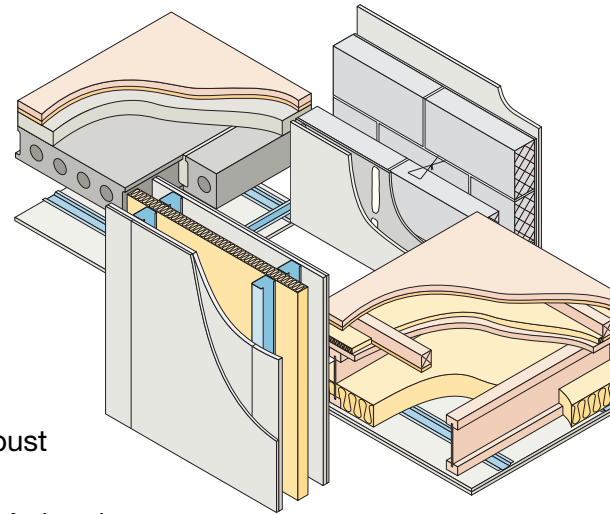


## September 2018 Update Pack



Dear Colleague,

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

The September update includes new guidance for 'Private Stair' situations – this is where there are two flats (one above the other) incorporating internal stairs that are open to the upper flat. Such an arrangement usually prevents the flanking condition published in the floor Robust Detail from being fully constructed. This new guidance currently addresses precast plank floor structures with floating screed finishes, and we are also considering guidance for:

- Beam and Block floor E-FC-6
- Single leaf wall above the floor

So if you have designs and/or test data on these, please contact our Technical department.

Other amendments include removing the obsolete product name, Round The House Roll from E-WM-17 and E-WM-20.

### **Please update your June 2018, 4th Edition Handbook as follows:**

1. Remove and replace the Contents pages 1/2.
2. Remove and replace **just pages 9/10 and 11/12** of the Introduction.
3. Remove and replace **all pages** of E-WM-17.
4. Remove and replace **all pages** of E-WM-20.
5. Remove and replace **all pages** of Appendix A2.

Yours sincerely

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

**John Thompson**

Chief Executive,  
Robust Details Limited





# Changes to the fourth edition following September 2018 update

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Section Page Amendment

## Introduction

Table 6a	9-10	Appendix A2 heading changed to “Specific Flanking Conditions”.
Table 6b	11	Appendix A2 heading changed to “Specific Flanking Conditions”. Wall-specific details removed from header row. Private stair guidance added, identifying applicable floor types.

## Separating Wall – Masonry

### E-WM-17

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All	1-6	“Round The House Roll” product name removed from specification.
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### E-WM-20

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All	1-6	“Round The House Roll” product name removed from specification.
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## Appendix A2

All	1-14	Appendix heading changed to “Specific Flanking Conditions”.
Private stairs	12-14	Flanking guidance added for loadbearing masonry floors surrounding private stairs.



## Introduction

Special note for Robust Details constructed in Northern Ireland

List of Robust Details

- Table 1 – Separating walls
- Table 2 – Separating floors
- Tables 3a, 3b and 3c
  - **robust**details® separating walls and floors which can be used together in flats/apartments
- Table 4 – **robust**details® separating walls which can be used together with non-**robust**details® separating floors in flats/apartments
- Table 5 – **robust**details® separating floors which can be used together with non-**robust**details® separating walls in flats/apartments
- Tables 6a and 6b
  - **robust**details® separating walls and floors which can be used together with the proprietary flanking constructions contained in Appendix A2
- Table 7 – **robust**details® separating floors which can be used together with alternative products contained in Appendix A3

## Robust Details

### Separating walls

- Masonry
- Timber
- Steel

### Separating floors

- Concrete
- Timber
- Steel-concrete composite

# Contents

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## Appendices

- Appendix A1 Additional guidance
- Appendix A2 Specific flanking constructions
- Appendix A3 Specific proprietary products
- Appendix B Glossary
- Appendix C Determination of the acoustic performance requirements for floating floor treatments used with **robust**details® timber frame separating floors
- Appendix D Determination of the acoustic performance requirements for floating floor treatments used with **robust**details® concrete and steel-concrete composite separating floors
- Appendix E Determination of the acoustic performance requirements for resilient bars used on ceilings
- Appendix F Determination of the acoustic performance of downlighters and recessed lighting in lightweight separating floors
- Appendix G Determination of the acoustic performance for bonded floor coverings used with **robust**details® concrete separating floor E-FC-8.

## Introduction

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

		BRIDGESTOP® system	Smartroof system	Wall Cap RDA2	RoofSpace I-Roof	Space4 system	Stewart Milne Sigma® Panel	NYTROOF RAPID FIT SYSTEM
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	✓	✓	✓	✓	✓		✓
	E-WM-29			✓				
	E-WM-30	✓ see note 1	✓	✓	✓			
	E-WM-31		✓	✓	✓			
	E-WM-32	✓	✓	✓	✓	✓		✓

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 specific flanking constructions contained in Appendix A2

		Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof	Space4 system	Stewart Milne Sigma® Panel	Lightweight external cladding systems
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				✓				
	E-WS-5								



## Introduction

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

	BRIDGESTOP® system	Kingspan TEK	Wall Cap RDA2	Private stairs
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		✓ see note 1	
	E-FC-11		✓	✓
	E-FC-12		✓	✓
	E-FC-13		✓	✓
	E-FC-14		✓	✓
	E-FC-15		✓	✓
	E-FC-16		✓	
	E-FC-17		✓	✓
	E-FC-18			
	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.

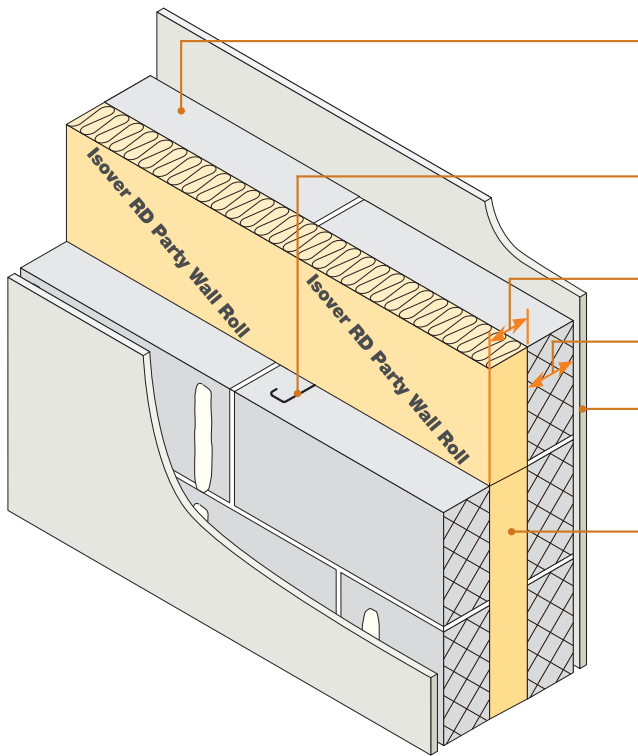
## Introduction

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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		
	E-FC-18		
	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		

- Lightweight aggregate, or nominated hollow or cellular blocks
- Isover RD Party Wall Roll
- Gypsum-based board (nominal 8 kg/m<sup>2</sup>) on dabs



<b>Block density</b>	1350 to 1600 kg/m <sup>3</sup> or Plasmor Aglite Ultima 1050 kg/m <sup>3</sup>
<b>Wall ties</b>	Approved Document E 'Tie type A' (see Appendix A)
<b>Cavity width</b>	75mm (min)
<b>Block thickness</b>	100mm (min), each leaf
<b>Wall finish</b>	Gypsum-based board (nominal 8 kg/m <sup>2</sup> ) mounted on dabs
<b>Insulation</b>	Isover RD Party Wall Roll
<b>External (flanking) wall</b>	Masonry (both leaves) with 50mm (min) cavity – clear, fully filled or partially filled with insulation

## DO

- Keep cavity, insulation rolls and wall ties free from mortar droppings and debris
- Fully fill all blockwork joints with mortar
- Make sure there is no connection between the two leaves except for wall ties, insulation and foundation
- Ensure that only solid, or approved hollow or cellular blocks are used in the construction of separating and flanking walls
- Ensure all Isover RD Party Wall Rolls are tightly butted together and half cuts are made with a clean sharp knife
- Ensure that 'Isover RD Party Wall Roll' is printed on the insulation material
- Ensure RD Party Wall Roll is installed in accordance with manufacturer's recommendations
- Keep any chases for services to a minimum and fill well with mortar. Stagger chases on each side of the wall to avoid them being back to back
- Refer to Appendix A

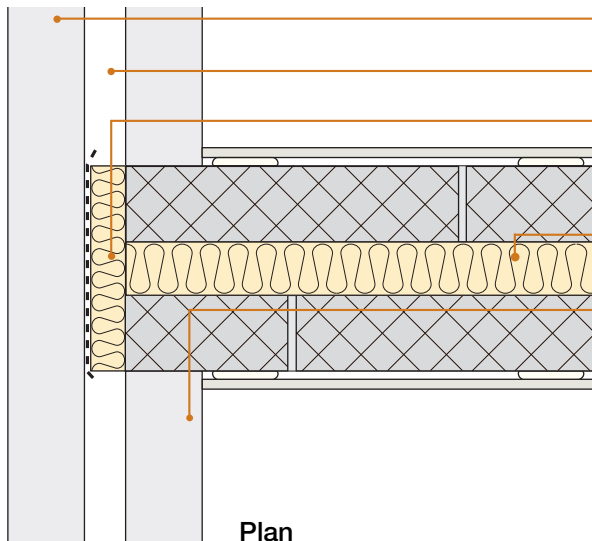
## Hollow or Cellular Blocks - only for E-WM-17 100mm (min) cavity walls

The Besblock Star Performer is the only block of this type currently accepted by Robust Details Limited for use as an alternative to solid blocks in E-WM-17.

Ensure Star Performer blocks are laid with the cells open to the lower mortar bed only.

The separating wall **must not** be constructed using a mix of the block types.

## 1. External (flanking) wall junction



Masonry outer leaf

External wall cavity (min 50mm)

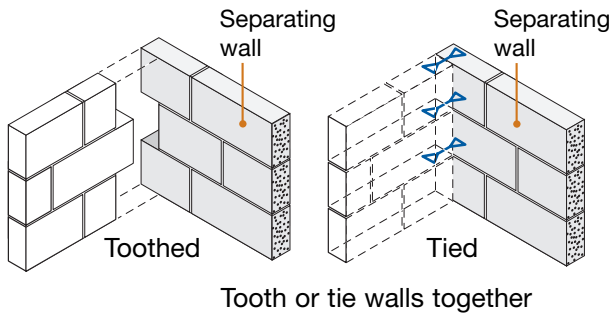
Close external wall cavity with a flexible cavity stop. (Optional if external wall cavity is fully filled with built in mineral wool insulation)

Isover RD Party Wall Roll (no gaps to remain)

Inner leaf where there is no separating floor  
e.g. for houses

- 100mm (min) concrete block (1350 kg/m<sup>3</sup> to 1600 kg/m<sup>3</sup>) or aircrete block (450 kg/m<sup>3</sup> to 800 kg/m<sup>3</sup>) or Plasmor Aglite Ultima (1050 kg/m<sup>3</sup>) or Besblock “Star Performer”
- internal finish – 13mm plaster or nominal 8 kg/m<sup>2</sup> gypsum-based board

Plan

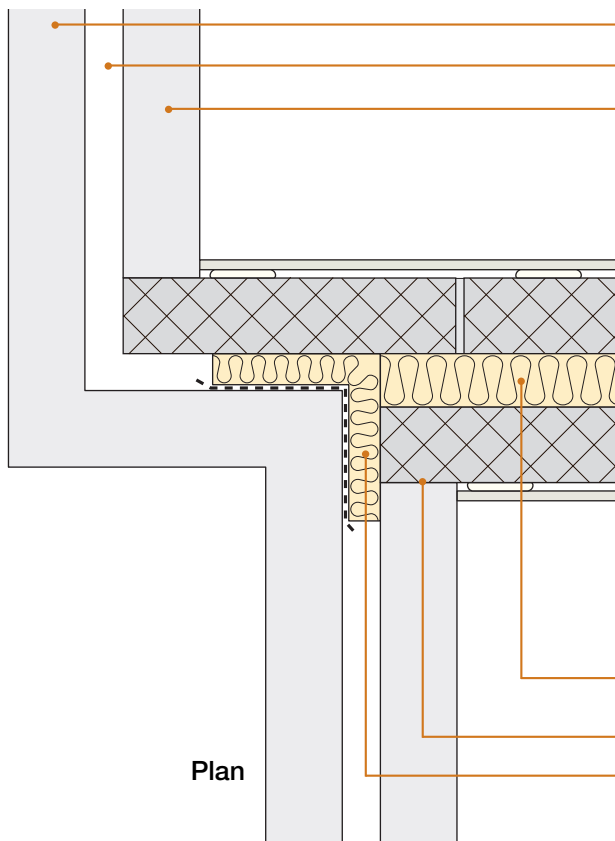


Tooth or tie walls together

Inner leaf where there is a separating floor  
e.g. for flats/apartments

- if using **robustdetails**<sup>®</sup> for floor, refer to Table 3a in introduction to select an acceptable **robustdetails**<sup>®</sup> separating floor. Then refer to separating floor Robust Detail to identify acceptable inner leaf construction or use Plasmor Aglite Ultima or Besblock “Star Performer”
- if using floor requiring pre-completion testing, seek specialist advice

## 2. Staggered external (flanking) wall junction



Masonry outer leaf

External wall cavity (min 50mm)

Inner leaf where there is no separating floor  
e.g. for houses

- 100mm (min) concrete block (1350 kg/m<sup>3</sup> to 1600 kg/m<sup>3</sup>) or aircrete block (450 kg/m<sup>3</sup> to 800 kg/m<sup>3</sup>) or Plasmor Aglite Ultima (1050 kg/m<sup>3</sup>) or Besblock “Star Performer”

internal finish – 13mm plaster or nominal 8 kg/m<sup>2</sup> gypsum-based board

Inner leaf where there is a separating floor  
e.g. for flats/apartments

- if using **robustdetails**<sup>®</sup> for floor, refer to Table 3a in introduction to select an acceptable **robustdetails**<sup>®</sup> separating floor. Then refer to separating floor Robust Detail to identify acceptable inner leaf construction or use Plasmor Aglite Ultima or Besblock “Star Performer”
- if using floor requiring pre-completion testing, seek specialist advice

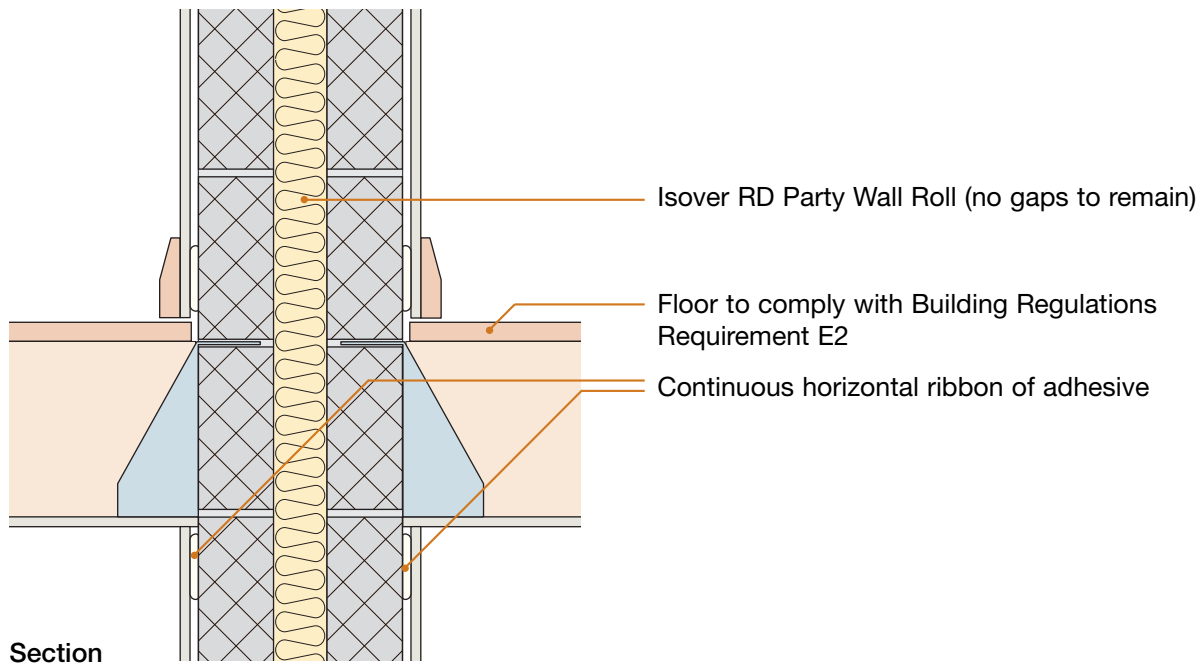
Isover RD Party Wall Roll (no gaps to remain)

