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.
5. Remove and replace all pages of Appendix A2.

Yours sincerely

John Thompson
Chief Executive,
Robust Details Limited
# Changes to the fourth edition following September 2018 update

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<thead>
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<th>Section</th>
<th>Page</th>
<th>Amendment</th>
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<tr>
<td><strong>Introduction</strong></td>
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<tr>
<td>Table 6a</td>
<td>9-10</td>
<td>Appendix A2 heading changed to “Specific Flanking Conditions”.</td>
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</table>
| 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 | |
| All | 1-6 | “Round The House Roll” product name removed from specification. |
| E-WM-20 | All | 1-6 | “Round The House Roll” product name removed from specification. |
| **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. |
Contents

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
  – robustdetails® separating walls and floors which can be used together in flats/apartments
• Table 4 – robustdetails® separating walls which can be used together with non-robustdetails® separating floors in flats/apartments
• Table 5 – robustdetails® separating floors which can be used together with non-robustdetails® separating walls in flats/apartments
• Tables 6a and 6b
  – robustdetails® separating walls and floors which can be used together with the proprietary flanking constructions contained in Appendix A2
• Table 7 – robustdetails® 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
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 robustdetails® timber frame separating floors
Appendix D   Determination of the acoustic performance requirements for floating floor treatments used with robustdetails® 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 robustdetails® concrete separating floor E-FC-8.
### Table 6a – Robust Detail separating walls which can be used together with the specific flanking constructions contained in Appendix A2

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**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

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## Introduction

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

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**Key**

1 Applies only to loadbearing masonry constructions.
**Introduction**

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

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<tr>
<td>E-FS-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Lightweight aggregate, or nominated hollow or cellular blocks
- Isover RD Party Wall Roll
- Gypsum-based board (nominal 8 kg/m²) on dabs

Block density
1350 to 1600 kg/m³
or Plasmor Aglite Ultima
1050 kg/m³

Wall ties
Approved Document E
‘Tie type A’ (see Appendix A)

Cavity width
75mm (min)

Block thickness
100mm (min), each leaf

Wall finish
Gypsum-based board
(nominal 8 kg/m²) mounted on dabs

Insulation
Isover RD Party Wall Roll

External (flanking) wall
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/m³ to 1600 kg/m³) or aircrete block (450 kg/m³ to 800 kg/m³) or Plasmor Aglite Ultima (1050 kg/m³) or Besblock “Star Performer”
• internal finish – 13mm plaster or nominal 8 kg/m² gypsum-based board

Inner leaf where there is a separating floor

e.g. for flats/apartments

• if using robustdetails® for floor, refer to Table 3a in introduction to select an acceptable robustdetails® 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/m³ to 1600 kg/m³) or aircrete block (450 kg/m³ to 800 kg/m³) or Plasmor Aglite Ultima (1050 kg/m³) or Besblock “Star Performer”
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• 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)
3. Internal floor junction: timber floor supported on joist hangers

- Isover RD Party Wall Roll (no gaps to remain)
- Floor to comply with Building Regulations Requirement E2
- Continuous horizontal ribbon of adhesive

![Section diagram showing timber floor supported on joist hangers](image)

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

- Isover RD Party Wall Roll (no gaps to remain)
- Floor to comply with Building Regulations Requirement E2
- Internal floors should not be continuous between dwellings

Floor construction:
- timber joists built in with:
  - all voids around the joists filled with mortar
  - the joint interface between the joist and the mortar sealed with flexible sealant (see Appendix A for full specification), or
- beam and block floor with all voids filled with mortar, or
- concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant

![Section diagram showing timber floor joists built in](image)
5. Separating floor junction

- Isover RD Party Wall Roll (no gaps to remain)
- Separating wall must not be continuous between storeys
- 5mm (min) resilient flanking strip
- Concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant
- Separating floor must not be continuous between dwellings
- Separating floor:
  - if using robustdetails® for floor, refer to Table 3a in introduction and see separating floor Robust Detail for floating floor and ceiling options
  - if using floor requiring pre-completion testing, seek specialist advice
- Continuous horizontal ribbon of adhesive

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

- Isover RD Party Wall Roll (no gaps to remain)
- Ground floor not continuous between dwellings
- Ground floor construction:
  - timber joists built in with:
    - all voids around the joists filled with mortar
    - the joint interface between the joist and the mortar sealed with flexible sealant (see Appendix A for full specification), or
  - beam and block floor with all voids filled with mortar, or
  - concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant, or
  - ground bearing slab
- Cavity separating wall continuous to foundation, cavity fill may be provided below minimum clear cavity indicated. Continuous raft foundations between dwellings are not acceptable. Solid walls which support separating walls are only acceptable where each ground floor (not timber joists) is built into one side of the separating wall and breaks the vertical continuity of the wall and the minimum clear cavity indicated is maintained.
7. Roof junction – pitched roof without room-in-roof

