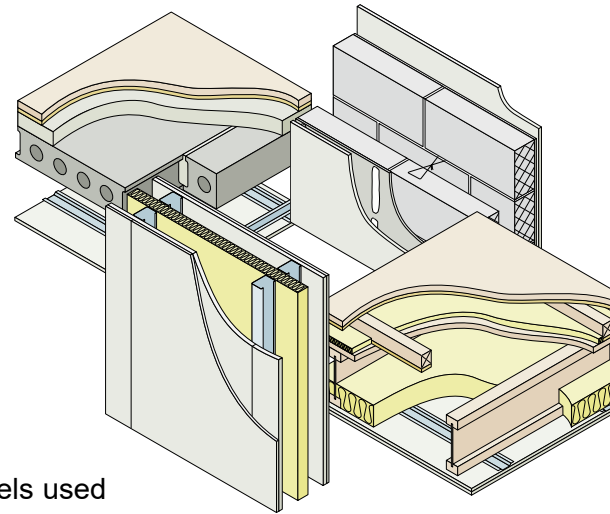


## April 2022 Update Pack



Dear Colleague,

Thank you for downloading this April update, the first of 2022.

This update brings one specification change, in that the spandrels used in conjunction with E-WM-31 can now be lined with a single layer of Fermacell as an alternative to the 2 layers of gypsum board.

There are also a number of product name changes also made: Elecoframe's E-WT-3 is now manufactured under the Openwall name, and two flanking conditions in Appendix A2 are also being produced under different names: Stewart Milne Timber Systems Sigma® Roof Spandrel Panel System now comes from Donaldson Timber Systems; and **NYTROOF RAPID FIT SYSTEM** has been rebranded and is provided by **NTSROOF**.

And additionally, we have restructured the text relating to putty pads in the light-frame walls to give added clarity on their purpose.

### **Please update your October 2021, 4th Edition Handbook as follows:**

1. Remove and replace **pages 3/4** and **9/10** of the Introduction.
2. Remove and replace **page 5/6** of E-WM-31.
3. Remove and replace **page 7/8** of E-WT-1.
4. Remove and replace **page 7/8** of E-WT-2.
5. Remove and replace **all pages** of E-WT-3.
6. Remove and replace **page 5/6** of E-WT-4.
7. Remove and replace **page 5/6** of E-WS-1.
8. Remove and replace **page 7/8** of E-WS-2.
9. Remove and replace **page 9/10** of E-WS-5.
10. Remove and replace **pages 1/2** and **9/10** 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 April 2022 update

Section Page Amendment

## Introduction

Table 1	4	E-WT-3 renamed as Openwall prefabricated panels.
Table 6a	9	<b>NYTROOF RAPID FIT SYSTEM</b> renamed <b>NTSROOF RAPID FIT SYSTEM</b> .  Stewart Milne Sigma® Panel renamed Donaldson Timber Systems Single Leaf Spandrel.
	10	<b>NTSROOF RAPID FIT SYSTEM</b> added with applicable combinations.  Stewart Milne Sigma® Panel renamed Donaldson Timber Systems Single Leaf Spandrel.

## Separating Wall – Masonry

### E-WM-31

Spandrels	5-6	Note added regarding the linings for the spandrels panels
-----------	-----	---

## Separating Wall – Timber

### E-WT-1

Services	10	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
----------	----	---

### E-WT-2

Services	7	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
----------	---	---

### E-WT-3

Bullet points	1	1st point amended to new company name of Openwall.
Isometric	1	Timber battens introduced to break continuity of rigid insulation.
Frame construction	1	Identification label amended to new company name of Openwall.
Flanking wall junctions	2	Timber battens introduced to break continuity of rigid insulation.
Services	6	Note added referencing putty pads and other proprietary liners.
Checklist	8	Name changed to Openwall on first check item.  Contact details amended.

### E-WT-4

Services	6	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
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Section Page Amendment

## Separating Wall – Steel

### E-WS-1

Services	6	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
----------	---	---

### E-WS-2

Services	6	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
----------	---	---

### E-WS-5

Services	10	Text reordered to clarify putty pads are an alternative to just the 2 layers of gypsum board.
----------	----	---

## Appendix A2

Contents	1	Stewart Milne Timber Systems Sigma® Roof renamed Donaldson Timber Systems Single Leaf.  <b>NYTROOF RAPID FIT SYSTEM</b> renamed <b>NTSROOF RAPID FIT SYSTEM</b> .
Donaldson timber spandrel	9	Stewart Milne Timber Systems Sigma® Roof renamed Donaldson Timber Systems Single Leaf.  Contact details amended.
<i>RAPID FIT SYSTEM</i>	10	Heading amended to include name changed to <b>NTSROOF</b> ; and reference to timber walls.  Diagram 1 amended to show guidance for use on timber frame walls.  Diagram 2 amended to show joist positions.  Contact details amended.



# 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) 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 or URSA Cavity Batt 35 or URSA PARTY WALL ROLL (gypsum-based board) with 100mm minimum cavity
E-WM-23	masonry – aircrete blockwork Superglass Party Wall Roll (gypsum-based board) 100mm min 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 Supafil® Party Wall (gypsum-based board) with minimum 100mm cavity
E-WM-29	masonry – Porotherm clay blockwork (Ecoparge and gypsum-based board) with 75mm minimum insulated cavity
E-WM-30	masonry – aircrete blockwork Knauf Supafil® Party Wall (gypsum-based board) with 100mm min cavity
E-WM-31	masonry – H+H – Celcon Elements (gypsum-based board) with 100mm minimum insulated cavity
E-WM-32	masonry – lightweight aggregate blockwork Knauf Earthwool Masonry Party Wall Slab (gypsum-based board) with minimum 75mm cavity
E-WM-33	masonry – lightweight aggregate blockwork Superglass Superwhite 34 (gypsum-based board) with 100mm minimum cavity
E-WM-34	masonry – Plasmor “Aglite Ultima” lightweight aggregate blockwork (render and gypsum-based board) with full-fill cavity insulation

See over for timber and steel frame walls

# Introduction

---

## 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 – Openwall 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
E-WS-5	steel frame – twin metal frame

# 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	Donaldson Timber Single Leaf Spandrel	NTSROOF RAPID FIT SYSTEM	Nu-Span Spantherm
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	✓	✓	✓	✓	✓		✓	✓
	E-WM-33	✓	✓	✓	✓	✓		✓	✓
	E-WM-34	✓	✓	✓	✓	✓		✓	✓

