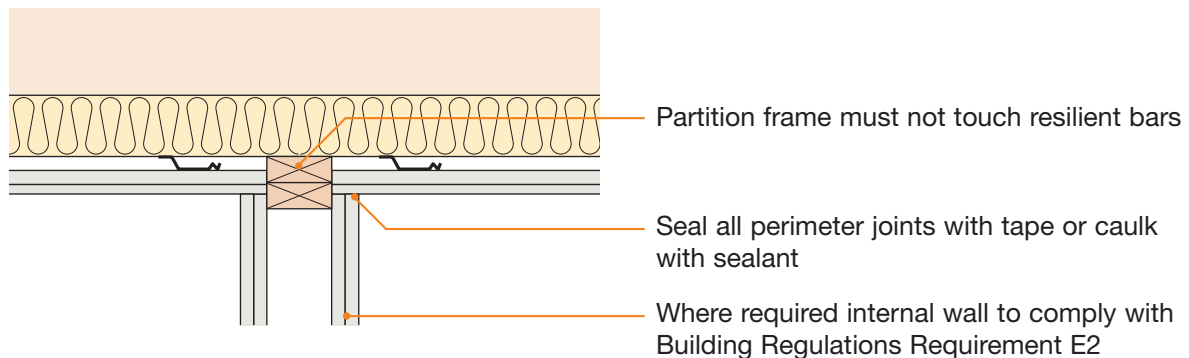
## 2. Separating wall junction



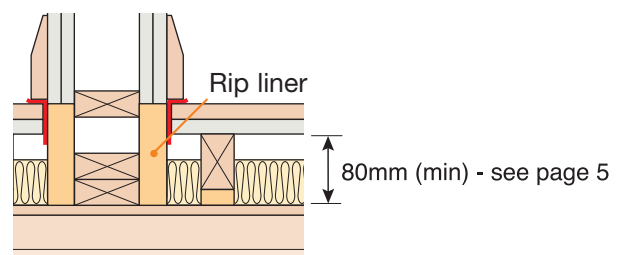
### 3. Internal wall junction (non loadbearing)



### 4. Internal wall junction (loadbearing)



Alternative detail



## 5. Ceiling treatment for E-FT-7

Timber floor ceiling treatment must be CT1, (see below). All joints to outer layers of ceiling must be sealed with tape or caulked with sealant.

The maximum load on resilient bars should not exceed that specified in the manufacturer's instructions.

Ensure ceiling layers have staggered joints.

Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

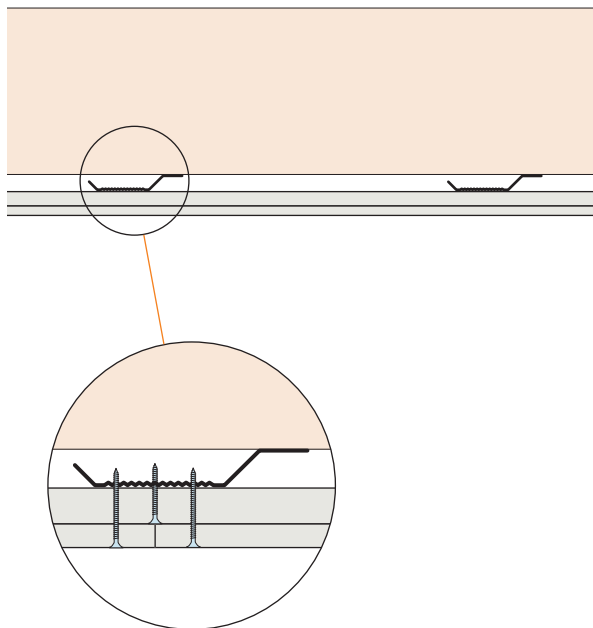
### Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer's instructions
- at no more than one light per 2m<sup>2</sup> of ceiling area in each room unless the use of a greater density of light fittings is supported by testing undertaken in accordance with Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety

**Note: Only downlighters which have been satisfactorily assessed in accordance with the procedure described in Appendix F "Determination of the acoustic performance of downlighters and recessed lighting in timber separating floors" are acceptable.**



### CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS

#### 16mm (min) resilient bars with CT1

16mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of  $rd\Delta R_w + C_{tr} = 17\text{dB}$ ,  $rd\Delta R_w = 18\text{dB}$  and  $rd\Delta L_w = 16\text{dB}$ ) – see Appendix E

