Separating walls

Creating quiet, comfortable and safe living environments between adjoining homes.
Separating walls

Discover more on legislation throughout England, Wales and Scotland in this section, and how our systems can help provide solutions for separating walls to achieve regulatory and enhanced acoustic performance levels. Find out about the performance benefits of plaster and use our handy Thistle plaster selector guide to choose the right solution for your masonry background.
Legislation and guidance

England and Wales - national Building Regulations Approved Document E

Approved Document E (ADE) gives guidance on how to provide reasonable standards of sound insulation in dwellings and other residential buildings. It covers both new-build and refurbishment or conversion, and includes minimum standards of performance for separating walls. The standards below have applied for all new-build homes and purpose-built rooms for residential purposes since July 2004.

<table>
<thead>
<tr>
<th>Where applicable</th>
<th>Minimum airborne sound insulation (site test result) $D_{nTw} + Ctr$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Separating walls between new homes</td>
<td>45 dB</td>
</tr>
<tr>
<td>Separating walls between purpose-built rooms for residential purposes</td>
<td>43 dB</td>
</tr>
<tr>
<td>Separating walls between rooms created by a change of use or conversion</td>
<td>43 dB</td>
</tr>
</tbody>
</table>

NB Following the devolution of powers in 31st December 2011, it is possible that separate Approved Documents will be published for Wales. Until such time, current guidance continues to apply.

Complying with the regulations

In England and Wales, housebuilders can follow one of two routes to demonstrate compliance for new-build houses and apartments:
- Using ‘Robust Detail’ constructions
- Using manufacturers’ proprietary systems or ADE ‘Guidance Constructions’ and verifying by Pre-Completion Testing

Robust Detail constructions

Robust Detail (RD) constructions can be used in new houses and apartments as an alternative to Pre-Completion Testing. British Gypsum versions of RD constructions can be found within the construction details later in this section. If you are following the RD route, you must register each plot, with the details you intend to use, and pay a fee. You will then be given a registration certificate to hand to your building control authority before work starts.

If you are building to either the Code for Sustainable Homes, or EcoHomes, RDs may entitle you to additional credits under the Health and Wellbeing category – check the Robust Details Handbook for the most up-to-date details.
Legislation and guidance (cont’d)

Pre-Completion Testing
Where Robust Details are not used, manufacturer’s proprietary systems, or Approved Document E Guidance Constructions can be used and verified by Pre-Completion Testing. This is the only means of compliance allowed for purpose-built rooms for residential purposes and conversion or refurbishment projects.

Pre-Completion Testing ensures the required performance of separating wall and floor constructions is being achieved on-site, prior to completion. It is not required for internal space division within dwellings – walls between living spaces in the same home, corridors, stairwells, or hallways.

If this route is chosen:
– Separating constructions in **10% of all dwellings, or construction types**, must be tested
– Tests should be carried out once **the separating construction is complete**, except for decoration

Test results only apply to the particular constructions tested, but are indicative of the performance of others of the same type, in the same development.

Once likely completion times are known, Building Control will ask for one set of tests on the first house, flat or residential room scheduled for completion in each group or sub-group, regardless of development size. If the development is only a single home, it must be tested.

Failure in any one of the individual airborne or impact sound tests will result in failure of the set of tests. Appropriate remedial treatment must then be carried out to the satisfaction of Building Control, and will result in an increase in testing rates until they are satisfied that the problem has been solved.

Junctions
Developers should ensure that all the guidance contained within this publication, and supporting regulations and legislation, are followed and should pay particular care with flanking construction and junctioning details. Poor detailing may prevent full design performance from being achieved on-site. Take care at junctions between the separating floor and external walls, other separating structures, penetrations and door openings. Pre-Completion Testing exposes poor flanking detail and inadequate separating wall specification. Good detailing and specification is essential to provide a margin of safety on-site.

For guidance see page 135 Flanking details

Where additional performance is needed either as an additional margin of safety or for higher quality developments, see our **Standard plus** and **Superior** solutions on pages 77 to 103.
Legislation and guidance (cont'd)

Scotland – Domestic Technical Handbook Section 5: Noise

A new version of the Domestic Technical Handbook Section 5 was published in October 2010, which increased the standards of sound insulation for separating walls in homes.

This was the first major review of standards for more than 20 years. Its aim is to limit sound transmission from differently occupied parts of a building, and from attached buildings, to a level that will not threaten the health of occupants.