Junction between separating wall and roof filled with flexible closer

Cavity masonry separating wall continuous to underside of roof. Alternatively use spandrel panel – see Appendix A

External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be bonded to one leaf

Continuous horizontal ribbon of adhesive

100mm (min) mineral wool insulation – 10 kg/m³ (min)

Isover RD Party Wall Roll (no gaps to remain)

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

Junction between separating wall and roof filled with flexible closer

100mm (min) mineral wool insulation minimum density 10 kg/m³ or 60mm (min) foil faced PUR or PIR insulation, minimum density 30 kg/m³ (See Appendix A)

2 layers of nominal 8 kg/m² gypsum-based board. Where used rigid insulation may be placed between and/or directly beneath rafters

Continuous horizontal ribbon of adhesive

Cavity masonry separating wall continuous to underside of roof covering

Isover RD Party Wall Roll (no gaps to remain)

External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be bonded to one leaf
# CHECKLIST (to be completed by site manager/supervisor)

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Item</th>
<th>Yes (✓)</th>
<th>No (✗)</th>
<th>Inspected (initials &amp; date)</th>
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<tr>
<td>1.</td>
<td>Is separating wall cavity at least 75mm?</td>
<td></td>
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<tr>
<td>2.</td>
<td>Is external (flanking) wall cavity at least 50mm?</td>
<td></td>
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<tr>
<td>3.</td>
<td>Are separating wall blocks lightweight aggregate (1350 to 1600 kg/m³) or Plasmor Aglite Ultima (1050 kg/m³)?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>If using Besblock “Star Performer”, is wall cavity 100mm (min), and are blocks laid with cells open to lower bed?</td>
<td></td>
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<tr>
<td>5.</td>
<td>Is cavity free from droppings and debris?</td>
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<tr>
<td>6.</td>
<td>Are separating wall ties to Approved Document E “Tie type A” (see Appendix A)?</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7.</td>
<td>Are cavity stops installed where specified in the Robust Detail?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Are joints fully filled?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Is Isover RD Party Wall Roll used?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Are insulation rolls tightly butted together?</td>
<td></td>
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<tr>
<td>11.</td>
<td>Are voids around floor joists, chases, etc. fully filled/sealed?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Where there is a separating floor (e.g. flats/apartments) has the resilient flanking strip been installed?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Are all junctions of wall and ceiling boards sealed with tape or caulked with sealant?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>14.</td>
<td>Is separating wall satisfactorily complete?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

**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.
Separating Wall – Cavity Masonry

Lightweight aggregate blocks ■ Isover RD Party Wall Roll ■
Gypsum-based board (nominal 8 kg/m²) on dabs ■

Block density 1350 to 1600 kg/m³
Wall ties Approved Document E ‘Tie type A’ (see Appendix A)
Cavity width 100mm (min)
Block thickness 100mm (min), each leaf
Wall finish Gypsum-based board (nominal 8 kg/m²) mounted on dabs
Insulation 100mm Isover RD Party Wall Roll
External (flanking) wall 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

- 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)
- 100mm 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/m³ to 1600 kg/m³) or aircrete block (450 kg/m³ to 800 kg/m³)
  - internal finish – 13mm plaster or nominal 8 kg/m² gypsum-based board

Inner leaf where there is a separating floor
- e.g. for flats/apartments
  - if using robustdetails® for floor, refer to Table 3a in introduction to select an acceptable robustdetails® 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

- 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/m³ to 1600 kg/m³) or aircrete block (450 kg/m³ to 800 kg/m³)
    - internal finish – 13mm plaster or nominal 8 kg/m² gypsum-based board

Inner leaf where there is a separating floor
- e.g. for flats/apartments
  - if using robustdetails® for floor, refer to Table 3a in introduction to select an acceptable robustdetails® 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

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

![Diagram of internal floor junction]

- 100mm Isover RD Party Wall Roll (no gaps to remain)
- Floor to comply with Building Regulations Requirement E2
- Continuous horizontal ribbon of adhesive

Section

100mm (min)

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

![Diagram of internal floor junction]

- 100mm Isover RD Party Wall Roll (no gaps to remain)
- Floor to comply with Building Regulations Requirement E2
- Internal floors should not be continuous between dwellings

Floor construction:
- timber joists built in with:
  - all voids around the joists filled with mortar
  - the joint interface between the joist and the mortar sealed with flexible sealant (see Appendix A for full specification), or
- beam and block floor with all voids filled with mortar, or
- concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant

Continuous horizontal ribbon of adhesive

Sketch shows timber joists built in
5. Separating floor junction

- 100mm Isover RD Party Wall Roll (no gaps to remain)
- Separating wall must not be continuous between storeys
- 5mm (min) resilient flanking strip
- Concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant
- Separating floor must not be continuous between dwellings
- Separating floor:
  - if using robustdetails® for floor, refer to Table 3a in introduction and see separating floor Robust Detail for floating floor and ceiling options
  - if using floor requiring pre-completion testing, seek specialist advice
- Continuous horizontal ribbon of adhesive

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

- 100mm Isover RD Party Wall Roll (no gaps to remain)
- Ground floor not continuous between dwellings
- Ground floor construction:
  - timber joists built in with:
    - all voids around the joists filled with mortar
    - the joint interface between the joist and the mortar sealed with flexible sealant (see Appendix A for full specification), or
  - beam and block floor with all voids filled with mortar, or
  - concrete planks with all voids between planks and blockwork filled with mortar or flexible sealant, or
  - ground bearing slab
- Cavity separating wall continuous to foundation, cavity fill may be provided below minimum clear cavity indicated. Continuous raft foundations between dwellings are not acceptable. Solid walls which support separating walls are only acceptable where each ground floor (not timber joists) is built into one side of the separating wall and breaks the vertical continuity of the wall and the minimum clear cavity indicated is maintained.
7. Roof junction – pitched roof without room-in-roof

Junction between separating wall and roof filled with flexible closer

Cavity masonry separating wall continuous to underside of roof. Alternatively use spandrel panel – see Appendix A

External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be bonded to one leaf

Continuous horizontal ribbon of adhesive

100mm (min) mineral wool insulation – 10 kg/m³ (min)

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

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

Junction between separating wall and roof filled with flexible closer

100mm (min) mineral wool insulation minimum density 10 kg/m³ or 60mm (min) foil faced PUR or PIR insulation, minimum density 30 kg/m³ (See Appendix A)

2 layers of nominal 8 kg/m² gypsum-based board. Where used rigid insulation may be placed between and/or directly beneath rafters

Continuous horizontal ribbon of adhesive

Cavity masonry separating wall continuous to underside of roof covering

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

External wall cavity closed at eaves level with a suitable flexible material (e.g. mineral wool). If a rigid material is used, then it should only be bonded to one leaf
CHECKLIST (to be completed by site manager/supervisor)

Company: 

Site: 

Plot: Site manager/supervisor: 

<table>
<thead>
<tr>
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<td>Are separating wall blocks lightweight aggregate (1350 to 1600 kg/m³)?</td>
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<td>Are separating wall ties to Approved Document E “Tie type A” (see Appendix A)?</td>
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<td>Are cavity stops installed where specified in the Robust Detail?</td>
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<tr>
<td>12.</td>
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<td></td>
<td></td>
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<tr>
<td>13.</td>
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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

Notes (include details of any corrective action)

Site manager/supervisor signature: 

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# Appendix A2 – Specific Flanking Conditions

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<td>Icopal-MONARFLOOR® Wall Cap RDA2 System for robust details® separating floors with cavity flanking walls</td>
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<td>RoofSpace I-Roof™ “room-in-roof” panel system using robust details® timber or masonry cavity walls</td>
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<td>Lightweight external cladding for robust details® timber separating walls</td>
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<tr>
<td>Flanking construction to robust details® precast concrete separating floors around private stairs</td>
<td>12</td>
</tr>
</tbody>
</table>
Appendix A2 – Specific Flanking Conditions

Icopal-MONARFLOOR® BRIDGESTOP® System for robust details® 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.

BRIDGESTOP® is the subject of Patent Application ref GB2429719

Contact details for Icopal-MONARFLOOR®:

Telephone: 0161 866 6540
Fax: 0161 865 8433
E-mail: acoustics.uk@icopal.com

The trade marks MONARFLOOR and BRIDGESTOP are the subject of UK trade mark registrations owned by Icopal Limited
Appendix A2 – Specific Flanking Conditions

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

1. Gable flanking junction – masonry

![Diagram of gable flanking junction – masonry]

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.

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

![Diagram of room-in-roof junction with masonry cavity walls]

Key
1
2
3
4
5

3. Gable flanking junction – timber frame

![Diagram of gable flanking junction – timber frame]

Key
1
2
3
4
5

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

![Diagram of room-in-roof junction with timber frame cavity walls]

Key
1
2
3
4
5

5. Separating wall – roof junction

![Diagram of separating wall – roof junction]

Key
1
2
3
4
5

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/m². 2 layers required where separating floors are used (refer to robust details® separating floor).
h Nominal 8mm render coat (refer to relevant robust details® 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/m².