#### Ceiling treatment CT1

Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m<sup>2</sup>) fixed with 32mm screws, and 12.5mm (nominal 10 kg/m<sup>2</sup>) fixed with 42 mm screws

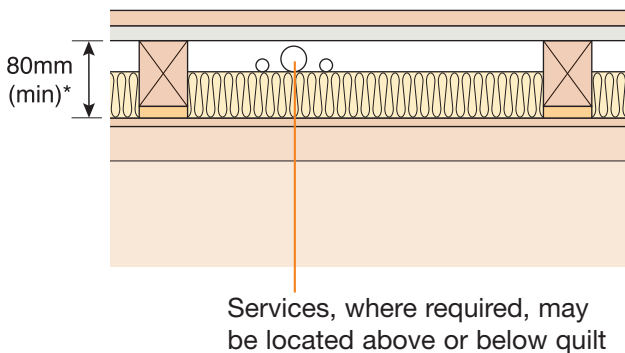
## 6. Floating floor treatment for E-FT-7

Floating floor treatment:

- Must achieve a minimum laboratory performance of  $rd\Delta R_w + C_{tr} = 13\text{dB}$ ,  $rd\Delta R_w = 17\text{dB}$  and  $rd\Delta L_w = 16\text{dB}$  - see Appendix C.
- Must be installed in accordance with the manufacturer's instructions.
- Require 5mm (min) resilient flanking strips around the perimeter of the flooring board to isolate floor from walls and skirting.

- For further guidance on floating floor treatments and flanking strips, please refer to Appendix A.

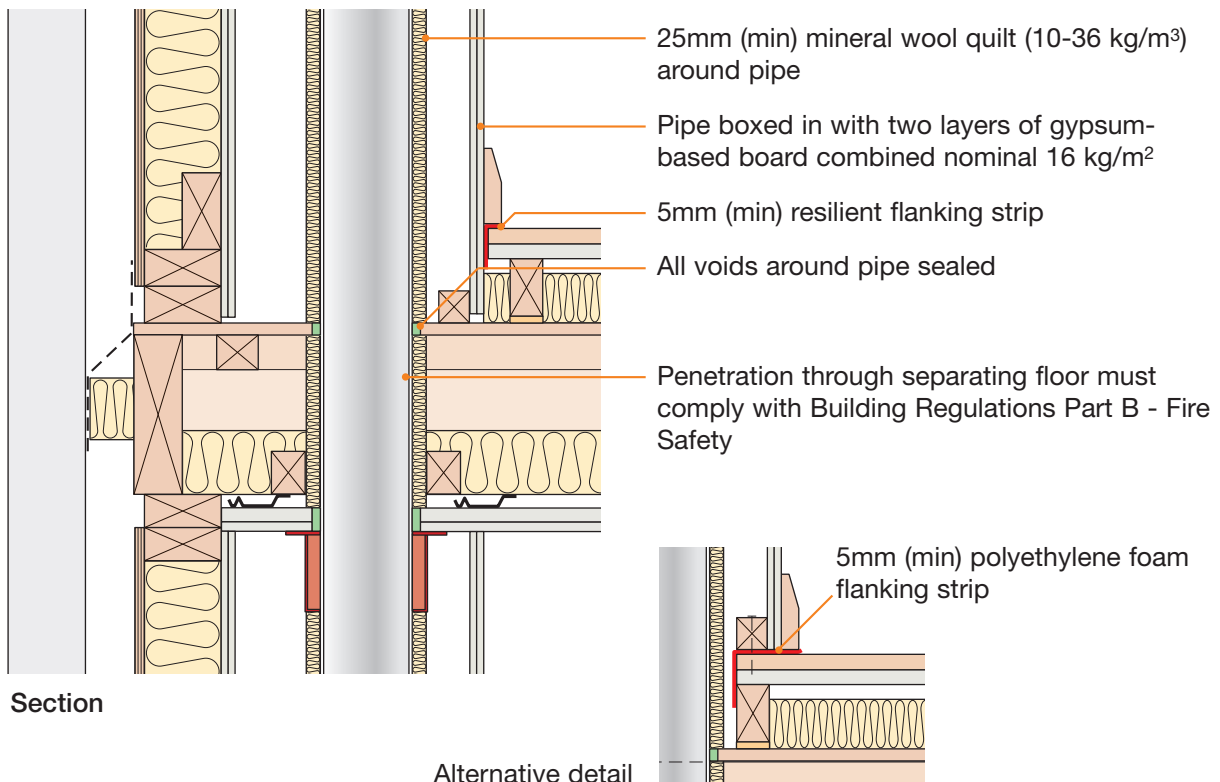
\* **Note - 80mm void dimension indicated is when floor is loaded to 25 kg/m<sup>2</sup>.**