The standards below now apply for all separating wall constructions in new build or converted homes and ‘traditional buildings’.*

<table>
<thead>
<tr>
<th>Where applicable</th>
<th>Minimum airborne sound insulation (site test result) $D_{n,T,w}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Separating walls between new homes, purpose-built rooms for residential purposes and conversions (not including traditional buildings*)</td>
<td>56 dB</td>
</tr>
<tr>
<td>Separating walls between homes or rooms created by a change of use or conversion (traditional buildings*)</td>
<td>53 dB</td>
</tr>
</tbody>
</table>

*Traditional buildings - generally buildings or parts of buildings built pre-1919 using construction techniques of the day, with permeable components that help dissipate moisture from the fabric.

Complying with the regulations

Since January 2012, housebuilders and developers in Scotland can use one of three routes to comply with Section 5 performance standards for new-build houses and apartments. The Post-Completion Testing route, however, remains the only means of compliance for purpose-built rooms for residential purposes and conversions:

- Using ‘Robust Detail’ constructions
- Using ‘Example Constructions’ and verifying by Post-Completion Testing
- Using ‘Other Constructions’ and verifying by Post-Completion Testing

Robust Detail constructions

Since 2012, Robust Detail (RD) constructions can be used in new houses and apartments as an alternative to Post-Completion Testing in Scotland. British Gypsum versions of RD constructions can be found within the construction details later in this section. If you are following the RD route, you must register each plot, with details of the RD(s) you intend to use, and pay a fee. You will then be given a registration certificate to hand to your building control authority before work starts.
Legislation and guidance (cont’d)

‘Example Constructions’
These are constructions developed to repeatedly achieve required design performance levels, if built right with correctly
designed flanking details. Use of these constructions does not guarantee regulatory performance levels will be achieved, and
the onus is therefore on the housebuilder to demonstrate compliance by Post-Completion Testing on site (see below).

‘Other Constructions’
These include manufacturers’ proprietary solutions and new, or innovative, constructions not considered to be ‘Example
Constructions’. Again, the onus is on the housebuilder to demonstrate compliance by Post-Completion Testing.

‘Post-Completion Testing’
Post-Completion Testing is carried out when the building is complete, with doors, access hatches and windows fitted.

To achieve the required approval, homes should be tested as below:

<table>
<thead>
<tr>
<th>Type of construction</th>
<th>Number of attached dwellings</th>
<th>Number of tests for separating walls (flats or maisonettes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New-build using ‘Example Constructions’</td>
<td>2-20</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>21-40</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Over 40</td>
<td>1 extra for every 20 flats or maisons (or part thereof)</td>
</tr>
<tr>
<td>New-build using ‘Other Constructions’</td>
<td>2-10</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>11-20</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>21-30</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Over 30</td>
<td>1 extra for every 10 flats or maisons (or part thereof)</td>
</tr>
</tbody>
</table>

If a test fails due to the construction of the separating floor or associated flanking elements, other untested rooms may be
affected. This will result in additional testing requirements, over and above those in the table above. It may be prudent to
seek specialist advice to identify and remedy any problems.

Junctions
Developers should ensure that all the guidance contained within this publication, and supporting regulations and legislation,
are followed and should pay particular care with flanking construction and junctioning details. Poor detailing may prevent
full design performance from being achieved on-site. Take care at junctions between the separating floor and external walls,
other separating structures, penetrations and door openings. Post-Completion Testing exposes poor flanking detail and
inadequate separating wall specification. Good detailing and specification is essential to provide a margin of safety on-site.

For guidance see page 135 Flanking details

Where additional performance is needed either as an additional margin of safety
or for higher quality developments, see our Standard plus and Superior solutions
on pages 77 to 103.
## System reference for separating walls

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Build method</th>
<th>Detail / Wall type</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved Document E (England and Wales) and Technical Handbook Section 5 (Scotland) stipulate a minimum level of sound insulation which must be achieved on-site. These separating wall constructions have been shown to have the capability of meeting the minimum standard for purpose-built rooms for residential purposes and conversion projects.</td>
<td>Masonry</td>
<td>Proprietary</td>
<td>British Gypsum Approved System England and Wales</td>
</tr>
<tr>
<td>The following ‘Robust Detail’, ‘Guidance’ and ‘Example’ constructions are capable of meeting the minimum standards laid down in Approved Document E (England and Wales) and Technical Handbook Section 5 (Scotland) for separating walls in new-build houses and apartments, purpose built rooms for residential purposes, and conversion projects. Robust Details, however, offer proven sound performance, and avoid the need for testing on-site.</td>
<td>Masonry</td>
<td>E-WM-1</td>
<td>Robust Detail England and Wales</td>
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<tr>
<td></td>
<td></td>
<td>E-WM-1</td>
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<td>Wall type 2.2</td>
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<tr>
<td></td>
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<td>Wall type 3.1</td>
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<td></td>
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<td>Steel</td>
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<td></td>
<td></td>
<td>E-WS-1</td>
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<td></td>
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<td>E-WS-2</td>
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<tr>
<td></td>
<td></td>
<td>Proprietary</td>
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</tbody>
</table>
Approved Document E (England and Wales) and Technical Handbook Section 5 (Scotland) stipulate a minimum level of sound insulation which must be achieved on-site. These separating wall constructions have been shown to have the capability of meeting the minimum standard for purpose-built rooms for residential purposes and conversion projects.