Tooth or tie walls together

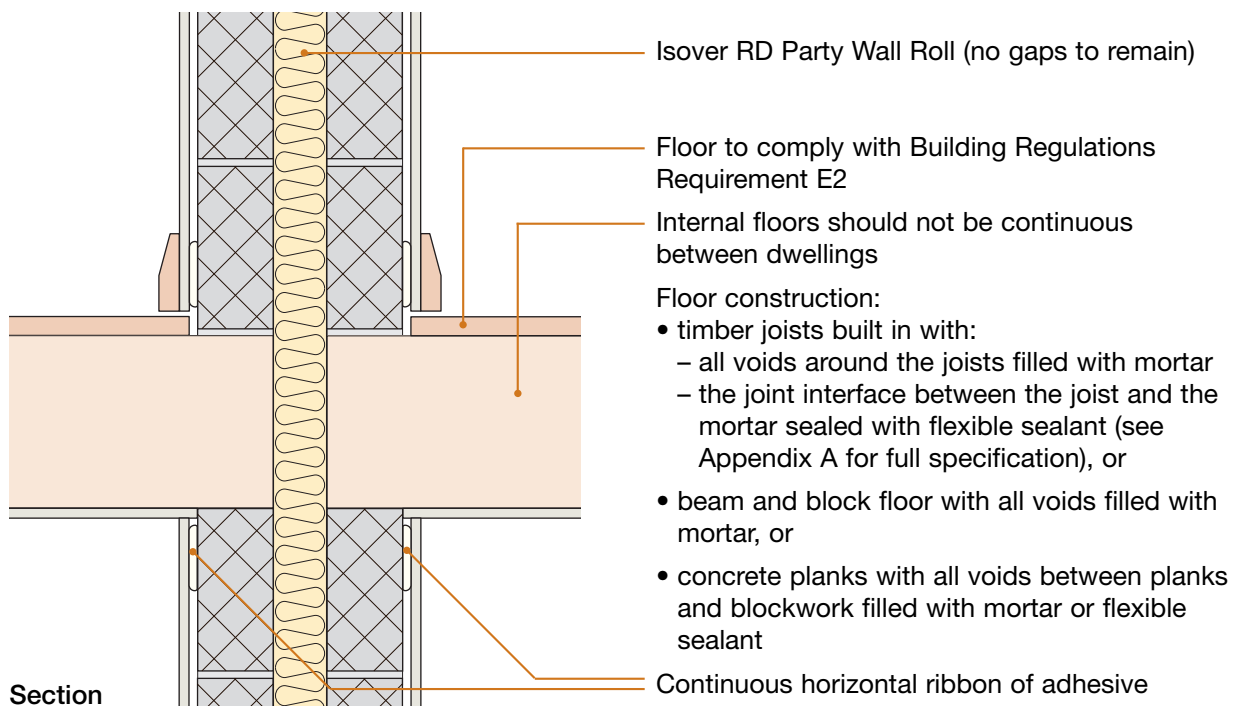
Close external wall cavity with a flexible cavity stop. (Optional if external wall cavity is fully filled with built in mineral wool insulation)

Plan

### 3. Internal floor junction: timber floor supported on joist hangers

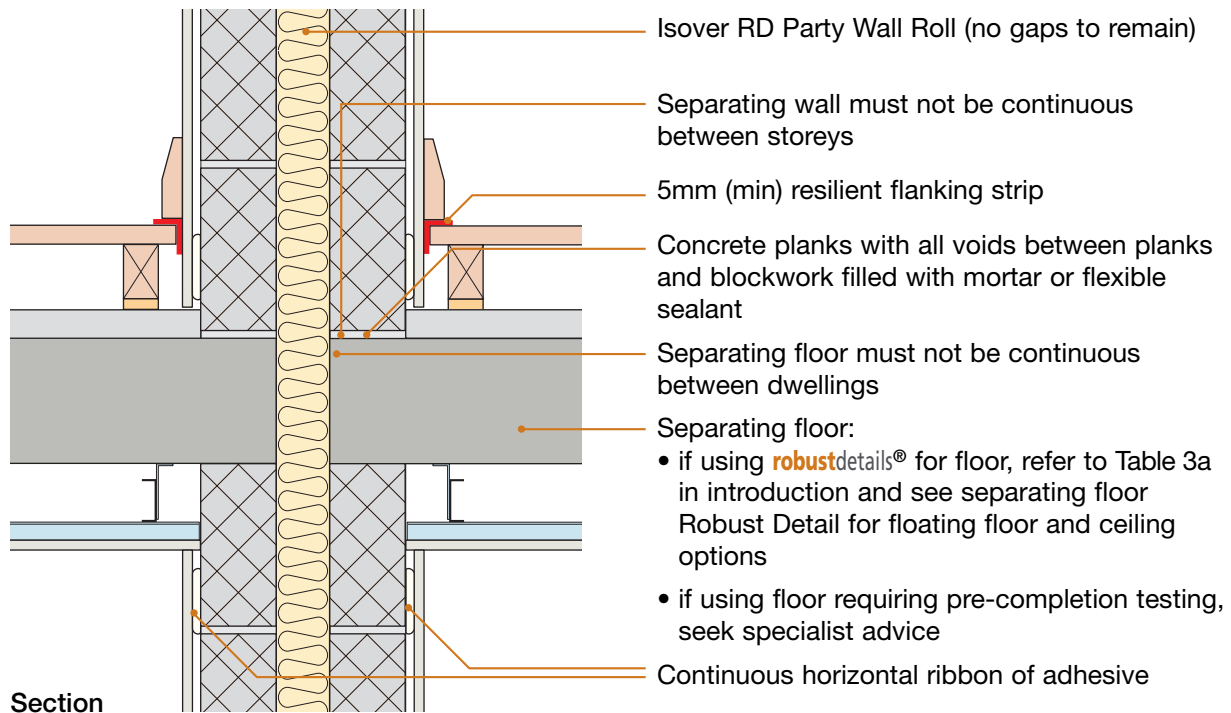


### 4. Internal floor junction: timber floor joists built in, beam and block or precast concrete



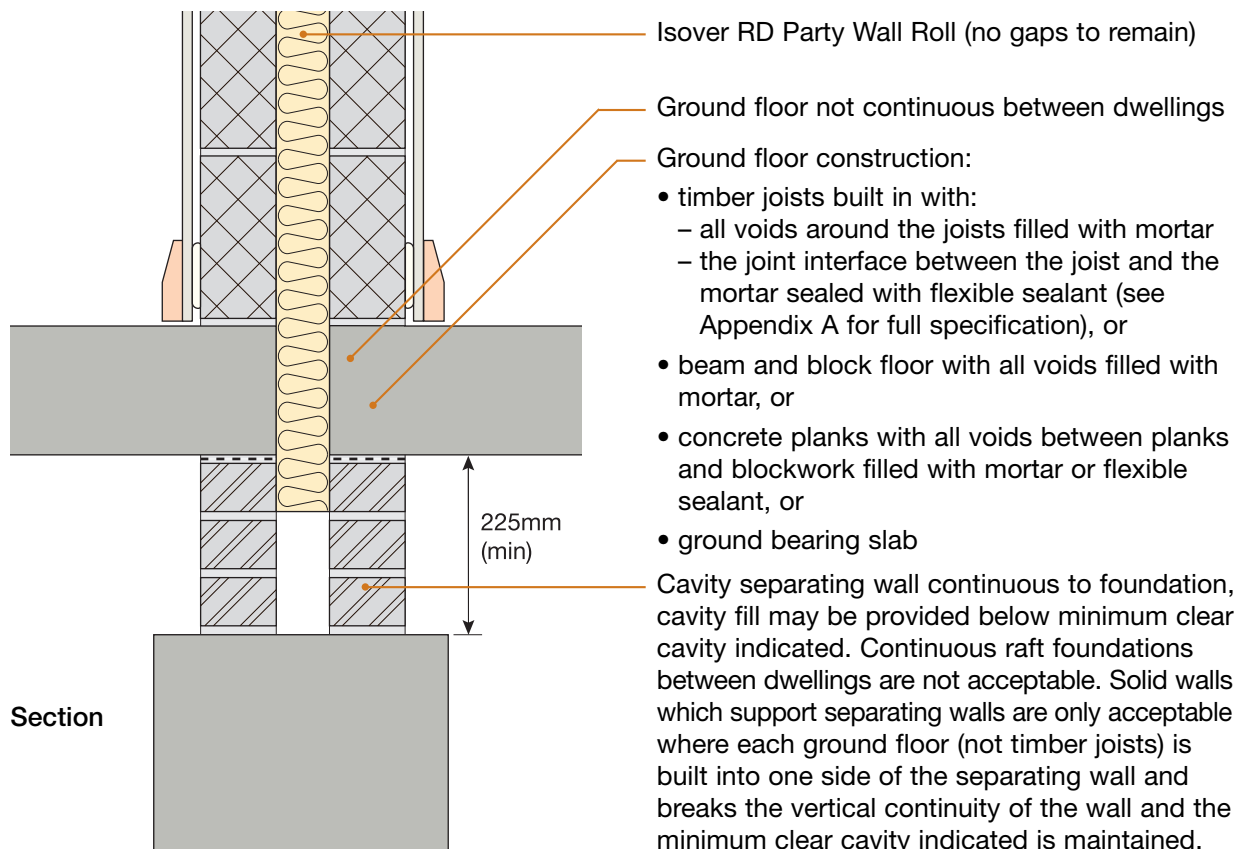
Sketch shows timber joists built in

## 5. Separating floor junction

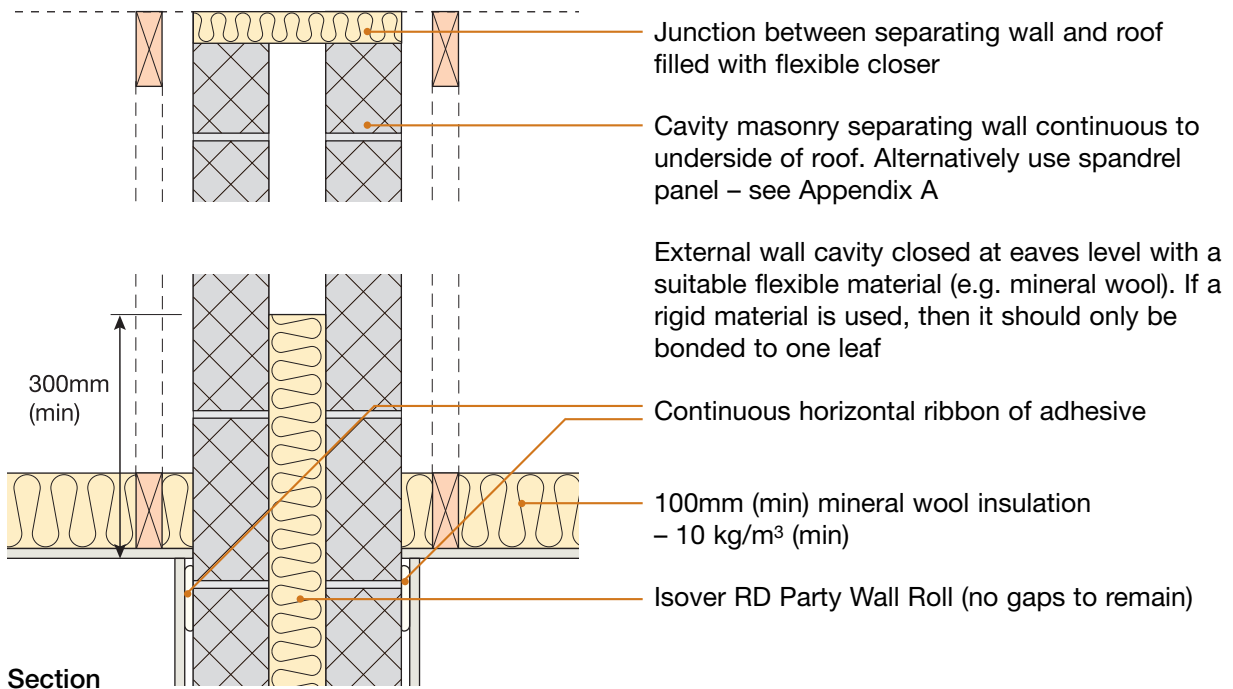


Sketch shows E-FC-1 type separating floor, FFT1 type floating floor treatment and CT3 type ceiling

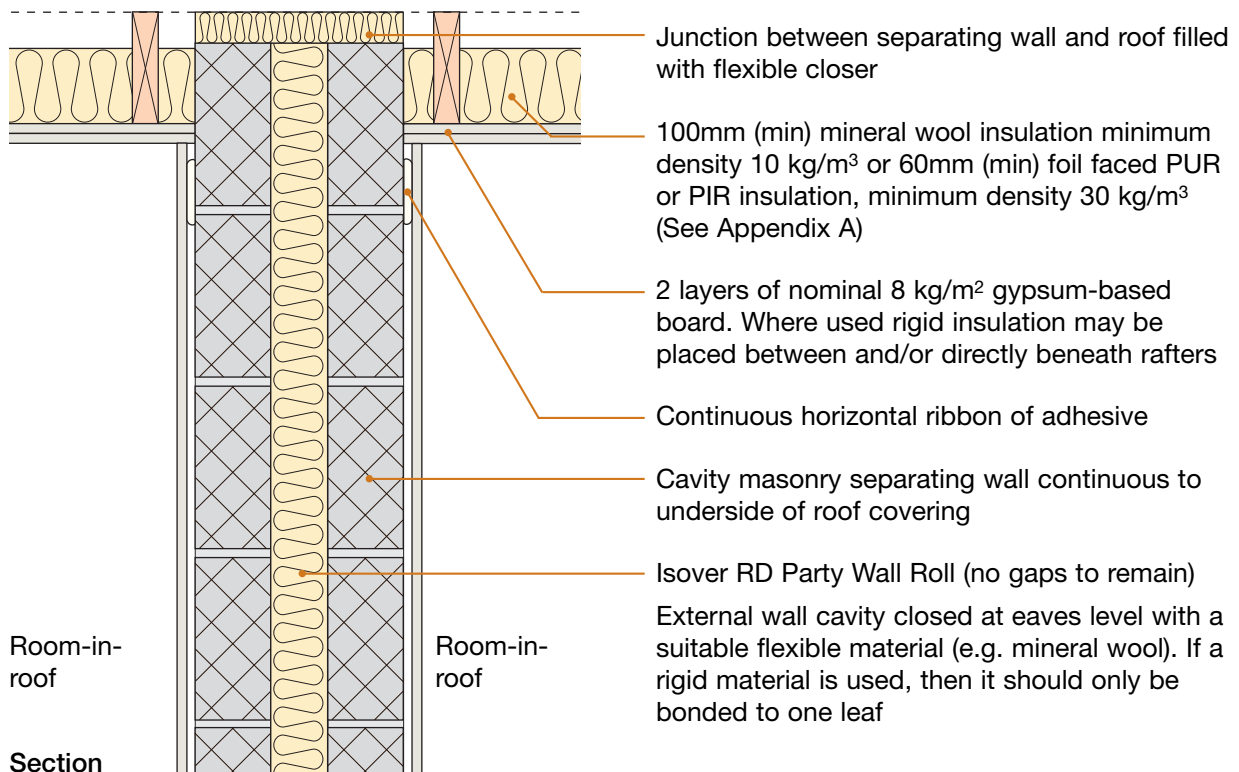
## 6. Ground floor junction: timber floor, beam and block, precast concrete plank, cast in-situ suspended concrete slab or ground bearing concrete slab



## 7. Roof junction – pitched roof without room-in-roof



## 8. Roof junction – pitched roof with room-in-roof



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

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

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

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

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Is separating wall cavity at least 75mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Is external (flanking) wall cavity at least 50mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Are separating wall blocks lightweight aggregate (1350 to 1600 kg/m <sup>3</sup> ) or Plasmor Aglite Ultima (1050 kg/m <sup>3</sup> )?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	If using Besblock “Star Performer”, is wall cavity 100mm (min), and are blocks laid with cells open to lower bed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Is cavity free from droppings and debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Are separating wall ties to Approved Document E “Tie type A” (see Appendix A)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Are cavity stops installed where specified in the Robust Detail?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Are joints fully filled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Is Isover RD Party Wall Roll used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Are insulation rolls tightly butted together?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Are voids around floor joists, chases, etc. fully filled/sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	Where there is a separating floor (e.g. flats/apartments) has the resilient flanking strip been installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
13.	Are all junctions of wall and ceiling boards sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
14.	Is separating wall satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

Contact details for technical assistance from Saint Gobain-Isover, manufacturer of RD Party Wall Roll:  
**Telephone: 01159 451143      Fax: 0844 5618816      E-mail: [isover.enquiries@saint-gobain.com](mailto:isover.enquiries@saint-gobain.com)**

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

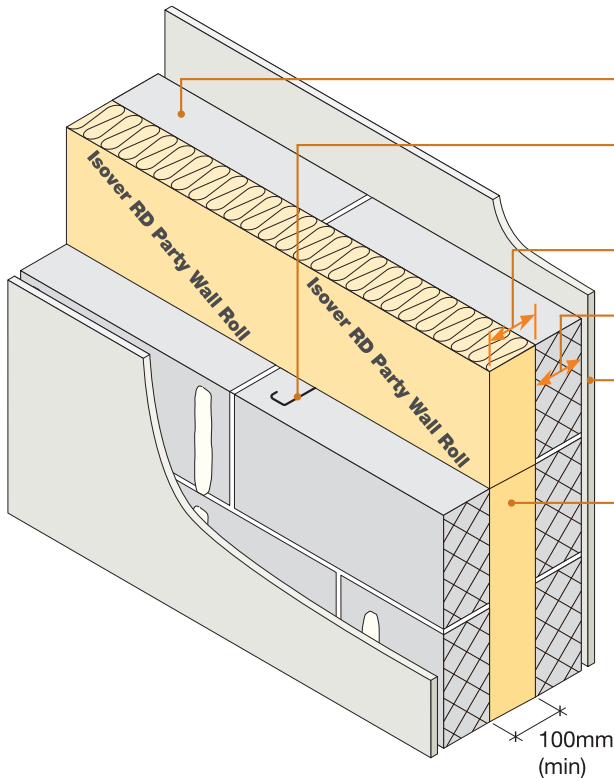
  
  
  
  
  
  
  
  
  
  

Site manager/supervisor signature .....