### FFT80 – Resilient composite deep batten system for E-FT-7

- 22mm (min) t&g flooring board - 600 kg/m<sup>3</sup> (min)
- gypsum-based board nominal 13.5 kg/m<sup>2</sup>
- FFT80 resilient composite deep battens
- resilient layer must be continuous and pre-bonded to batten
- battens may have the resilient layer at the top or the bottom
- mineral wool quilt laid between battens – 50mm (min) 10-36 kg/m<sup>3</sup>
- ensure any services do not bridge the resilient layer

## 7. Services – pipes through separating floor



**CHECKLIST** (to be completed by site manager/supervisor)

Company: \_\_\_\_\_

Site: \_\_\_\_\_

Plot: \_\_\_\_\_ Site manager/supervisor: \_\_\_\_\_

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Are timber I-Joists at least 240mm deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Are resilient ceiling bars fitted at right angles to the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Has quilt (min 100mm thick) been fitted between the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Has floating floor treatment FFT80 been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Has quilt been fitted between the floor battens?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Has the ceiling system been fitted in accordance with the manufacturer's instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Is the ceiling treatment CT1, fixed to the resilient bars with correct screws, such that the screws do not touch or penetrate the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Are all joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Are vertical service pipes wrapped in quilt and boxed in with two layers of gypsum-based board combined nominal mass per unit area of 16 kg/m <sup>2</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Have all resilient flanking strips been fitted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

**Notes** (include details of any corrective action)

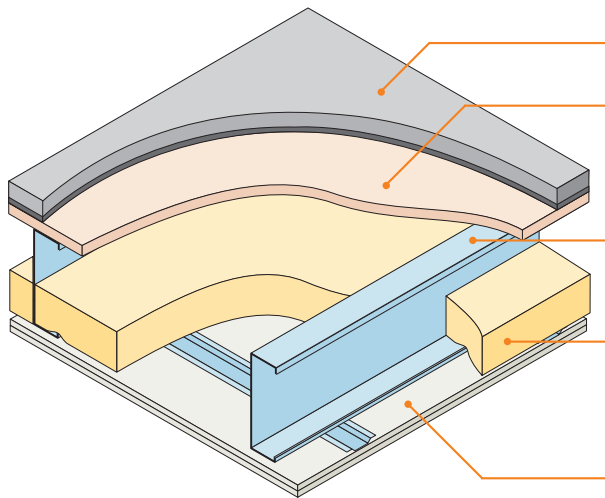
Site manager/supervisor signature .....

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- Collecta ScreedBoard® 28 on timber sub-floor
- Use with lightweight metal frame walls only