### Masonry Proprietary

- **DriLyner** S1 masonry wall lining
  - Page: 64
  - Detail: 17
- **GypLyner** UNIVERSAL masonry wall lining
  - Page: 64
  - Detail: 18
- Timber stud and Gypframe RB1 Resilient Bar
  - Page: 65
  - Detail: 19

### Timber Proprietary

- **British Gypsum** Approved System
  - England and Wales
- **GypLyner** UNIVERSAL masonry wall lining
  - Page: 64
  - Detail: 17

### Steel Proprietary

- **British Gypsum** Approved System
  - England, Wales and Scotland
- **GypWall** CLASSIC
  - Page: 66
  - Detail: 20
- **GypWall** QUIET SF
  - Page: 66
  - Detail: 21
- **GypWall** QUIET IWL
  - Page: 67
  - Detail: 22

### Standard performance

The following ‘Robust Detail’, ‘Guidance’ and ‘Example’ constructions are capable of meeting the minimum standards laid down in Approved Document E (England and Wales) and Technical Handbook Section 5 (Scotland) for separating walls in new-build houses and apartments, purpose-built rooms for residential purposes, and conversion projects. Robust Details, however, offer proven sound performance, and avoid the need for testing on-site.

- **Dense aggregate cavity masonry wall (plastered)**
  - Page: 68
  - Detail: 23
- **Dense aggregate cavity masonry wall (plaster and insulation)**
  - Page: 68
  - Detail: 24
- **Dense aggregate solid masonry wall (parged and drylined)**
  - Page: 69
  - Detail: 25
- **Aircrete thin joint cavity masonry wall (parged and drylined)**
  - Page: 69
  - Detail: 26
- **Plasmor Aglite Ultima cavity masonry wall (parged and drylined)**
  - Page: 70
  - Detail: 27
- **Solid masonry wall (plastered)**
  - Page: 70
  - Detail: 28
- **Dense aggregate cavity masonry wall (plastered)**
  - Page: 71
  - Detail: 29
- **Lightweight aggregate cavity masonry wall (plastered)**
  - Page: 71
  - Detail: 30
- **Solid masonry wall with GypLyner IWL wall linings**
  - Page: 72
  - Detail: 31
- **Lightweight cavity masonry wall (plastered)**
  - Page: 72
  - Detail: 32
- **Dense aggregate cavity masonry wall (parged and drylined)**
  - Page: 73
  - Detail: 33
- **Lightweight aggregate cavity masonry wall (parged and drylined)**
  - Page: 73
  - Detail: 34
- **Steel frame**
  - Page: 74
  - Detail: 35
- **GypWall QUIET IWL**
  - Page: 74
  - Detail: 36
- **GypWall CLASSIC with Gypframe AcouStuds**
  - Page: 75
  - Detail: 37
- **GypWall quiet**
  - Page: 75
  - Detail: 38
- **GypWall quiet SF**
  - Page: 76
  - Detail: 39
- **GypWall quiet SF – with additional service zone created with GypLyner UNIVERSAL**
  - Page: 76
  - Detail: 40
### System reference for separating walls (cont’d)

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Build method</th>
<th>Detail / Wall type</th>
<th>Category</th>
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</thead>
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<td>E-WM-2</td>
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<td>Description</td>
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<td>Besblock ‘Star Performer’ cavity masonry wall (drylined)</td>
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<td>Timber frame with sheathing board</td>
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<td>ElecoFrame prefabricated panels</td>
<td>89</td>
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<tr>
<td><strong>GypWall classic</strong> with Gyproframe AcouStuds</td>
<td>90</td>
<td>52</td>
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<td><strong>GypWall quiet</strong></td>
<td>91</td>
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<tr>
<td><strong>GypWall quiet IWL</strong></td>
<td>92</td>
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<td>Lightweight aggregate cavity masonry wall (parged and drylined)</td>
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<td>Porotherm cavity masonry wall (drylined)</td>
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System reference for separating walls (cont’d)

<table>
<thead>
<tr>
<th>Solutions</th>
<th>Build method</th>
<th>Detail / Wall type</th>
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<td>Timber</td>
<td>E-WT-1 and V-WT-1</td>
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Superior solutions have the potential to exceed the regulatory acoustic performance requirement by 5 dB or more. They reduce the chances of site test failure and are the perfect choice for high performing or prestige developments.
<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
<th>Detail</th>
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<td>GypWall quiet IWL</td>
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<td>70</td>
</tr>
</tbody>
</table>
Construction details – Rooms for residential purposes / conversions only

