Dear Colleague,

This is the first of the fully electronic updates to the Part E Robust Details Handbook.

As you may have seen on the recent email from us, the online Handbook has been amended to include the updates in this pack, but if you still have a hardcopy Handbook, please feel free to print off this pack (double-sided if you can), and insert the pages in your Handbook as described below.

In this update pack, we are pleased to include a further new wall type, E-WM-30. This is an aircrete block wall with a minimum 100mm cavity fully-filled with Knauf Party Wall Wool blown insulation, and has a gypsum board finish. This wall has demonstrated consistent performance at 5 dB improvement on Building Regulations. Please see the ratings tables on our website.

Additionally, Collecta’s E-FT-5 and E-FT-6 floors are now approved for use without the secondary ceiling. However, to use this new ceiling option, you must use the Collecta HP30 resilient bars. Following this amendment, E-FT-5 will retain the 1 Code for Sustainable Homes credit, but E-FT-6 will no longer be eligible for Code credits. (E-FT-6 previously achieved 1 credit, but on top-floor flats only).

Please update your June 2016, 4th Edition Handbook as follows:

1. Remove and replace all pages of the Introduction.
2. Insert the new Robust Detail E-WM-30 to the end of the Separating Walls, Masonry section.
3. Remove and replace all pages of E-FT-5.
4. Remove and replace all pages of E-FT-6.

Yours sincerely

John Tebbit
Chief Executive, Robust Details Limited
## Changes to the fourth edition following September 2016 update

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table 1</td>
<td>3</td>
<td>New Robust Detail separating wall E-WM-30 added.</td>
</tr>
<tr>
<td>Table 3a</td>
<td>6</td>
<td>New Robust Detail separating wall E-WM-30 added with valid combinations.</td>
</tr>
<tr>
<td>Table 4</td>
<td>8</td>
<td>New Robust Detail separating wall E-WM-30 added with relevant notes.</td>
</tr>
<tr>
<td>Table 6a</td>
<td>9</td>
<td>New Robust Detail separating wall E-WM-30 added with valid combinations.</td>
</tr>
</tbody>
</table>

**Separating Wall – Masonry**

**E-WM-30**

| All         | 1-6  | New Robust Detail separating wall added – Aircrete blockwork Knauf Party Wall Wool (gypsum-based board) with 100mm minimum cavity. |

**Separating Floor – Timber**

**E-FT-5**

| Isometric    | 1    | Second ceiling removed from illustration.                                 |
| Sections 1-4 | 2-3  | Second ceiling removed from illustrations; resilient bars replaced with HP30 bars. |
| Section 5    | 4    | Page reformatted to include new ceiling option CT3.                      |
| Sections 6-7 | 5    | Second ceiling removed from illustrations; resilient bars replaced with HP30 bars. |
| Checklist    | 6    | Notes added relating to new ceiling option CT3.                          |

**E-FT-6**

| Isometric    | 1    | Second ceiling removed from illustration.                                 |
| Sections 1-8 | 2-5  | Second ceiling removed from illustrations; resilient bars replaced with HP30 bars. |
| Section 9    | 6    | Page reformatted to include new ceiling option CT3.                      |
| Sections 10-11 | 7  | Second ceiling removed from illustrations; resilient bars replaced with HP30 bars. |
| Checklist    | 8    | Notes added relating to new ceiling option CT3.                          |
This Handbook contains the separating wall and separating floor constructions that have achieved the status of Robust Details for Part E of the Building Regulations (England and Wales) and Part G of the Building Regulations (Northern Ireland), “Resistance to the passage of sound”.

The Robust Details have undergone an extensive sound insulation testing regime, robust design analysis and independent audit and have satisfied the Robust Details Limited Management Board that they should provide a level of sound insulation compliant with Part E (England and Wales) and Part G (Northern Ireland).

The use of the robustdetails® scheme provides an alternative to pre-completion testing for demonstrating compliance with the performance standards for new build dwellings. Every dwelling built using the robustdetails® scheme needs to be registered with Robust Details Limited and a plot registration fee paid. Further information on the scheme (including how to apply for new Robust Details) is available on the Robust Details Limited web site at:

www.robustdetails.com

or from:

Robust Details Limited
Block E
Bletchley Park Science and Innovation Centre
Milton Keynes
Buckinghamshire
MK3 6EB

Telephone: 03300 882140 - Technical
03300 882141 - General
Fax: 01908 363433

Each Robust Detail includes materials and construction details for the separating wall/floor and its key interfaces with other elements and should be read in conjunction with Appendix A. The final page of each Robust Detail is a checklist, which should be photocopied and used by the site manager/supervisor to confirm that the separating wall/floor has been built correctly. The building control body may ask to see the checklist.