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

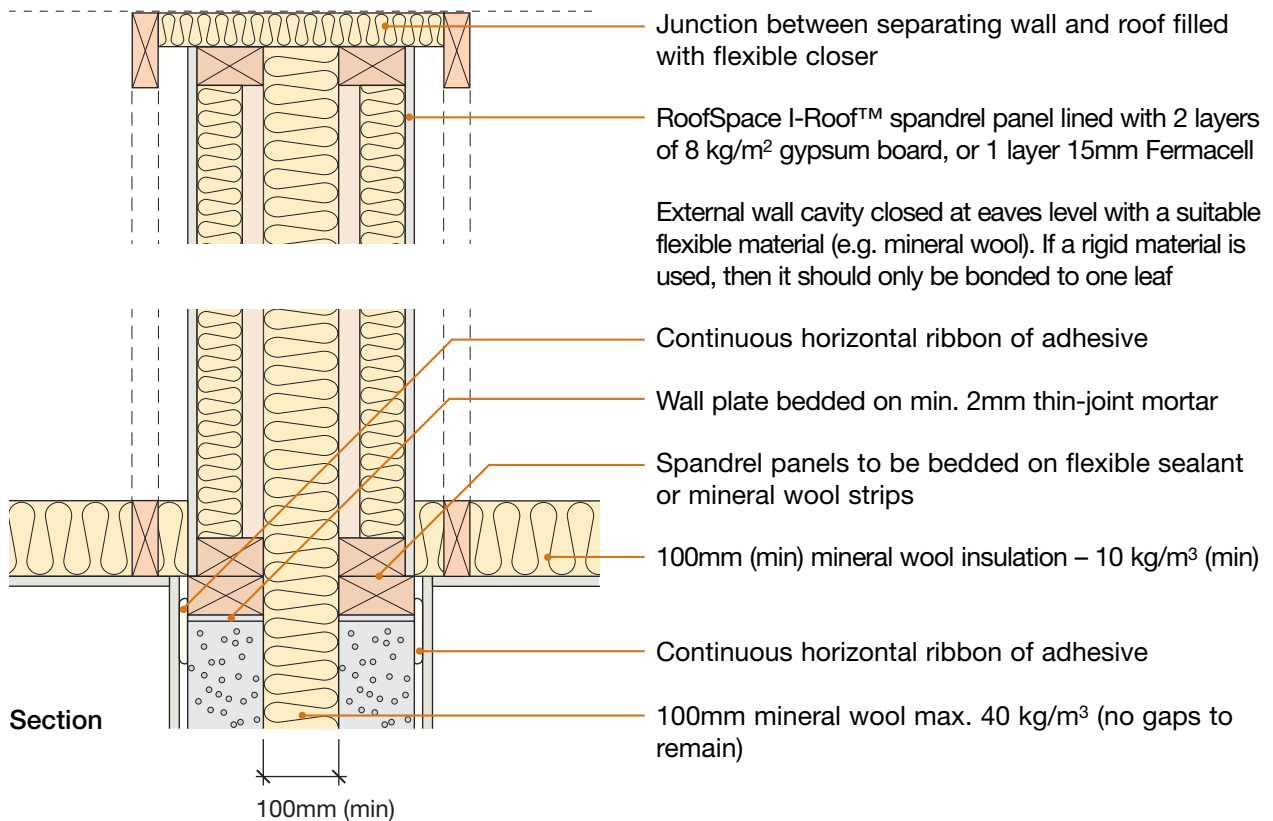
# Introduction

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

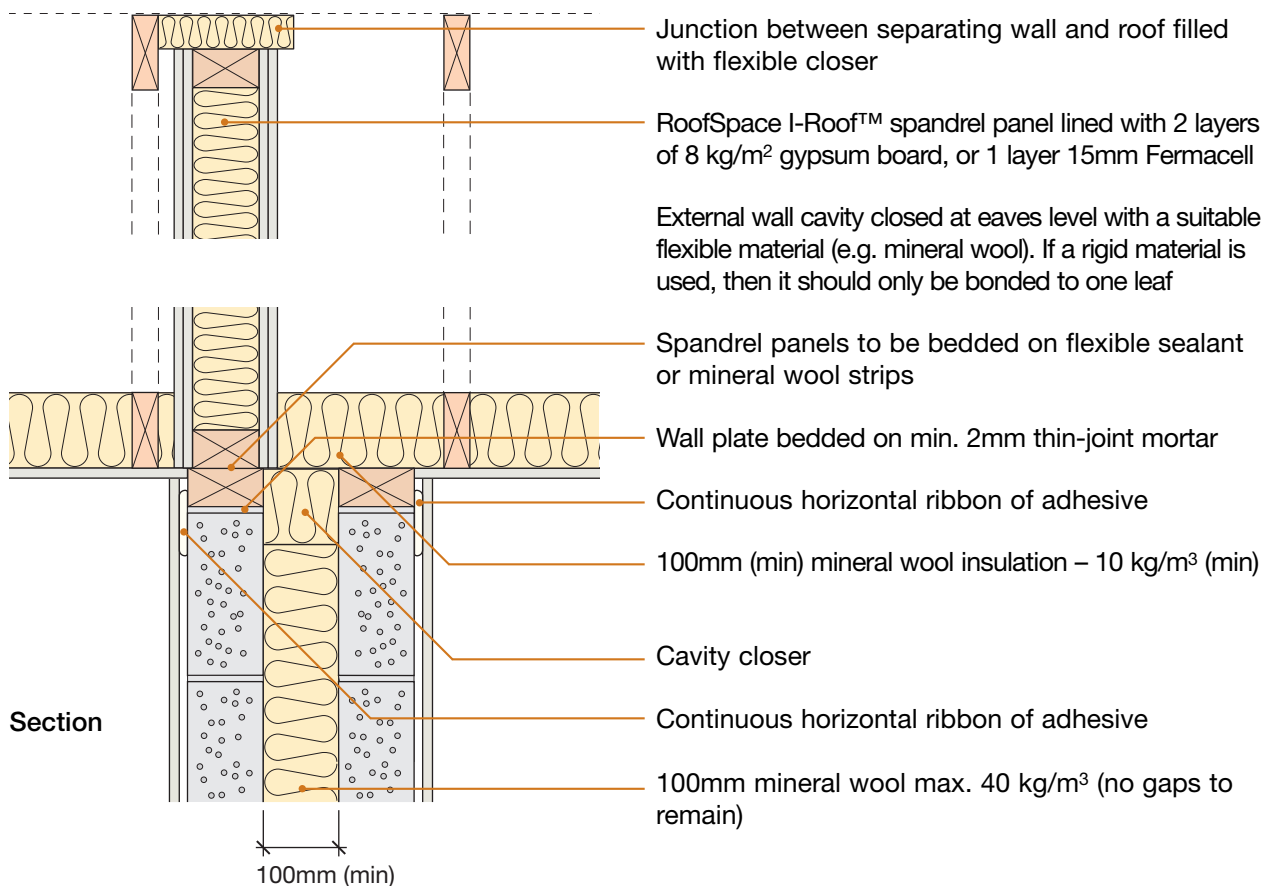
		Smartroof system	Kingspan TEK	Prestoplan PresPeak 60	Wall Cap RDA2	RoofSpace I-Roof	Space4 system	Donaldson Timber Single Leaf Spandrel	NTSROOF RAPID FIT SYSTEM	Lightweight external cladding systems	Nu-Span Spantherm
Timber walls	E-WT-1	✓	✓	✓	✓	✓		✓	✓	✓	✓
	E-WT-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E-WT-3	✓			✓	✓					✓
	E-WT-4	✓			✓	✓					✓
Steel walls	E-WS-1					✓					✓
	E-WS-2										
	E-WS-3										
	E-WS-4				✓						✓
	E-WS-5										



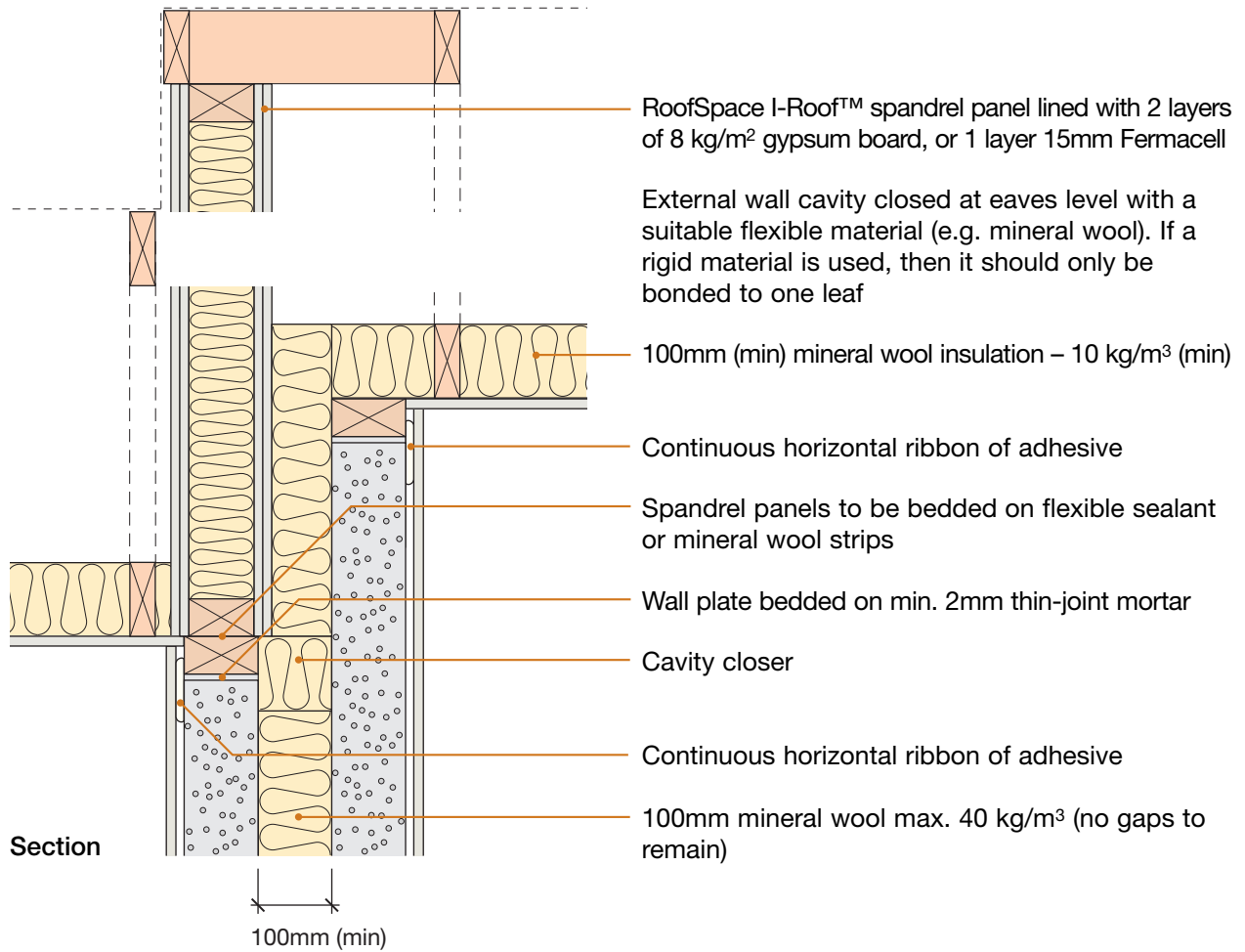
## 7. Roof junction – pitched roof without room-in-roof



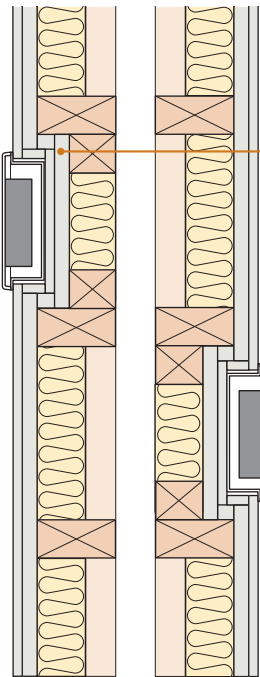
### Alternative detail with single spandrel panel



## 8. Stepped roof junction – pitched roof without room-in-roof



## 10. Services and sockets in the separating wall



Plan

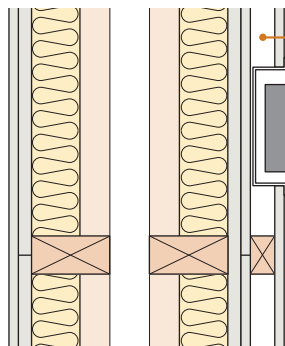
### 10.1 – electrical sockets, switches, etc.

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

- They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1$  dB  
See Appendix H.
- They are installed in accordance with the manufacturer's instructions.

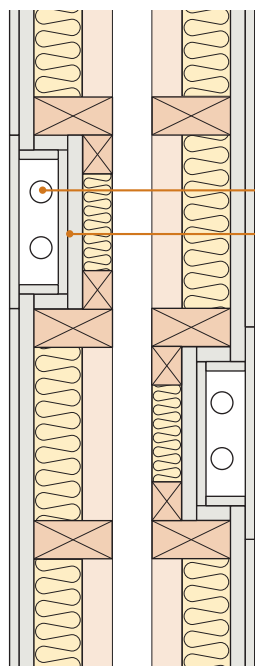
Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays



Plan

Alternatively provide a service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen.

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure



Plan

### 10.2 – piped services

Service duct within separating wall

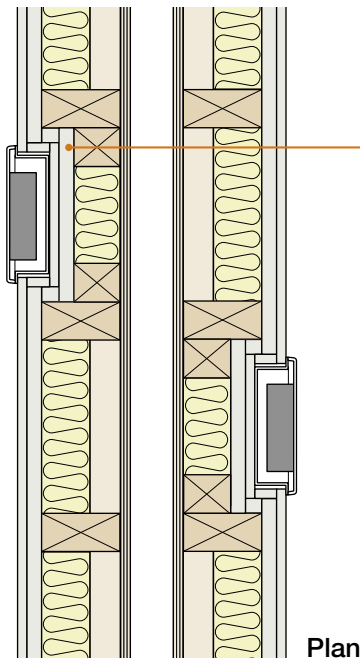
Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose pipes

Stagger services on each side of wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes.



## 10. Services and sockets in the separating wall



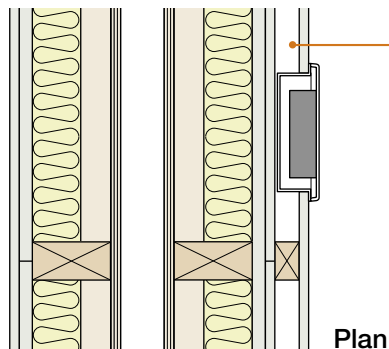
### 9.1 – electrical sockets, switches, etc.

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

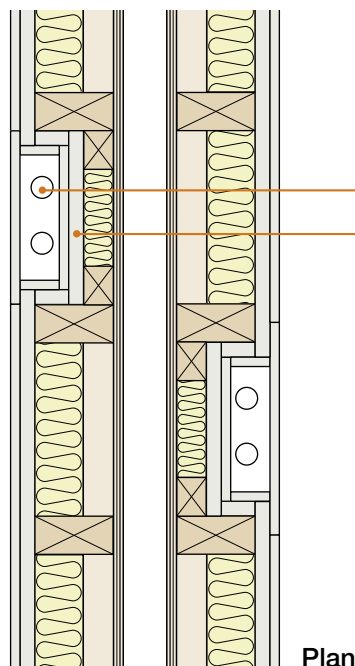
- They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1$  dB  
See Appendix H.
- They are installed in accordance with the manufacturer's instructions.

Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays



Alternatively provide a service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen.

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure



### 9.2 – piped services

Service duct within separating wall

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose pipes

Stagger services on each side of wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes.