**Masonry walls**

### 17 Drilyner Si masonry wall lining

Improvement when lining to one side of a core masonry element (mass per unit area circa 200kg/m²) with plaster the other side

- **52mm Gyproc TriLine**
  - $R_w = 13\, \text{dB}$ and $R_w + Ctr = 9\, \text{dB}$

**British Gypsum Approved System**
- England and Wales
- **Pre-Completion Testing required**

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### 18 Gyplyner UNIVERSAL masonry wall lining

Improvement when lining to one side of a core masonry element (mass per unit area circa 200kg/m²) with plaster the other side

- **Gyplyner UNIVERSAL**, minimum 35mm cavity, with 2 x 12.5mm Gyproc SoundBloc, 25mm Isover Acoustic Partition Roll (APR 1200)
  - $R_w = 13\, \text{dB}$ and $R_w + Ctr = 11\, \text{dB}$

**British Gypsum Approved System**
- England and Wales
- **Pre-Completion Testing required**

---

**NB**: Sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Construction details – Rooms for residential purposes / conversions only (cont’d)

Timber frame walls

Timber stud and Gypframe RB1 Resilient Bar

Overall construction nominal width 151mm

- 38mm x 75mm timber stud at 600mm centres with Gypframe RB1 Resilient Bar at 600mm centres fixed to one side of the stud
- 75mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc

British Gypsum Approved System
England and Wales

Pre-Completion Testing required

**NB** For existing timber stud, partitions lined with lath and plaster, this specification could be used after complete removal of the lath and plaster. If the lath and plaster is in good condition then it could remain in place on the non-resilient bar side, with the double layer 15mm Gyproc SoundBloc screw-fixed through the lath and plaster into the timber framing.

**NB** The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints tapered and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Refer to Flanking details pages 162 - 165
Steel frame walls

**GypWall CLASSIC**

Overall construction nominal width 208mm

- Gypsum frame 146 S 50 ‘C’ Studs at 600mm centres
- 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc

**GypWall QUIET SF**

Overall construction nominal width 138mm

- Gypsum frame 70 S 50 ‘C’ Studs at 600mm centres with Gypsum frame RB1 Resilient Bar at 600mm centres fixed to one side of the stud
- 50mm Isover Acoustic Partition Roll (APR 1200) positioned in the cavity
- Lined each side with a double layer of 12.5mm Gyproc SoundBloc or Lined with a double layer of 15mm Gyproc Duraline for 120 minutes fire resistance

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**NB** The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Construction details – Residential / conversions only (cont’d)

Steel frame walls

GypWall QUIET IWL

Overall construction nominal width 250mm

- Minimum cavity width 190mm
- Gypframe 'I' Studs minimum 48mm depth (no bracing between leaves)
- 100mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc FireLine

British Gypsum Approved System
England, Wales and Scotland

Pre-Completion Testing required

Refer to Flanking details pages 151 - 161

\* For other stud sizes / maximum heights, contact the Saint-Gobain Technical Academy.

The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Construction details – Standard performance

Masonry walls

23 E-WM-1 Masonry – dense aggregate blockwork (Thistle plaster)

- Overall construction nominal width 300mm
- Dense aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)
- Minimum 75mm cavity between leaves
- Finished with 13mm Thistle plaster

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146

24 E-WM-1 Masonry – dense aggregate blockwork (Thistle plaster and cavity insulation)

- Overall construction nominal width 300mm
- Dense aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)
- Minimum 75mm cavity between leaves
- 75mm Isover RD Party Wall Roll in the cavity
- Finished with 13mm Thistle plaster

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146
Construction details – Standard performance (cont’d)

Masonry walls

25

E-WM-9 Masonry – dense aggregate blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 295mm

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>215mm wide single course block wall flat laid (density 1850 - 2300kg/m³)</td>
<td></td>
</tr>
<tr>
<td>Nominal 15mm (minimum 13mm) sand / cement render</td>
<td></td>
</tr>
<tr>
<td>Drylined with 15mm Gyproc SoundBloc using Drilyner basic system</td>
<td></td>
</tr>
</tbody>
</table>

Robust Detail
England and Wales

Sand / cement render may shrink on drying, usually with some cracking, which can appear several days after application. Therefore, care must be taken to ensure full drying is complete before drylining.