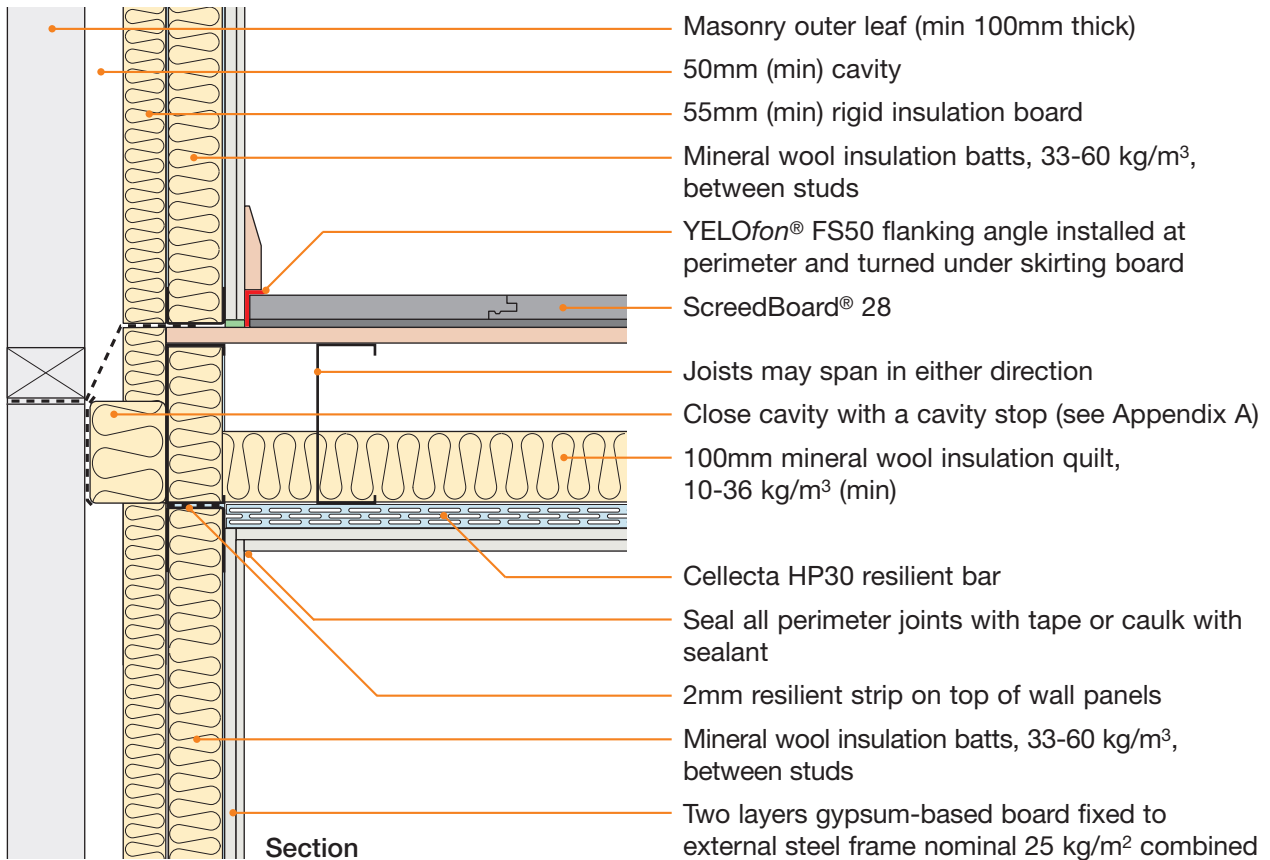


<b>Floating floor</b>	Cellecta ScreedBoard® 28
<b>Floor decking</b>	18mm thick (min) wood based board, density 600 kg/m <sup>3</sup> (min)
<b>Joists</b>	254mm (min) deep metal joists
<b>Absorbent material</b>	100mm (min) mineral wool quilt insulation (10-36 kg/m <sup>3</sup> ) between joists
<b>Ceiling</b>	See section 4 for suitable ceiling treatment

