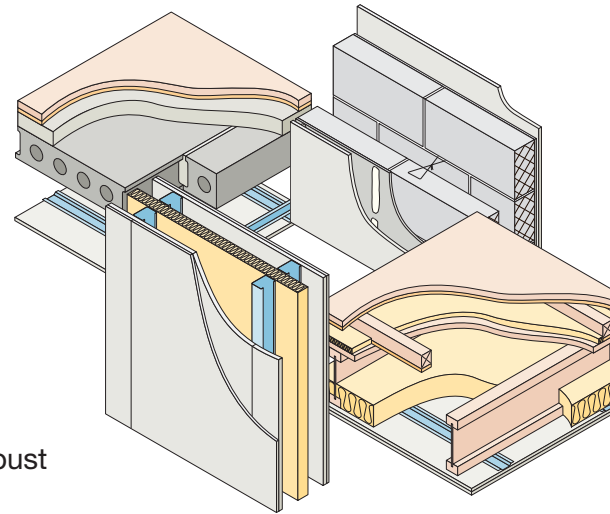


## January 2016 Update Pack



Dear Colleague,

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

We hope you had a very enjoyable Christmas, and we wish you Happy New Year.

This first update pack of 2016 includes a new floor, and this is now available for registration.

Collecta's E-FC-17 is based on precast concrete planks, and is for use in loadbearing masonry construction. The ULTRA ceiling system, using components from Collecta, has provided the enhanced performance needed for this floor to achieve 3 credits in the Code for Sustainable Homes.

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

1. Remove and replace all pages of the Introduction.
2. Remove and replace just the last leaf (pages 5 & 6) of E-FC-5.
3. Insert all pages of the new E-FC-17 Detail at the end of the Separating Floors - Concrete section.
4. Remove and replace just the last leaf (pages 5 & 6) of E-FT-5.
5. Remove and replace just the last leaf (pages 7 & 8) of E-FT-6.
6. Remove and replace just the first leaf (pages 1 & 2) of Appendix A2.

Yours sincerely

A handwritten signature in black ink, appearing to read 'John Tebbit', written over a light blue horizontal line.

**John Tebbit**

Managing Director,  
Robust Details Limited





# Changes to the fourth edition following January 2016 update

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Section Page Amendment

## Introduction

Table 2	5	New Robust Detail E-FC-17 added to the table.
Table 3a	6	New Robust Detail E-FC-17 added to the table, with the appropriate wall combinations.
Table 5	8	New Robust Detail E-FC-17 added to the table, with the appropriate note.
Table 6b	11	New Robust Detail E-FC-17 added to the table, with the relevant flanking options.
Table 7	12	New Robust Detail E-FC-17 added to the table, with the appropriate products.

## Separating Floor – Concrete

### E-FC-5

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Contact details	6	Phone and fax numbers updated.
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### E-FC-17

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All	1-6	New Robust Detail added – Collecta YELOfon® HD10+ system and floating screed, and Collecta ULTRA ceiling treatment.
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## Separating Floor – Timber

### E-FT-5

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Contact details	6	Phone and fax numbers updated.
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### E-FT-6

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All	8	Phone and fax numbers updated.
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## Appendix A2

Item a	2	Description amended to include reference to Table 6a in the Introduction.
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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:

Please refer to [www.robustdetails.com](http://www.robustdetails.com) for full 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 Cellecta 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-FC-17	precast concrete plank and Cellecta YELOfon® HD10+ system and floating screed and Cellecta ULTRA ceiling treatment
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-11 E-FC-12 E-FC-13	E-FC-14 E-FC-15 E-FC-16 E-FC-17	E-FC-4	E-FC-5	E-FC-6 E-FC-7	E-FC-8 E-FC-9 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**<sup>®</sup> loadbearing masonry walls and floors with **robustdetails**<sup>®</sup> 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**<sup>®</sup> separating wall;
- the external (flanking) wall construction above the separating floor meets the requirements on page 2 of the relevant **robustdetails**<sup>®</sup> 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**<sup>®</sup> 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-17	W1
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

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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					✓	
	E-FC-17					✓	
	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

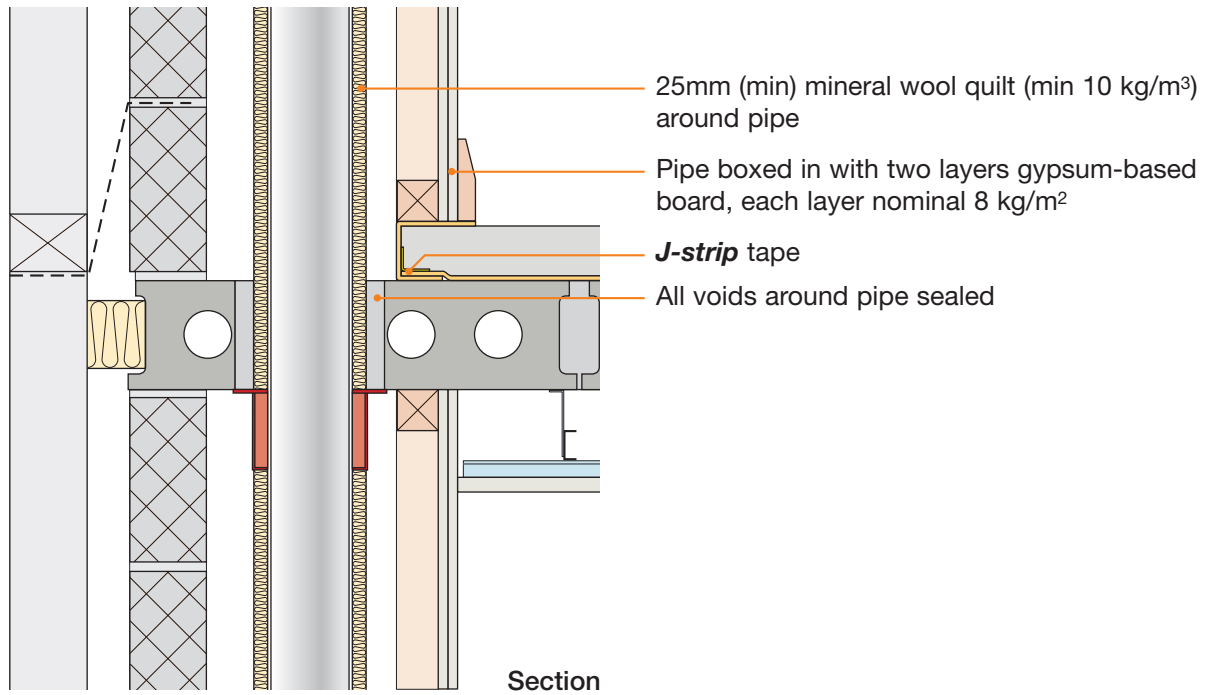
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Table 7 – Robust Detail separating floors which can be used together with alternative products contained in Appendix A3

