Dear Colleague,

Thank you for downloading the April update – you’d be a fool not to!

This update includes pre-insulated concrete panels from Nu-Span and Spantherm for use as a suspended ground floor structure. As you’ll see in the revised Table 6a, these flooring systems can be used with the vast majority of robustdetails® cavity separating walls.

A second flanking construction comes in the form of a single-leaf spandrel panel to E-WM-31, and this option can be used in place of the existing twin-leaf spandrels where required. There has also been a change to the wall tie configuration in E-WM-31.

We have also provided additional clarification on the flanking options for E-FS-3; and the wall specification used within the private stairs solution in Appendix A2.

Away from the flanking theme, “energystore superbead” EPS insulation is now accepted as an alternative to mineral wool for filling the cavity of E-WM-18.

Please update your January 2018, 4th Edition Handbook as follows:

1. Remove and replace just last page 9/10 of the Introduction.
2. Remove and replace just last page 1/2 of E-WM-18.
5. Remove and replace page 1/2 and page 13/14 of Appendix A2.
6. Add page 15 to the end of Appendix A2.

Yours sincerely

John Thompson
Chief Executive, Robust Details Limited
## Changes to the fourth edition following April 2019 update

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Amendment</th>
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<tr>
<td><strong>Introduction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table 6a</td>
<td>9-10</td>
<td>New flanking construction, Nu-Span and Spantherm ground floor planks added along with acceptable wall types.</td>
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</table>

## Separating Wall – Masonry

**E-WM-18**

| Cavity insulation | 1 | “energystore superbead” added as a cavity insulation option. |

**E-WM-31**

| 4th bullet point | 1 | “SIG I-House” renamed as “RoofSpace I-House”. |
| Isometric | 1 | Wall ties increased to 3 per storey height. |
| Diagram 3 | 3 | Wall tie pattern changed to 3:2:3. |
| Diagram 7 | 5 | “SIG RoofSpace I-Roof” renamed as “RoofSpace I-Roof”. Alternative single-leaf spandrel option added. |
| Checklist | 6 | Item 6 changed to 3 ties per storey height. H+H UK added to Contacts box. |

## Separating Floor – Steel

**E-FS-3**

| Diagram 1 | 2 | Clarification on service zone option. |
| Checklist | 6 | Item 11 deleted; subsequent items renumbered. |

## Appendix A2

| Contents | 1 | New flanking construction added: Nu-Span and Spantherm pre-insulated ground floor concrete slabs. |
| Private stairs | 13 | Clarification on the masonry wall construction. |
| Nu-Span and Spantherm | 15 | New flanking construction added: Nu-Span and Spantherm pre-insulated ground floor concrete slabs. |
### Introduction

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

<table>
<thead>
<tr>
<th>Masonry walls</th>
<th>BRIDGESTOP® system</th>
<th>Smartroof system</th>
<th>Wall Cap RDA2</th>
<th>RoofSpace I-Roof</th>
<th>Space4 system</th>
<th>Stewart Mline Sigma® Panel</th>
<th>NYTROOF RAPID FIT SYSTEM</th>
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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

<table>
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<th>Stewart Sigma® Panel</th>
<th>Lightweight external cladding systems</th>
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</table>
Separating Wall – Cavity Masonry

**Block density**
1850 to 2300 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**
13mm plaster or cement: sand render with plaster skim (min 10 kg/m²), both sides

**External (flanking) wall**
Masonry (both leaves) with 50mm (min) cavity – clear, fully filled or partially filled with insulation

**Separating wall cavity insulation (optional)**
The cavity may be insulated with mineral wool with a maximum density of 40 kg/m³ or “energystore superbead” insulation.

**DO**
- Keep cavity and wall ties (and insulation) 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 and foundation (and insulation)
- Ensure that only solid blocks (i.e. not hollow or cellular) are used in the construction of separating and flanking walls
- 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
- Select an alternative Robust Detail if flues are required in the separating wall
- Refer to Appendix A
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)

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

- 100mm (min) concrete block (1350 kg/m³ to 1600 kg/m³ or 1850 kg/m³ to 2300 kg/m³) or aircrète 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, 1850 kg/m³ to 2300 kg/m³) or aircrète 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)
**DO**

- Keep cavity, insulation and wall ties free from debris
- Fully fill all joints
- Make sure there is no connection between the two leaves except for wall ties, insulation and foundation
- Ensure all insulation sections 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

---

**Attached houses only**
- H+H - Celcon Elements - thin joint
- Gypsum-based board (nominal 8 kg/m²) on dabs
- Used with ‘RoofSpace I-House System’