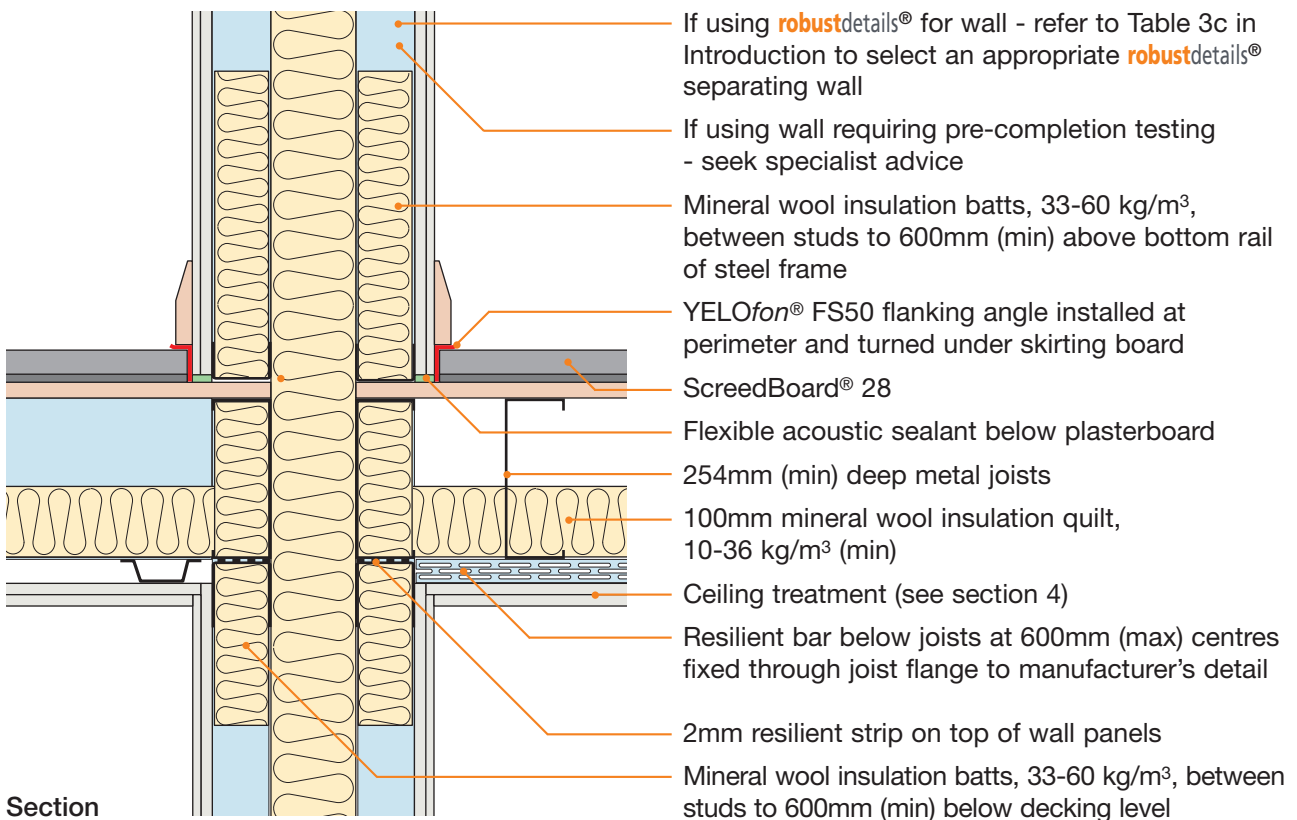
## DO

- Lay quilt (min 100mm thick) between all joists, including doubled up joists, ensuring no gaps remain
- Apply Collecta SB adhesive to all ScreedBoard® 28 decking joints
- Install YELOfon® FS50 flanking angle around the perimeter of the ScreedBoard® 28 to isolate floor from walls and skirtings
- Ensure resilient ceiling bars are fixed at right angles to the joists
- Ensure ceiling treatment is fixed correctly (see section 4)
- Stagger joints in ceiling layers
- Refer to Appendix A