It is important that separating walls/floors and their associated junctions and flanking conditions are constructed entirely in accordance with the relevant Robust Detail; otherwise the building control body may require pre-completion testing to be carried out.

The tables on pages 5, 6 and 7 show which robustdetails® separating floors and walls can be used in flats/apartments.

Note:
The contents of this Handbook relate only to compliance with specific aspects of Part E (England and Wales) and Part G (Northern Ireland). Building work will also have to comply with all other relevant legislation and Parts of the Building Regulations.

Where sound testing is required on a wall or floor, the user should seek expert acoustic advice prior to construction commencing.

Terms and Conditions:
Please refer to www.robustdetails.com for full terms and conditions.
**Introduction**

**Special note for Robust Details constructed in Northern Ireland**

Members of an expert panel convened to advise NI Government on the subject, consider that the following Robust Details will integrate most readily with NI standards and methods of construction.

Other Robust Details may be suitable for use in NI, however, it is recommended that Building Control be consulted to ensure full compatibility with other NI Regulations and Standards.

<table>
<thead>
<tr>
<th>Masonry walls</th>
<th>E-WM-1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E-WM-2</td>
</tr>
<tr>
<td></td>
<td>E-WM-3</td>
</tr>
<tr>
<td></td>
<td>E-WM-4</td>
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<tr>
<td></td>
<td>E-WM-11</td>
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<td></td>
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<td></td>
<td>E-WM-21</td>
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</table>

<table>
<thead>
<tr>
<th>Concrete floors</th>
<th>E-FC-1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>E-FC-2</td>
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<td>E-FC-4</td>
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<td>E-FC-5</td>
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<tr>
<td></td>
<td>E-FC-13</td>
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<tr>
<td></td>
<td>E-FC-14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timber walls</th>
<th>E-WT-1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E-WT-2</td>
</tr>
<tr>
<td></td>
<td>E-WT-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timber floors</th>
<th>E-FT-1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E-FT-2</td>
</tr>
<tr>
<td></td>
<td>E-FT-3</td>
</tr>
<tr>
<td></td>
<td>E-FT-5</td>
</tr>
<tr>
<td></td>
<td>E-FT-6</td>
</tr>
</tbody>
</table>

| Steel floors           | E-FS-1  |

Note:
Refer to Tables 3a, 3b and 3c in the Introduction for valid combinations of the Robust Details walls and floors.
### Table 1 – Separating walls

<table>
<thead>
<tr>
<th>E-WM-1</th>
<th>masonry – dense aggregate blockwork (wet plaster)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-WM-2</td>
<td>masonry – lightweight aggregate blockwork (wet plaster)</td>
</tr>
<tr>
<td>E-WM-3</td>
<td>masonry – dense aggregate blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-4</td>
<td>masonry – lightweight aggregate blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-5</td>
<td>masonry – Besblock “Star Performer” cellular blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-6</td>
<td>masonry – aircrete blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-7</td>
<td>Suspended from further registrations</td>
</tr>
<tr>
<td>E-WM-8</td>
<td>masonry – lightweight aggregate blockwork Saint Gobain – Isover RD35 (gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-9</td>
<td>masonry – solid dense aggregate blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-10</td>
<td>masonry – aircrete thin joint blockwork with specified wall ties (render and gypsum-based board finish)</td>
</tr>
<tr>
<td>E-WM-11</td>
<td>masonry – lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-12</td>
<td>masonry – Plasmor “Agile Ultima” lightweight aggregate blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-13</td>
<td>masonry – aircrete thin joint - untied blockwork (render and gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-14</td>
<td>masonry – lightweight aggregate blockwork Saint Gobain - Isover RD35 (gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-15</td>
<td>masonry – aircrete blockwork Saint Gobain - Isover RD35 (gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-16</td>
<td>masonry – dense aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-17</td>
<td>masonry – lightweight aggregate blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board)</td>
</tr>
<tr>
<td>E-WM-18</td>
<td>masonry – dense aggregate blockwork (wet plaster) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-19</td>
<td>masonry – dense or lightweight aggregate blockwork (render and gypsum-based board) with 100mm minimum cavity and MONAFLOOR® BRIDGESTOP® system</td>
</tr>
<tr>
<td>E-WM-20</td>
<td>masonry – lightweight aggregate blockwork Saint Gobain - Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-21</td>
<td>masonry – lightweight aggregate blockwork (wet plaster) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-22</td>
<td>masonry – lightweight aggregate blockwork Knauf Earthwool Masonry Party Wall Slab or Superglass Party Wall Roll (gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-23</td>
<td>masonry – aircrete blockwork Superglass Party Wall Roll (gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-24</td>
<td>masonry – aircrete blockwork Saint Gobain-Isover RD Party Wall Roll (gypsum-based board) with 100mm minimum cavity</td>
</tr>
<tr>
<td>E-WM-25</td>
<td>masonry – Porotherm clay blockwork (Ecoparge and gypsum-based board) with 100mm minimum insulated cavity</td>
</tr>
<tr>
<td>E-WM-26</td>
<td>masonry – Besblock “Star Performer” cellular blockwork (gypsum-based board) with 100mm minimum insulated cavity</td>
</tr>
<tr>
<td>E-WM-27</td>
<td>masonry - lightweight aggregate blockwork Superglass Party Wall Roll (gypsum-based board) with minimum 75mm cavity</td>
</tr>
<tr>
<td>E-WM-28</td>
<td>masonry - lightweight aggregate blockwork Knauf Party Wall Wool (gypsum-based board) with minimum 100mm cavity</td>
</tr>
<tr>
<td>E-WM-29</td>
<td>masonry - Porotherm clay blockwork (Ecoparge and gypsum-based board) with 75mm minimum insulated cavity</td>
</tr>
<tr>
<td>E-WM-30</td>
<td>masonry - aircrete blockwork Knauf Party Wall Wool (gypsum-based board) with 100mm minimum cavity</td>
</tr>
</tbody>
</table>