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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.



- Lightweight aggregate blocks
- Isover RD Party Wall Roll
- Gypsum-based board (nominal 8 kg/m<sup>2</sup>) on dabs

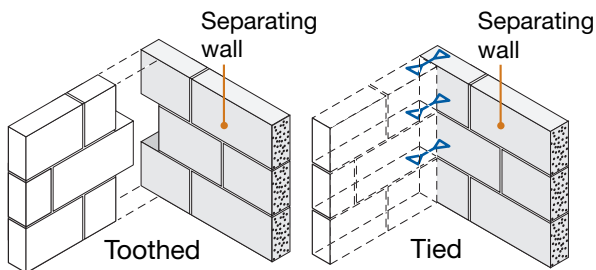
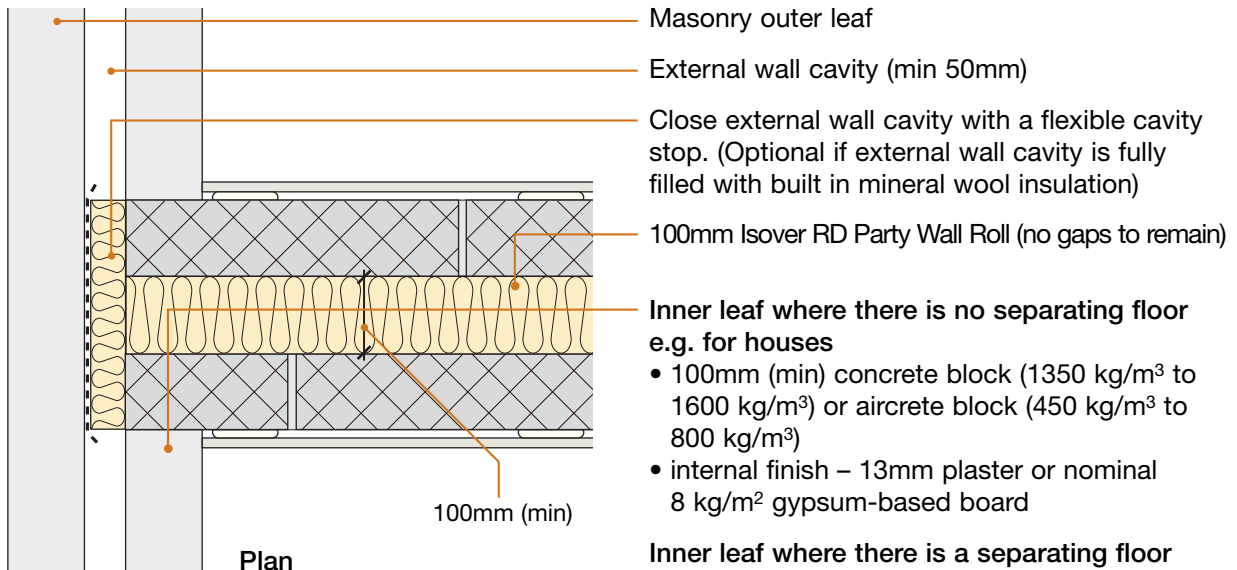


<b>Block density</b>	1350 to 1600 kg/m <sup>3</sup>
<b>Wall ties</b>	Approved Document E 'Tie type A' (see Appendix A)
<b>Cavity width</b>	100mm (min)
<b>Block thickness</b>	100mm (min), each leaf
<b>Wall finish</b>	Gypsum-based board (nominal 8 kg/m <sup>2</sup> ) mounted on dabs
<b>Insulation</b>	100mm Isover RD Party Wall Roll
<b>External (flanking) wall</b>	Masonry (both leaves) with 50mm (min) cavity – clear, fully filled or partially filled with insulation

## DO

- Keep cavity, insulation rolls and wall ties free from mortar droppings and debris
- Fully fill all blockwork joints with mortar
- Make sure there is no connection between the two leaves except for wall ties, insulation and foundation
- Ensure that only solid blocks (i.e. not hollow or cellular) are used in the construction of separating and flanking walls
- Ensure all 100mm Isover RD Party Wall Rolls are tightly butted together and half cuts are made with a clean sharp knife and are installed in accordance with the manufacturer's instructions
- Keep any chases for services to a minimum and fill well with mortar. Stagger chases on each side of the wall to avoid them being back to back
- Refer to Appendix A
- Ensure that 'Isover RD Party Wall Roll' is printed on the insulation material.

## 1. External (flanking) wall junction



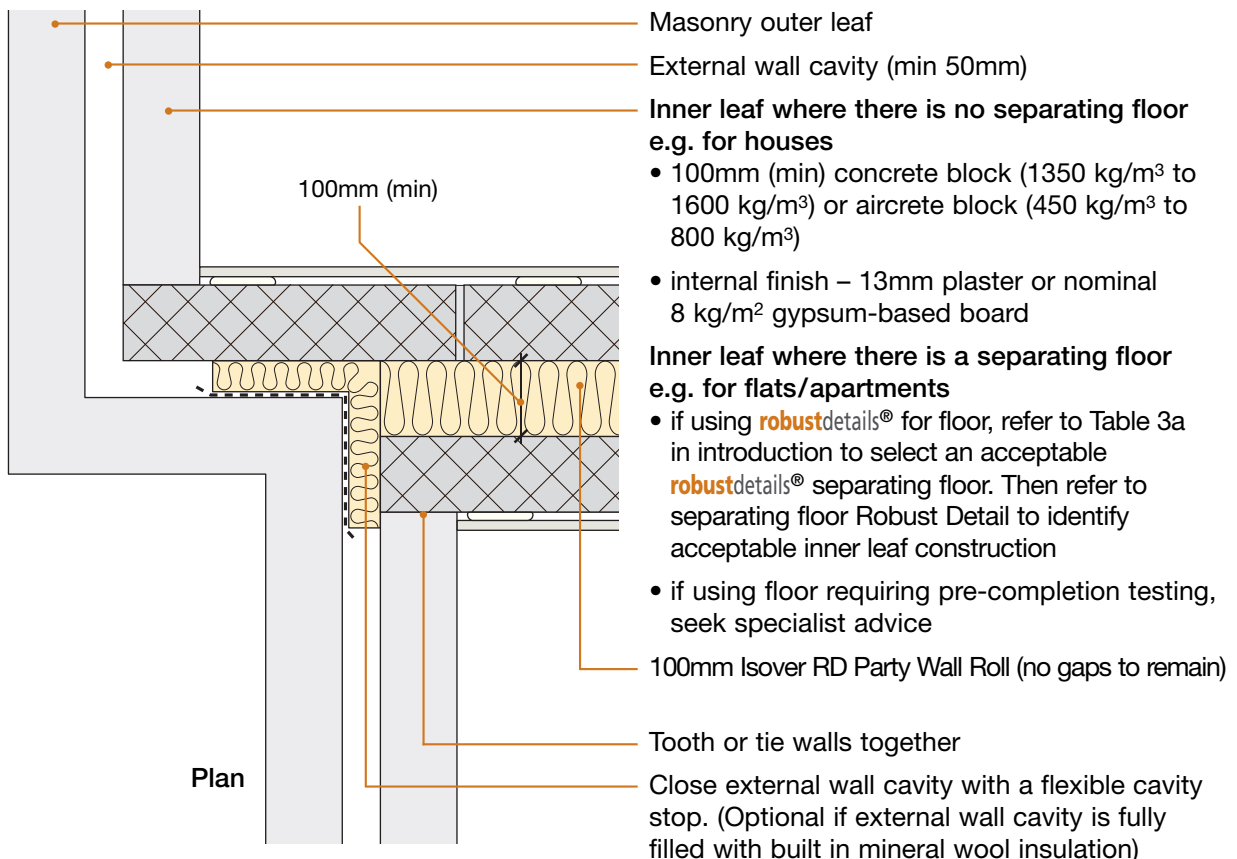
- Inner leaf where there is no separating floor e.g. for houses
  - 100mm (min) concrete block (1350 kg/m<sup>3</sup> to 1600 kg/m<sup>3</sup>) or aircrete block (450 kg/m<sup>3</sup> to 800 kg/m<sup>3</sup>)
  - internal finish – 13mm plaster or nominal 8 kg/m<sup>2</sup> gypsum-based board

### Inner leaf where there is a separating floor e.g. for flats/apartments

- if using **robustdetails**<sup>®</sup> for floor, refer to Table 3a in introduction to select an acceptable **robustdetails**<sup>®</sup> separating floor. Then refer to separating floor Robust Detail to identify acceptable inner leaf construction
- if using floor requiring pre-completion testing, seek specialist advice

Tooth or tie walls together

## 2. Staggered external (flanking) wall junction



- Inner leaf where there is no separating floor e.g. for houses
  - 100mm (min) concrete block (1350 kg/m<sup>3</sup> to 1600 kg/m<sup>3</sup>) or aircrete block (450 kg/m<sup>3</sup> to 800 kg/m<sup>3</sup>)
  - internal finish – 13mm plaster or nominal 8 kg/m<sup>2</sup> gypsum-based board

### Inner leaf where there is a separating floor e.g. for flats/apartments

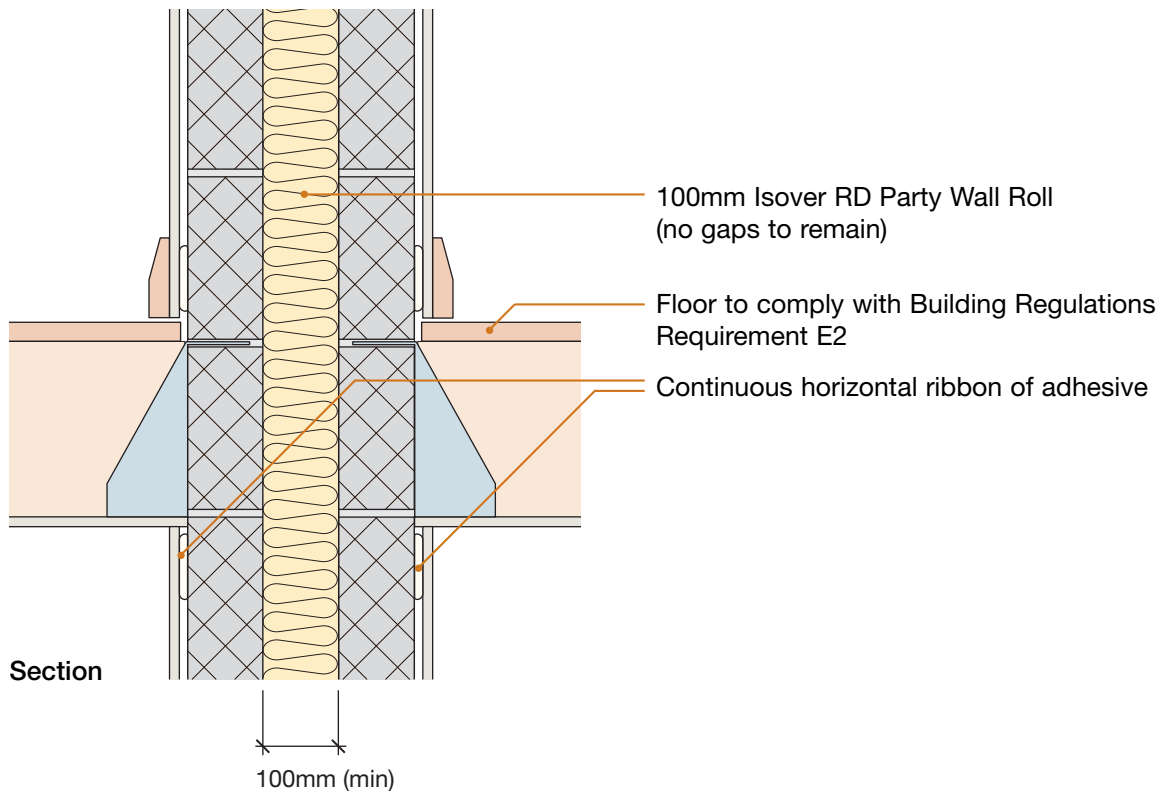
- if using **robustdetails**<sup>®</sup> for floor, refer to Table 3a in introduction to select an acceptable **robustdetails**<sup>®</sup> separating floor. Then refer to separating floor Robust Detail to identify acceptable inner leaf construction
- if using floor requiring pre-completion testing, seek specialist advice

100mm Isover RD Party Wall Roll (no gaps to remain)

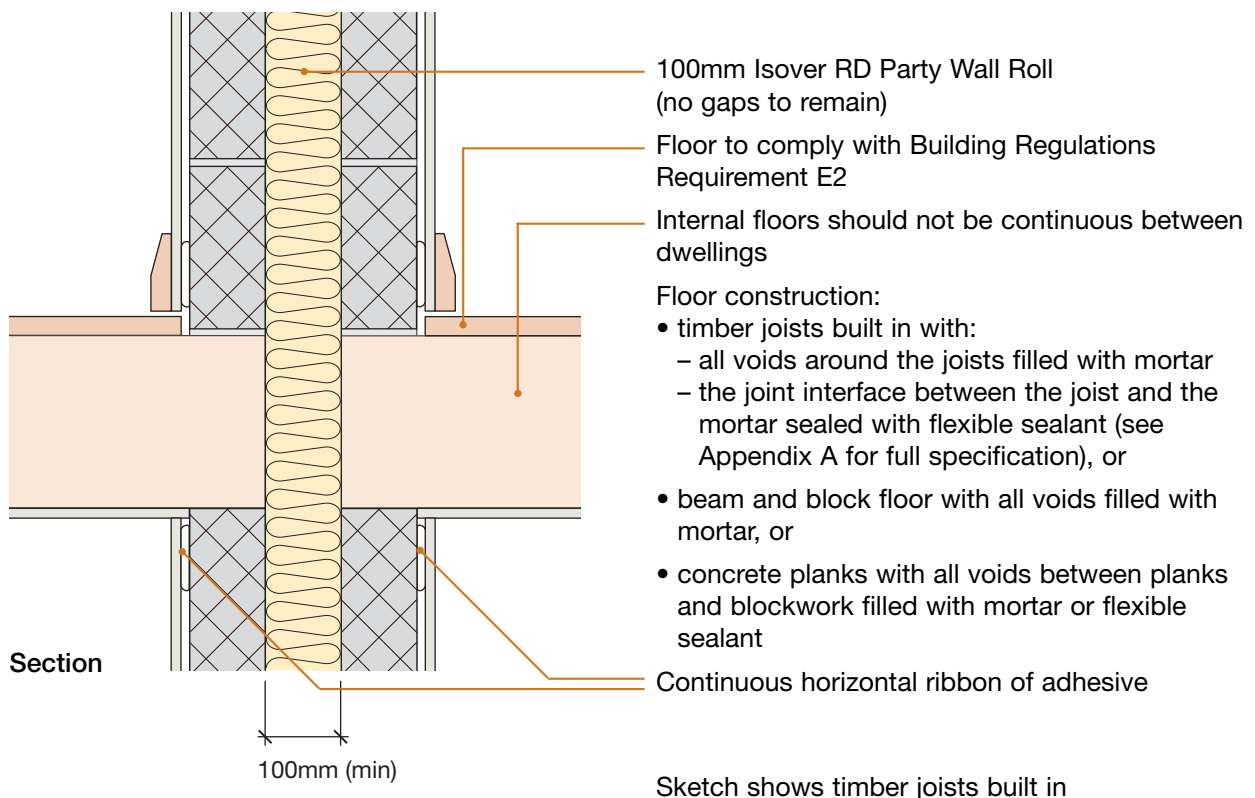
Tooth or tie walls together

Close external wall cavity with a flexible cavity stop. (Optional if external wall cavity is fully filled with built in mineral wool insulation)