		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		
	E-FC-17		
	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		



## 6. Services – Service pipes through separating floor



Sketch shows CT0 type ceiling treatment

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

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

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

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

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Has training been received from <i>Collecta</i> ®?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
2.	Are precast concrete planks 150mm (min) thick and of mass per unit area 300 kg/m <sup>2</sup> (min)?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
3.	Are inner leaves to external (flanking) walls of the correct block density and appropriate for precast concrete plank thickness and ceiling treatment?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
4.	Are joints between precast concrete planks grouted and sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
5.	Are precast concrete planks built into the masonry walls?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
6.	Is the <b>E-strip</b> perimeter edging installed around all room perimeter walls (including door openings, cupboards, across thresholds and into wall recesses) and service pipes and joints sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
7.	Are <b>YELOfon</b> ® HD10+ resilient layer joints formed as described in Section 4 and sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
8.	Is <b>YELOfon</b> ® HD10+ resilient layer overlapping the <b>E-strip</b> perimeter edging and joints sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
9.	Are the skirting boards isolated from the screed by the <b>E-strip</b> perimeter edging?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
10.	Is appropriate ceiling treatment used to suit wall block type?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
11.	Are all ceiling board joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
12.	Are service pipes wrapped in quilt and boxed in with two layers of nominal 8 kg/m <sup>2</sup> gypsum-based board?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>
13.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input style="width: 100%;" type="text"/>

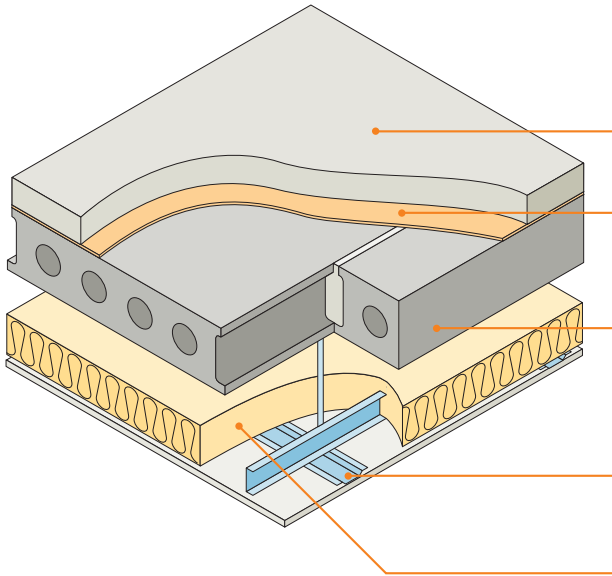
Contact details for technical assistance from *Collecta*®, manufacturer of **YELOfon**® HD10+ resilient layer system:  
**Telephone: 01634 717174      Fax: 01634 717172      E-mail: [technical@collecta.co.uk](mailto:technical@collecta.co.uk)**

**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.

- Precast concrete plank ■
- Screed laid on *Collecta*® *YELOfon*® HD10+ resilient layer system ■
- Collecta*® ULTRA ceiling treatment ■



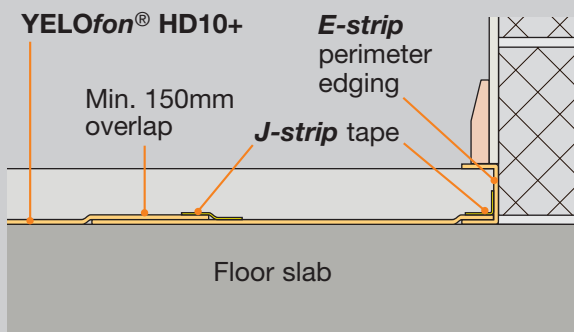
Sketch shows CT0 type ceiling treatment

<b>Screed</b>	65mm (min) cement:sand screed
<b>Resilient layer</b>	<b>YELOfon</b> ® HD10+ with <i>E-strip</i> perimeter edging and <i>J-strip</i> tape for jointing
<b>Structural floor</b>	Precast concrete plank of 150mm (min) thickness and 300 kg/m <sup>2</sup> (min) mass per unit area
<b>Ceiling</b>	See section 3 for suitable ceiling treatment
<b>Absorbent material</b>	50mm (min) <b>FIBREfon</b> ® <b>MICRO 50</b> or 100mm (min) mineral wool, 10 kg/m <sup>3</sup> (min)

## SYSTEM INSTALLATION:

The use of this screed resilient layer system **must** incorporate all three products:

- 1) **YELOfon**® HD10+ (resilient layer to be laid over entire floor area with min. 150mm overlaps)
- 2) **E-strip** (self adhesive perimeter edging)
- 3) **J-strip** (foamed acoustic joining tape)