See over for timber and steel frame walls
Introduction

List of Robust Details

Table 1 (continued) – Separating walls

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-WT-1</td>
<td>timber frame – without sheathing board</td>
</tr>
<tr>
<td>E-WT-2</td>
<td>timber frame – with sheathing board</td>
</tr>
<tr>
<td>E-WT-3</td>
<td>timber frame – Elecoframe prefabricated panels</td>
</tr>
<tr>
<td>E-WT-4</td>
<td>timber frame – Excel Industries Warmcell 500 insulation - with sheathing board</td>
</tr>
<tr>
<td>E-WS-1</td>
<td>steel frame – twin metal frame</td>
</tr>
<tr>
<td>E-WS-2</td>
<td>steel frame – British Gypsum Gypwall QUIET IWL</td>
</tr>
<tr>
<td>E-WS-3</td>
<td>steel frame – modular steel frame housing</td>
</tr>
<tr>
<td>E-WS-4</td>
<td>steel frame – twin metal frame - 250mm between linings</td>
</tr>
</tbody>
</table>
## Introduction

### List of Robust Details

**Table 2 – Separating floors**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-FC-1</td>
<td>precast concrete plank with directly applied screed and floating floor treatment</td>
</tr>
<tr>
<td>E-FC-2</td>
<td>in-situ concrete slab and floating floor treatment</td>
</tr>
<tr>
<td>E-FC-3</td>
<td>Suspended from further registrations</td>
</tr>
<tr>
<td>E-FC-4</td>
<td>precast concrete plank and Thermal Economics IsoRubber system and floating screed</td>
</tr>
<tr>
<td>E-FC-5</td>
<td>precast concrete plank and Collecta Yelofofn HD10+ system and floating screed</td>
</tr>
<tr>
<td>E-FC-6</td>
<td>beam and block with concrete topping Regupol E48 system and floating screed</td>
</tr>
<tr>
<td>E-FC-7</td>
<td>beam and block with concrete topping and floating floor treatment</td>
</tr>
<tr>
<td>E-FC-8</td>
<td>precast concrete plank with floating screed and bonded resilient floor covering</td>
</tr>
<tr>
<td>E-FC-9</td>
<td>precast concrete plank with directly applied screed and Thermal Economics IsoRubber top bonded resilient floor covering</td>
</tr>
<tr>
<td>E-FC-10</td>
<td>in-situ concrete slab with Thermal Economics IsoRubber top bonded resilient floor covering</td>
</tr>
<tr>
<td>E-FC-11</td>
<td>precast concrete plank and Icopal-MONARFLOOR® Tranquil and floating screed</td>
</tr>
<tr>
<td>E-FC-12</td>
<td>precast concrete plank and Thermal Economics IsoRubber Base HP3 system and floating screed</td>
</tr>
<tr>
<td>E-FC-13</td>
<td>precast concrete plank and InstaCoustic InstaLay 65 system and floating screed</td>
</tr>
<tr>
<td>E-FC-14</td>
<td>precast concrete plank and Thermal Economics IsoRubber Code layer and floating screed</td>
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<td>E-FC-15</td>
<td>precast concrete plank and Regupol Quietlay layer and floating screed</td>
</tr>
<tr>
<td>E-FC-16</td>
<td>precast concrete plank with directly applied screed and Thermal Economics IsoRubber CC3 bonded resilient floor covering</td>
</tr>
<tr>
<td>E-FC-17</td>
<td>precast concrete plank and Collecta YELOfon® HD10+ system and floating screed and Collecta ULTRA ceiling treatment</td>
</tr>
<tr>
<td>E-FT-1</td>
<td>timber I-joists and floating floor treatment</td>
</tr>
<tr>
<td>E-FT-2</td>
<td>timber solid joists and floating floor treatment</td>
</tr>
<tr>
<td>E-FT-3</td>
<td>MiTek Posi-Joist, Prestoplan PresWeb, WOLF easi-joist, ITW Gang-Nail Ecojoist or ITW Alpine SpaceJoist metal web timber joist and floating floor treatment</td>
</tr>
<tr>
<td>E-FT-4</td>
<td>timber Finnjoists with Finnforest Acoustic layer and Gyvlon screed</td>
</tr>
<tr>
<td>E-FT-5</td>
<td>Collecta ScreedBoard® 28 system on timber I-joists</td>
</tr>
<tr>
<td>E-FT-6</td>
<td>Collecta ScreedBoard® 28 system on metal web joists</td>
</tr>
<tr>
<td>E-FT-7</td>
<td>timber I-joists and FFT80 floating floor treatment</td>
</tr>
<tr>
<td>E-FT-8</td>
<td>timber solid joists and FFT80 floating floor treatment</td>
</tr>
<tr>
<td>E-FS-1</td>
<td>steel deck and in-situ concrete and floating floor treatment</td>
</tr>
<tr>
<td>E-FS-2</td>
<td>UltraBEAM metal joists and floating floor treatment</td>
</tr>
<tr>
<td>E-FS-3</td>
<td>Collecta ScreedBoard® 28 system on metal joists</td>
</tr>
</tbody>
</table>
Introduction