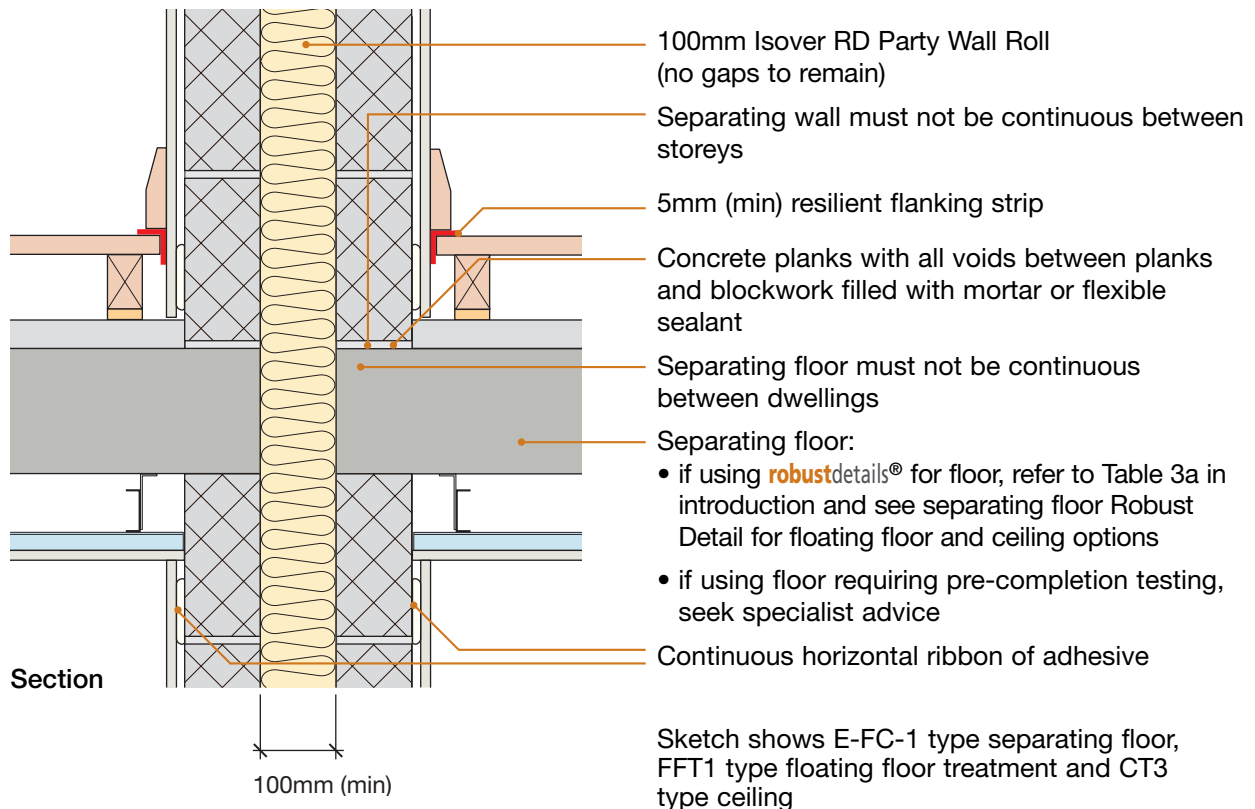
### 3. Internal floor junction: timber floor supported on joist hangers



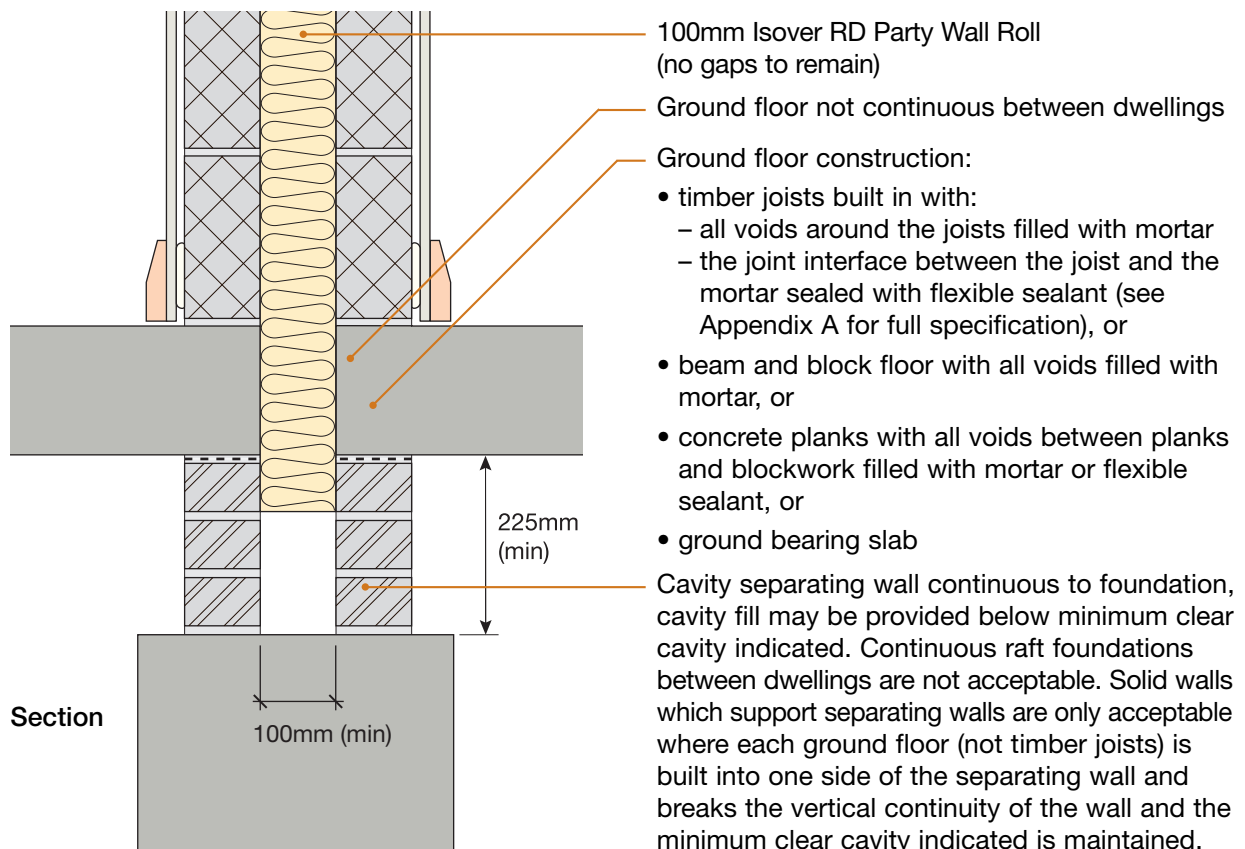
### 4. Internal floor junction: timber floor joists built in, beam and block or precast concrete



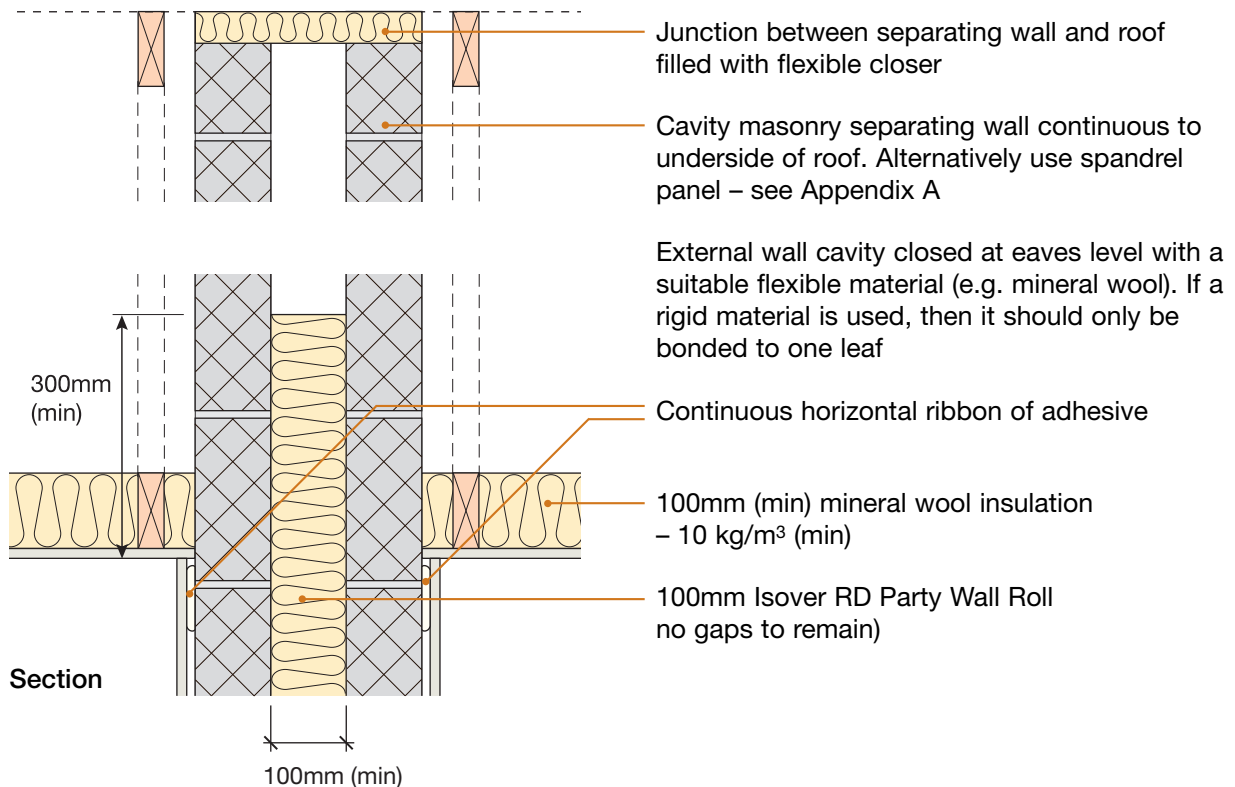
## 5. Separating floor junction



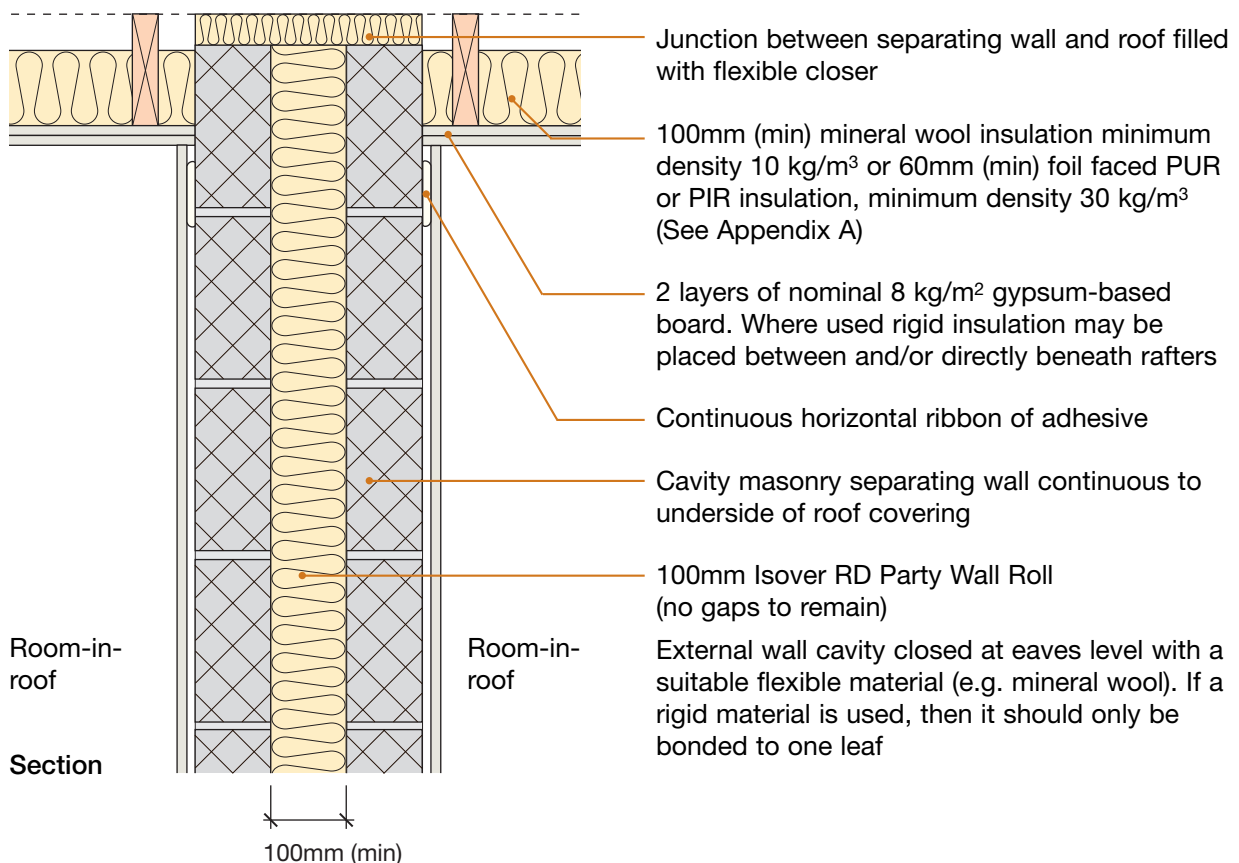
## 6. Ground floor junction: timber floor, beam and block, precast concrete plank, cast in-situ suspended concrete slab or ground bearing concrete slab



## 7. Roof junction – pitched roof without room-in-roof



## 8. Roof junction – pitched roof with room-in-roof



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

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

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

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

Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Is separating wall cavity at least 100mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Is external (flanking) wall cavity at least 50mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Are separating wall blocks lightweight aggregate (1350 to 1600 kg/m <sup>3</sup> )?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Is cavity free from droppings and debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Are separating wall ties to Approved Document E “Tie type A” (see Appendix A)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Are cavity stops installed where specified in the Robust Detail?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Are joints fully filled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Is 100mm RD Party Wall Roll used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Are insulation rolls tightly butted together?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	Are voids around floor joists, chases, etc. fully filled/sealed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Where there is a separating floor (e.g. flats/apartments) has the resilient flanking strip been installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
12.	Are all junctions of wall and ceiling boards sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
13.	Is separating wall satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

Contact details for technical assistance from Saint Gobain-Isover, manufacturer of RD Party Wall Roll:  
**Telephone: 01159 451143      Fax: 0844 5618816      E-mail: [isover.enquiries@saint-gobain.com](mailto:isover.enquiries@saint-gobain.com)**