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

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

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

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

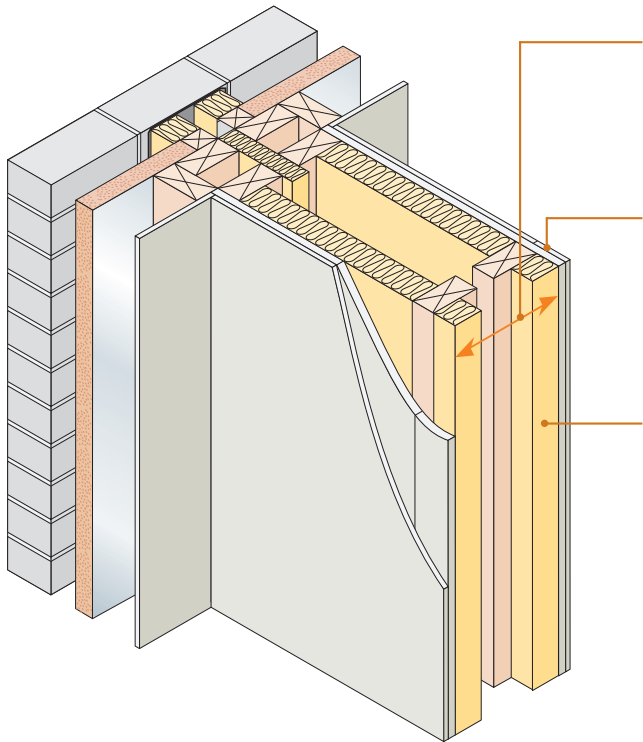
Ref.	Item	Yes (✓)	No (✓)	Inspected (initials & date)
1.	Are wall linings at least 240mm apart?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
2.	Are sheathing boards at least 50mm apart?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
3.	Are stud frames at least 68mm apart?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
4.	Is absorbent material at least 60mm thick?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
5.	Does absorbent material cover whole lining area except above ceiling line in roof void zone?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
6.	Are all joints in wall lining staggered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
7.	Is separating wall lining correct mass per unit area on both sides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
8.	Are all joints sealed with tape or caulked with sealant?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
9.	Are services installed in accordance with sketches 9.1 and 9.2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
10.	If there is a separating floor (e.g. in flats/apartments) has the resilient flanking strip been provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>
11.	Is separating wall satisfactorily complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>

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

Site manager/supervisor signature .....

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

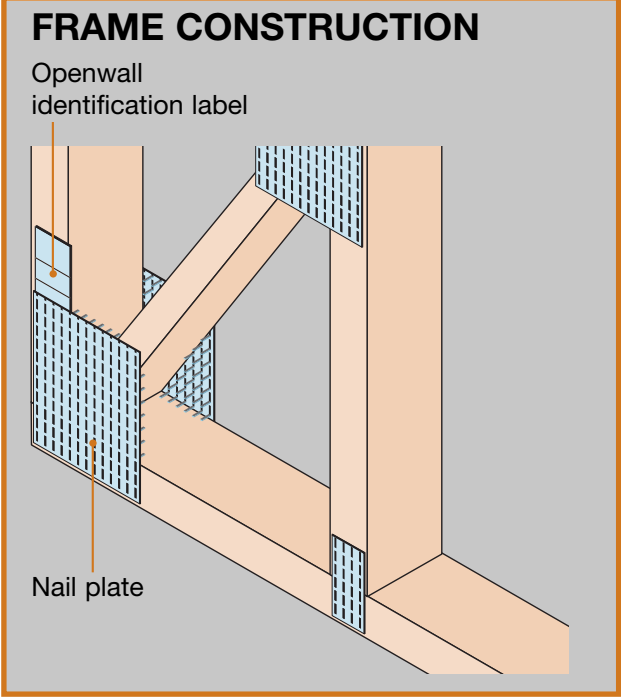
- Openwall prefabricated panels ■
- Twin timber frames ■
- For use in timber frame houses and flats/apartments ■



<b>Wall width</b>	240mm (min) between inner faces of wall linings. 50mm (min) gap between studs (must not be bridged by any diagonal bracing)
<b>Wall lining</b>	- 2 or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m <sup>2</sup> ), both sides - all joints staggered
<b>Absorbent material</b>	60mm (min) mineral wool batts or quilt (density 10 – 60 kg/m <sup>3</sup> ) both sides. Material may be unfaced, paper faced or wire-reinforced
<b>Ties</b>	Ties between frames not more than 40mm x 3mm, at 1200mm (min) centres horizontally, one row of ties per storey height vertically
<b>External (flanking) wall</b>	Outer leaf masonry with minimum 50mm cavity. Inner leaf lined with 45mm (min) foil faced PIR insulation, minimum density 32 kg/m <sup>3</sup>

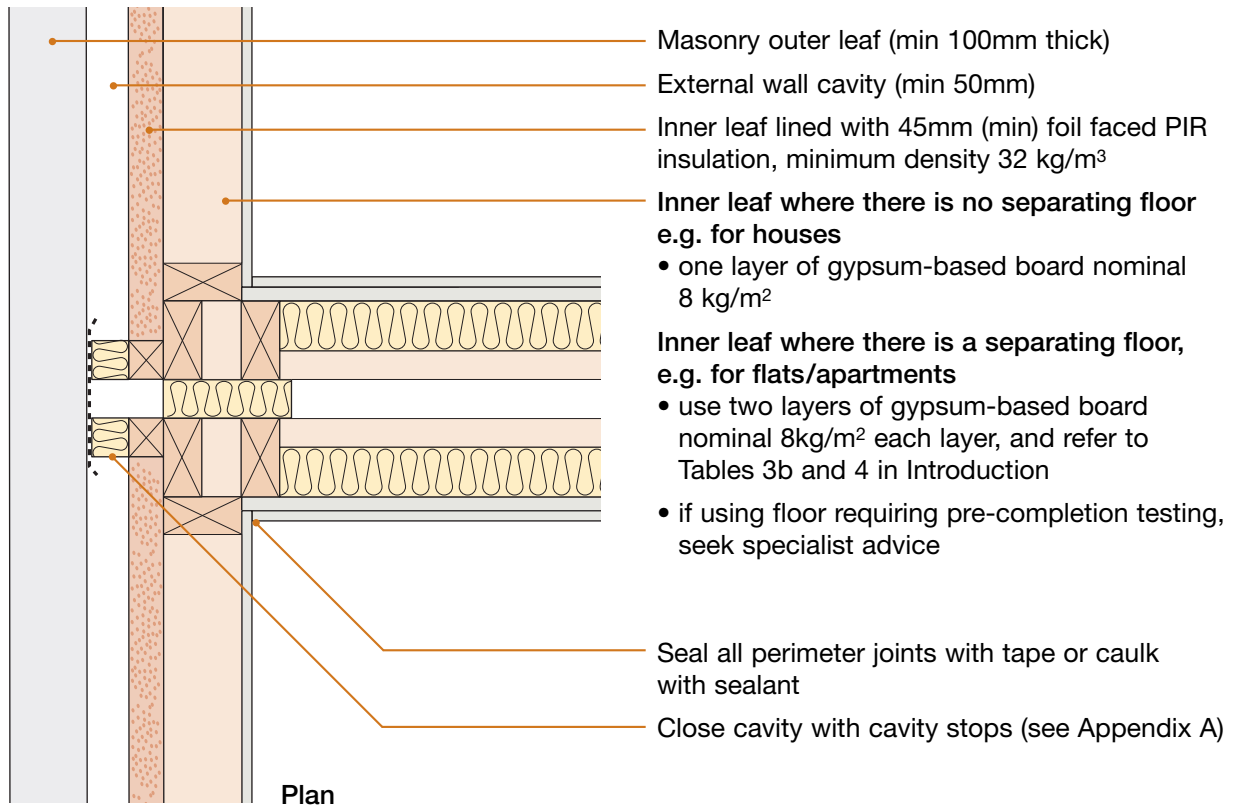
**Note:** Partial sheathing of the cavity faces of the separating wall is permitted for structural reasons. This may be for a length of 1800mm (max) to each end of both leaves or to the entire face of one leaf.

**Note:** When using this **robustdetails**® in flats/apartments, please refer to Tables 3b and 4 of the Introduction

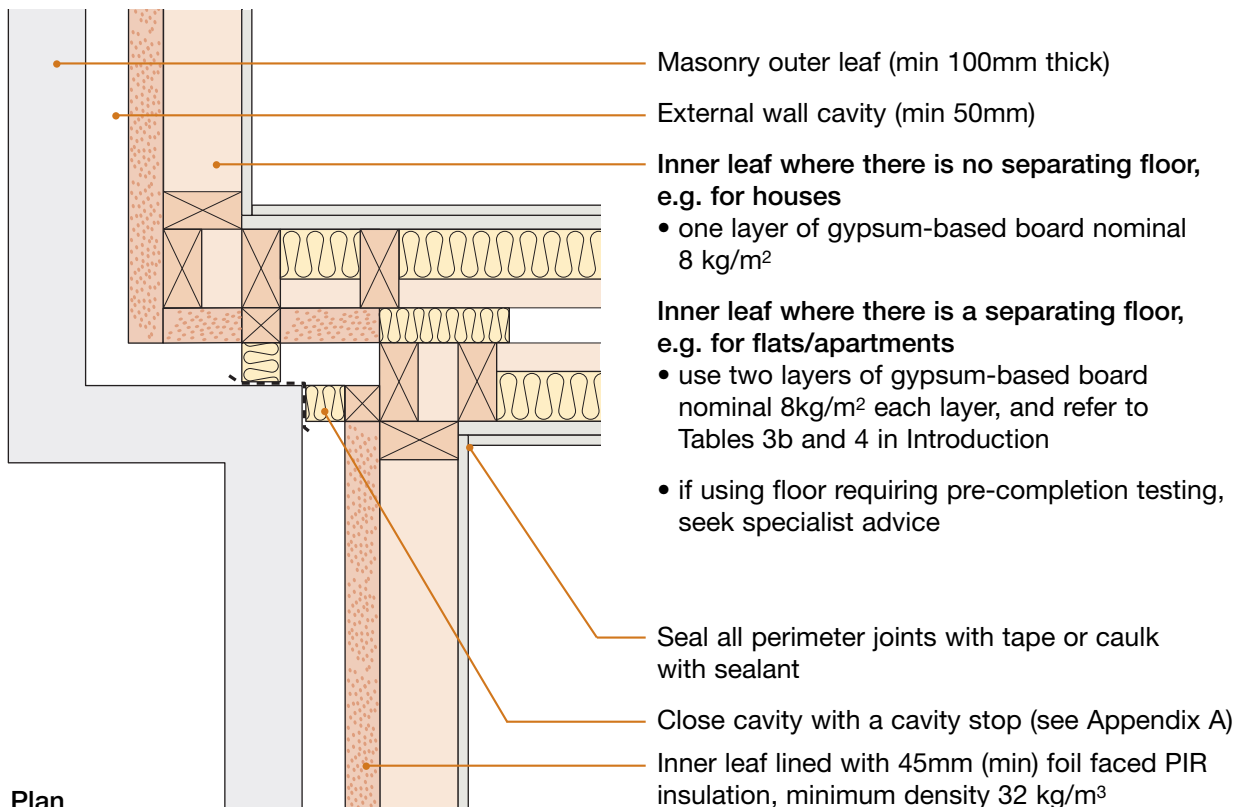


- ### DO
- Keep wall linings at least 240mm apart
  - Ensure quilt or batts cover whole lining area, fitting tight between studs without sagging
  - Ensure that all cavity stops/closers are flexible or are fixed to one frame only
  - Make sure there is no connection between the two leaves except where ties are necessary for structural reasons (see above).
  - Stagger joints in wall linings to avoid air paths
  - Seal all joints in outer layer with tape or caulk with sealant
  - Refer to Appendix A