## 1. External (flanking) wall junction – masonry outer leaf

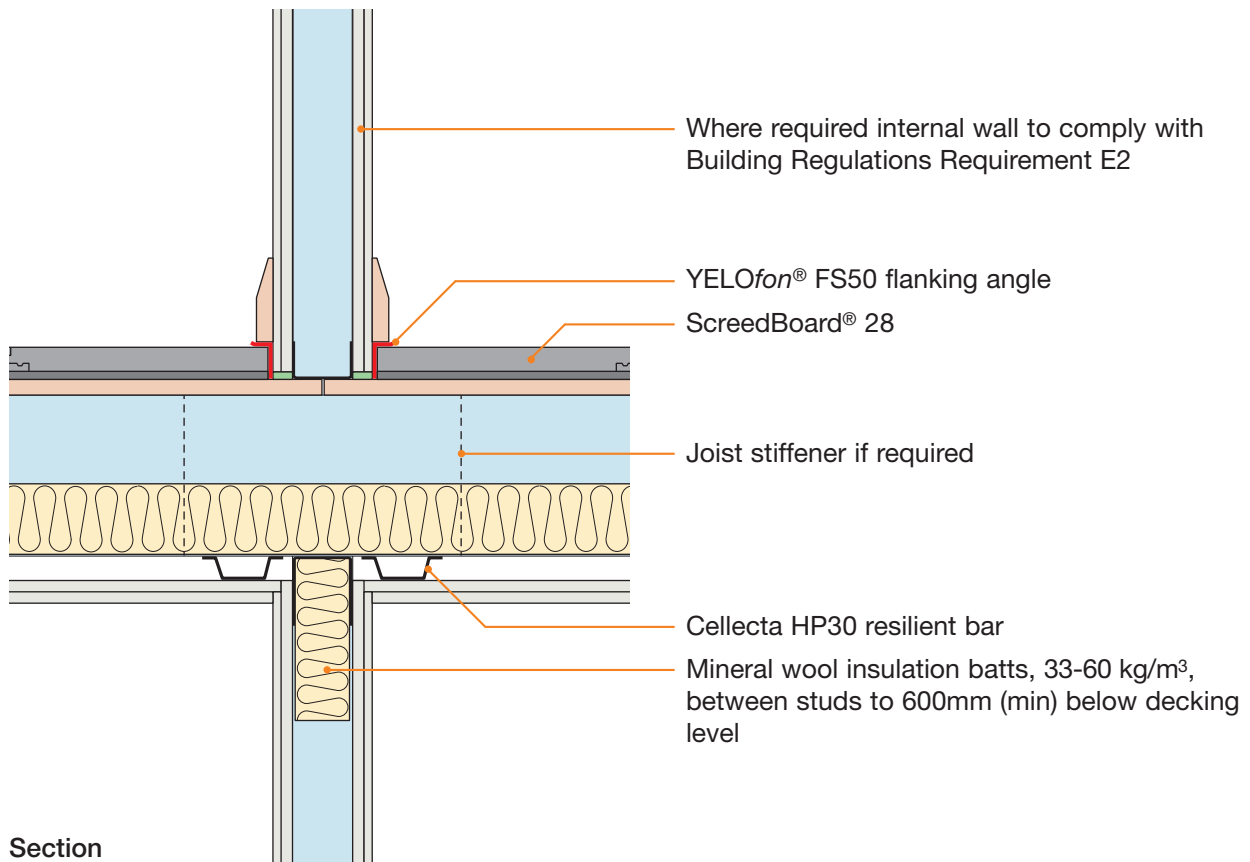


## 2. Separating wall junction





## 3. Internal wall junction



## 4. Ceiling treatment for E-FS-3

Metal floor ceiling treatment must be as shown below. All joints to outer layers of ceiling must be sealed with tape or caulked with sealant.

The maximum load on resilient bars should not exceed 50 kg/m<sup>2</sup>.

Ensure ceiling layers have staggered joints.

Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

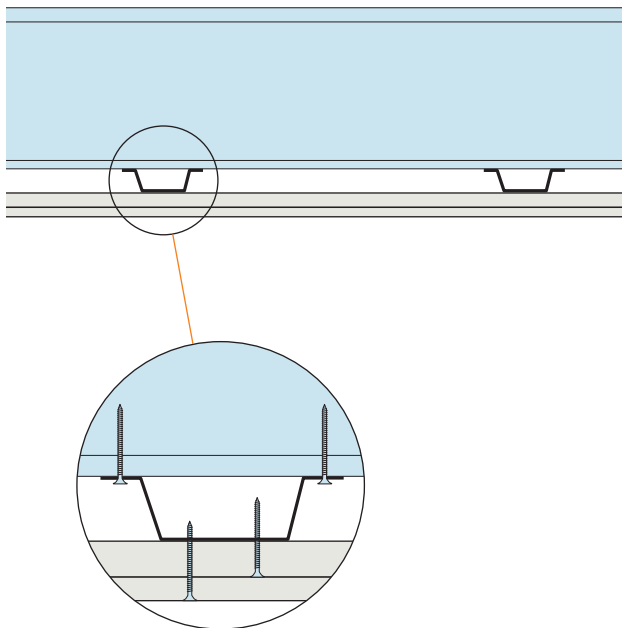
### Downlighters and recessed lighting

Downlighters or recessed lighting may be installed in the ceiling:

- in accordance with the manufacturer’s instructions
- at no more than one light per 2m<sup>2</sup> of ceiling area in each room unless the use of a greater density of light fittings is supported by testing undertaken in accordance with Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

Particular attention should also be paid to Building Regulations Part B - Fire Safety

**Note: Only downlighters which have been satisfactorily assessed in accordance with the procedure described in Appendix F “*Determination of the acoustic performance of downlighters and recessed lighting in lightweight separating floors*” are acceptable.**