Table 3a – Combinations of Robust Details separating walls and floors for flats/apartments in loadbearing masonry constructions

<table>
<thead>
<tr>
<th>Separating walls</th>
<th>Separating floors</th>
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<td></td>
<td>E-FC-1</td>
</tr>
<tr>
<td>E-WM-1</td>
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</tr>
<tr>
<td>E-WM-3</td>
<td></td>
</tr>
<tr>
<td>E-WM-2</td>
<td></td>
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</tr>
<tr>
<td>E-WM-25</td>
<td></td>
</tr>
</tbody>
</table>

Key
F Only the separating floor requires pre-completion sound testing.
1 Where this combination is selected, 200mm (min) thick precast concrete planks and ceiling treatment CT5 must be used.
2 This combination can only be selected where the construction does not include Plasmor Aglith Ultima blocks (1050 kg/m³).

Combining robust details® loadbearing masonry walls and floors with robust details® lightweight framed separating walls

Upper storeys of blocks of flats may be constructed using lightweight steel or timber frame, where the lower storeys are loadbearing masonry.

The lightweight separating walls built directly off the uppermost concrete separating floors may be registered as Robust Details provided:
- the lightweight walls are in vertical alignment with the masonry walls below, such that they can follow the principles of the ground floor junction shown for the relevant robust details® separating wall;
- the external (flanking) wall construction above the separating floor meets the requirements on page 2 of the relevant robust details® separating wall, and has 2 layers of gypsum-based board;
- the junction between the bottom rail (or sole plate) is well sealed;
- all other relevant requirements in the Handbook are strictly followed.

The separating floor may be registered as a Robust Detail provided:
- the floor is constructed in accordance with the requirements of the published Detail;
- the external (flanking) wall below the precast concrete floor satisfies the requirements of detail 1 on page 2 of the relevant robust details® separating floor;
- all other relevant requirements in the Handbook are strictly followed.
### Table 3b – Combinations of Robust Details separating walls and floors for flats/apartments in timber frame constructions

<table>
<thead>
<tr>
<th>Separating walls</th>
<th>Separating floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E-FT-1</td>
</tr>
<tr>
<td></td>
<td>E-FT-2</td>
</tr>
<tr>
<td></td>
<td>E-FT-3</td>
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<tr>
<td></td>
<td>E-FT-4</td>
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<tr>
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<td>E-FT-5</td>
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<td>E-FT-8</td>
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<tr>
<td>E-WT-3</td>
<td>F</td>
</tr>
<tr>
<td>E-WT-4</td>
<td>F</td>
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</tbody>
</table>

See note 1

### Table 3c – Combinations of Robust Details separating walls and floors for flats/apartments in reinforced concrete and steel frame constructions

<table>
<thead>
<tr>
<th>Separating walls</th>
<th>Separating floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E-FC-2</td>
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<td>E-FC-10</td>
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<td>E-FS-1</td>
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<td>E-FS-2</td>
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<td>E-FS-3</td>
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<td>E-WS-3</td>
<td>W</td>
</tr>
<tr>
<td>E-WS-4</td>
<td>W</td>
</tr>
</tbody>
</table>

See note 1

Key for Table 3b and Table 3c

- **F** Only the separating floor requires pre-completion sound testing.
- **W** Only the separating wall requires pre-completion sound testing.