**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.

# Appendix A2 – Specific Flanking Conditions

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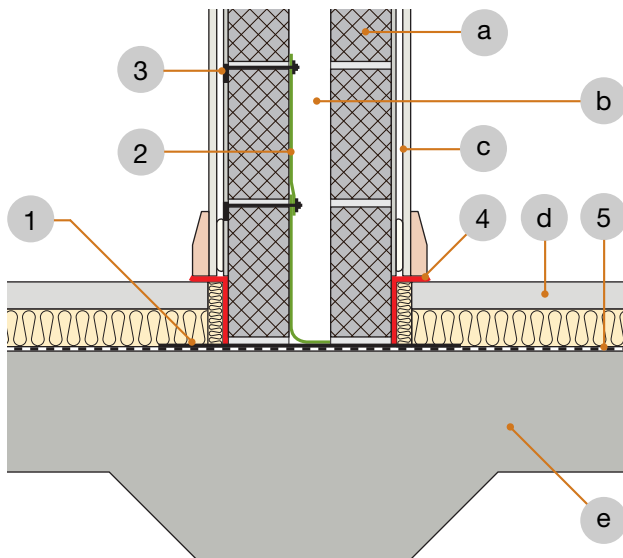
Section	Page
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Smartroof complete Interlocking “room-in-roof” panel system using <b>robustdetails</b> ® timber or masonry cavity walls	3
Kingspan TEK inner leaf flanking condition for <b>robustdetails</b> ® timber separating walls	4
Prestoplan PresPeak 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
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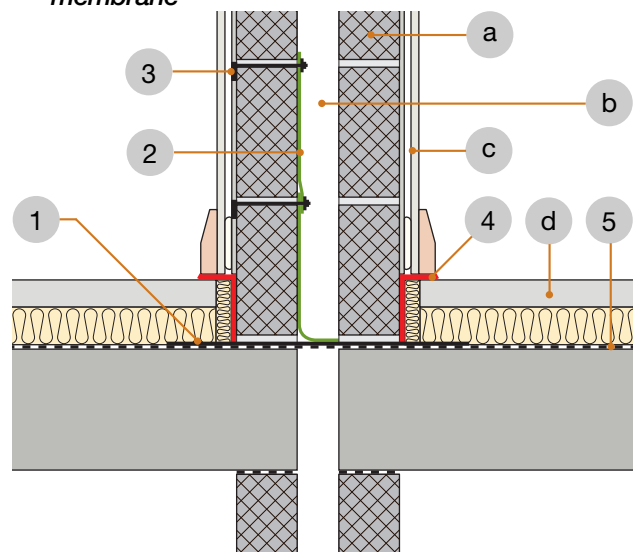
## Appendix A2 – Specific Flanking Conditions

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

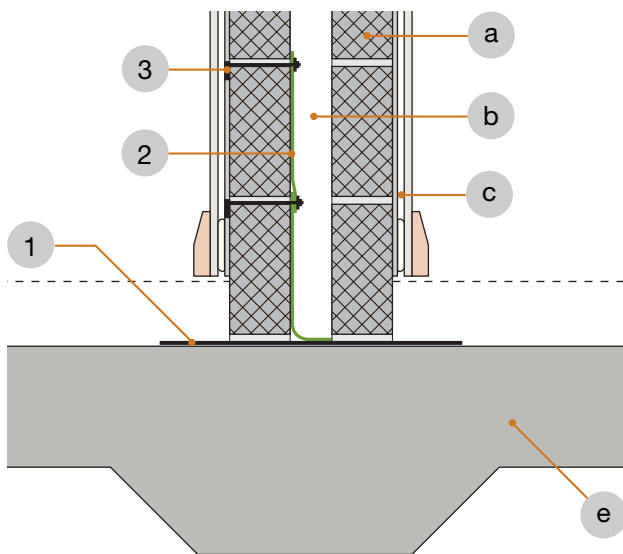
### 1. Separating wall – direct support on raft



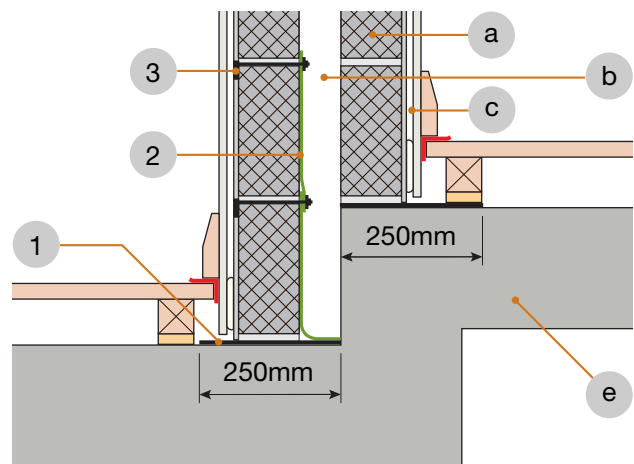
### 2. Separating wall – suspended floor with gas membrane



### 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**

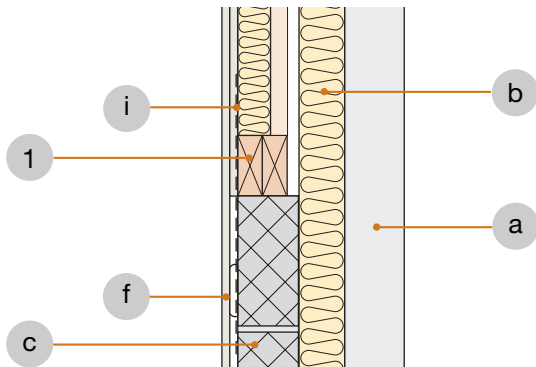
**E-mail: [acoustics.uk@icopal.com](mailto:acoustics.uk@icopal.com)**



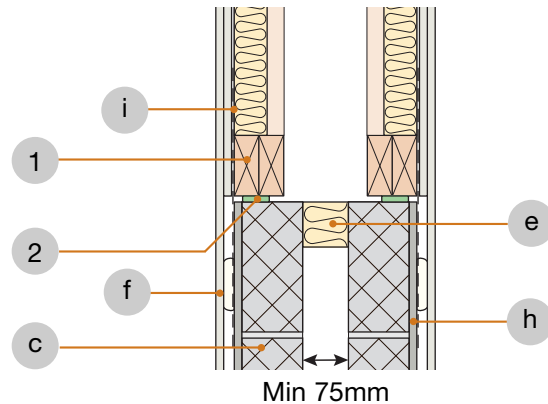
## Appendix A2 – Specific Flanking Conditions

Smartroof complete interlocking “room-in-roof” panel system using **robustdetails®** timber or masonry cavity walls. Refer to Table 6 in Introduction.

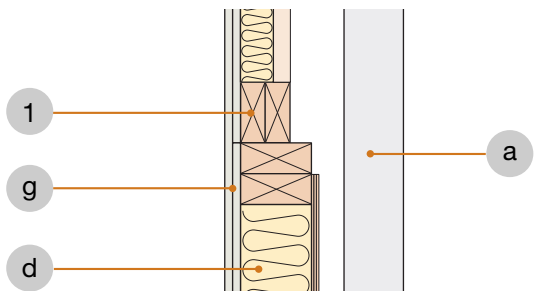
### 1. Gable flanking junction – masonry



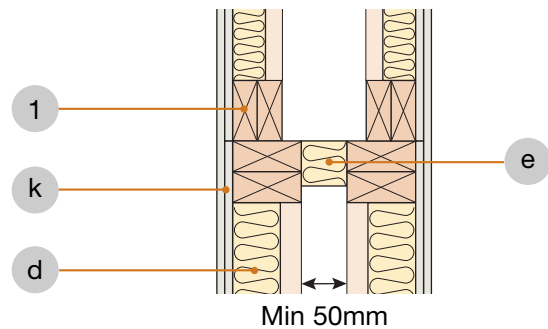
### 2. Room-in-roof junction with masonry cavity walls



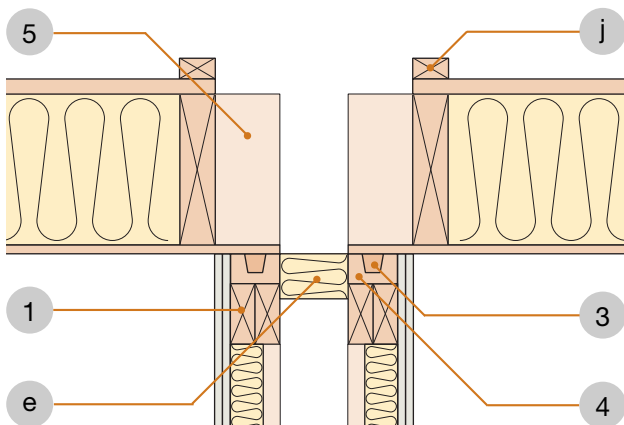
### 3. Gable flanking junction – timber frame



### 4. Room-in-roof junction with timber frame cavity walls



### 5. Separating wall – roof junction



#### Key

- 1 Smartroof panel.
- 2 Smartroof thin-joint compressed foam to take up unevenness in blockwork.
- 3 Smarttongue 35 x 72mm.
- 4 Smartchannel.
- 5 Smartroof roof panel.

- a Outer leaf of external wall.
- b Continue cavity batts up to gable end if required.
- c Minimum 100mm blockwork.
- d Timber frame inner leaf.
- e Cavity closer.
- f Gypsum-based board dependent on Robust Detail being used.
- g Gypsum-based board nominal 8 kg/m<sup>2</sup>. 2 layers required where separating floors are used (refer to **robustdetails®** separating floor).
- h Nominal 8mm render coat (refer to relevant **robustdetails®** separating wall).
- i Vertical metal straps at 1200mm centres if required.
- j 35 x 50mm counterbatten.
- k 2 layers gypsum-based board total nominal 22 kg/m<sup>2</sup>.

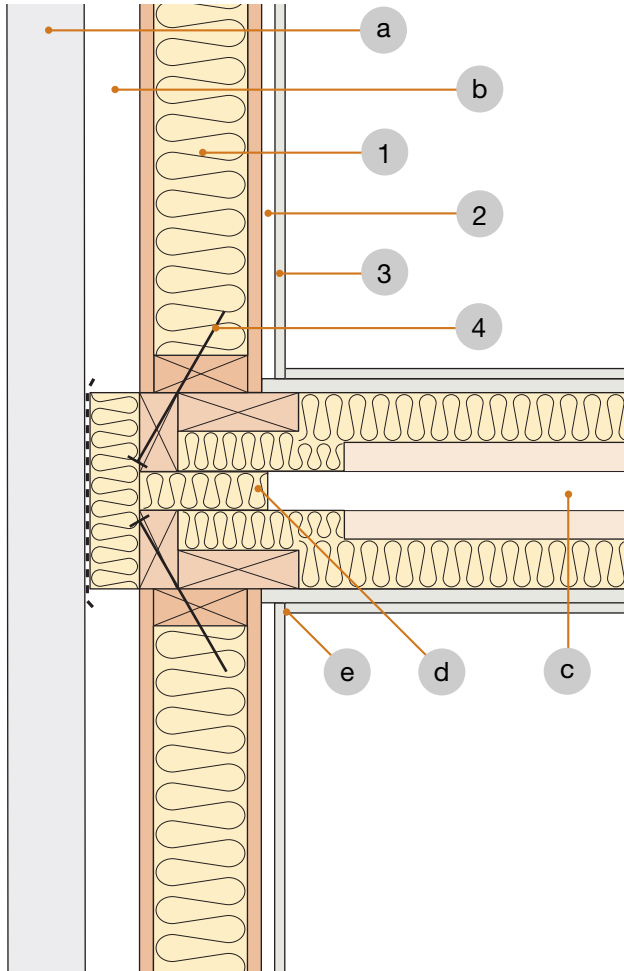
Contact details for smartroof Limited:

**Telephone: 01675 44 23 45**  
**Fax: 01675 44 30 95**  
**E-mail: [info@smartroof.co.uk](mailto:info@smartroof.co.uk)**  
**Web: [www.smartroof.co.uk](http://www.smartroof.co.uk)**

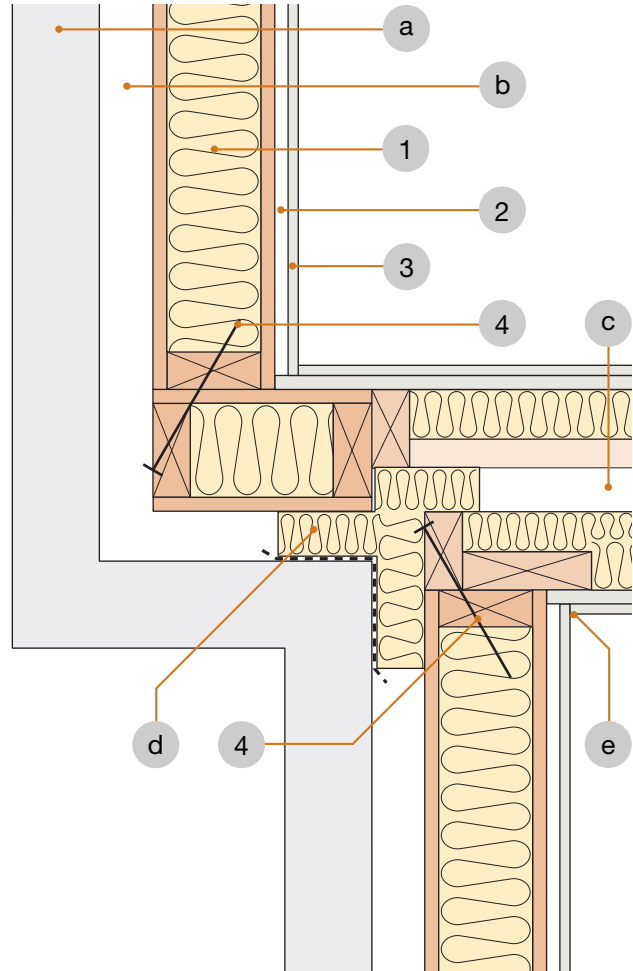
## Appendix A2 – Specific Flanking Conditions

Kingspan TEK inner leaf flanking condition for **robustdetails®** timber separating walls. Refer to Table 6 in Introduction. *Currently when used with separating floors in apartments, separating floors will require pre-completion testing.*

### 1. External (flanking) wall junction



### 2. Staggered external (flanking) wall junction



#### Key

- 1 Kingspan TEK – 142 Panel.
- 2 Service void (if required).
- 3 One layer of gypsum-based board nominal 8 kg/m<sup>2</sup> on inner leaf where there is no separating floor, e.g. for houses.  
Two layers of gypsum-based board nominal 8 kg/m<sup>2</sup> each on inner leaf where there is a separating floor (non-**robustdetails®** floor), e.g. for flats and apartments.
- 4 Approved fixings to TEK BBA Cert No. 02/S029.

- a Masonry outer leaf (min 100mm thick).
- b External wall cavity (min 50mm).
- c **robustdetails®** timber frame separating wall. (Refer to Table 6 in Introduction and relevant timber frame Robust Details in Handbook).
- d Close cavity with flexible cavity stop (see Appendix A).
- e Seal all joints with tape or caulk with sealant.