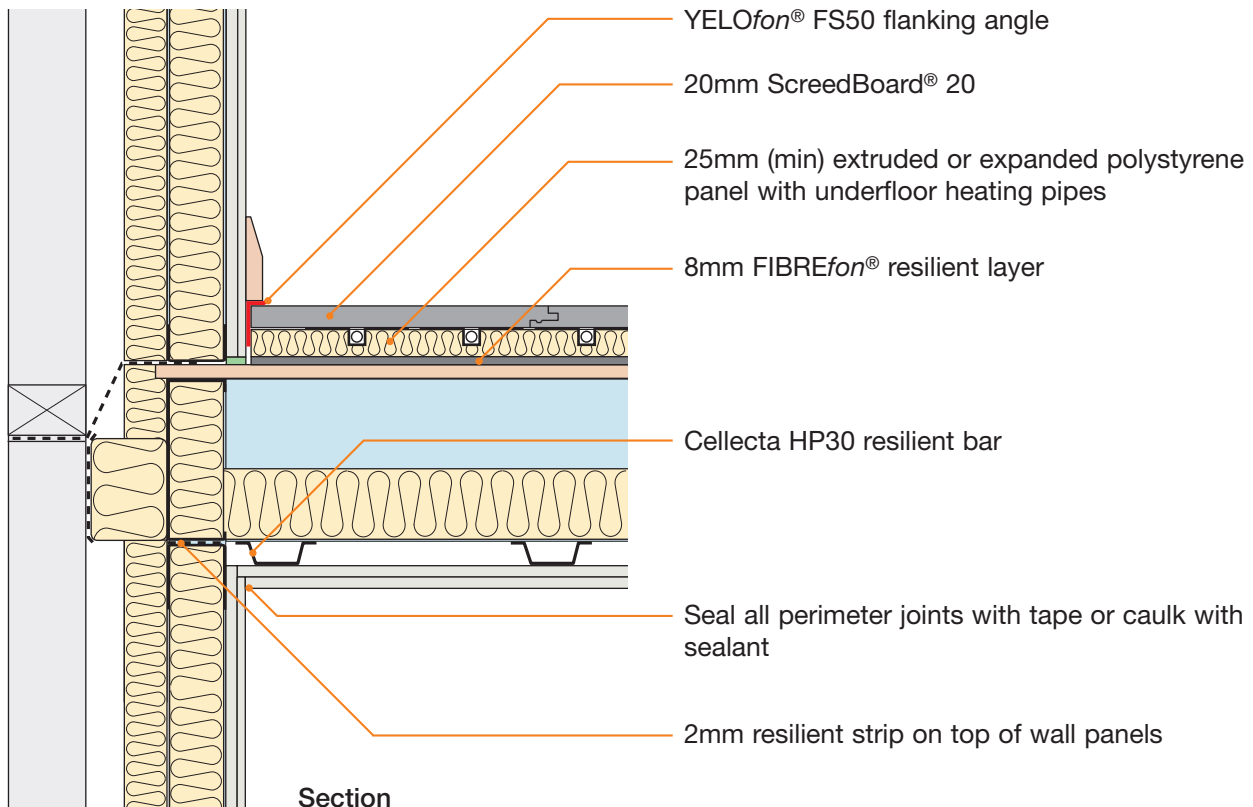
### CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS