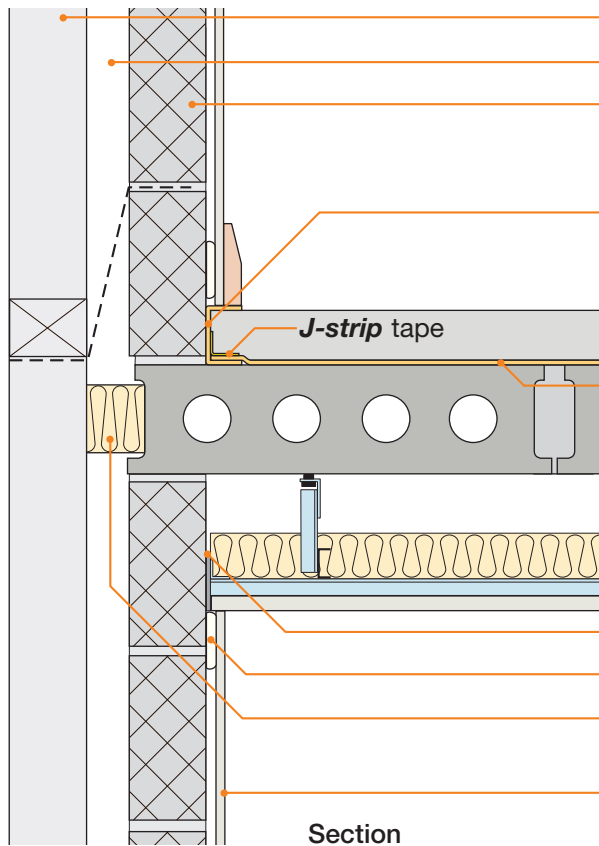
- **E-strip** perimeter edging to be installed at all room perimeters. See manufacturer's guidance.
- **YELOfon**® HD10+ may also be foil faced.

Robust Details Limited can only accept registration of this floor once the builder agrees to receive training from *Collecta*® on the installation of the screed and resilient layer. Please contact Robust Details Limited for further information.

## DO

- Butt planks tightly together
- Grout all joints between planks
- Fill all voids between walls and floor
- Ensure **YELOfon**® HD10+ resilient layer is laid over the entire floor surface and has overlapped joints of 150mm sealed with **J-strip** tape. On no account should the screed come into contact with the floor slab (See section 4 when using proprietary screeds)
- Ensure **YELOfon**® HD10+ overlaps the **E-strip** perimeter edging and joints are sealed with **J-strip** tape. On no account should screed come into contact with floor slab or perimeter walls
- Ensure the **E-strip** perimeter edging isolates the skirting and wall linings. On no account should screed come into contact with the wall lining and skirting
- Ensure that only the correct blocks are used in the construction of external (flanking) walls, unless specifically referred to in the Handbook all blocks should be assumed to be solid (i.e. not hollow or cellular)
- Make sure ceiling treatment is installed in accordance with the manufacturer's instructions (where applicable)

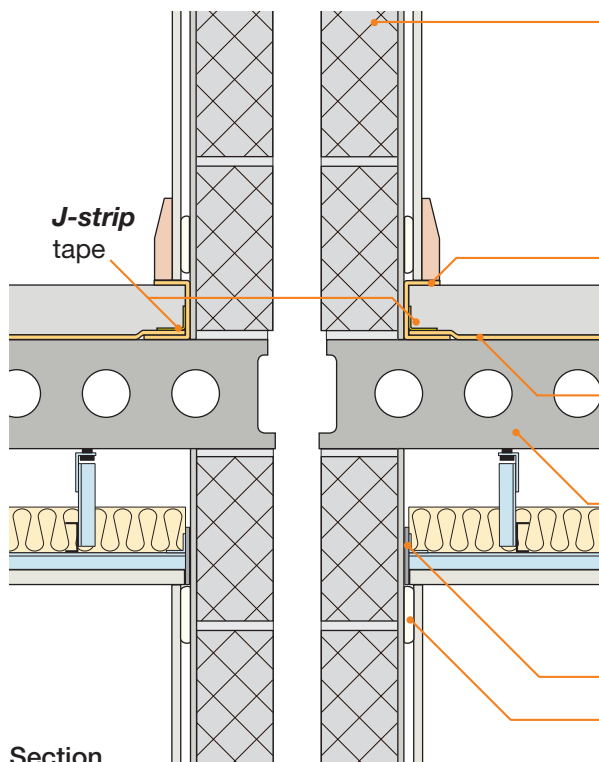
## 1. External (flanking) wall junction



- Masonry outer leaf
- External wall cavity (min 50mm)
- Inner leaf (min 100mm) aggregate concrete block (1350-1600 kg/m<sup>3</sup> or 1850-2300 kg/m<sup>3</sup>) or aircrete block (450-800kg/m<sup>3</sup>).
- **E-strip** perimeter edging must be overlapped by **YELOfon® HD10+** resilient layer with joints sealed with **J-strip** tape to isolate screed from perimeter walls and skirtings
- **YELOfon® HD10+** resilient layer must have 150mm (min) overlapped joints and be sealed with **J-strip** tape
- Concrete planks must be built into walls:
  - walls must not be continuous between storeys
  - planks must not abut inner leaf
  - all voids between planks and blockwork filled with mortar or flexible sealant
- **Collecta® C-strip**
- Continuous horizontal ribbon of adhesive
- Close cavity with a flexible cavity stop unless it is fully filled with mineral wool insulation
- Nominal 8 kg/m<sup>2</sup> gypsum-based board or 13mm plaster

Section  
Sketch shows CT0 type ceiling treatment

## 2. Separating wall junction



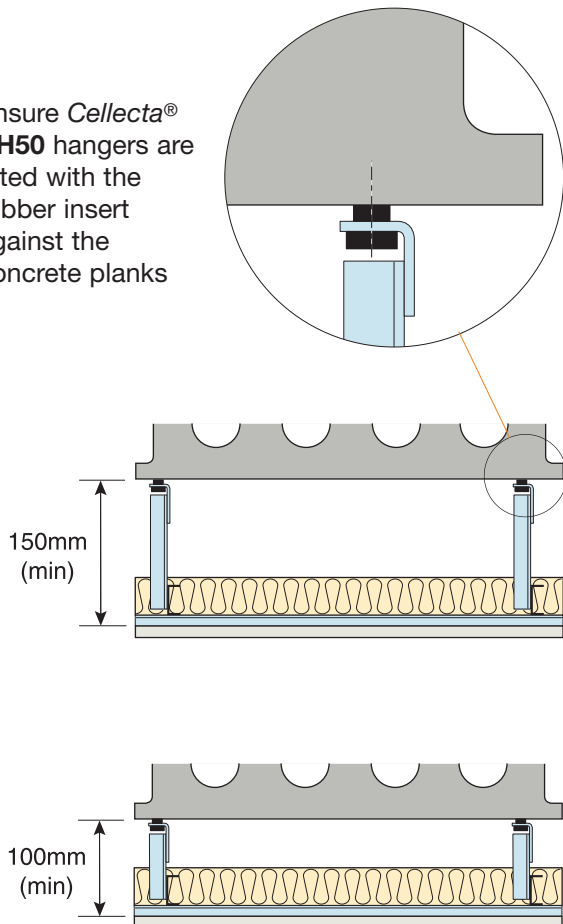
- Separating wall:
  - if using **robustdetails®** for wall - refer to Table 3a in introduction to select an appropriate Robust Detail separating wall
  - if using wall requiring pre-completion testing – seek specialist advice
- **E-strip** perimeter edging must be overlapped by **YELOfon® HD10+** resilient layer with joints sealed with **J-strip** tape to isolate screed from perimeter walls and skirtings
- **YELOfon® HD10+** resilient layer must have 150mm (min) overlapped joints and be sealed with **J-strip** tape
- Concrete planks to be built into wall:
  - wall must not be continuous between storeys
  - planks must not abut separating wall
  - all voids between planks and blockwork filled with mortar or flexible sealant
- **Collecta® C-strip**
- Continuous horizontal ribbon of adhesive