## 1. External (flanking) wall junction

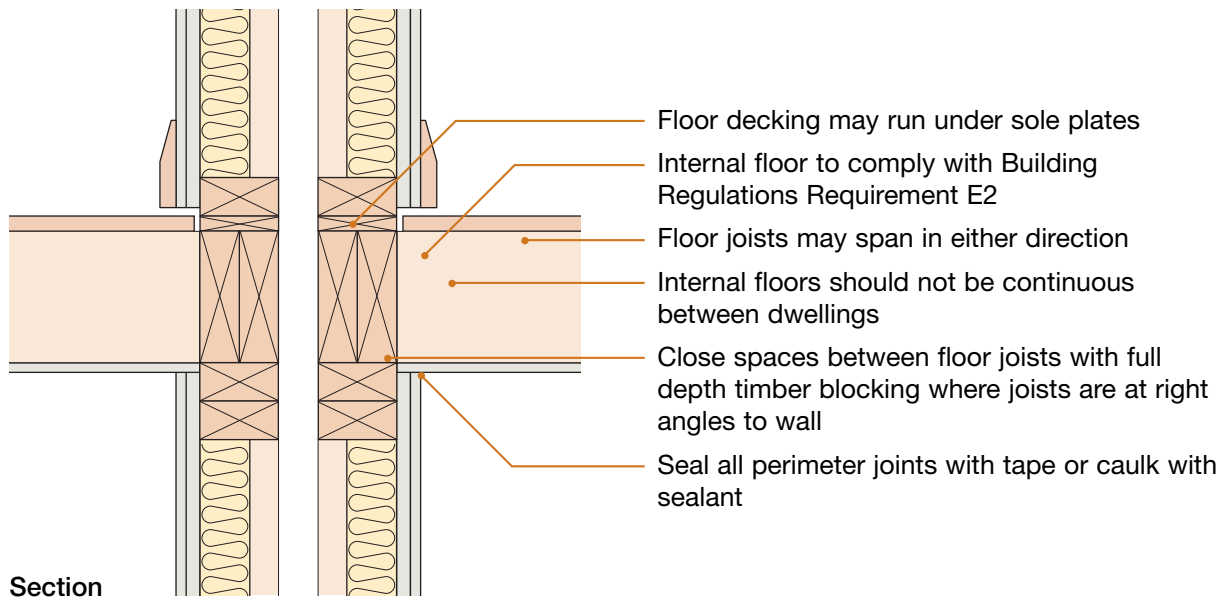


## 2. Staggered external (flanking) wall junction

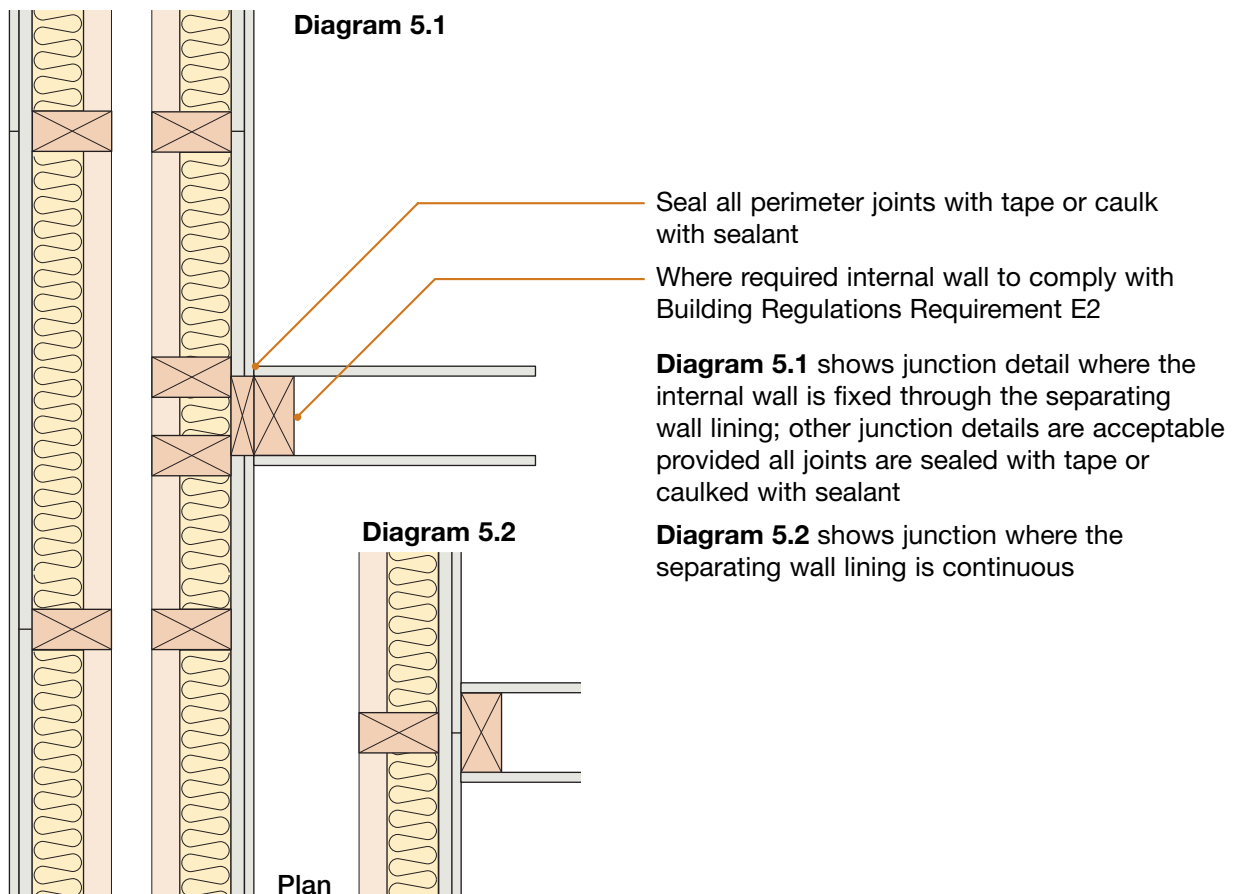




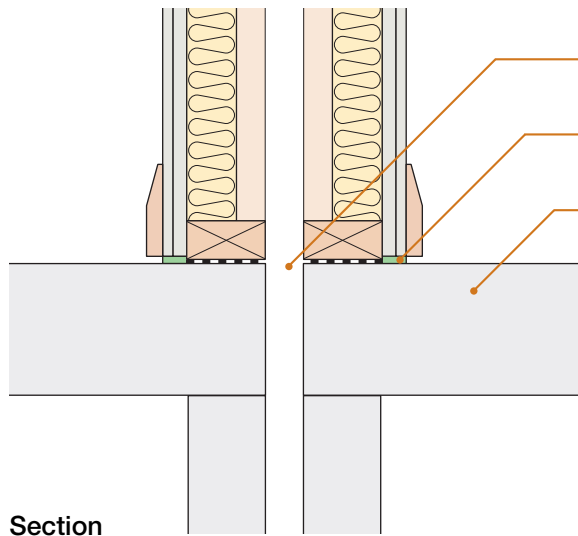
## 3. Internal floor junction



## 4. Internal wall junction



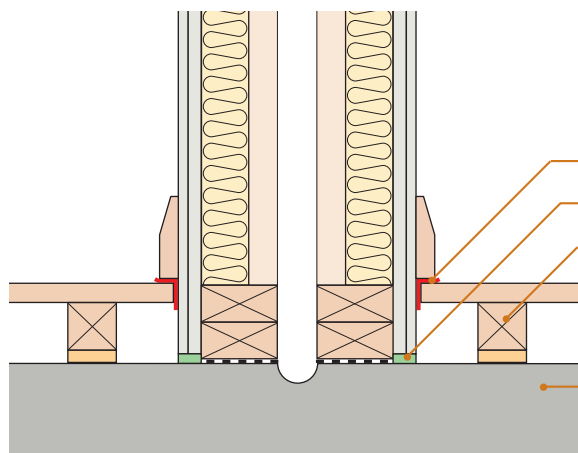
## 5. Ground floor junction: timber floor, beam and block, precast concrete plank, cast in-situ concrete suspended slab or ground bearing slab



Section

- Ground floors not continuous between dwellings
- Flexible or acoustic sealant (may be omitted when timber ground floor is used)
- Ground floor construction:
  - timber floor joists:
    - may span in either direction
    - floor decking may run under sole plates
    - close spaces between floor joists with full depth timber blocking where joists are at right angles to wall, or
  - beam and block floor with all voids filled with mortar, or
  - precast concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant, or
  - cast in-situ concrete suspended slab, or
  - ground bearing slab

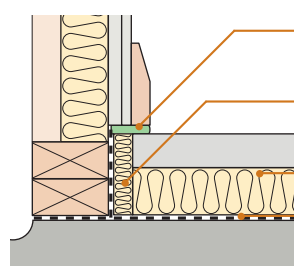
## 6. Raft foundation



Section

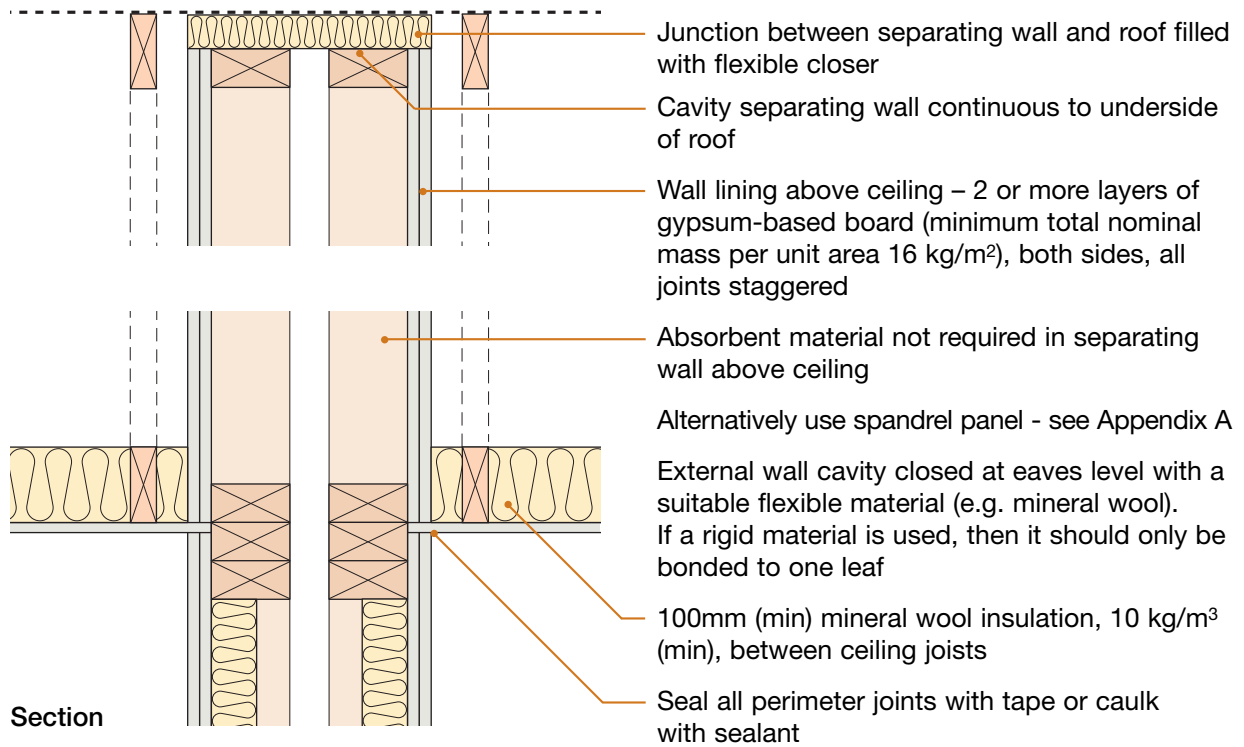
- 5mm (min) resilient flanking strip
- Flexible or acoustic sealant
- A floating floor treatment must be used (for ground floor floating floor treatments mineral fibre quilt is not required between the battens or cradle system)
- Concrete raft - mass per unit area of 365 kg/m<sup>2</sup> (min)