**Collecta HP30** 30mm deep metal resilient bar fixed perpendicular to floor joists at 600mm (max) centres

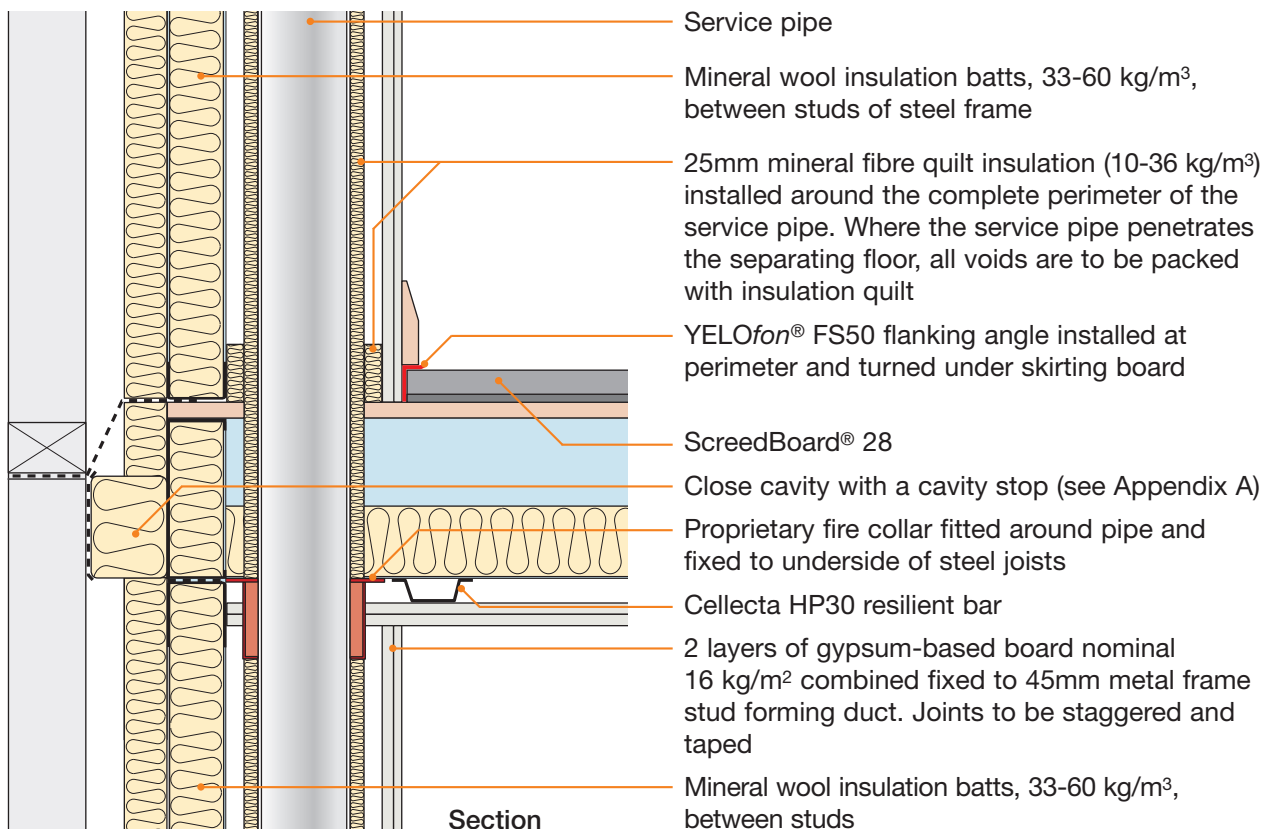
### Ceiling treatment CT1

Two layers of gypsum-based boards composed of 15mm (nominal 12.5 kg/m<sup>2</sup>) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 12.5 kg/m<sup>2</sup>) fixed with 42mm screws

## 5. Underfloor heating systems below ScreedBoard®



## 6. Services – pipes through separating floor



## CHECKLIST (to be completed by site manager/supervisor)

Company: \_\_\_\_\_

Site: \_\_\_\_\_

Plot: \_\_\_\_\_ Site manager/supervisor: \_\_\_\_\_

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Are metal joists minimum 254mm deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
2.	Is sub-deck minimum 18mm, 600 kg/m <sup>3</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
3.	Are YELOfon® FS50 flanking angles installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
4.	Has the ScreedBoard® 28 floating floor treatment been fitted in accordance with the manufacturer’s instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
5.	Where underfloor heating is used, is FIBREfon® 8 installed in addition to the ScreedBoard® 20?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
6.	Are Collecta HP30 30mm deep metal resilient ceiling bars fitted at right angles to the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
7.	Has quilt (min 100mm thick) been fitted between the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
8.	Has ceiling system been fitted in accordance with the manufacturer’s instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
9.	Are the ceiling treatments fixed to the resilient bars with correct screws, such that the screws do not touch or penetrate the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
10.	Are all joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
11.	Are vertical service pipes wrapped in quilt and boxed in with two layers of gypsum-based board combined nominal mass per unit area of 16 kg/m <sup>2</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
12.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>

Contact details for technical assistance from Collecta, manufacturer of ScreedBoard® 28 system:  
**Telephone: 08456 717174      Fax: 08456 717172      E-mail: technical@collecta.co.uk**

**Notes** (include details of any corrective action)

Site manager/supervisor signature .....

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