Section  
Sketch shows CT0 type ceiling treatment

## 3. Ceiling treatments for E-FC-17

All ceiling treatments must be installed in accordance with the manufacturer's instructions. All ceiling joints must be sealed with tape or caulked with sealant.

Ensure *Collecta*® **AH50** hangers are fitted with the rubber insert against the concrete planks



### Downlighters and recessed lighting

Provided there is a minimum ceiling void as stated below for CT0 or CT1, 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 or see 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

### CT0 – Metal ceiling system - 150mm void

To be used for 150mm (min) depth concrete planks

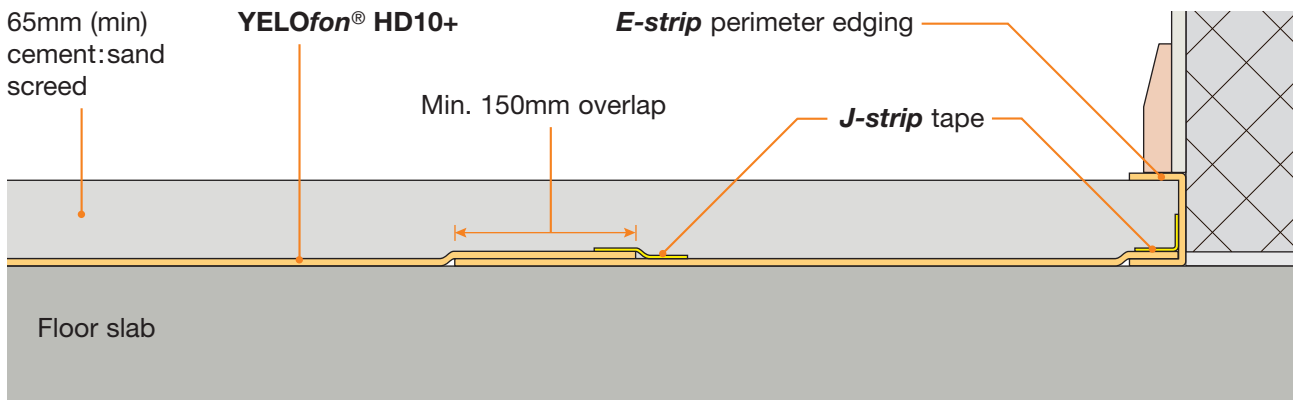
- any metal ceiling frame, suspended from *Collecta*® **AH50** hangers
- 50mm (min) **FIBREfon**® **MICRO 50** or 100mm (min) mineral wool, 10 kg/m<sup>3</sup> (min)
- one layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum-based board

### CT1 – Metal ceiling system - 100mm void

Only to be used for 200mm (min) depth concrete planks

- any metal ceiling frame, suspended from *Collecta*® **AH50** hangers
- 50mm (min) **FIBREfon**® **MICRO 50** or 100mm (min) mineral wool, 10 kg/m<sup>3</sup> (min)
- one layer 15mm (nominal 10 kg/m<sup>2</sup>) gypsum-based board

## 4. Resilient layer installation



### SCREED TYPE

65mm (min) cement:sand screed

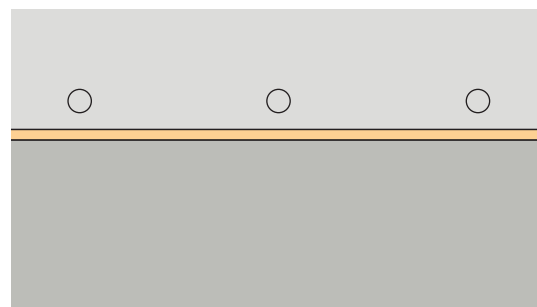
- **YELOfon® HD10+** resilient layer must have 150mm (min) overlapped joints and be sealed with **J-strip** tape
- **E-strip** perimeter edging must be overlapped by **YELOfon® HD10+** resilient layer with joints sealed with **J-strip** tape to isolate screed from perimeter walls and skirtings
- **E-strip** perimeter edging to be installed at all perimeter walls (including door openings, wall recesses) and service pipes. See manufacturer's guidance