Alternative detail with screed finish

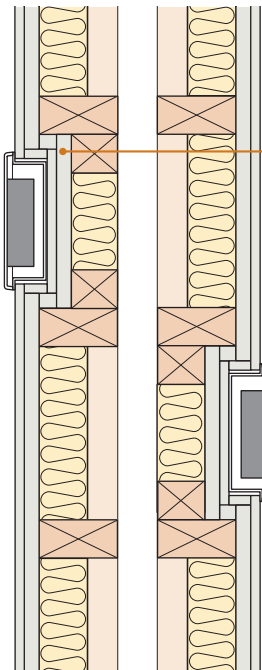


- Mastic sealant, ensure skirting and wall lining are isolated from screed
- Perimeter insulation, isolating screed from timber frame
- Below screed insulation, isolating screed from raft
- Polyethylene

## 7. Roof junction - pitched roof with no room-in-roof



## 8. Services and sockets in the separating wall



Plan

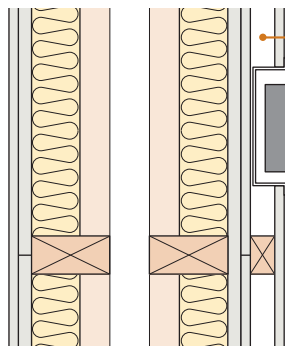
### 8.1 – electrical sockets, switches, etc.

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

- They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1$  dB  
See Appendix H.
- They are installed in accordance with the manufacturer's instructions.

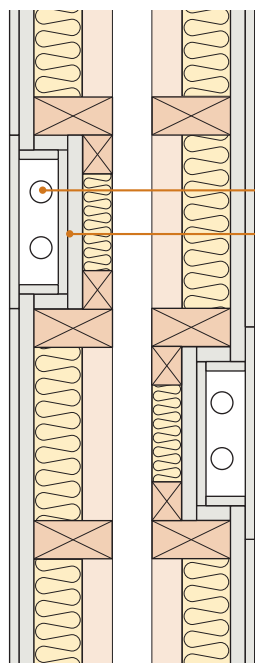
Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays



Plan

Alternatively provide a service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen.

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure



Plan

### 8.2 – piped services

Service duct within separating wall

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose pipes

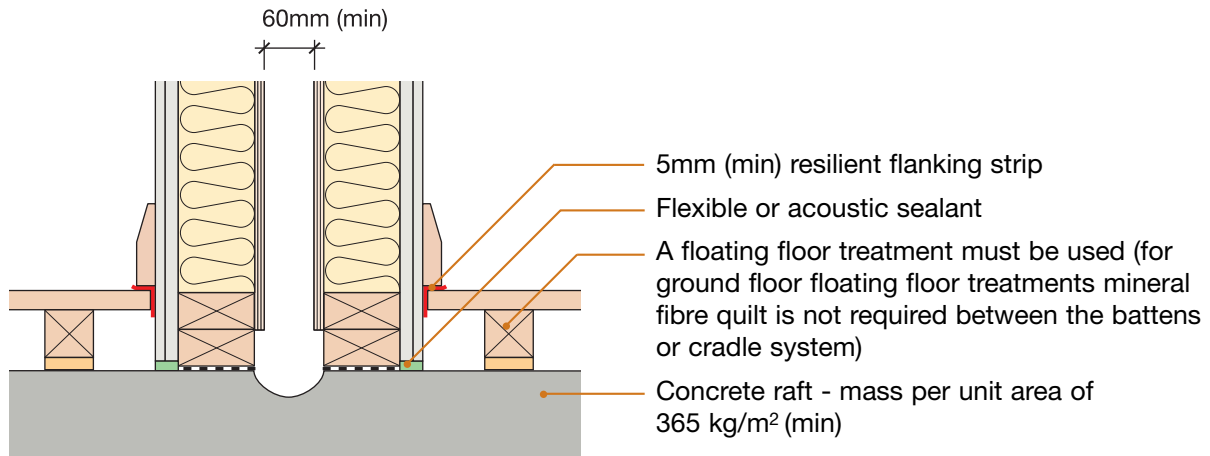
Stagger services on each side of wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes.

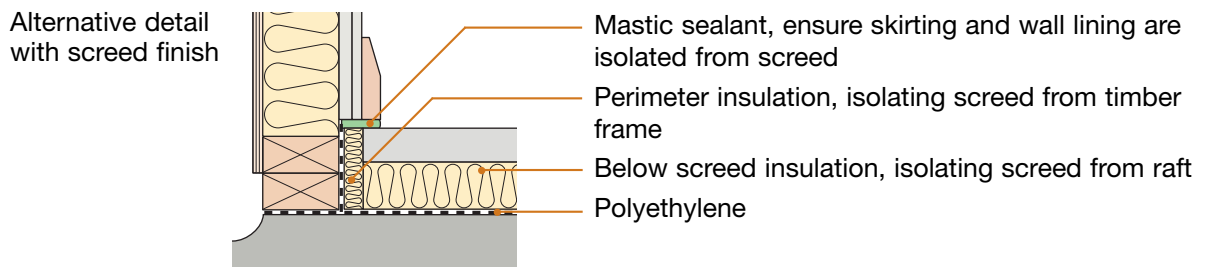
blank page  
See overleaf for checklist



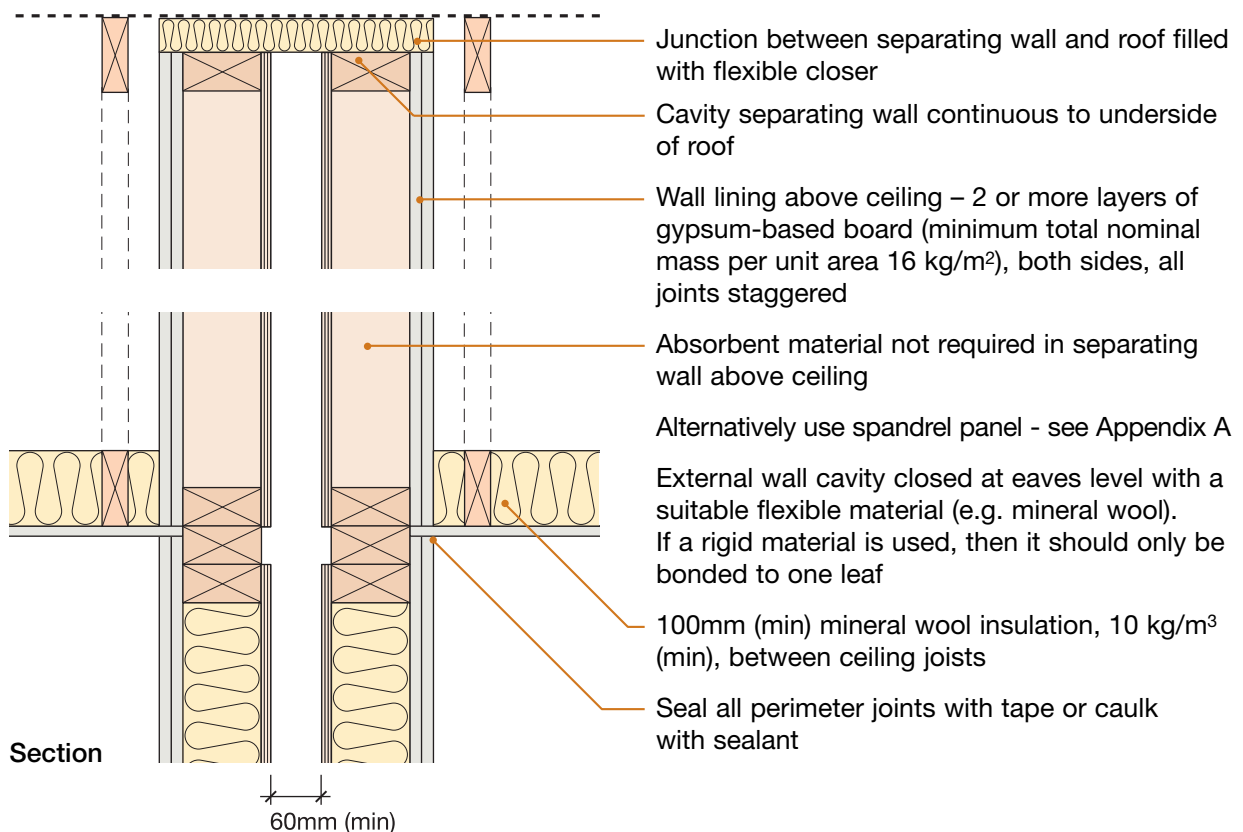
## 7. Raft foundation



Section

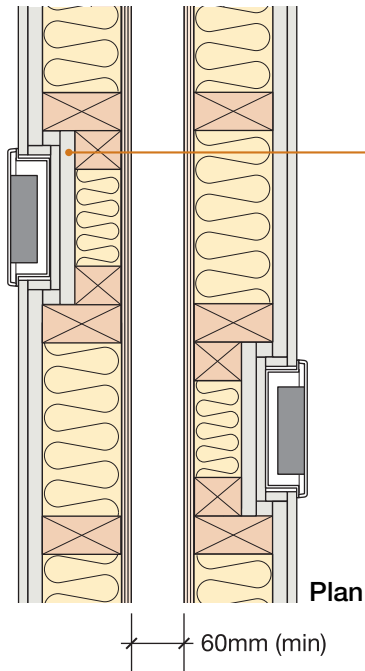


## 8. Roof junction - pitched roof with no room-in-roof



Section

## 9. Services and sockets in the separating wall



### 9.1 – electrical sockets, switches, etc.

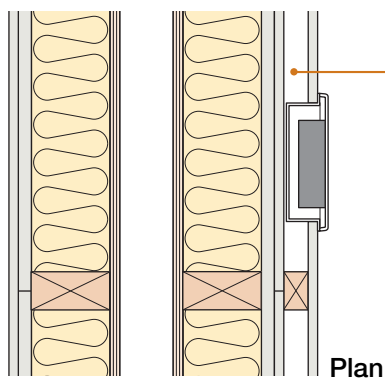
Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

a) They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1$  dB  
See Appendix H.