1. Lightweight steel and timber frame walls may be constructed above in-situ poured concrete floors. The lightweight walls built directly off the concrete floors may be registered as Robust Details provided:
   - they meet all other requirements of the Robust Detail, including flanking constructions;
   - the principles of the raft foundation junction are followed. As such, the concrete of the floor must have a mass of 365 kg/m² (min), and a floating floor treatment must be provided;

Walls constructed to the soffit of in-situ poured concrete floors cannot be registered as Robust Details and may be subject to pre-completion sound testing.

See also notes relating to Combining loadbearing masonry and lightweight framed separating walls included under Table 3a.
## Introduction

Table 4 – Combining Robust Details separating walls with non-Robust Details separating floors in flats/apartments

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Table 5 – Combining Robust Details separating floors with non-Robust Details separating walls in flats/apartments

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<td>Only the separating wall requires pre-completion testing provided the wall is constructed using aggregate blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the wall and floor need testing.</td>
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<td>W2</td>
<td>Only the separating wall requires pre-completion testing provided the wall is constructed using blocks specified for the inner leaf in the floor Robust Detail. Otherwise both the floor and wall need testing.</td>
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<tr>
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<td>Only the separating wall requires pre-completion testing if used with timber frame supporting walls and twin leaf timber frame separating walls. Otherwise both the floor and wall need testing.</td>
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<td>Only the separating wall requires pre-completion testing if used with steel frame supporting walls and twin leaf steel frame separating walls. Otherwise both the floor and wall need testing.</td>
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For any construction that requires a separating element to be tested, the user should seek expert acoustic advice on the design and potential acoustic performance.
## Introduction

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

<table>
<thead>
<tr>
<th>Masonry walls</th>
<th>BRIDGESTOP® system</th>
<th>Smartroof system</th>
<th>Kingspan TEK</th>
<th>Prestoplan</th>
<th>PresPeak 60</th>
<th>Wall Cap RDA2</th>
<th>RoofSpace I-Roof</th>
<th>Space4 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
Table 6a (continued) – Robust Detail separating walls which can be used together with the proprietary flanking constructions contained in Appendix A2

<table>
<thead>
<tr>
<th></th>
<th>BRIDGESTOP® Smartroof system</th>
<th>Kingspan TEK</th>
<th>Prestoplan PresPeak 60</th>
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## Introduction

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

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<td>Steel-concrete and steel floors</td>
<td>E-FS-1</td>
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<td>E-FS-3</td>
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</table>

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

<table>
<thead>
<tr>
<th></th>
<th>British Gypsum GypFloor</th>
<th>Insumatte insulation tray</th>
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<tr>
<td><strong>Concrete floors</strong></td>
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<td>E-FC-7</td>
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<td>E-FC-15</td>
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<td>E-FC-16</td>
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<td>E-FC-17</td>
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<tr>
<td><strong>Timber floors</strong></td>
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<td></td>
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<tr>
<td>E-FT-1</td>
<td>✓</td>
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<td>E-FT-2</td>
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<tr>
<td>E-FT-3</td>
<td>✓</td>
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<td>E-FT-4</td>
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<td>E-FT-5</td>
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<td>E-FT-6</td>
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<tr>
<td>E-FT-7</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>E-FT-8</td>
<td>✓</td>
<td></td>
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<tr>
<td><strong>Steel-concrete and steel floors</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-FS-1</td>
<td>✓</td>
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<td>E-FS-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E-FS-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Separating Wall – Cavity Masonry

- Aircrete blocks - standard and thin joint
- Knauf Insulation Supafil® Party Wall blown glass mineral wool insulation
- Gypsum-based board (nominal 8 kg/m²) on dabs

### Block density
- 600 to 800 kg/m³

### Wall ties
- Approved Document E ‘Tie type A’ (see Appendix A)
  - For thin joint, wall ties must be Ancon Building Products Staifix HRT4 or Clan PWT4 installed at no more than 2.5 ties per square metre

### Cavity width
- 100mm (min)

### Block thickness
- 100mm (min), each leaf

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

### Insulation
- Knauf Supafil® Party Wall blown glass mineral wool insulation

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

---

**DO**

- Keep cavity 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
- Supafil® Party Wall is only to be installed by contractors approved by Knauf Insulation; and must not exceed 25 kg/m³ density once installed