## 5. Underfloor heating systems within screeds

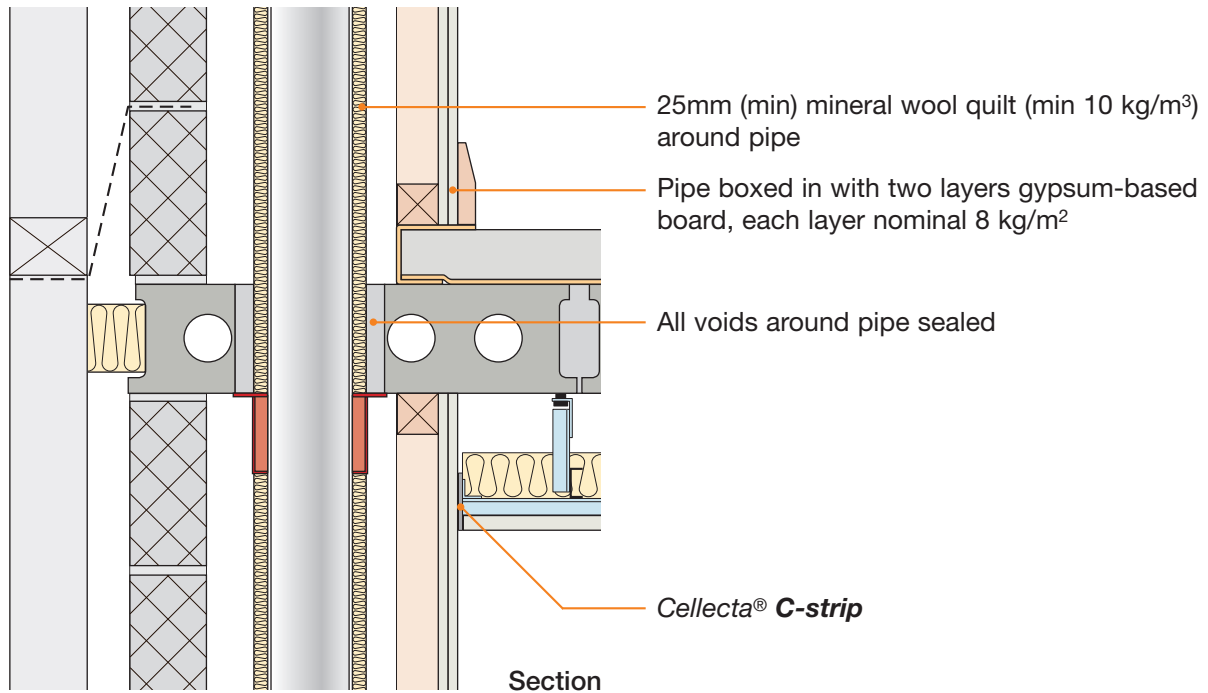
Underfloor heating systems (including connectors and fixings) installed within the screed must not penetrate the resilient layer or bridge the screed to the slab.

Underfloor heating systems which have a supporting layer/board may be laid on top of the **YELOfon® HD10+** resilient layer.

Appropriate screed depth cover to the heating system must be designed for – contact underfloor heating manufacturer for guidance.



## 6. Services – Service pipes through separating floor



Sketch shows CT0 type ceiling treatment

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

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

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

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

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Has training been received from <i>Cellecta</i> ®?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Are precast concrete planks 150mm (min) thick and of mass per unit area 300 kg/m <sup>2</sup> (min)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Are inner leaves to external (flanking) walls of the correct block density and appropriate for precast concrete plank thickness and ceiling treatment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Are joints between precast concrete planks grouted and sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Are precast concrete planks built into the masonry walls?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Is the <b>E-strip</b> perimeter edging installed around all room perimeter walls (including door openings, cupboards, across thresholds and into wall recesses) and service pipes and joints sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Are <b>YELOfon</b> ® <b>HD10+</b> resilient layer joints formed as described in Section 4 and sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Is <b>YELOfon</b> ® <b>HD10+</b> resilient layer overlapping the <b>E-strip</b> perimeter edging and joints sealed with <b>J-strip</b> tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Are the skirting boards isolated from the screed by the <b>E-strip</b> perimeter edging?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Are the <i>Cellecta</i> ® <b>AH50</b> hangers installed with the rubber insert against the precast planks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Is <i>Cellecta</i> ® <b>C-strip</b> installed at all ceiling perimeters?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	Is 50mm (min) <b>FIBREfon</b> ® <b>MICRO 50</b> or 100mm (min) mineral wool, 10 kg/m <sup>3</sup> (min) installed in the ceiling void?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
13.	Are all ceiling board joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
14.	Are service pipes wrapped in quilt and boxed in with two layers of nominal 8 kg/m <sup>2</sup> gypsum-based board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
15.	Is separating floor satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

Contact details for technical assistance from *Cellecta*®, manufacturer of **YELOfon**® HD10+ resilient layer system:

**Telephone: 01634 717174**

**Fax: 01634 717172**

**E-mail: [technical@cellecta.co.uk](mailto:technical@cellecta.co.uk)**

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

Site manager/supervisor signature .....