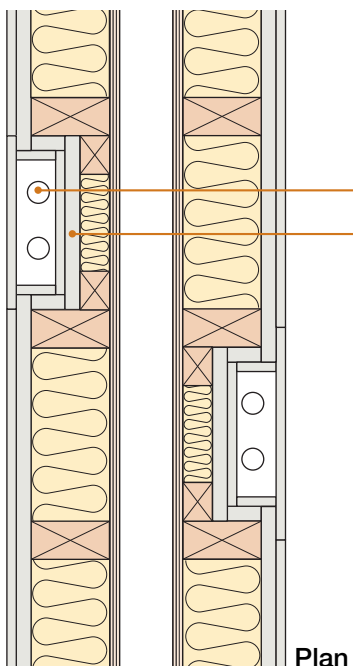
b) They are installed in accordance with the manufacturer's instructions.

Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays



Alternatively provide a service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen.

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure



### 9.2 – piped services

Service duct within separating wall

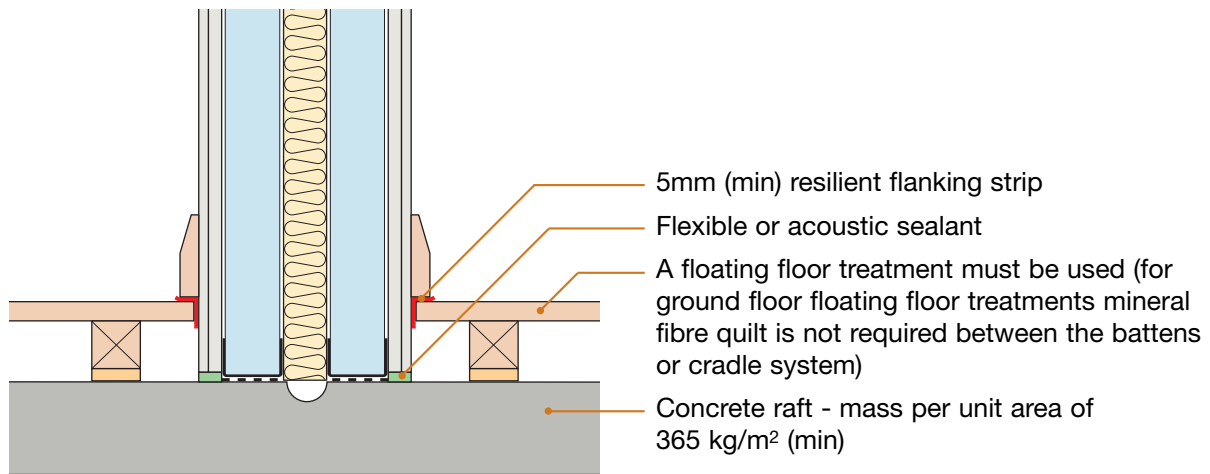
Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose pipes

Stagger services on each side of wall such that they are not positioned in opposite bays

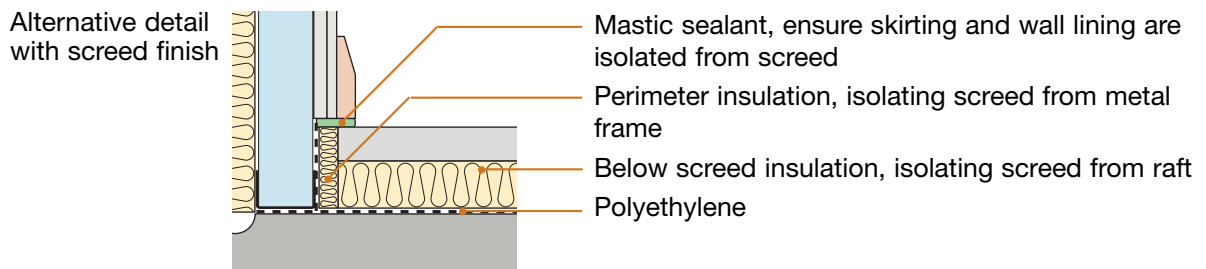
Note: this detail is not applicable for SVPs or gas pipes.



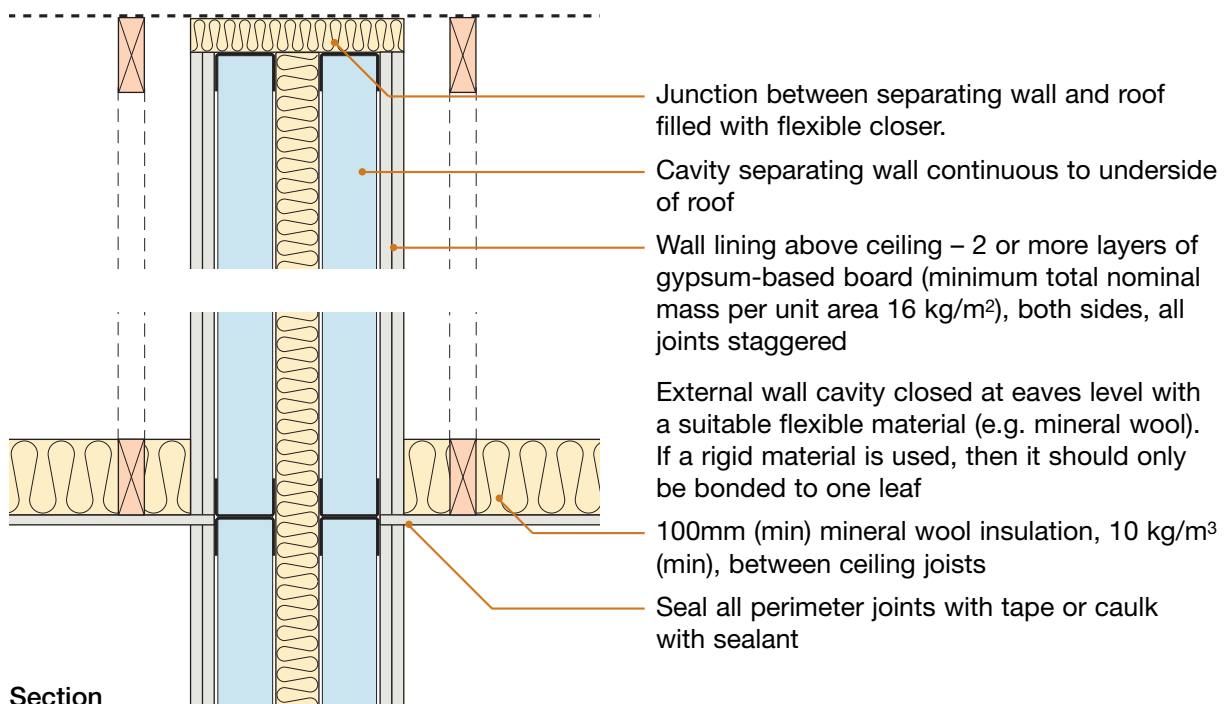
## 7. Raft foundation



Section

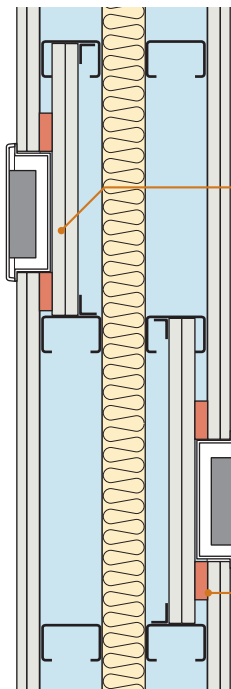


## 8. Roof junction - pitched roof with no room-in-roof



Section

## 9. Services and sockets in the separating wall



Plan

### 9.1 – electrical sockets, switches, etc.

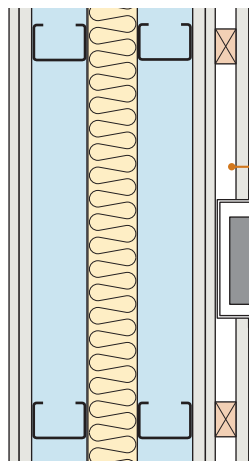
Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

- They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1\text{dB}$   
See Appendix H.
- They are installed in accordance with the manufacturer's instructions.

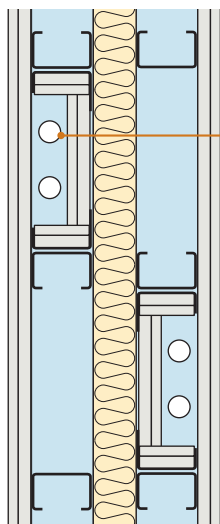
Fire resistant seal where required by Part B of the Building Regulations



Plan

Service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen.

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure.



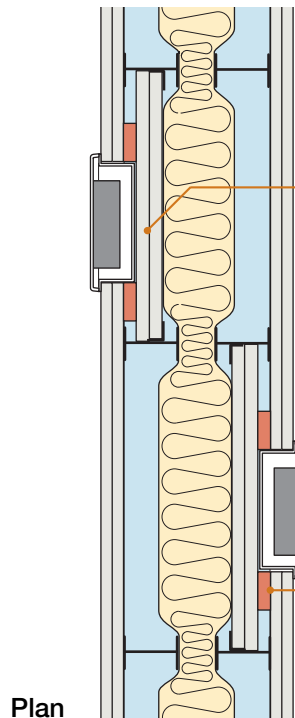
Plan

### 9.2 – piped services

Stagger services on each side of wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes

## 10. Services and sockets in the separating wall



### 10.1 electrical sockets, switches etc

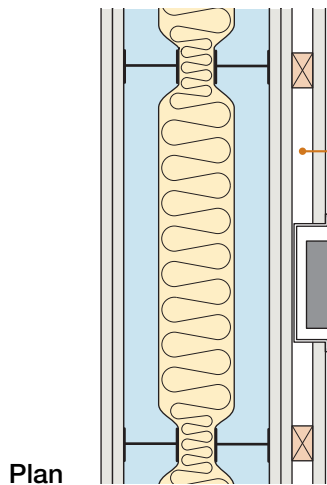
Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays

Provide two or more layers of gypsum-based board (total nominal mass per unit area 22 kg/m<sup>2</sup>) to enclose electrical boxes

Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

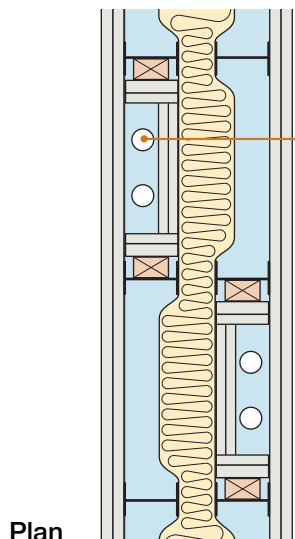
- a) They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1$  dB  
See Appendix H.
- b) They are installed in accordance with the manufacturer's instructions.