- Ensure all injection holes are drilled through mortar joints, and made good by fully filling with mortar
- 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
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)
Supafi® Party Wall
Inner leaf where there is no separating floor e.g. for houses
• 100mm (min) 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) 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
Supafi® Party Wall
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

Section

100mm (min)

Supafil® Party Wall

Floor to comply with Building Regulations Requirement E2

Continuous horizontal ribbon of adhesive

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

Section

100mm (min)

Supafil® Party Wall

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

Separating wall must not be continuous between storeys
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
• at least one storey of the separating wall flanking the separating floor must be built in aircrète of minimum density 680 kg/m³
• if using floor requiring pre-completion testing, seek specialist advice
Continuous horizontal ribbon of adhesive

Sketch shows E-FC-4 type separating floor and CT0 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

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)
- Supafil® Party Wall

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
- Supafil® Party Wall
- 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Is separating wall cavity at least 100mm?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Is external (flanking) wall cavity at least 50mm?</td>
<td></td>
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</tr>
<tr>
<td>3.</td>
<td>Are separating wall blocks aircrete (600 to 800 kg/m³)?</td>
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<tr>
<td>4.</td>
<td>Is cavity free from droppings and debris?</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>5.</td>
<td>Are separating wall ties to Approved Document E “Tie type A” (see Appendix A)? For thin joint, are wall ties Ancon Staifix HRT4 or Clan PWT4 installed at no more than 2.5 ties per square metre?</td>
<td></td>
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<tr>
<td>6.</td>
<td>Are cavity stops installed where specified in the Robust Detail?</td>
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<tr>
<td>7.</td>
<td>Are joints fully filled?</td>
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<tr>
<td>8.</td>
<td>Is blue Supafil® Party Wall installed to a maximum density of 25 kg/m³, and was it by an approved installer?</td>
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<tr>
<td>9.</td>
<td>Are all injection holes drilled through the mortar joints, and made good by fully filling with mortar?</td>
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<tr>
<td>10.</td>
<td>Are voids around floor joists, chases, etc. fully filled/sealed?</td>
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<tr>
<td>11.</td>
<td>Where there is a separating floor (e.g. flats/apartments) has the resilient flanking strip been installed?</td>
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<tr>
<td>12.</td>
<td>Are all junctions of wall and ceiling boards sealed with tape or caulked with sealant?</td>
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<tr>
<td>13.</td>
<td>Is separating wall satisfactorily complete?</td>
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</tr>
</tbody>
</table>

Contact details for technical assistance from Knauf Insulation Ltd, manufacturer of Supafil® Party Wall:

**Telephone:** 01744 766 666  
**E-mail:** technical.uk@knaufinsulation.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 Floor – Timber I-Joists**

**Collecta® ScreedBoard® 28 on timber sub-floor**
- Timber I-Joists
- Use with timber frame walls only

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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<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>240mm (min) timber I-joist</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 5 for ceiling treatment</td>
</tr>
</tbody>
</table>

**DO**

- Lay quilt (min 100mm thick) between all joists, including doubled up timber I-joists, ensuring no gaps remain
- Apply Collecta® SB adhesive to all ScreedBoard® 28 decking joints
- Install Collecta® YELOfon® 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 5)
- Stagger joints in ceiling layers
- Refer to Appendix A

**Note:** Structural framing details may vary slightly between different manufacturers and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.
1. External (flanking) wall junction

- Masonry outer leaf
- External wall cavity (min 50mm)
- Mineral wool insulation 10 kg/m³ (min)
- Two layers gypsum-based board nominal 8 kg/m² each layer
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- Close cavity with a cavity stop (see Appendix A)
- Joists may span in either direction
- Close spaces between floor joists with full depth timber blocking or continuous header joist where joists are at right angles to the wall
- Seal all perimeter joints with tape or caulk with sealant

2. Separating wall junction

If using robust details® for wall - refer to Table 3b in introduction to select an appropriate robust details® separating wall

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

- Two layers gypsum-based board total nominal mass per unit area 22 kg/m² both sides
- YELOfon® FS50 flanking angle
- Close spaces between floor joists with full depth timber blocking or continuous header joist where joists are at right angles to the wall
- Joists may span in either direction
- Seal all perimeter joints with tape or caulk with sealant
- Close cavity with a cavity stop (see Appendix A)
- Two layers gypsum-based board nominal 8 kg/m² each layer
- YELOfon® FS50 flanking angle
3. Internal wall junction (non loadbearing)

- Resilient bar nogging
- Headplate fixed to resilient bar nogging
- Seal all perimeter joints with tape or caulk with sealant
- Where required internal wall to comply with Building Regulations Requirement E2
- Ensure fixings do not penetrate the resilient layer