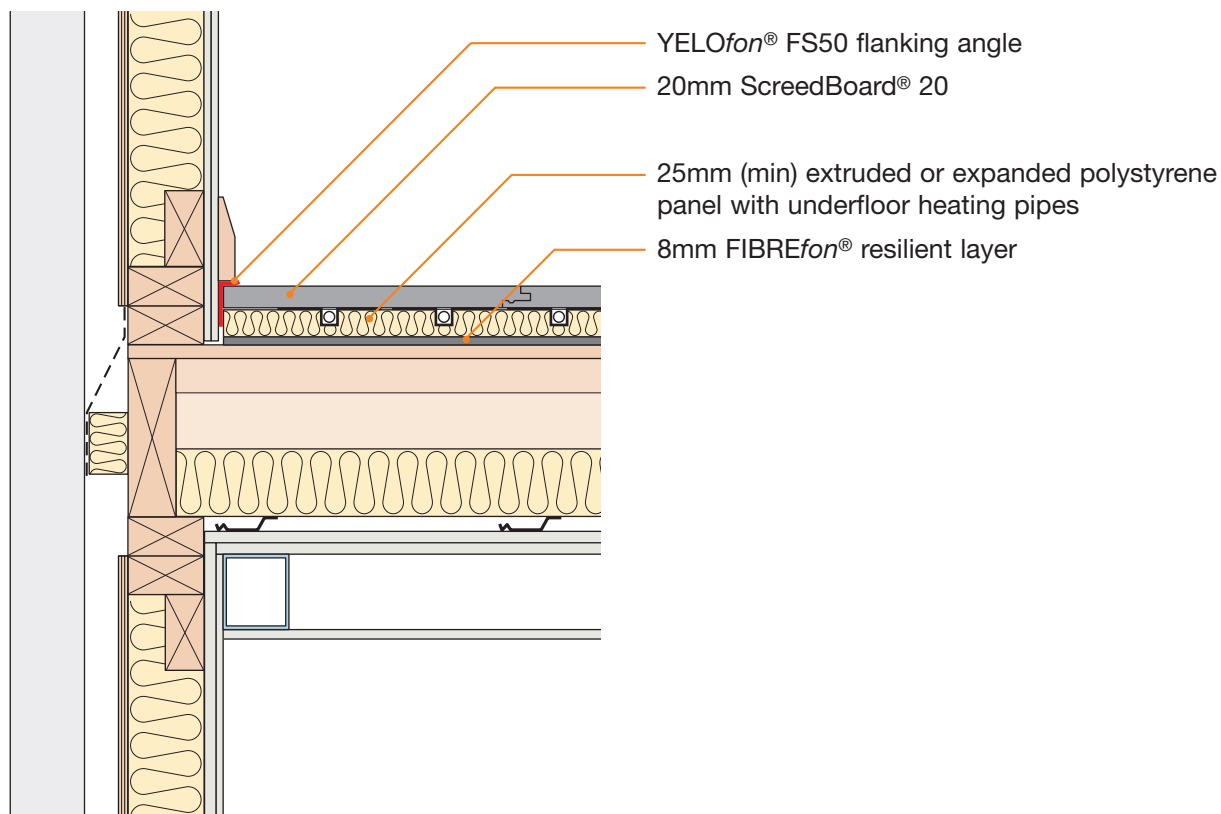
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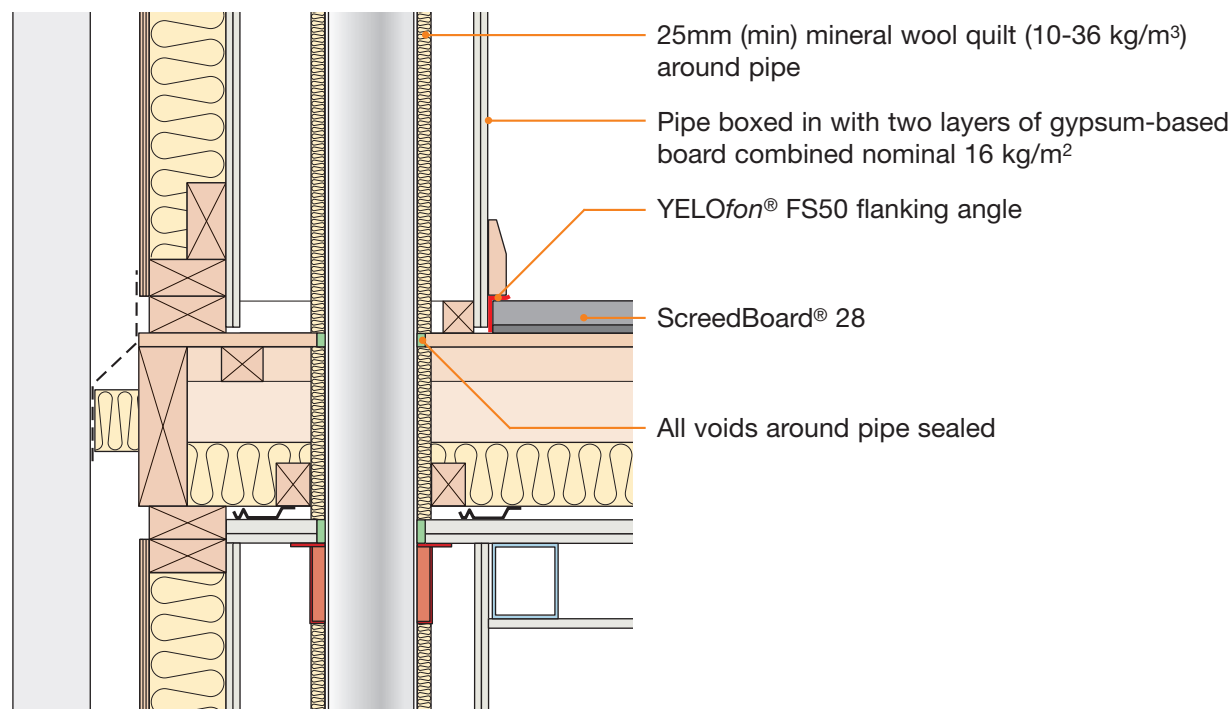


## 6. Underfloor heating systems below ScreedBoard®



Section

## 7. Services – pipes through separating floor



Section

## 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 minimum 240mm deep?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Is sub-deck minimum 18mm, 600 kg/m <sup>3</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Are YELOfon® FS50 flanking angles installed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 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 type="text"/>
6.	Are resilient ceiling bars fitted at right angles to the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Has quilt (min 100mm thick) been fitted between the joists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Has ceiling system been fitted in accordance with the manufacturer’s instructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="text"/>
10.	Is secondary ceiling void minimum 150mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Are all joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	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"/>
13.	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: 01634 717174      Fax: 01634 717172      E-mail: technical@collecta.co.uk**