Contact details for smartroof Limited:

**Telephone:** 01675 44 23 45
**Fax:** 01675 44 30 95
**E-mail:** info@smartroof.co.uk
**Web:** 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
2. Service void (if required).
3. One layer of gypsum-based board nominal 8 kg/m² on inner leaf where there is no separating floor, e.g. for houses.
   Two layers of gypsum-based board nominal 8 kg/m² 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
Web: www.tek.kingspan.com
Appendix A2 – Specific Flanking Conditions

Prestoplan PresPeak 60 interlocking single spandrel panel system for use on 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

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
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

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 leafs.
5. MONARFLOOR® RDA2 Tie to penetrate at max 450mm centres. Ties are reversible and may also be used as render depth gauges.

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 866 8433
E-mail: 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-Rooftm “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-Rooftm spandrel panel.
2 RoofSpace I-Rooftm 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/m².

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/m³. 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
Web: www.sigroofspace.co.uk
Appendix A2 – Specific Flanking Conditions

Space4 “room-in-roof” panel system using robustdetails® 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/m² gypsum-based board to ceiling.
b robustdetails® separating wall.
c Mineral wool 18-40 kg/m³.
d OSB underdraw overlaid with minimum 1 layer gypsum-based board nominal 16 kg/m² 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/m³.

Contact details for Space4:
Telephone: 0121 748 8383
Fax: 0121 776 7369
E-mail: technical@space4.co.uk
Web: www.space4.co.uk
Appendix A2 – Specific Flanking Conditions

Stewart Milne Timber Systems Sigma® Roof Spandrel Panel System for use on robust details® 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 leafs.
  e Angled screw fixings to secure spandrel to wall head.
  f Trusses and rafters must not contact both wall leafs.
  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
Web: 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/m²).
g Gypsum-based board (nominal 8 kg/m²).
h Min. 1 layer gypsum-based board (nominal 10 kg/m²).
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.

Contact details for NYTimber:
Telephone: 01609 751111
Fax: 01609 788388
E-mail: grayden@nytimber.co.uk
Web: 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

<table>
<thead>
<tr>
<th>Cladding Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Render board</td>
<td>Systems having minimum 9mm rigid render board with minimum mass per unit area of 12.4 kg/m². It is acceptable to have multiple board layers.</td>
</tr>
</tbody>
</table>
Appendix A2 – Specific Flanking Conditions

Flanking construction guidance for robust details® 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

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

The masonry wall block types must match those in the flanking wall options for the chosen floor or be referenced in these diagrams.

Twin-leaf timber frame may be used at first floor - see guidance below.

4.5mm (min) bonded resilient floor covering tested to comply with Appendix G applied to hallways, living rooms and bedrooms adjacent to stairway.

12.5mm gypsum board min 8 kg/m² on dados.

Min 48mm metal stud or timber stud offset from core wall by min 10mm.

Seal with mortar.

25-50mm mineral wool insulation min 10 kg/m³.

12.5mm gypsum board min 8 kg/m².

Min 10mm offset (stud framing must not touch masonry leaf).

Section A - solid walls

Min 200.

Timber stud twin frame min 50mm between studs with 12.5mm gypsum board min 8 kg/m² both sides.

Ensure gap is fully filled with mineral wool to full height of plank.

Seal with mortar.

4.5mm (min) bonded resilient floor covering tested to comply with Appendix G applied to hallways, living rooms and bedrooms adjacent to stairway.

Existing Robust Details

Precast concrete separating floor (see Table 6b in Introduction).

19mm timber batten or steel rail fixed through insulation.

25mm insulation min 10 kg/m³.

12.5mm gypsum board min 8 kg/m².

Min 48mm metal stud or timber stud offset from core wall by min 10mm.

25-50mm mineral wool insulation min 10 kg/m³.

12.5mm gypsum board min 8 kg/m².

8mm render coat.

12.5mm gypsum board min 8 kg/m² on dados.

215mm dense block 1850-2300 kg/m³ laid flat.

Min 10mm offset (stud framing must not touch masonry leaf).

Alternative Detail (cavity wall only).

Existing Robust Details

Precast concrete separating floor (see Table 6b in Introduction).
Appendix A2 – Specific Flanking Conditions

Section B - common junctions at stair landing

Timber stairs

Joint filled and sealed with grout or mortar

Concrete stairs

Joint filled and sealed with grout or mortar

Alternative Detail at floor/stair junction (can be used with any of the four configurations shown above)