Contact details for Kingspan TEK,  
Kingspan Insulation Limited:

**Telephone: 01544 387382**

**Fax: 01544 387482**

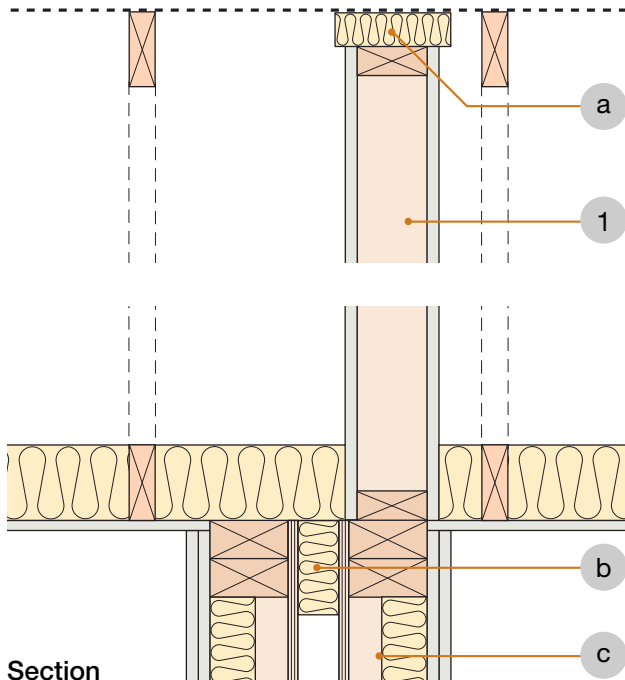
**E-mail: [technical.uk@tek.kingspan.com](mailto:technical.uk@tek.kingspan.com)**

**Web: [www.tek.kingspan.com](http://www.tek.kingspan.com)**

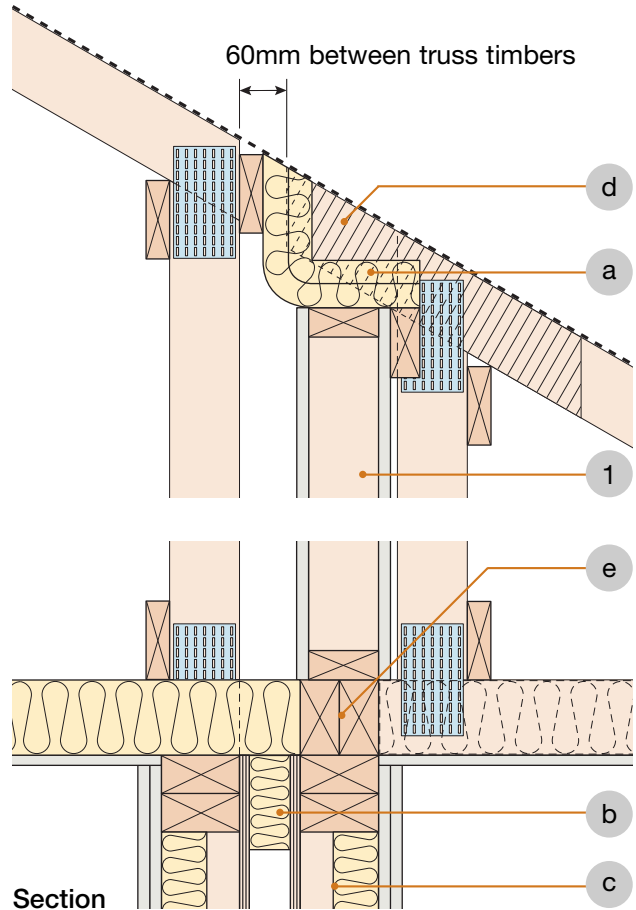
## Appendix A2 – Specific Flanking Conditions

Prestoplan PresPeak 60 interlocking single spandrel panel system for use on **robustdetails®** timber separating walls in non room-in-roof situations.  
Refer to Table 6 in Introduction.

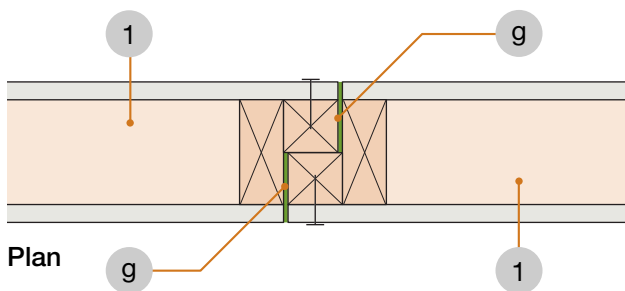
### 1. Spandrel panel located parallel to trussed rafters



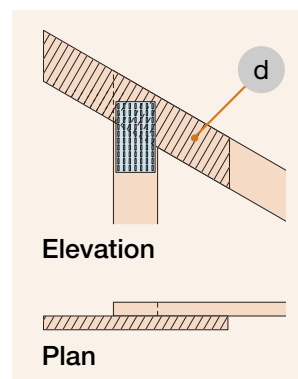
### 2. Spandrel panel located across trussed rafters



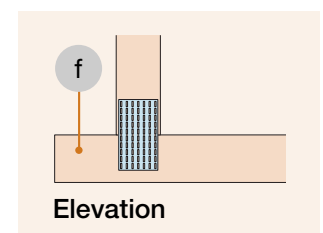
### 3. Spandrel panel joint detail



#### Top chord detail



#### Bottom chord detail



#### Key

- 1 PresPeak 60 spandrel panels.
- a Firestop wired mineral wool closer.
- b Flexible cavity stop.
- c Timber frame separating wall.
- d Site-fixed rafter extension.
- e Continuous blocking between bottom chords of trusses.
- f Bottom chord extended for support.
- g Intumescent tape.

Refer also to manufacturer's guidance

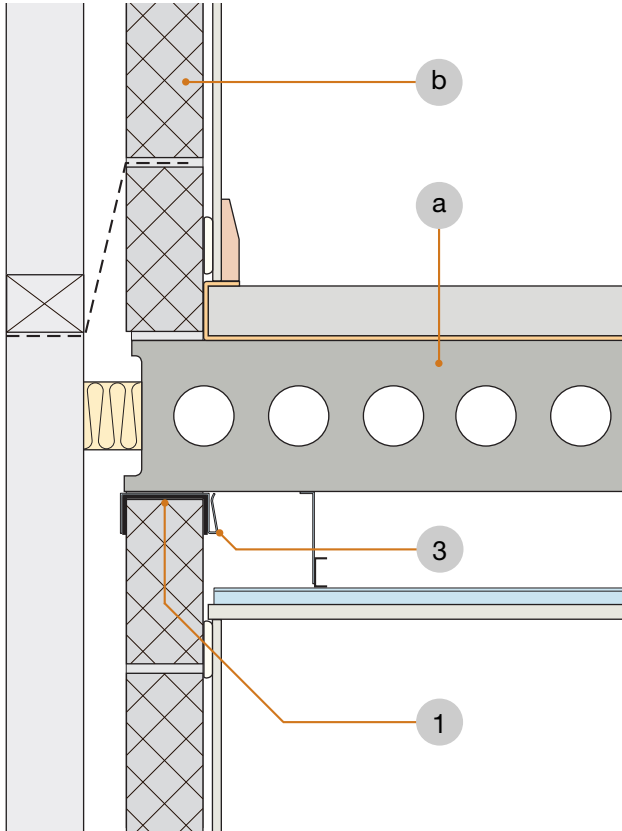
Contact details for Prestoplan Limited:

**Telephone: 01772 627373**  
**Fax: 01772 627575**  
**Web: [www.prestoplan.co.uk](http://www.prestoplan.co.uk)**

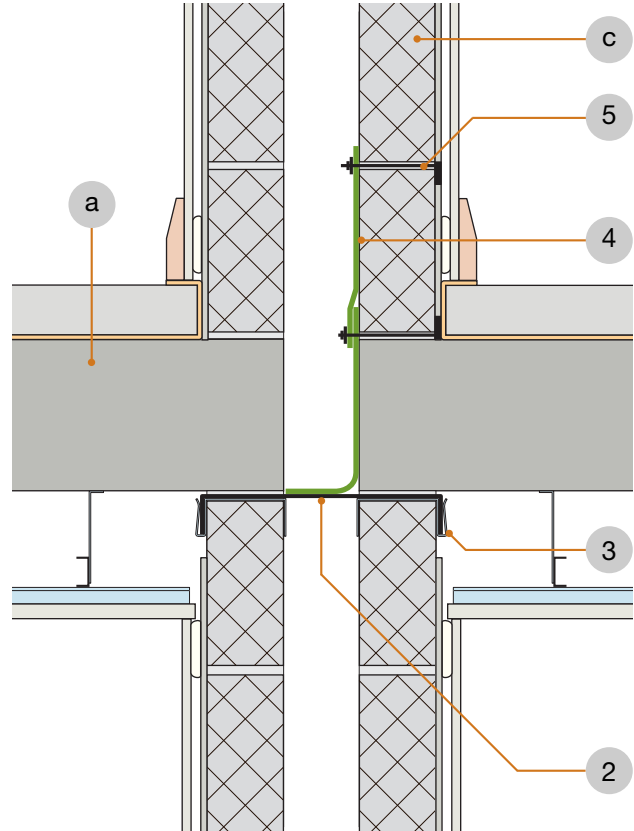
## Appendix A2 – Specific Flanking Conditions

Icopal-MONARFLOOR® Wall Cap RDA2 System for **robustdetails®** separating floors in conjunction with cavity walls. Refer to Table 6 in Introduction.

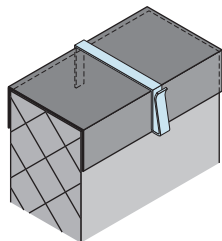
### 1. External (flanking) wall junction



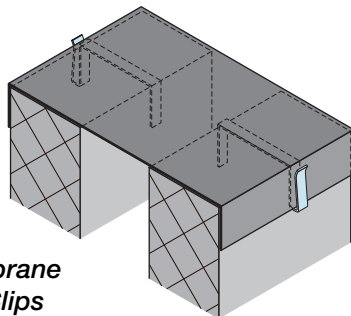
### 2. Separating wall junction



Wall Cap 200  
and Wall Cap Clip



Wall Cap RDA2 Membrane  
and Wall Cap RDA2 Clips



#### Key

- 1 3.5mm MONARFLOOR® Wall Cap 200 laid as continuous layer on external (flanking) wall.
  - 2 3.5mm MONARFLOOR® Wall Cap RDA2 Membrane laid as continuous layer on separating wall.
  - 3 Wall Cap RDA2 Clips.
  - 4 MONARFLOOR® RDA2 Quilt in two lifts to prevent mortar droppings touching both masonry leaves.
  - 5 MONARFLOOR® RDA2 Tie to penetrate at max 450mm centres. Ties are reversible and may also be used as render depth gauges.
- a **robustdetails®** separating floor. Refer to Table 6 in Introduction.
- b External (flanking) wall. Refer to floor Robust Detail for specification.
- c Separating wall. If using **robustdetails®** separating wall refer to Table 3a in Introduction.

When applying this system to forms of construction other than masonry, please refer to manufacturer's installation guides. Note: In these cases, not all components shown above may be required.

Contact details for Icopal-MONARFLOOR®:

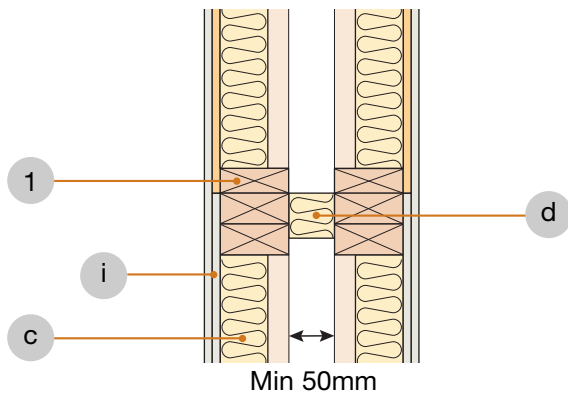
**Telephone: 0161 866 6540**  
**Fax: 0161 865 8433**  
**E-mail: [acoustics.uk@icopal.com](mailto:acoustics.uk@icopal.com)**

The trade marks MONARFLOOR and Wall Cap are the subject of UK trade mark registrations owned by Icopal Limited

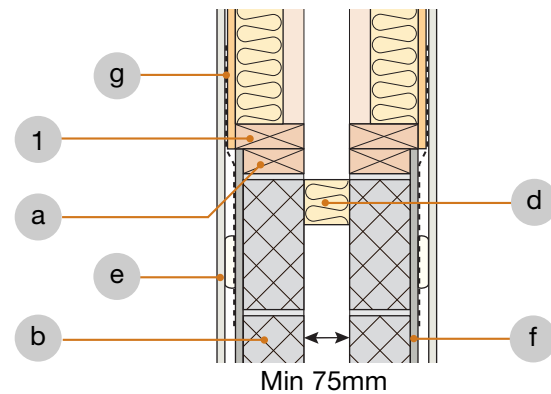
## Appendix A2 – Specific Flanking Conditions

RoofSpace I-Roof™ “room-in-roof” panel system using robustdetails® timber or masonry cavity walls. Refer to Table 6 in Introduction.

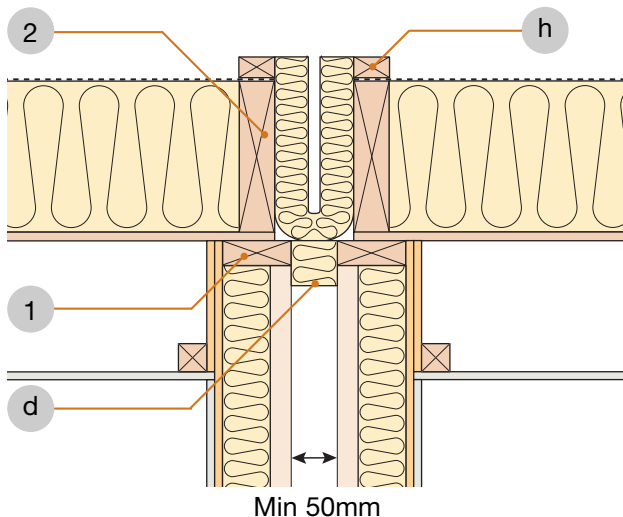
### 1. Room-in-roof junction with timber frame cavity walls



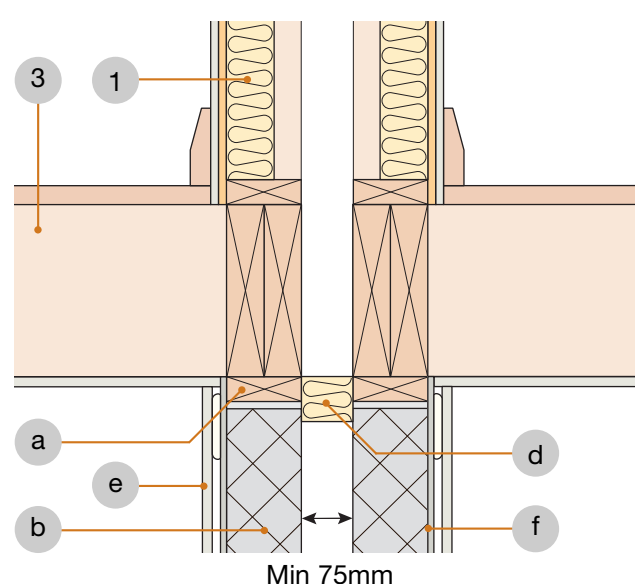
### 2. Room-in-roof junction with masonry cavity walls



### 3. Separating wall – roof junction



### 4. Internal floor cassette junction option



#### Key

- 1 RoofSpace I-Roof™ spandrel panel.
- 2 RoofSpace I-Roof™ roof panel.
- 3 RoofSpace internal floor cassette.
- a Timber wall plate bedded on 10mm mortar bed to take out unevenness in blockwork.
- b Minimum 100mm blockwork.
- c Timber frame separating wall leaf.
- d Cavity closer.
- e Gypsum-based board dependent on Robust Detail being used.
- f Nominal 8mm render coat (refer to relevant robustdetails® separating wall).
- g Vertical metal straps at 1200mm centres if required.
- h 25 x 38mm counterbatten.
- i 2 layers gypsum-based board total nominal 22 kg/m<sup>2</sup>.

#### Spandrel panel cavity insulation (optional)

The cavity between the spandrel panels may be insulated with mineral wool rolls or batts with a density of 18–40 kg/m<sup>3</sup>. Ensure insulation thickness is no greater than 10mm wider than cavity width to avoid excessive compression of the insulation.

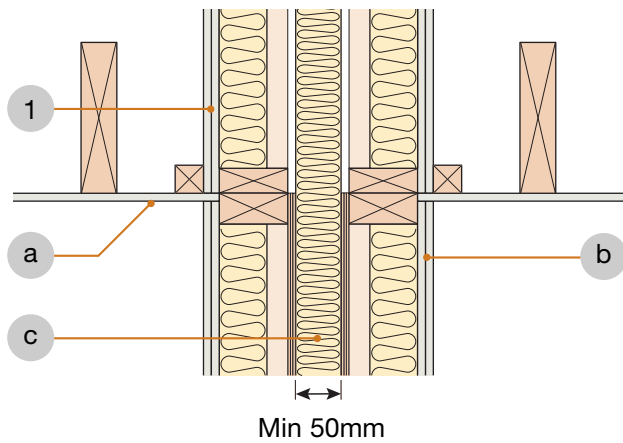
Contact details for SIG RoofSpace:

**Telephone: 01789 209 006**  
**Fax: 01789 292 858**  
**E-mail: [technical@sigroofspace.co.uk](mailto:technical@sigroofspace.co.uk)**  
**Web: [www.sigroofspace.co.uk](http://www.sigroofspace.co.uk)**

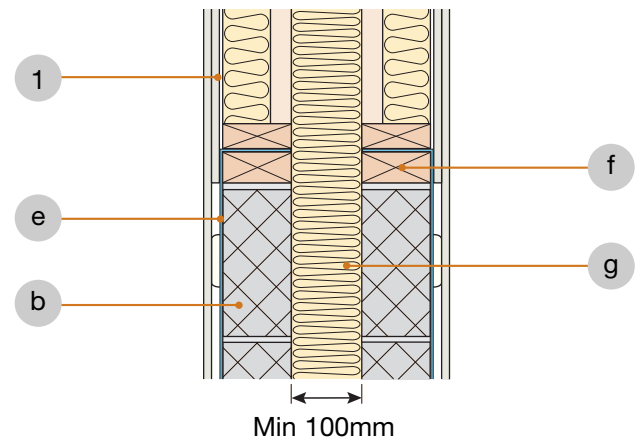
## Appendix A2 – Specific Flanking Conditions

Space4 “room-in-roof” panel system using **robustdetails**<sup>®</sup> timber or masonry cavity walls. Refer to Table 6 in Introduction.