26

E-WM-10 Masonry – aircrête thin-joint blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 336mm

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircrete cavity block wall, minimum 100mm blocks (density 600 - 800kg/m³)</td>
<td></td>
</tr>
<tr>
<td>Wall ties must be Ancon Building Products Staifix HRT4</td>
<td></td>
</tr>
<tr>
<td>Minimum 75mm cavity</td>
<td></td>
</tr>
<tr>
<td>Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus</td>
<td></td>
</tr>
<tr>
<td>Drylined with 12.5mm Gyproc WallBoard using Drilyner basic system</td>
<td></td>
</tr>
</tbody>
</table>

Robust Detail
England and Wales

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
**Construction details – Standard performance (cont’d)**

**Masonry walls**

### E-WM-12 Masonry – Plasmor ‘Aglite Ultima’

(Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 336mm

- Plasmor ‘Aglite Ultima’ block wall, minimum 100mm blocks (density 1050kg/m³)
- Minimum 75mm cavity between leaves
- Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus
- Drylined with 12.5mm Gyproc WallBoard using DriLyner **Basic** system

**Guidance Construction**

**England and Wales**

Refer to page 231 for Gyproc Habito finishing options

### Solid masonry (wall type 1)

- Dense aggregate blocks laid flat
- Finished with 13mm Thistle plaster finish on each face
- Minimum total mass per unit area 415kg/m²

**Guidance Construction**

**England and Wales**
Masonry walls

29  
Dense aggregate cavity masonry (wall type 2.1)

Guidance

- Dense aggregate cavity block wall, minimum 50mm cavity between leaves
- Finished with 13mm Thistle plaster finish on each face
- Total mass per unit area 415kg/m² (minimum)

Guidance Construction

- England and Wales

Refer to Flanking details pages 138 - 146

30  
Lightweight aggregate cavity masonry (wall type 2.2)

Guidance

- Lightweight aggregate cavity block wall, minimum 75mm cavity between leaves
- Finished with 13mm Thistle plaster finish on each face
- Total mass per unit area 300g/m² (minimum)

Guidance Construction

- England and Wales

Refer to Flanking details pages 138 - 146
## Construction details – Standard performance (cont’d)

### Masonry walls

#### Masonry between independent panels (wall type 3.1) with GypLynner IWL

- Core masonry element minimum, mass per unit area 300kg/m²
- Lined each side with GypLynner IWL
- Lined with a double layer of 12.5mm Gyproc WallBoard on each side, or 12.5mm Gyproc SoundBloc
- The lining should be set 10mm away from the masonry core, utilising a Gypframe 48 I 50 'I' Stud
- Maximum height of 2700mm when using Gypframe 48 I 50 'I' Studs at 600mm centres
- Lining cavity width of 60mm when using Gypframe 48 I 50 'I' Studs

#### British Gypsum Approved System
- England and Wales
- Pre-Completion Testing required

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#### Cavity masonry wall (Thistle plaster)

- Overall construction width 306mm
- Twin leaf 100mm lightweight aggregate blocks with minimum 80mm cavity (1600kg/m³)
- Minimum 13mm Thistle plaster to both sides

**British Gypsum Approved System**
- England, Wales and Scotland
- Pre-Completion Testing required

---

Refer to page 231 for Gyproc Habito finishing options

Replace outer layer with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

Refer to Flanking details pages 138 - 146
Construction details – Standard performance (cont’d)

Masonry walls

Cavity masonry wall (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction width 341mm
Twin leaf 100mm lightweight aggregate blocks (1600kg/m³) with minimum 100mm cavity
8mm Gyproc Soundcoat Plus and 12.5mm Gyproc WallBoard on dabs to both sides

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

British Gypsum Approved System
England, Wales and Scotland
Pre-Completion Testing required

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options

Cavity masonry wall (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction width 341mm
Twin leaf 100mm dense aggregate blocks (2000kg/m³) with minimum 100mm cavity
8mm Gyproc Soundcoat Plus and 12.5mm Gyproc WallBoard on dabs to both sides

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

British Gypsum Approved System
England, Wales and Scotland
Pre-Completion Testing required

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Standard performance (cont’d)

Steel frame walls

E-WS-1 Steel frame

For use in lightweight steel frame housing or flats / apartments

- Minimum cavity width 200mm
- Loadbearing studs (by others)
- Overall construction nominal width 263mm

50mm Isover Frame Batt 32 positioned between the frames or 65mm Isover Acoustic Partition Roll (APR 1200) positioned between the studs in each frame

**Board options:** Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc Wallboard each side, **or** Double layer of 15mm Gyproc SoundBloc each side

**Robust Detail**

England and Wales

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E-WS-2 Steel frame

**GypWall QUIET IWL**

(Non-loadbearing)

- Overall construction nominal width 250mm
- Minimum cavity width 190mm
- Gypframe ‘I’ Studs minimum 60mm depth (no bracing between leaves)
- 100mm Isover Acoustic Partition Roll (APR 1200) positioned between the frames

**Board options:** Double layer of 15mm Gyproc SoundBloc each side (for 90 minutes BS and EN fire resistance) **or** Overboarded with one layer of 12.5mm Gyproc FireLine each side (for 120 minutes BS and EN fire resistance)

**Robust Detail**

England and Wales

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NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with Robust Details Limited.