Fire resistant seal where required by Part B of the Building Regulations



Service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure



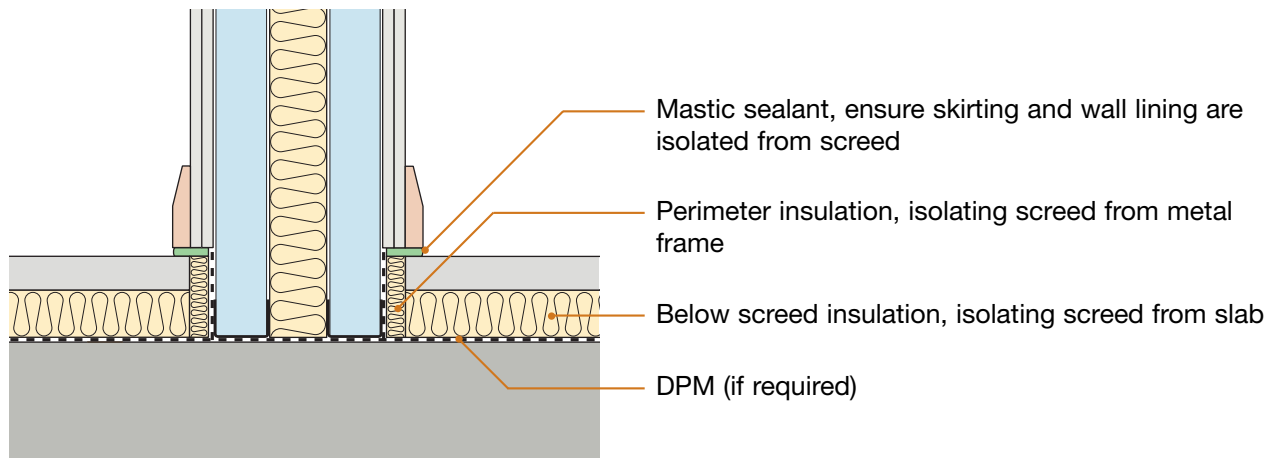
### 10.2 piped services

Stagger services on each side of the wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes

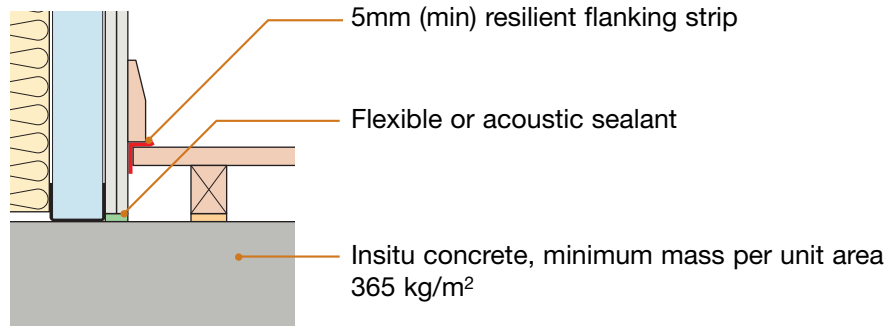


## 9. Ground floor junction

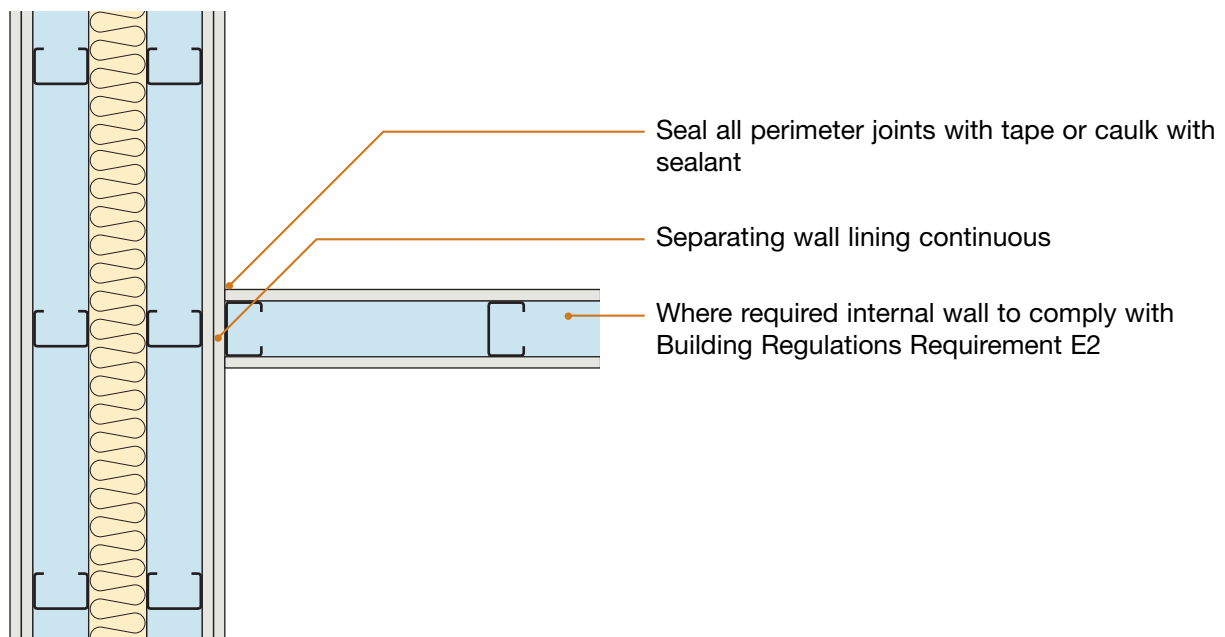


Section

Alternative detail with timber floating floor finish



## 10. Internal wall junction

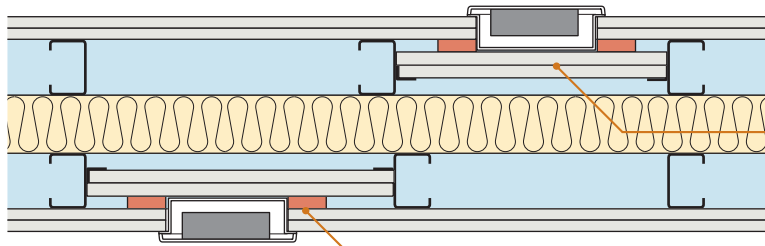


Plan

Ensure studs, top and bottom rails or gypsum boards do not bridge between the twin frames

## 11. Services and sockets in the separating wall

### 11.1 Electrical sockets, switches etc



Plan

Stagger sockets, switches, etc. on each side of the wall such that they are not positioned in opposite bays

Provide two or more layers of gypsum-based board (total nominal mass per unit area 20 kg/m<sup>2</sup>) to enclose electrical boxes

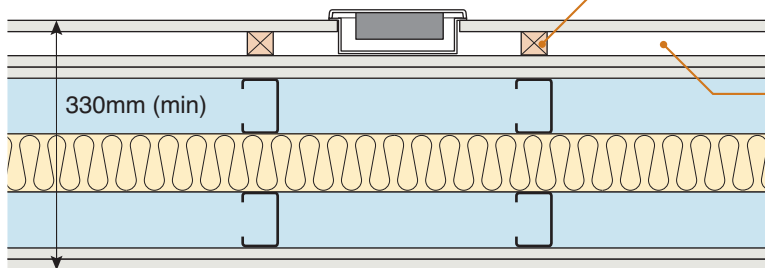
Alternatively, fire resistant putty pads or other proprietary liner may be used with sockets, provided:

a) They achieve a laboratory performance of no worse than  $rd\Delta R_w + C_{tr} = -1\text{dB}$   
See Appendix H.

b) They are installed in accordance with the manufacturer's instructions.

Fire resistant seal where required by Part B of the Building Regulations

### 11.2 Electrical sockets and switches in service void



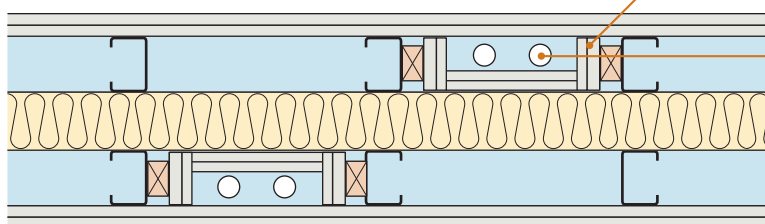
Plan

Service void using min 25mm battens or steel studs with 1 layer of gypsum board

Service void on surface of separating wall. This is the preferred method where more than one socket, switch, etc. are close together, e.g. in a kitchen

Studs or battens used to create the service zone should be securely fixed back to the separating wall structure

### 11.3 Piped services located within wall



Plan

Provide two or more layers of gypsum-based board (total nominal mass per unit area 20 kg/m<sup>2</sup>) to enclose pipes

Stagger services on each side of the wall such that they are not positioned in opposite bays

Note: this detail is not applicable for SVPs or gas pipes

Ensure studs, top and bottom rails or gypsum boards do not bridge between the twin frames

# Appendix A2 – Specific Flanking Conditions

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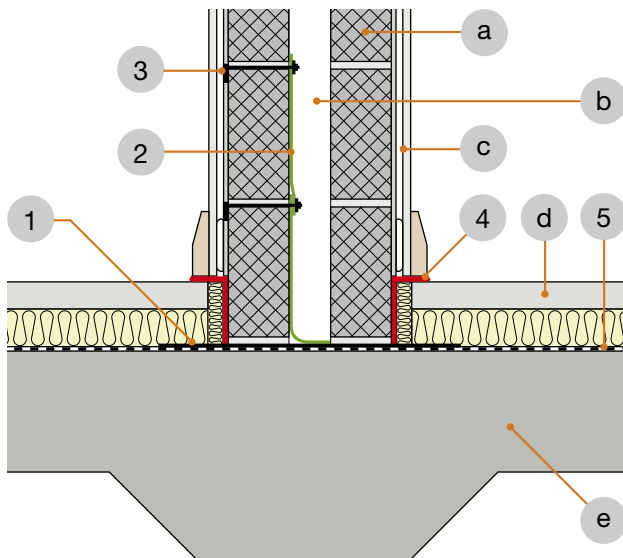
## Contents

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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
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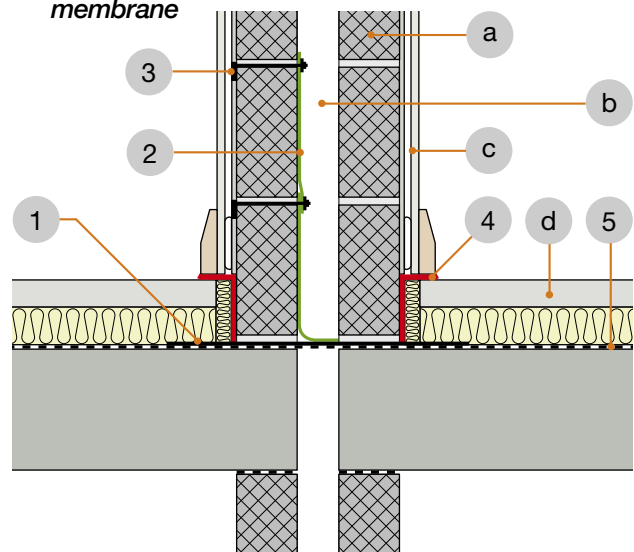
## Appendix A2 – Specific Flanking Conditions