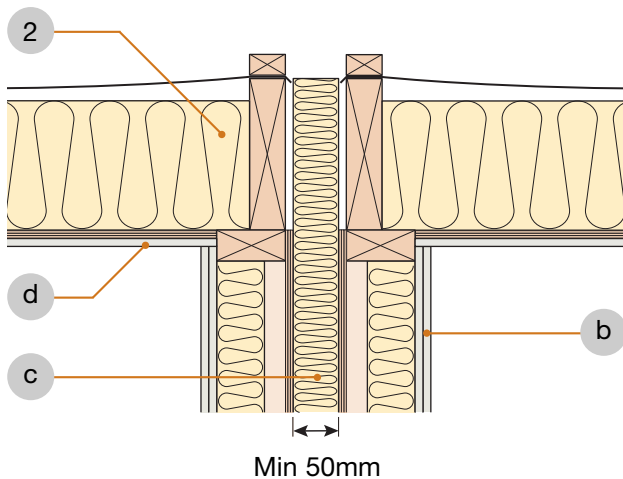
### 1. Non room-in-roof spandrel panel to timber separating wall junction



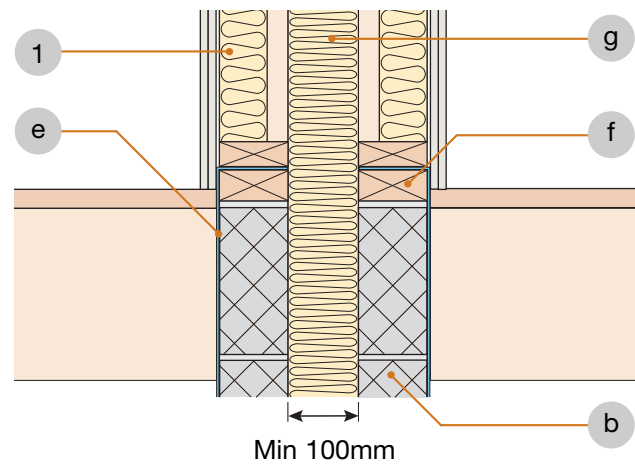
### 2. Spandrel panel to masonry separating wall junction



### 3. Roof cassette to timber separating wall junction for room-in-roof



### 4. Internal floor junction for room-in-roof



#### Key

- 1 Space4 spandrel panel.
- 2 Space4 roof cassette.
- a Minimum 1 layer nominal 8 kg/m<sup>2</sup> gypsum-based board to ceiling.
- b **robustdetails**<sup>®</sup> separating wall.
- c Mineral wool 18-40 kg/m<sup>3</sup>.
- d OSB underdraw overlaid with minimum 1 layer gypsum-based board nominal 16 kg/m<sup>2</sup> total.
- e Vertical metal straps at 1200mm centres if required.
- f Wall plate fully bedded on mortar with no gaps.
- g Mineral wool 12-25 kg/m<sup>3</sup>.

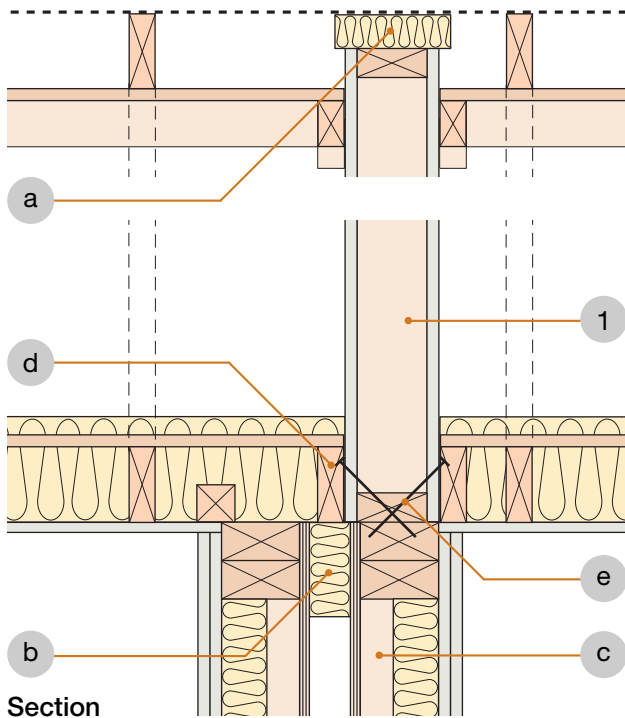
Contact details for Space4:

**Telephone: 0121 748 8383**  
**Fax: 0121 776 7369**  
**E-mail: [technical@space4.co.uk](mailto:technical@space4.co.uk)**  
**Web: [www.space4.co.uk](http://www.space4.co.uk)**

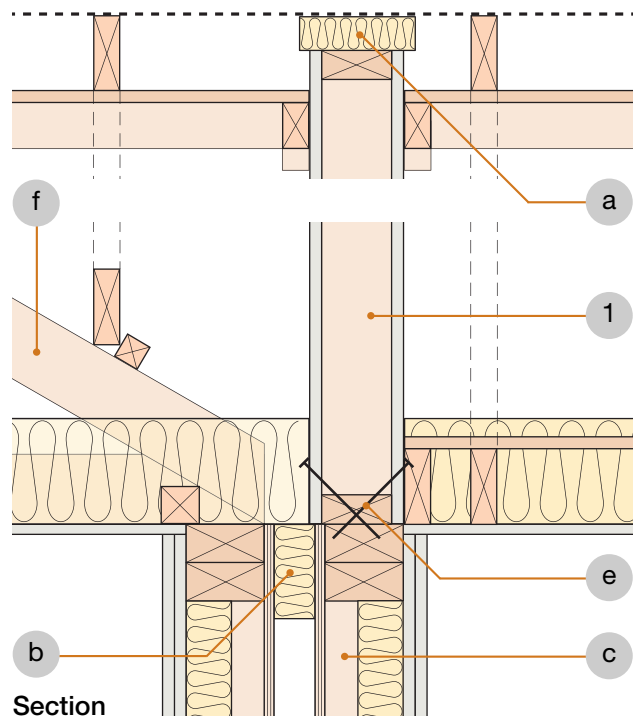
## Appendix A2 – Specific Flanking Conditions

Stewart Milne Timber Systems Sigma® Roof Spandrel Panel System for use on **robustdetails®** timber separating walls in non room-in-roof situations. Refer to Table 6 in Introduction.

### 1. Spandrel panel located parallel to trussed rafters

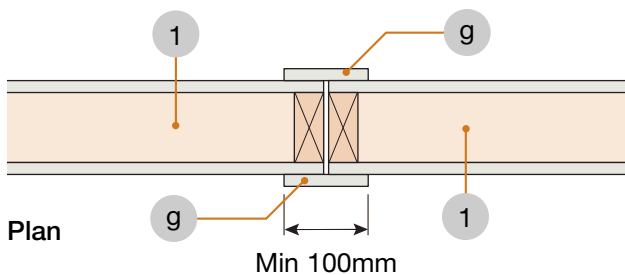


### 2. Spandrel panel located across trussed rafters



### 3. Spandrel panel joint detail

Panels secured together using angled screw fixings



#### Key

- 1 Stewart Milne Timber Systems Sigma® Roof Spandrel Panel System.
- a Mineral wool closer.
- b Flexible cavity stop.
- c Timber frame separating wall.
- d Site-fixed runners must not contact both wall leaves.
- e Angled screw fixings to secure spandrel to wall head.
- f Trusses and rafters must not contact both wall leaves.
- g Gypsum board cover strip.

Refer also to manufacturer's guidance

Contact details for  
Stewart Milne Timber Systems Limited:

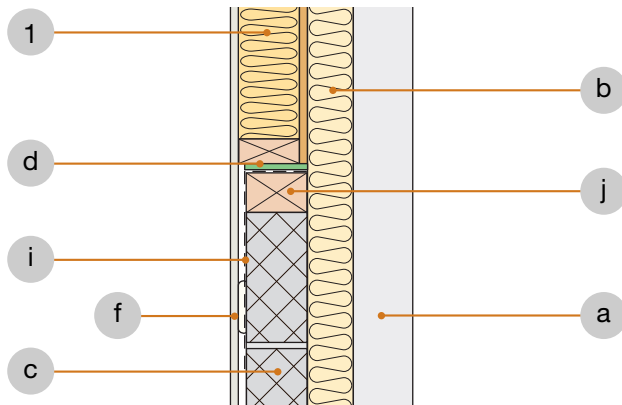
**Telephone: 01865 303900**  
**Fax: 01865 303999**  
**Email: [smts@stewartmilne.com](mailto:smts@stewartmilne.com)**  
**Web: [www.stewartmilne.com](http://www.stewartmilne.com)**



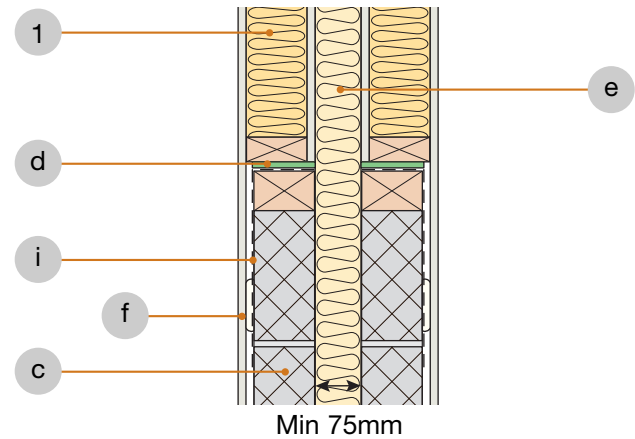
## Appendix A2 – Specific Flanking Conditions

**NYTROOF RAPID FIT SYSTEM** for **robustdetails®** masonry cavity walls for “room-in-roof” situations. Refer to Table 6 in Introduction.

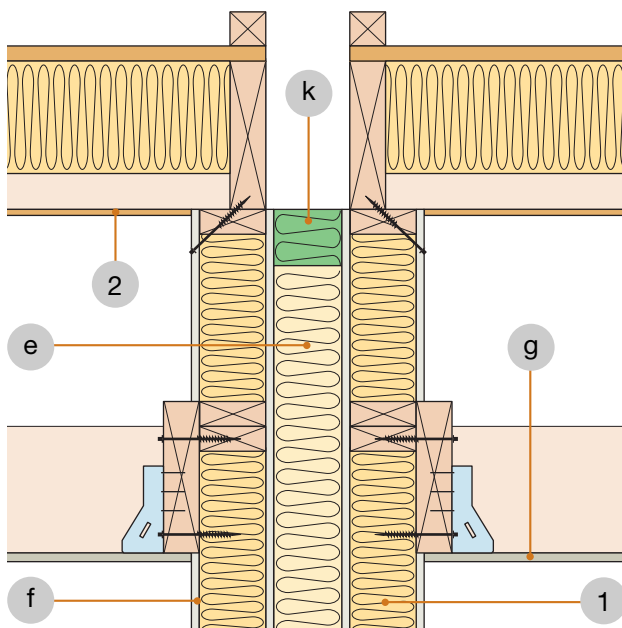
### 1. Gable flanking junction – masonry



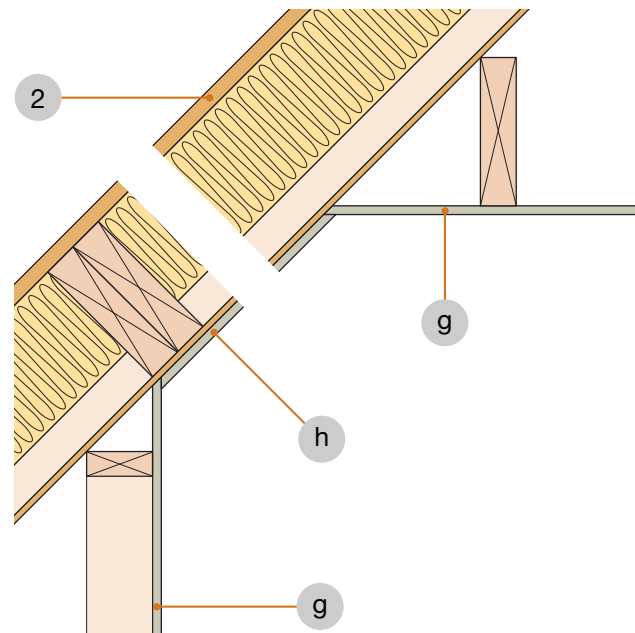
### 2. Room-in-roof junction with masonry cavity walls



### 3. Separating wall – roof junction



### 2. Room-in-roof lining requirements



#### Key

- a Outer leaf of external wall.
- b Continue cavity batts up to gable end if required.
- c Blockwork dependent on Robust Detail used.
- d Intumescent sealant.
- e Cavity insulation dependent on Robust Detail used.
- f Gypsum-based board (nominal 10 kg/m<sup>2</sup>).
- g Gypsum-based board (nominal 8 kg/m<sup>2</sup>)
- h Min. 1 layer gypsum-based board (nominal 10 kg/m<sup>2</sup>).
- i Vertical metal straps if required. Straps must not extend into the cavity.
- j Wall plate bedded on mortar, notched to take straps.
- k Cavity closer.

- 1 NYTROOF spandrel panel.
- 2 NYTROOF roof cassette.

Contact details for NYTimber:

**Telephone: 01609 751111**

**Fax: 01609 788388**

**E-mail: [grayden@nytimber.co.uk](mailto:grayden@nytimber.co.uk)**

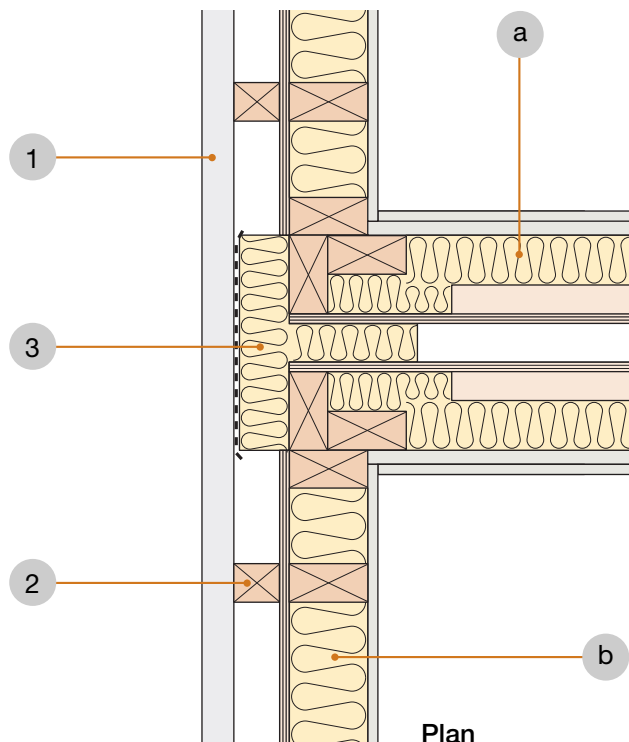
**Web: [www.nytimber.co.uk/](http://www.nytimber.co.uk/)**



## Appendix A2 – Specific Flanking Conditions

Lightweight external cladding treatments for **robustdetails®** timber separating walls. Refer to Table 6 in Introduction. *Currently when used with separating floors in apartments, separating floors will require pre-completion testing.*

### External (flanking) wall junction



#### Key

- 1 Cladding system (see Table below).
- 2 Cladding support rails (timber or metal).  
Horizontal rails fixed directly to the wall structure must not be continuous across the separating wall.
- 3 Flexible cavity closer to fully close the cavity behind the cladding.
- a Separating wall. See chosen Robust Detail for specification.
- b Inner leaf of external wall. See chosen Robust Detail for specification.