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Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options

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Refer to Flanking details pages 151 - 161
Steel frame walls

GypWall CLASSIC with Gypframe AcouStuds

Overall construction nominal width 208mm

- Gypframe 146 AS 50 AcouStud at 600mm centres
- 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side, or Double layer of 15mm Gyproc DuraLine for 120 minutes fire resistance

Refer to Flanking details pages 162 - 165

GypWall QUIET

Overall construction nominal width 200mm

- Two frames of 48mm Gypframe ‘C’ Stud at 600mm centres, cross braced at 1200mm centres
- 50mm Isover Acoustic Partition Roll (APR 1200) positioned between the frames
- Lined with a double layer of 15mm Gyproc SoundBloc each side, or Double layer of 15mm Gyproc FireLine for 120 minutes fire resistance

Refer to Flanking details pages 151 - 161

NB: The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Construction details – Standard performance (cont’d)

Steel frame walls

**GypWall QUIET SF**

- Overall construction nominal width 148mm
- 70mm Gypframe ‘C’ Studs at 600mm centres with Gypframe RB1 Resilient Bar at 600mm centres fixed to one side of the studs
- 50mm Isover Acoustic Partition Roll (APR 1200) positioned in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side or Double layer of 15mm Gyproc DuraLine for 120 minutes fire resistance

**Rw+Ctr 54 dB**

**Rw 62 dB**

**90 mins BS**

Maximum height 4200mm at 600mm centres

**British Gypsum Approved System**

**England and Wales**

**Pre-Completion Testing required**

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**GypWall QUIET SF – with additional service zone created with GypLyner UNIVERSAL**

- Base separating wall, **GypWall QUIET SF**
- A wall lining with:
  - Minimum 70mm cavity
  - Minimum 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity
  - Single layer of 15mm Gyproc SoundBloc installed on one or both sides of the base **GypWall QUIET SF** construction

**Rw+Ctr 54 dB**

**Rw 62 dB**

**90 mins BS**

Maximum height 4200mm at 600mm centres

**British Gypsum Approved System**

**England and Wales**

**Pre-Completion Testing required**

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The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Construction details – Standard plus performance

Masonry walls

41  E-WM-2 Masonry - lightweight aggregate blockwork (Thistle plaster)

Overall construction nominal width 300mm
Lightweight aggregate cavity block wall minimum 100mm blocks (density 1350 - 1600kg/m³)
Minimum 75mm cavity between leaves
Finished with 13mm Thistle plaster

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146

42  E-WM-2 Masonry – lightweight aggregate blockwork (with Thistle plaster and cavity insulation)

Overall construction nominal width 300mm
Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)
Minimum 75mm cavity between leaves
75mm Isover RD Party Wall Roll in the cavity
Finished with 13mm Thistle plaster

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146
Choosing plasters

Thistle plasters provide technical solutions, developed to meet the changing needs of housebuilders and homeowners. Whether you choose the two-coat systems, or use a plaster skim on drylined walls, you can select from our range of products to deliver a multitude of solutions.

Choose from extra durable plasters that protect against scuffs and knocks, to plasters specially designed for different types of backgrounds.

Thistle plasters - creating wall solutions for modern homes.
Thistle plaster performance benefits

Airtightness – reduce heat loss
Air leakage can seriously downgrade the overall thermal performance of a home. Unwanted drafts, and uncontrolled air flow through gaps, are estimated to be the cause of considerable energy loss from modern homes. This results in higher heating bills and higher CO₂ emissions. With Thistle plaster linings many of these gaps and cracks are filled automatically and air loss considerably reduced.

Airtightness testing of new dwellings is now mandatory for developments of over two units under Approved Document Part L of the national Building Regulations in England and Wales and Section 6 of the Scottish Building Standards. A sample of each type of dwelling must be tested and be within the air leakage rate stated in the dwelling’s SAP calculations. Thistle plaster finishes will help to achieve the required standards, making homes more affordable for homeowners year after year.

Thermal mass
Thermal mass usage in building design can help to cut CO₂ emissions by reducing the heating and cooling demands of the building. It may be used as part of the SAP calculations.

How thermal mass is incorporated into the design depends on the building use. It will generally slow down the rate at which internal temperatures rise or fall. A ‘thermally heavy’ building heats up more slowly, and retains its heat for longer, with the effect that it is cooler during the heating period (day) but warmer during the cooling period (night). This can be very beneficial for buildings such as residential care homes, where a fairly constant temperature is needed.