4. Internal wall junction (loadbearing)

- Seal all perimeter joints with tape or caulk with sealant
- Where required internal wall to comply with Building Regulations Requirement E2
- YELOfon® FS50 flanking angle
- Two layers gypsum-based board nominal 8 kg/m² each layer
- YELOfon® FS50 flanking angle

Alternative detail
Separating Floor – Timber I-Joists

5. Ceiling treatment for E-FT-5

- 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

150mm (min)

12.5mm ceiling board
nominal 8 kg/m²

CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS

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 $rd \Delta W + Ctr = 17$ dB and $rd \Delta Lw = 16$ 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 second ceiling in accordance with the manufacturer's instructions

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 “Determination 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 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
6. Undefloor heating systems below ScreedBoard®

- YELOfor® FS50 flanking angle
- 20mm ScreedBoard® 20
- 25mm (min) extruded or expanded polystyrene panel with underfloor heating pipes
- 8mm Collecta® FIBREfor® 8 resilient layer

7. Services – pipes through separating floor

- 25mm (min) mineral wool quilt (10-36 kg/m²) around pipe
- Pipe boxed in with two layers of gypsum-based board combined nominal 16 kg/m²
- YELOfor® FS50 flanking angle
- ScreedBoard® 28
- All voids around pipe sealed
## 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Are timber I-joists minimum 240mm deep?</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td>Is sub-deck minimum 18mm, 600 kg/m³?</td>
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<tr>
<td>3.</td>
<td>Are YELOfon® FS50 flanking angles installed correctly?</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>
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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>
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<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>
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<tr>
<td>7.</td>
<td>Has quilt (min 100mm thick) been fitted between the joists?</td>
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<tr>
<td>8.</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>
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<tr>
<td>9.</td>
<td>For CT1 or CT2 is secondary ceiling void minimum 150mm?</td>
<td></td>
<td></td>
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<tr>
<td>10.</td>
<td>Are all joints sealed with tape or caulked with sealant?</td>
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<tr>
<td>11.</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>12.</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@collecta.co.uk

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

Site manager/supervisor signature: .................................

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Separating Floor – Metal Web Joists

**Joist type**

**IMPORTANT**

Only the following metal web joists may be used in E-FT-6:
- MiTek Posi-Joist
- Prestoplan PresWeb
- WOLF easy-joist
- ITW Gang-Nail Ecojoist
- ITW Alpine SpaceJoist

**Notes:**

Although single header and sole plates are indicated, increasing the number of header and sole plates would be acceptable, however, all dimension specifications within this Robust Detail must be adhered to.

Metal web joists can be **top chord/flange** supported or **fully built-in** and supported on the panel and this is permitted, however, all dimension specifications within this Robust Detail must be adhered to.

**DO**

- Ensure correct metal web joists are being used (see joist type)
- Lay quilt (min 100mm thick) between joists ensuring no gaps remain
- Apply *Collecta®* SB adhesive to all ScreedBoard® 28 decking joints
- Install *Collecta®* YELOfon® 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 timber floor ceiling treatment is fixed correctly (see section 9)
- Stagger joints in ceiling layers
- Refer to Appendix A

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

- Timber flange and metal web joists
- Use with timber frame walls only

**Floating floor** *Collecta®* ScreedBoard® 28

**Floor decking** 18mm thick (min) wood based board, density min 600 kg/m³

**Joists** 253mm (min) metal web joists (see joist type below)

**Absorbent material** 100mm (min) mineral wool quilt insulation (10–36 kg/m³) between joists

**Ceiling** See section 9 for suitable ceiling treatment
1. External (flanking) wall junction (top chord supported)

- Masonry outer leaf
- External wall cavity (min 50mm)
- Mineral wool insulation 10 kg/m³ (min)
- Two layers gypsum-based board nominal 8 kg/m² each layer
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- Close cavity with a cavity stop (see Appendix A)
- Softwood timber infill between supporting top chords/flanges of joists built into frame to support floor (Bottom chord not built into frame)
- Joists may span in either direction
- Ring beams packed to stud width
- Seal all perimeter joints with tape or caulk with sealant
- Site fixed sheathing board for depth of floor

2. External (flanking) wall junction (fully built-in)

- Masonry outer leaf
- External wall cavity (min 50mm)
- Mineral wool insulation 10 kg/m³ (min)
- Two layers gypsum-based board nominal 8 kg/m² each layer
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- Close cavity with a cavity stop (see Appendix A)
- Joists may span in either direction
- Trimable blocking to end of joist
- Close spaces between floor joists with full depth timber blocking or continuous header joist where joists are at right angles to the wall
- Seal all perimeter joints with tape or caulk with sealant
- Site fixed sheathing board for depth of floor
3. Separating wall junction (top chord supported)

If using **robust details**® for wall - refer to Table 3b in introduction to select an appropriate **robust details**® separating wall