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<td>Wall ties must be Vista VE4, Ancon Building Products Staifix HRT4 or Clan PWT4 installed at no more than 3 ties per storey height (see section 3)</td>
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<tr>
<td>Cavity width</td>
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<tr>
<td>Element thickness</td>
<td>100mm (min), each leaf</td>
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<tr>
<td>Wall finish</td>
<td>Gypsum-based board (nominal 8 kg/m²) mounted on dabs</td>
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<tr>
<td>Insulation</td>
<td>100mm mineral wool maximum density 40 kg/m³</td>
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<td>External (flanking) wall</td>
<td>Celcon Elements or aircrète 450-800 kg/m³ 50mm (min) cavity – clear, fully filled or partially filled with insulation – and masonry outer leaf</td>
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</table>
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 mineral wool max. 40 kg/m³ (no gaps to remain)
- Inner leaf
  - Celcon Elements or aircrete block (450 kg/m³ to 800 kg/m³)
  - Internal finish – 8 kg/m² gypsum-based board

2. Staggered external (flanking) wall junction

- Masonry outer leaf
- External wall cavity (min 50mm)
- Inner leaf
  - Celcon Elements or aircrete block (450 kg/m³ to 800 kg/m³)
  - Internal finish – 8 kg/m² gypsum-based board
- See jointing options in diagram 1
- 100mm mineral wool max. 40 kg/m³ (no gaps to remain)
- Close external wall cavity with a flexible cavity stop. (Optional if external wall cavity is fully filled with built in mineral wool insulation)
3. Wall tie placement

Only the following wall ties are permitted:
- Vista VE4
- Ancon Building Products Staifix HRT4
- Clan PWT4

Wall ties to be positioned following the alternating pattern shown above.
No more than 3 ties per storey-height joint

4. Internal floor junction: timber floor joists built in

100mm mineral wool max. 40 kg/m³ (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 into aircrete block course:
  - 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)
5. Ground floor junction: beam and block or precast concrete plank

- 100mm mineral wool max. 40 kg/m³ (no gaps to remain)
- Celcon Elements
- Gypsum-based board (nominal 8 kg/m²) mounted on dabs
- Perimeter insulation isolating screed from wall
- Ground floor not continuous between dwellings

6. Ground floor junction: cast in-situ suspended concrete slab or ground bearing concrete slab

- 100mm mineral wool max. 40 kg/m³ (no gaps to remain)
- Celcon Elements
- Gypsum-based board (nominal 8 kg/m²) mounted on dabs
- Thin layer mortar
- DPM
- Levelling mortar bed as appropriate
- Floor slab
- Ground floor not continuous between dwellings
- Cavity fill may be provided below minimum clear cavity indicated. Continuous raft foundations between dwellings are not acceptable
7. Roof junction – pitched roof without room-in-roof

Junction between separating wall and roof filled with flexible closer

RoofSpace I-Roof™ spandrel panel

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)

Continuous horizontal ribbon of adhesive

100mm mineral wool max. 40 kg/m³ (no gaps to remain)

Alternative detail with single spandrel panel

Junction between separating wall and roof filled with flexible closer

RoofSpace I-Roof™ spandrel panel

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

Cavity closer

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

Continuous horizontal ribbon of adhesive

100mm mineral wool max. 40 kg/m³ (no gaps to remain)
## CHECKLIST (to be completed by site manager/supervisor)

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<tr>
<td>8.</td>
<td>Are joints fully filled?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Is 100mm mineral wool max. 40 kg/m³ used, with no gaps remaining?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Is spandrel wall plate fully bedded on mortar, with no air gaps?</td>
<td></td>
<td></td>
<td></td>
</tr>
<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 the ground floor has a floating floor treatment, has the perimeter insulation 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>
<td></td>
</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: H+H UK

**Telephone:** 01732 880580  
**Fax:** 01732 887013  
**E-mail:** technical@hhcelcon.co.uk

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

Site manager/supervisor signature: . . . . . . . . . . . . . . . . . . . . . . . . . . . .
Separating Floor – Metal Joists

**Collecta ScreedBoard® 28 on timber sub-floor**

- Use with lightweight metal frame walls only

### Materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating floor</td>
<td>Collecta ScreedBoard® 28</td>
</tr>
<tr>
<td>Floor decking</td>
<td>18mm thick (min) wood based board, density 600 kg/m³ (min)</td>
</tr>
<tr>
<td>Joists</td>
<td>254mm (min) deep metal joists</td>
</tr>
<tr>
<td>Absorbent material</td>
<td>100mm (min) mineral wool quilt insulation (10-36 kg/m³) between joists</td>
</tr>
<tr>
<td>Ceiling</td>
<td>See section 4 for suitable ceiling treatment</td>
</tr>
</tbody>
</table>