Thistle plaster is ideal for use where thermal mass is an integral part of the design of a building. Plaster provides the desired decorative finish whilst also enabling efficient heat transfer between the air and the fabric of the building.

The benefits of Thistle plaster – don’t just take our word for it

“Direct plastering is the most effective way of providing airtightness for masonry walls…”
BS EN 13914-2:2005: Design considerations and essential principles for internal plastering

“Gyproc Ireland commissioned BSRIA to carry out tests using Gyproc Hard Coat (Thistle Hardwall) with a skim finish applied to block wall. The results showed air leakage of 0.034m³/hr.m² at 50Pa, well under the 0.6 Passive House Standards. This essentially shows that applying a plaster finish dramatically reduces the porosity, thereby increasing the airtightness of the wall”.
BSRIA Air leakage tests B26698

“The Stamford Brook P11 project included investigation into airtightness on a large scale housing project. The results showed that masonry cavity construction could easily achieve the target air permeability rate of 5m³/hr.m² at 50Pa, and that there was nothing intrinsically difficult in achieving levels as low as 2. In principle, masonry construction with a parged or wet plastered inner surface linked to airtight window and door components and an air barrier in the roof and ground floor is quite capable of delivering very low levels of airtightness. A terrace of four very low energy wet plastered dwellings were, in fact, delivering levels below 1.3, five or six years after completion”.
Stamford Brook development research – Leeds Metropolitan University, Centre for the Built Environment
Construction details – Standard plus performance (cont’d)

Thistle plaster installation benefits

Easy to use

Whether you are using two-coat plaster or skimming plasterboard, you’ll find Thistle plasters easy to use:

– **Great consistency**: Use straight from the bag and add clear water for reliable consistency. It’s much harder to achieve a consistent performance with site mixed material (e.g. sand and cement)

– **Easy to handle**: Standard 25kg bags are easy to handle and carry, even in confined spaces. This is really helpful when working upstairs as it can be a “one man lift”

– **Low waste**: With plaster you can just mix what you need. No off-cuts to worry about and, correctly stored, part bags can generally be used on the next job

– **Stability**: With Thistle undercoat plasters there’s very little shrinkage. There is no danger of cracks appearing days or weeks later due to shrinkage of the plaster

“TAS regularly receives reports concerning the problem of the final plaster (skim) coating cracking and shelling off cement-based undercoats. Because of the inherent nature of Portland cement, most rendering products shrink on drying out. If a final coat is applied too early before the undercoat has sufficiently dried out, then the problem of shelling is likely to occur. The length of time needed for the undercoat to dry out will depend on many factors including the wetness of the background, undercoat thickness and air humidity and temperature”

Building Employers Confederation – Technical Advisory Service Bulletin
## Thistle Plaster selector guide

### Undercoat solid plaster

<table>
<thead>
<tr>
<th>What is the background surface?</th>
<th>High suction</th>
<th>Low suction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircrete blocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common bricks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium-density blocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dense blocks</td>
<td></td>
<td></td>
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<tr>
<td>Engineering blocks with</td>
<td></td>
<td></td>
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<tr>
<td>nuded joints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plasterboard &amp;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glassrock® mortorbond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast in situ &amp; pre-cast concrete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Painted / tiled surfaces</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal lathing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness applied – walls</td>
<td>11mm</td>
<td></td>
</tr>
<tr>
<td>Thickness applied – ceilings</td>
<td>8mm</td>
<td></td>
</tr>
<tr>
<td>Coverage per bag hand applied</td>
<td>3.0m²</td>
<td>15</td>
</tr>
<tr>
<td>Water requirement (litres per bag)</td>
<td>9.3kg/m²</td>
<td></td>
</tr>
<tr>
<td>Dry set weight (at 11mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Two coat

<table>
<thead>
<tr>
<th></th>
<th>High suction</th>
<th>Low suction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thistle HardWall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High impact resistance for most masonry backgrounds. Can be spray applied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thistle ToughCoat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High coverage for most masonry backgrounds. Can be spray applied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thistle Browning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For solid backgrounds with adequate key</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thistle BondingCoat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For smooth and low suction backgrounds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thistle Universal OneCoat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For hand or spray application to most backgrounds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NB** Thistle plasters should only be applied to backgrounds where the minimum temperature will remain at 2°C or above until dry.