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

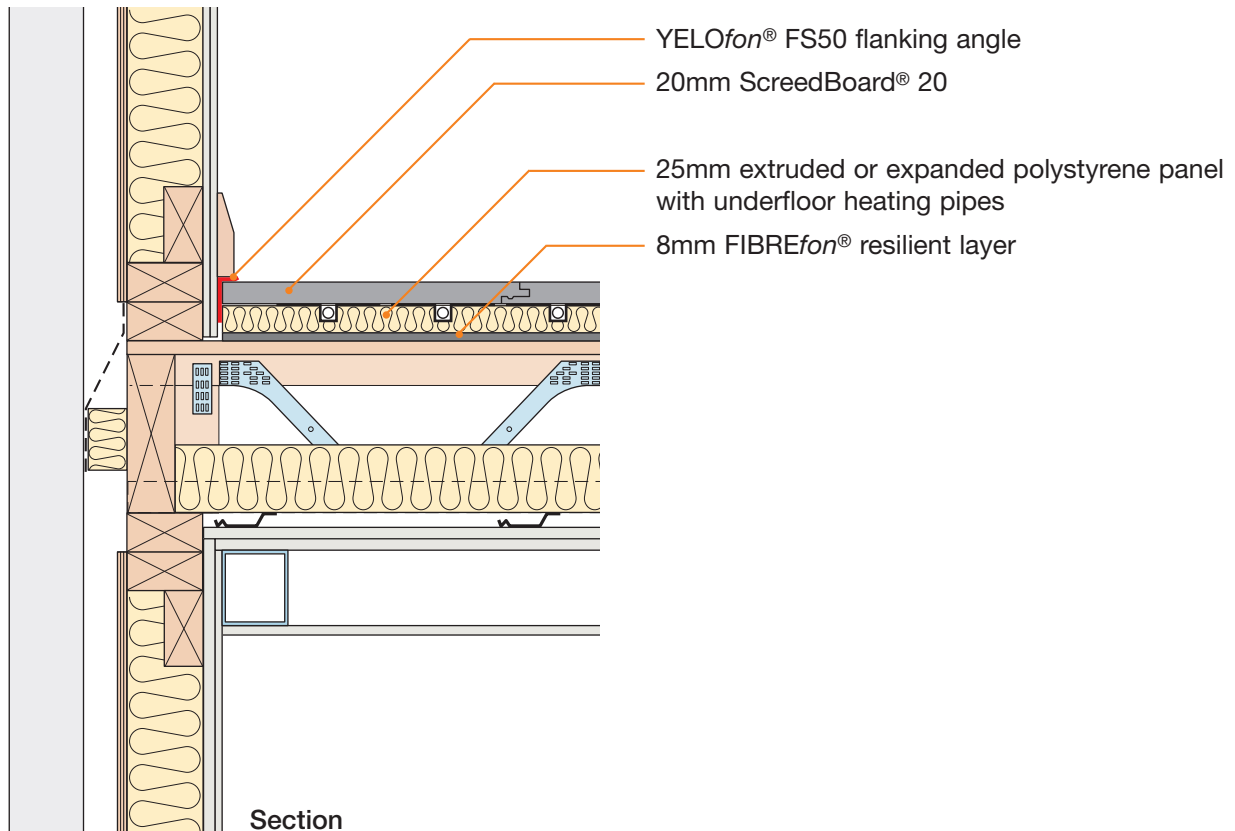
Site manager/supervisor signature .....

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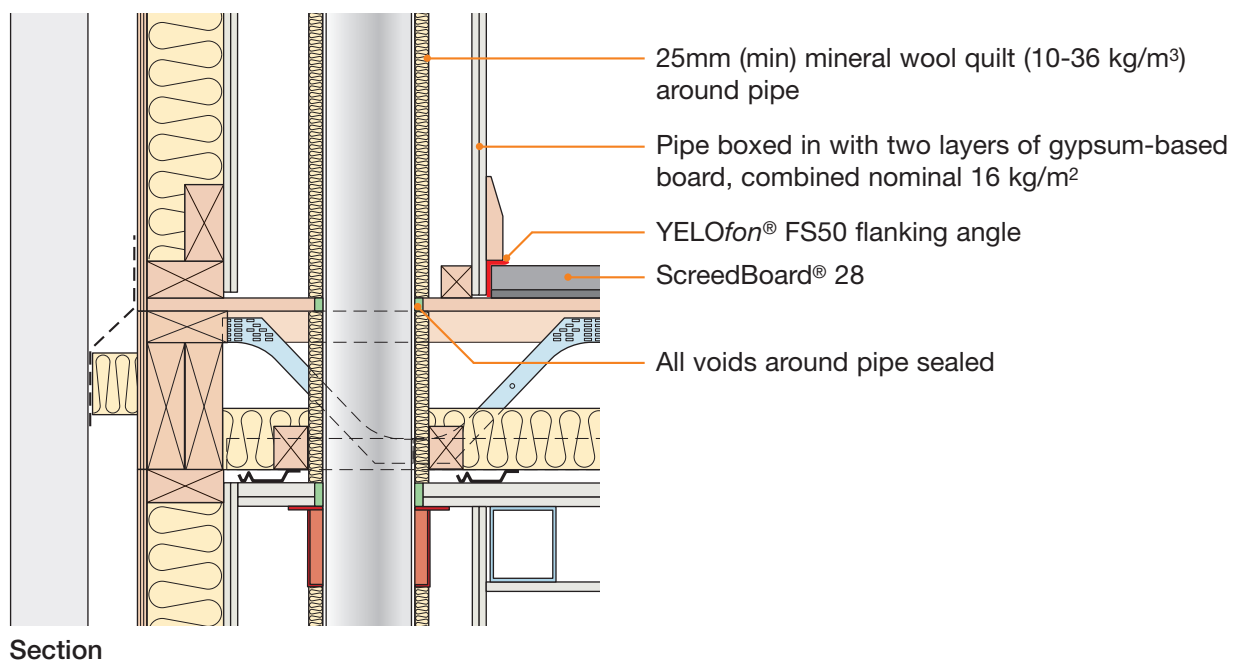
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## 10. Underfloor heating systems below ScreedBoard®



## 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: 01634 717174      Fax: 01634 717172      E-mail: technical@collecta.co.uk**

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

Site manager/supervisor signature .....

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# Appendix A2 – Proprietary Flanking Conditions

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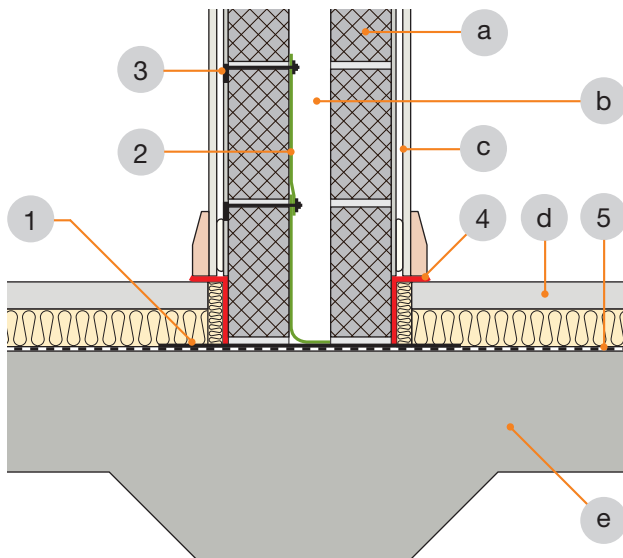
## Contents