### DO

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

- Masonry outer leaf (min 100mm thick)
- 50mm (min) cavity
- 55mm (min) rigid insulation board
  (not required if using Fusion Thermashield)
- Mineral wool insulation batts, 33-60 kg/m³, between studs or use Fusion Thermashield
- YELOfon® FS50 flanking angle installed at perimeter and turned under skirting board
- ScreedBoard® 28
- Joists may span in either direction
- Close cavity with a cavity stop (see Appendix A)
- 100mm mineral wool insulation quilt, 10-36 kg/m³ (min)
- Cellecta HP30 resilient bar
- Seal all perimeter joints with tape or caulk with sealant
- 2mm resilient strip on top of wall panels
- Two layers gypsum-based board fixed to external steel frame nominal 25 kg/m² combined.
  Or if using Fusion Thermashield, this can be replaced with two layers gypsum-based board nominal 17.5 kg/m² combined, spaced off frame by min 25mm resilient bar or min 38mm batten

2. Separating wall junction

If using robustdetails® for wall - refer to Table 3c in Introduction to select an appropriate robustdetails® separating wall

If using wall requiring pre-completion testing - seek specialist advice

- Mineral wool insulation batts, 33-60 kg/m³, between studs to 600mm (min) above bottom rail of steel frame
- YELOfon® FS50 flanking angle installed at perimeter and turned under skirting board
- ScreedBoard® 28
- Flexible acoustic sealant below plasterboard
- 254mm (min) deep metal joists
- 100mm mineral wool insulation quilt, 10-36 kg/m³ (min)
- Ceiling treatment (see section 4)
- Resilient bar below joists at 600mm (max) centres fixed through joist flange to manufacturer’s detail
- 2mm resilient strip on top of wall panels
- Mineral wool insulation batts, 33-60 kg/m³, between studs to 600mm (min) below decking level
3. Internal wall junction

Where required internal wall to comply with Building Regulations Requirement E2

YELOfor® FS50 flanking angle

ScreedBoard® 28

Joist stiffener if required

Cellecta HP30 resilient bar

Mineral wool insulation batts, 33-60 kg/m³, between studs to 600mm (min) below decking level
4. Ceiling treatment for E-FS-3

- The maximum load on resilient bars should not exceed that specified in the manufacturer's instructions
- Ensure ceiling layers have staggered joints.
- Services must not puncture ceiling linings (except cables, which should be sealed around with flexible sealant)

**CT1 and CT2 – Must include second ceiling**

- 16mm (min) resilient bars with CT1 and CT2
- 16mm (min) metal resilient ceiling bars mounted at right angles to the joists at 400mm centres (bars must achieve a minimum laboratory performance of \( \Delta R_w + C_t = 17 \text{dB} \) and \( \Delta L_w = 16 \text{dB} \)) – see Appendix E

**Ceiling treatment CT1**

Two layers of gypsum-based board, composed of 19mm (nominal 13.5 kg/m²) fixed with 32mm screws, and 12.5mm (nominal 10 kg/m²) fixed with 42mm screws

**Ceiling treatment CT2**

Two layers of gypsum-based boards composed of 15mm (nominal 12.5 kg/m²) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 12.5 kg/m²) fixed with 42mm screws

**Downlighters and recessed lighting**

Downlighters or recessed lighting may be installed in the primary ceiling:
- in accordance with the manufacturer’s instructions
- at no more than one light per 2m² of ceiling area in each room unless the use of a greater density of light fittings is supported by testing undertaken in accordance with Appendix F
- at centres not less than 0.75m
- into openings not exceeding 100mm diameter or 100x100mm

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

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

**CT3 – Optional second ceiling**

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

**Ceiling treatment CT3**

Two layers of gypsum-based boards composed of 15mm (nominal 12.5 kg/m²) fixed with 25mm screws and second layer of 15mm gypsum-based board (nominal 12.5 kg/m²) fixed with 42mm screws

**Downlighters and recessed lighting**

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

Particular attention should also be paid to Building Regulations Part B - Fire Safety
5. Underfloor heating systems below ScreedBoard®

- YELOfon® FS50 flanking angle
- 20mm ScreedBoard® 20
- 25mm (min) extruded or expanded polystyrene panel with underfloor heating pipes
- 8mm FIBREfon® resilient layer
- Collecta HP30 resilient bar
- Seal all perimeter joints with tape or caulk with sealant
- 2mm resilient strip on top of wall panels

6. Services – pipes through separating floor

- Service pipe
- 25mm mineral fibre quilt insulation (10-36 kg/m²) installed around the complete perimeter of the service pipe. Where the service pipe penetrates the separating floor, all voids are to be packed with insulation quilt
- YELOfon® FS50 flanking angle installed at perimeter and turned under skirting board
- ScreedBoard® 28
- Close cavity with a cavity stop (see Appendix A)
- Proprietary fire collar fitted around pipe and fixed to underside of steel joists
- Collecta HP30 resilient bar
- 2 layers of gypsum-based board nominal 16 kg/m² combined fixed to 45mm metal frame stud forming duct. Joints to be staggered and taped
- Mineral wool insulation batts, 33-60 kg/m², between studs
**CHECKLIST** (to be completed by site manager/supervisor)