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

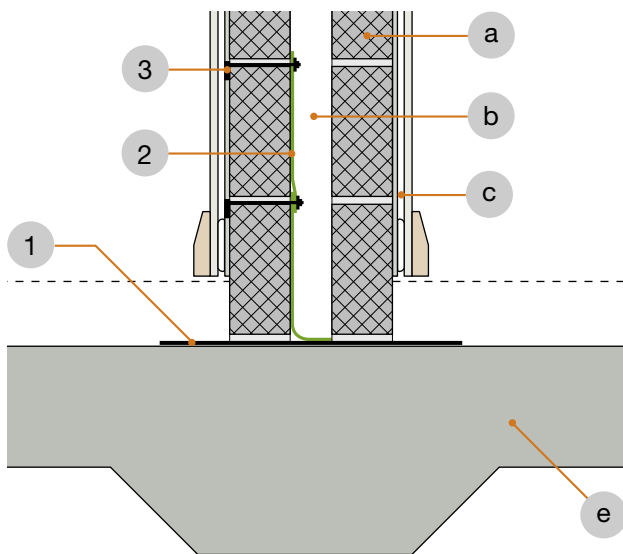
### 1. Separating wall – direct support on raft



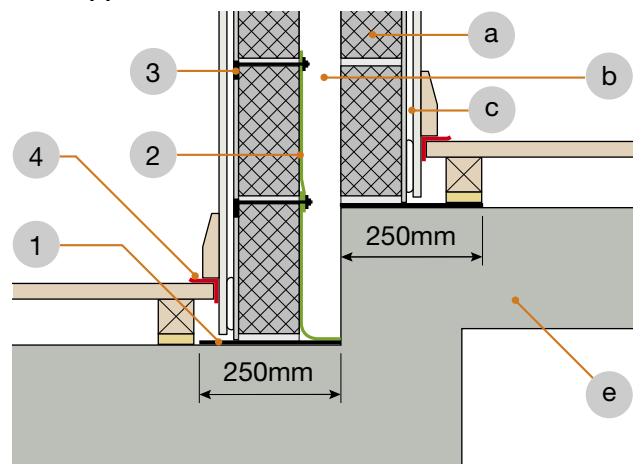
### 2. Separating wall – suspended floor with gas membrane



### 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 Flanking Band forming a 90° angle to isolate floating floor treatment from separating wall blocks, lining and skirting board.
- 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

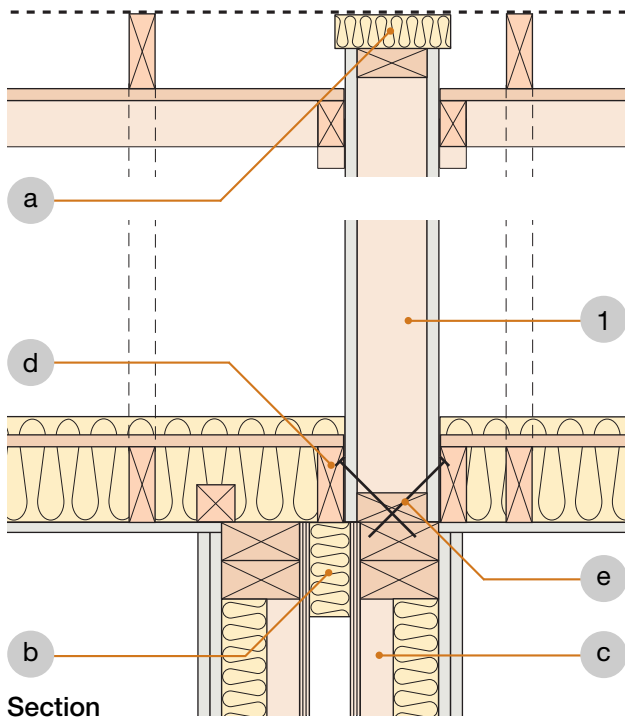
The trade marks MONARFLOOR and BRIDGESTOP are the subject of UK trade mark registrations owned by Icopal Limited



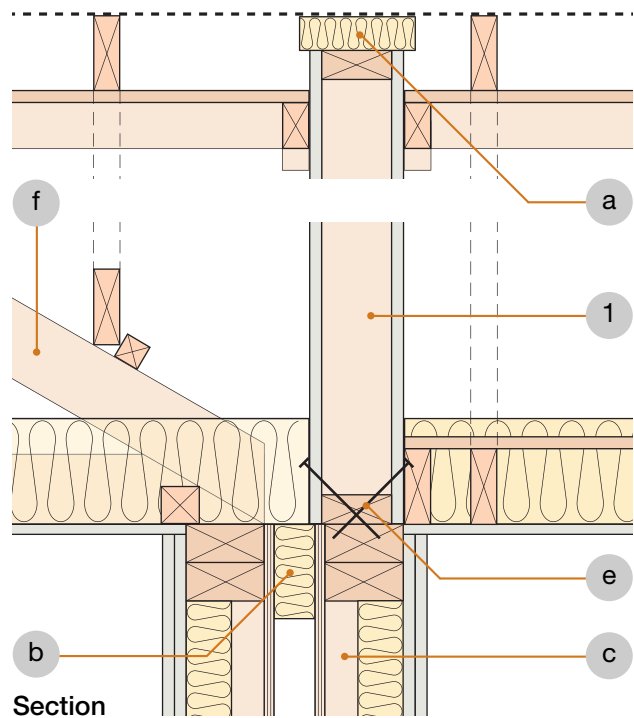
## Appendix A2 – Specific Flanking Conditions

Donaldson Timber Systems Single Leaf 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

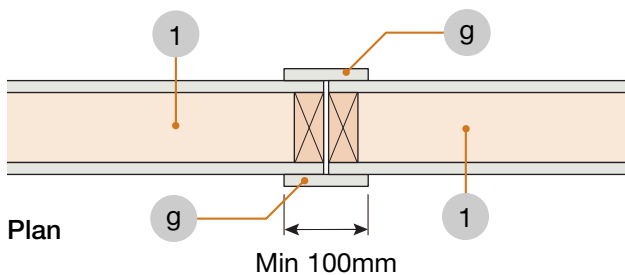


### 2. Spandrel panel located across trussed rafters



### 3. Spandrel panel joint detail

Panels secured together using angled screw fixings



#### Key

- 1 Donaldson Timber Systems Single Leaf 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

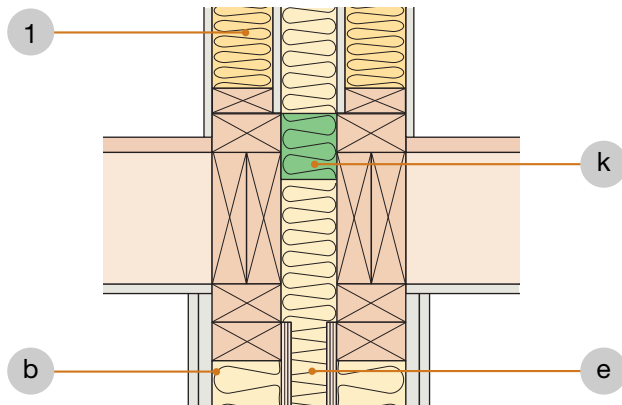
Contact details for  
Donaldson Timber Systems Limited:

**Telephone: 0845 009 2774**  
**Email: [help@donaldsontimbersystems.com](mailto:help@donaldsontimbersystems.com)**  
**Web: [www.donaldsontimbersystems.com](http://www.donaldsontimbersystems.com)**

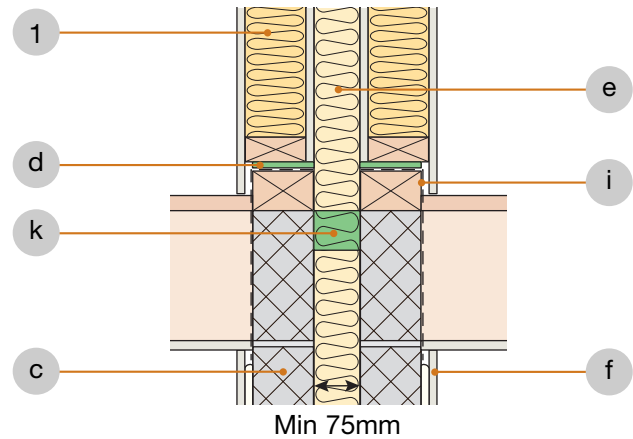
## Appendix A2 – Specific Flanking Conditions

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

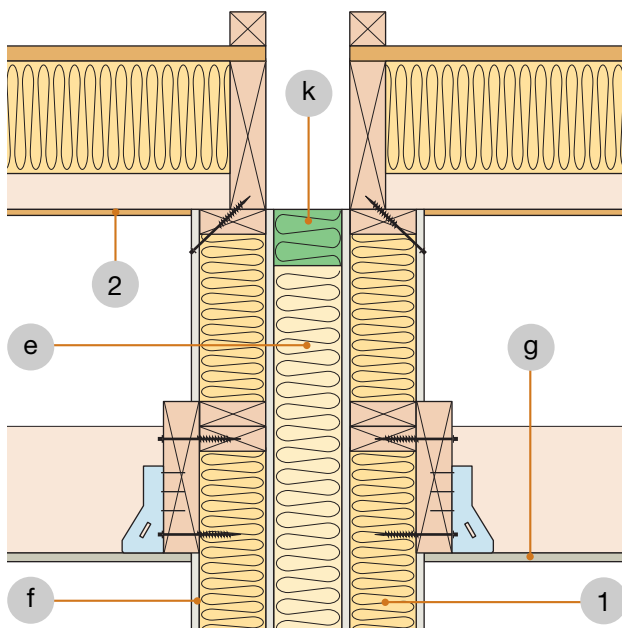
### 1. Room-in-roof junction with timber cavity walls



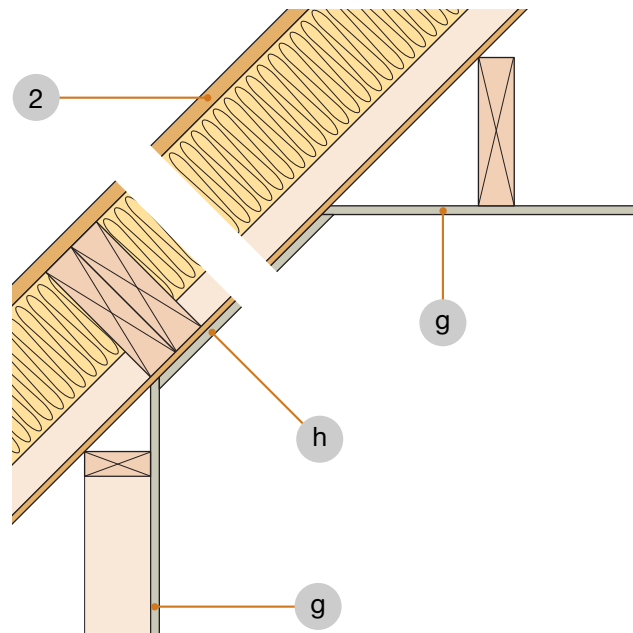
### 2. Room-in-roof junction with masonry cavity walls



### 3. Separating wall – roof junction



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



#### Key

- a Outer leaf of external wall.
- b Timber **robustdetails®** wall (see Table 6 in Introduction).
- 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 if required for other Regulations.

- 1 **NTSROOF** spandrel panel.
- 2 **NTSROOF** roof cassette.

Contact details for National Timber Systems:

**Telephone: 01609 751111**

**Fax: 01609 788388**

**E-mail: [george.rayden@nationaltimbersystems.co.uk](mailto:george.rayden@nationaltimbersystems.co.uk)**

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