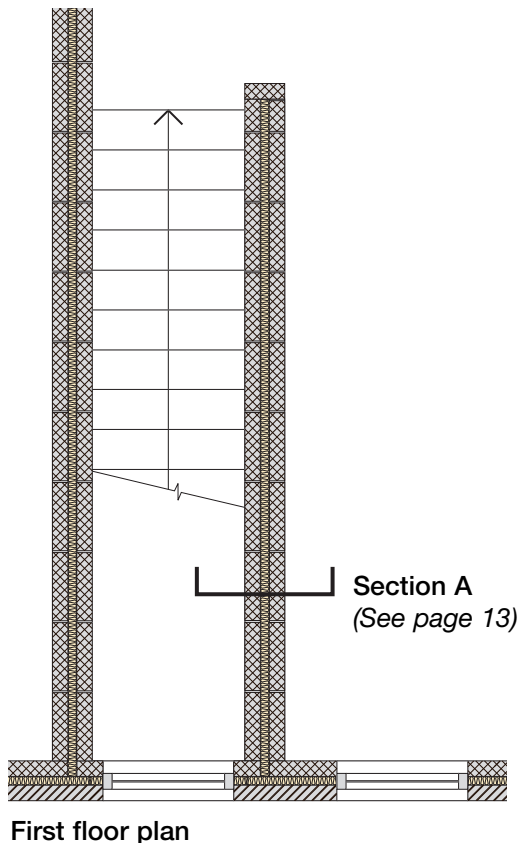
#### Acceptable cladding types

Render board	Systems having minimum 9mm rigid render board with minimum mass per unit area of 12.4 kg/m <sup>2</sup> . It is acceptable to have multiple board layers.
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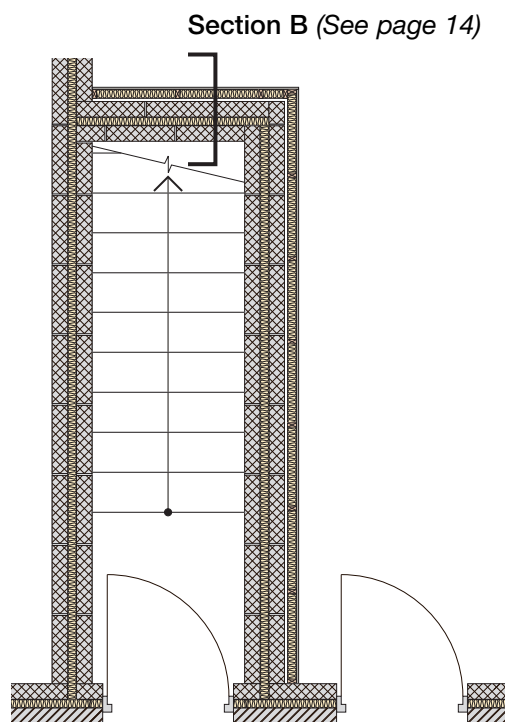
## Appendix A2 – Specific Flanking Conditions

Flanking construction guidance for **robustdetails**® precast concrete separating floors around private stairs, where there are two flats (one above the other) and where stairs being open to the upper flat prevents the flanking condition published in the floor Robust Detail from being fully constructed. See Table 6b in the Introduction.

### Typical stair arrangement

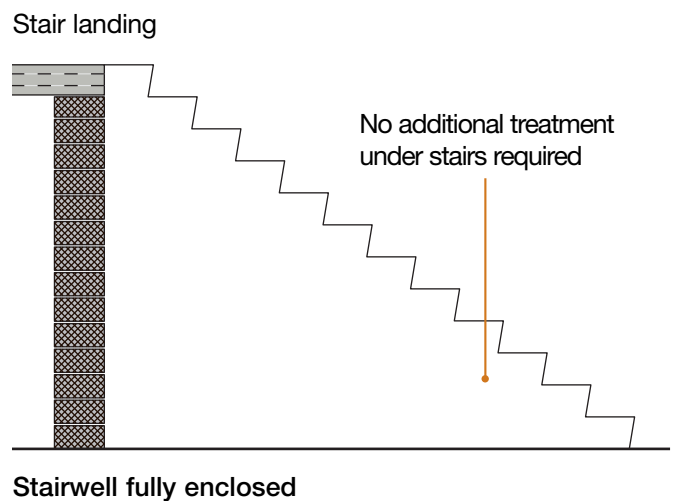
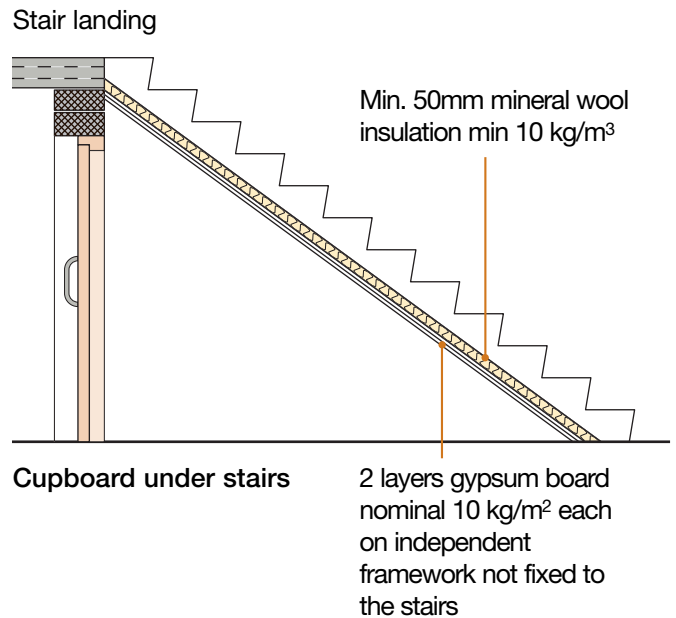


First floor plan



Ground floor plan

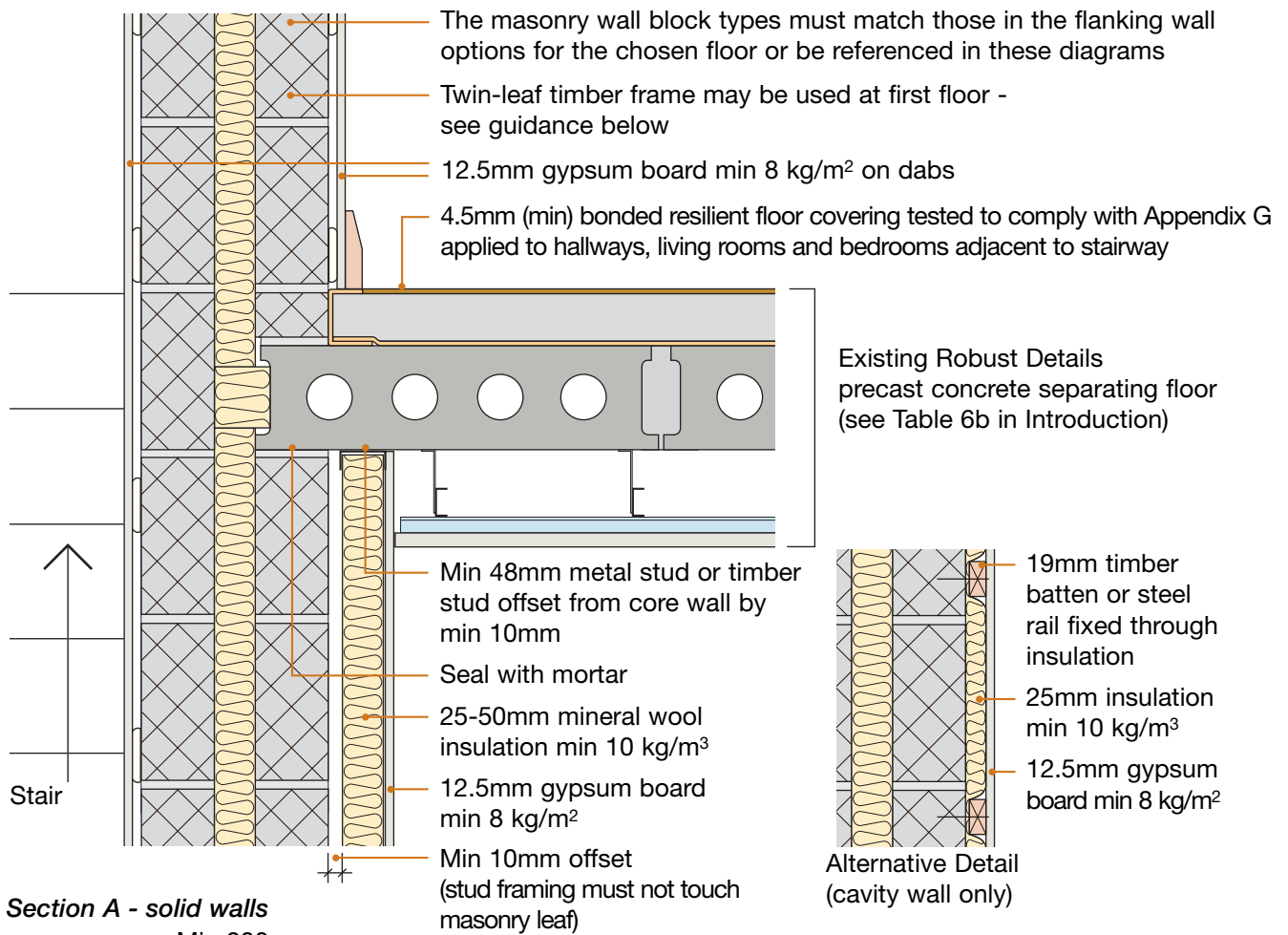
### Stair soffit treatment - applies to both timber and concrete stairs



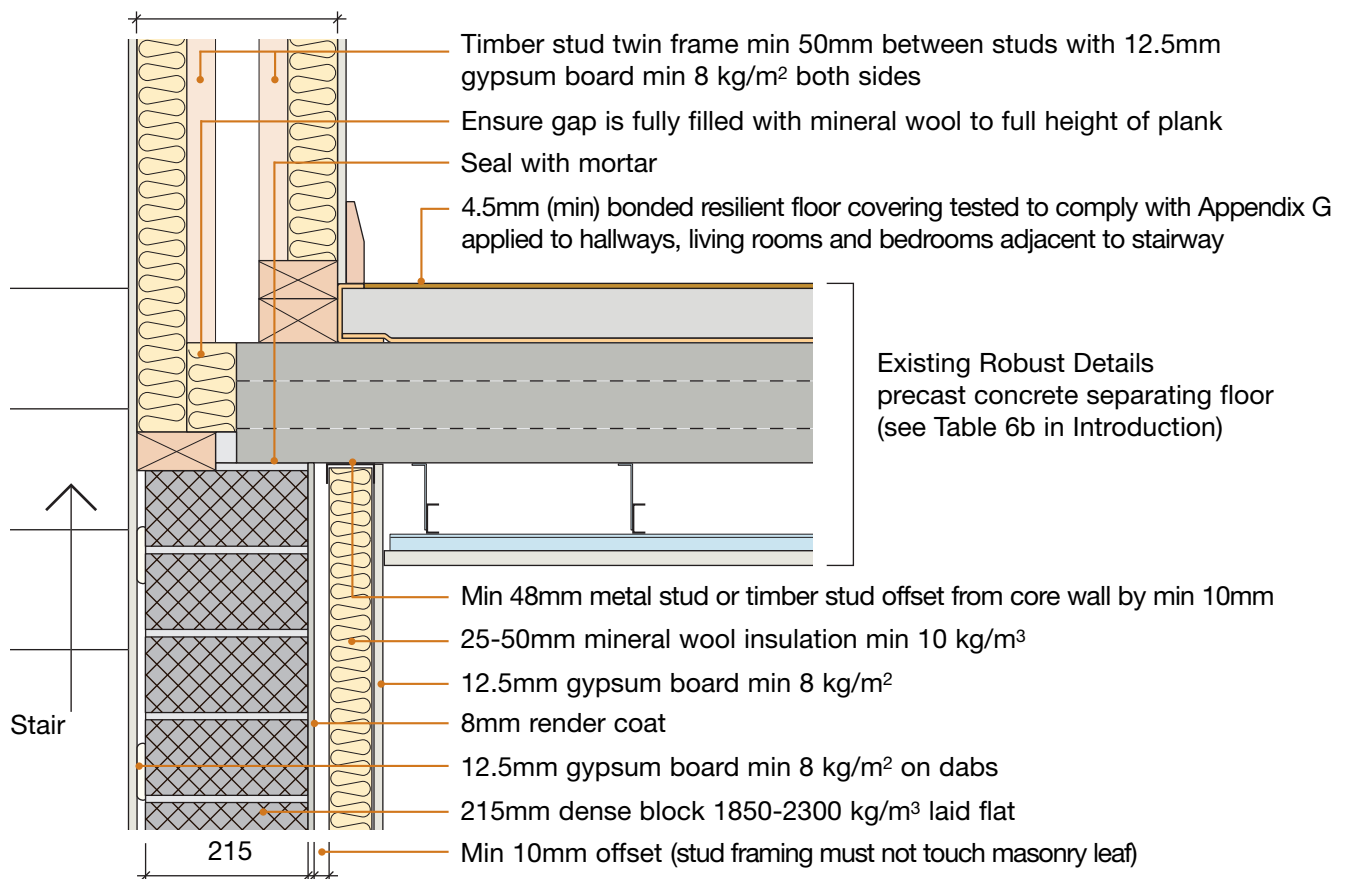
The area under the stairs must either form a cupboard or be fully enclosed. It is not acceptable to have the stairs soffit within a habitable room.

# Appendix A2 – Specific Flanking Conditions

## Section A - cavity walls

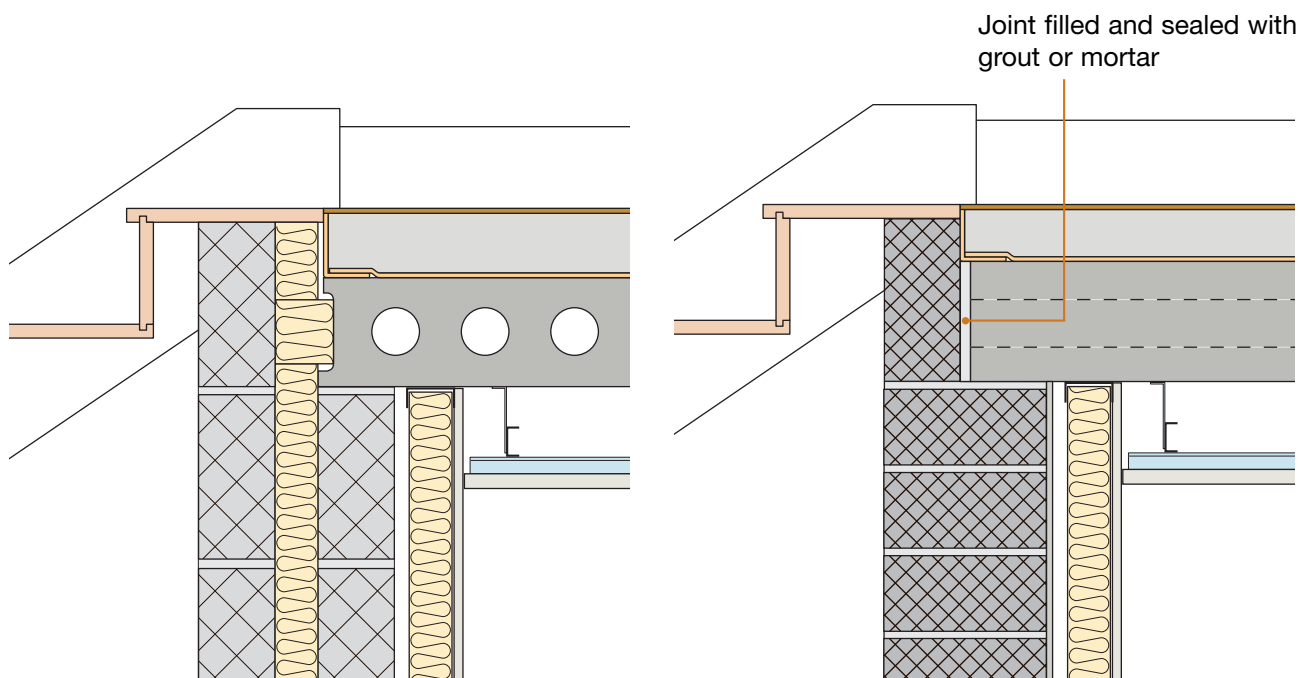


## Section A - solid walls Min 200



## Appendix A2 – Specific Flanking Conditions

### Section B - common junctions at stair landing Timber stairs



### Section B - common junctions at stair landing Concrete stairs