Company: 

Site: 

Plot: Site manager/supervisor: 

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Item</th>
<th>Yes</th>
<th>No</th>
<th>Inspected (initials &amp; date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Are metal joists minimum 254mm deep?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Is sub-deck minimum 18mm, 600 kg/m²?</td>
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<tr>
<td>3.</td>
<td>Are YELOfon® FS50 flanking angles installed correctly?</td>
<td></td>
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<tr>
<td>4.</td>
<td>Has the ScreedBoard® 28 floating floor treatment been fitted in accordance with the manufacturer's instructions?</td>
<td></td>
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<tr>
<td>5.</td>
<td>Where underfloor heating is used, is FIBREfon® 8 installed in addition to the ScreedBoard® 20?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6.</td>
<td>Are the correct type of resilient ceiling bars used and fitted, in accordance with the manufacturer's instructions, at right angles to the joists (Collecta® HP30 bars must be used if second ceiling is not included)?</td>
<td></td>
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<tr>
<td>7.</td>
<td>Has quilt (min 100mm thick) been fitted between the joists?</td>
<td></td>
<td></td>
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<tr>
<td>8.</td>
<td>Has ceiling system been fitted in accordance with the manufacturer's instructions?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Are the ceiling treatments fixed to the resilient bars with correct screws, such that the screws do not touch or penetrate the joists?</td>
<td></td>
<td></td>
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<tr>
<td>10.</td>
<td>For CT1 or CT2 is secondary ceiling void minimum 150mm?</td>
<td></td>
<td></td>
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<tr>
<td>11.</td>
<td>Are all joints sealed with tape or caulked with sealant?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.</td>
<td>Are vertical service pipes wrapped in quilt and boxed in with two layers of gypsum-based board combined nominal mass per unit area of 16 kg/m²?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.</td>
<td>Is separating floor satisfactorily complete?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact details for technical assistance from Collecta, manufacturer of ScreedBoard® 28 system: 

**Telephone:** 01634 296677 **Fax:** 01634 226630 **E-mail:** technical@cellecta.co.uk

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

Site manager/supervisor signature ...............................
## Appendix A2 – Specific Flanking Conditions

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<td>15</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

- [Diagram 1]
  - 1: Min 100mm block (with appropriate Type A wall ties) dependent on Robust Detail being used. Refer to Table 6a in the Introduction.
  - 2: Min 75mm or 100mm cavity width dependent on Robust Detail being used.
  - 3: Wall finish dependent on Robust Detail used.
  - 4: Floating screed on insulation; or timber floating floor types FFT2 resilient cradle and batten, FFT3 resilient batten, or FFT4 deep platform system.
  - 5: 150mm (min) thick insitu concrete 365kg/m² (min) mass per unit area or Insulslab SFRC.

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.

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

Section A - cavity walls

The masonry block types must match those of separating walls compatible with the chosen floor, or be referenced in these diagrams.

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

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

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

Section A - solid walls

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).

Existing Robust Details precast concrete separating floor (see Table 6b in Introduction).

Alternative Detail (cavity wall only).

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).

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 dabs.

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

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

Edition 4
April 2019 Update
This guidance relates only to specific aspects of Part E (England & Wales) & Part G (Northern Ireland)
Section B - common junctions at stair landing

Timber stairs

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)
Appendix A2 – Specific Flanking Conditions

Nu-Span and Spantherm pre-insulated ground floor concrete slabs for robustdetails® cavity separating walls. Refer to Table 6 in Introduction.

1. Slab installation - ground floor only

Min. 225mm cavity

Section Masonry walls

Section Timber and light steel frame walls

Key
1 Nu-Span or Spantherm pre-insulated slab, 300mm or 375mm deep. Slabs can be end-bearing or side-bearing.
2 Nominal 10mm self-levelling compound. Thicker screed layers are also acceptable.
a robustdetails® separating wall. Refer to Table 6a in the Introduction and relevant Robust Detail in the Handbook
b Maintain minimum cavity width specified for chosen robustdetails® separating wall. This can be insulated in accordance with the specification for the chosen wall type.

Contact details for Nu-Span:
Telephone: 01842 810445
E-mail: info@nu-span.com
Web: www.nu-span.com

Contact details for Spantherm:
Telephone: 01636 831043
E-mail: spantherm@creaghconcrete.com
Web: www.creaghconcrete.com

2. Slab components