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

Two layers gypsum-based board total nominal mass per unit area 22 kg/m² both sides

YELOfon® FS50 flanking angle

ScreedBoard® 28

Softwood timber infill between supporting top chords/flanges of joists

Joists may span in either direction

Softwood timber nogging for resilient bar support (leave a small gap at end of resilient bar)

Ring beams packed to stud width

Seal all perimeter joints with tape or caulk with sealant

Close cavity with a cavity stop (see Appendix A)

4. Separating wall junction (fully built-in)

If using **robust details**® for wall - refer to Table 3b in introduction to select an appropriate **robust details**® separating wall

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

Two layers gypsum-based board total nominal mass per unit area 22 kg/m² both sides

YELOfon® FS50 flanking angle

ScreedBoard® 28

Close spaces between floor joists with full depth timber blocking or continuous header joist where joists are at right angles to the wall

Joists may span in either direction

Softwood timber nogging for resilient bar support (leave a small gap at end of resilient bar)

Seal all perimeter joints with tape or caulk with sealant

Close cavity with a cavity stop (see Appendix A)
5. Non loadbearing internal wall perpendicular to joists

- Seal all perimeter joints with tape or caulk with sealant
- Headplate fixed to joist
- Where required internal wall to comply with Building Regulations Requirement E2
- Ensure fixings do not penetrate the resilient layer
- ScreedBoard® 28
- Metal web joist (see joist type, page 1)

6. Non loadbearing internal wall parallel to joists

- Ensure fixings do not penetrate the resilient layer
- ScreedBoard® 28
- Extra metal web joist (see joist type, page 1) under internal wall
- Floor decking
- Headplate fixed to joist
- Softwood timber noggings for resilient bar support (leave a small gap at end of resilient bar)
- Seal all perimeter joints with tape or caulk with sealant

Alternative detail

- 89 x 38mm (min) noggings hung on Z Clips at each end at 600mm c/c (max)
- Z Clip
- Partition head noggings at 400mm c/c to support resilient bar
7. Loadbearing internal wall perpendicular to joists

- Internal loadbearing wall
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- Floor decking
- Softwood timber infill between supporting top chords/flanges where required
- Internal wall beams
- Headplate fixed to internal wall beams
- Seal all perimeter joints with tape or caulk with sealant
- Metal web joist (see joist type, page 1)

Note: Main detail shows top chord/flange supported
Alternative detail shows bottom chord supported

8. Loadbearing internal wall parallel to joists

- Seal all perimeter joints with tape or caulk with sealant
- Headplate fixed to internal wall beams
- Internal loadbearing wall
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- Floor decking
- Softwood timber infill between supporting top chords/flanges where required
- Internal wall beams
- Headplate fixed to internal wall beams
- Softwood timber noggings for resilient bar support (leave a small gap at end of resilient bar)
- Metal web joist (see joist type, page 1)

Note: Detail shows top chord/flange supported
9. Ceiling treatment for E-FT-6

- 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**

**CEILING BOARD FIXINGS MUST NOT PENETRATE OR TOUCH JOISTS**

**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 $\Delta R_{w}+C_{tr}=17dB$ and $\Delta L_{w}=16dB$) – 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 42 mm 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 “Determination 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**

150mm (min) 12.5mm ceiling board nominal 8 kg/m²

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
10. Underfloor heating systems below ScreedBoard®

- YELOfon® FS50 flanking angle
- 20mm ScreedBoard® 20
- 25mm (min) extruded or expanded polystyrene panel with underfloor heating pipes
- 8mm Collecta® FIBRefon® 8 resilient layer

11. Services – pipes through separating floor

- 25mm (min) mineral wool quilt (10-36 kg/m³) around pipe
- Pipe boxed in with two layers of gypsum-based board, combined nominal 16 kg/m²
- YELOfon® FS50 flanking angle
- ScreedBoard® 28
- All voids around pipe sealed

Sketch shows top chord supported external (flanking) wall junction detail, for fully built-in arrangement see section 2
### CHECKLIST (to be completed by site manager/supervisor)

**Company:**

**Site:**

**Plot:** Site manager/supervisor:

<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 correct metal web joists being used (see page 1 of Robust Detail)?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Which of the permitted metal web joist types are being used?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Are joists at least 253mm deep?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Are YELOfon® FS50 flanking angles installed correctly?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Has the ScreedBoard® 28 floating floor treatment been fitted in accordance with the manufacturer’s instructions?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</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>7.</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>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Has quilt (min 100mm thick) been fitted between the joists</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>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>For CT1 or CT2 is secondary ceiling void minimum 150mm?</td>
<td></td>
<td></td>
<td></td>
</tr>
<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 .................................

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