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Icopal-MONARFLOOR® BRIDGESTOP® System for <b>robustdetails</b> ® cavity masonry walls	2
Smartroof complete Interlocking “room-in-roof” panel system using <b>robustdetails</b> ® timber or masonry cavity walls	3
Kingspan TEK inner leaf flanking condition for <b>robustdetails</b> ® timber separating walls	4
Prestoplan PresPeak 60 interlocking single spandrel panel system for <b>robustdetails</b> ® timber separating walls	5
Icopal-MONARFLOOR® Wall Cap RDA2 System for <b>robustdetails</b> ® separating floors with cavity flanking walls	6
RoofSpace I-Roof™ “room-in-roof” panel system using <b>robustdetails</b> ® timber or masonry cavity walls	7

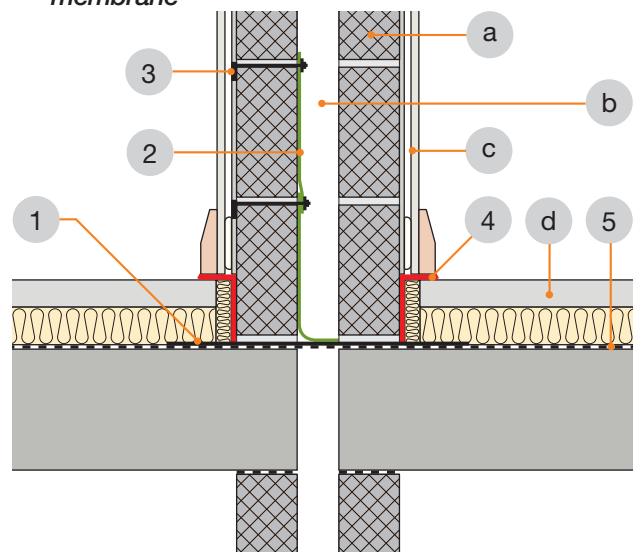
## Appendix A2 – Proprietary Flanking Conditions

Icopal-MONARFLOOR® BRIDGESTOP® System for robustdetails® cavity masonry walls.  
Refer to Table 6 in Introduction.

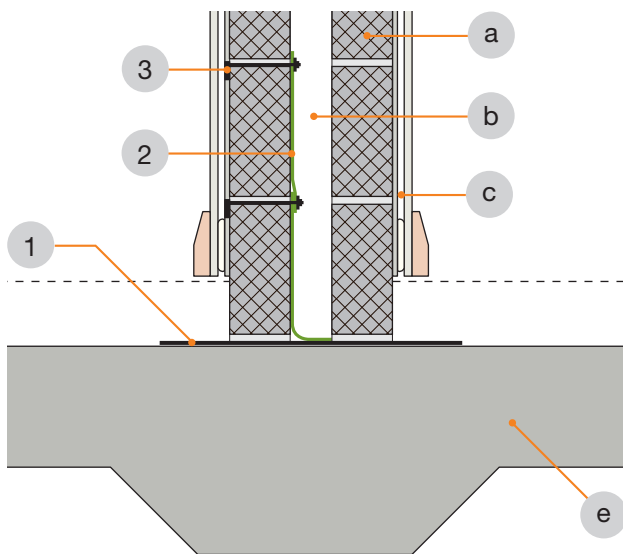
### 1. Separating wall – direct support on raft



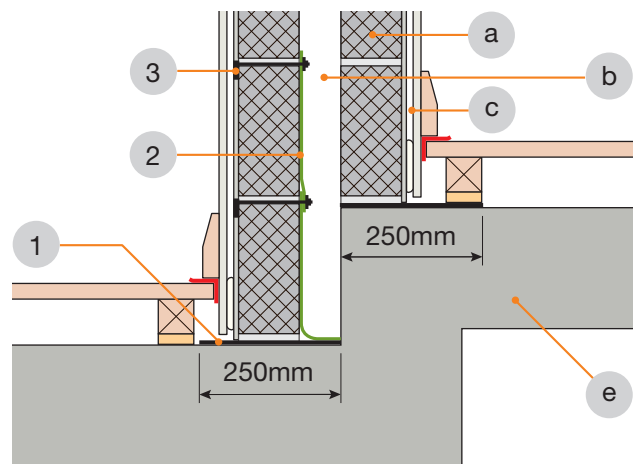
### 2. Separating wall – suspended floor with gas membrane



### 3. Insulated raft foundation



### 4. Stepped foundation



#### Key

- 1 500mm wide (or 250mm where shown) MONARFLOOR® BRIDGESTOP® 3mm HP Acoustic Membrane laid under the party wall over the dpm. This is an integral part of the system.
- 2 MONARFLOOR® BRIDGESTOP® Quilt in two lifts to prevent mortar droppings touching both masonry leaves.
- 3 MONARFLOOR® BRIDGESTOP® Tie to penetrate at max 450mm centres. Ties are reversible. May also be used as render depth marker.
- 4 MONARFLOOR® 6mm Acoustic Angled Flanking Strip to isolate screed/insulation from party wall and to isolate skirting board from screed.
- 5 Continuous dpm over the raft where ground gasses are an issue. Contact Icopal for specification.

- a Min 100mm block (with appropriate Type A wall ties) dependent on Robust Detail being used. Refer to Table 6a in the Introduction.
- b Min 75mm or 100mm cavity width dependent on Robust Detail being used.
- c Wall finish dependent on Robust Detail used.
- d Floating screed on insulation; or timber floating floor types FFT2 resilient cradle and batten, FFT3 resilient batten, or FFT4 deep platform system.
- e 150mm (min) thick insitu concrete 365kg/m<sup>2</sup> (min) mass per unit area or Insulslab SFRC.

Contact details for Icopal-MONARFLOOR®:

**Telephone: 0161 866 6540**

**Fax: 0161 865 8433**

**E-mail: [acoustics.uk@icopal.com](mailto:acoustics.uk@icopal.com)**

BRIDGESTOP® is the subject of Patent Application ref GB2429719

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