**NB** Setting times: Thistle undercoat plasters – 1½ to 2 hours.

### Suction control

<table>
<thead>
<tr>
<th>Thistle GypPrime</th>
<th>Suction control primer used to reduce suction on very dry backgrounds. Use diluted (up to 5 parts water to one part Thistle GypPrime) or undiluted if severe suction control is required. Plaster is applied after Thistle GypPrime has soaked into the background.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Thistle GypPrime where you see this symbol</td>
<td></td>
</tr>
</tbody>
</table>

### Bonding agent

<table>
<thead>
<tr>
<th>Thistle Bond-It</th>
<th>Bonding agent for smooth low suction backgrounds. Apply undiluted, in one coat. Plaster when dry. (Not to be used with Thistle HardWall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use Thistle Bond-It where you see this symbol</td>
<td></td>
</tr>
</tbody>
</table>
# Thistle Plaster selector guide (continued)

## Skim finish plaster

<table>
<thead>
<tr>
<th>Essential finish</th>
<th>Performance finish</th>
<th>Specialist plasters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What is the background surface?</strong></td>
<td><strong>Dry undercoats</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td>High suction</td>
<td>Damp undercoats</td>
<td>A Thistle plaster that attracts magnets leaving a quality surface for internal walls and a durable base for applying decorative finishes. Can be used to finish a wide range of backgrounds, including undercoat plasters and plasterboard. A minimum of 3mm thickness should be applied and coverage is 5.1m² per bag.</td>
</tr>
<tr>
<td>Low suction</td>
<td>Plasterboard</td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>What is the background surface?</strong></td>
<td><strong>Flat, smooth concrete</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Waterproofed cement-based undercoats</strong></td>
<td><strong>Thickened undercoats</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Undercoat solid plaster</strong></td>
<td><strong>Painted / tiled surfaces</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Engineering bricks with raked joints</strong></td>
<td><strong>Metal lathing</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Aircrete blocks</strong></td>
<td><strong>Dense blocks</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Common bricks</strong></td>
<td><strong>Medium-density blocks</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Cast in situ &amp; pre-cast concrete</strong></td>
<td><strong>Thistle MultiFinish</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Thistle BoardFinish</strong></td>
<td><strong>Thistle SprayFinish</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td>A versatile plaster for skim finishing undercoats and plasterboards</td>
<td>For low to medium suction backgrounds especially plasterboard</td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Thistle DuraFinish</strong></td>
<td><strong>Thistle PureFinish</strong></td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td>A versatile plaster that is 60% tougher than standard skim plasters</td>
<td>Finish plaster containing ACTIVair technology for finishing undercoat plasters and plasterboard</td>
<td>Thistle Magnetic Plaster</td>
</tr>
<tr>
<td><strong>Thistle UniFinish</strong></td>
<td><strong>Thistle UniFinish</strong></td>
<td>The plaster that works without PVA</td>
</tr>
<tr>
<td>The plaster that works without PVA</td>
<td>Thistle Magnetic Plaster</td>
<td></td>
</tr>
</tbody>
</table>

**Thistle Plasters should only be applied to backgrounds where the minimum temperature will remain at 2°C or above until dry (except for Thistle DuraFinish which should remain at 5°C or above until dry).**

**On flat surfaces, 2mm is recommended. If the surface is very uneven, consider dubbing it out with an undercoat.**

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**Thistle DuraFinish**
Thistle DuraFinish is a versatile plaster that is 60% tougher than standard skim plasters.

**Thistle PureFinish**
Thistle PureFinish is a finish plaster containing ACTIVair technology for finishing undercoat plasters and plasterboard.

**Thistle UniFinish**
Thistle UniFinish is the plaster that works without PVA.

**NB**
Thistle Magnetic Plaster can be used to finish a wide range of backgrounds, including undercoat plasters and plasterboard. A minimum of 3mm thickness should be applied and coverage is 5.1m² per bag.

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*See british-gypsum.com/thistle-unifinish for full details.*
Construction details – Standard plus performance (cont’d)

Masonry walls

**E-WM-3 Masonry – dense aggregate blockwork (render and Gyproc plasterboard)**

Overall construction nominal width 336mm

Dense aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)

Minimum 75mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using DriLyner basic system

**E-WM-4 Masonry – lightweight aggregate blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)**

Overall construction nominal width 336mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)

Minimum 75mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using DriLyner basic system

Refer to Flanking details pages 138 - 146

Refer to page 231 for Gyproc Habito finishing options

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

Robust Detail

England and Wales
Construction details – Standard plus performance (cont’d)

Masonry walls

E-WM-5 Masonry – Besblock ‘Star Performer’ cellular blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 336mm

Dense aggregate Besblock ‘Star Performer’ cellular cavity block wall minimum 100mm

Minimum 75mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using DriLyner BASIC system

Robust Detail
England and Wales

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options

E-WM-6 Masonry – aircrete blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 336mm

Aircrete cavity block wall, minimum 100mm blocks (density 600 - 800kg/m³)

Minimum 75mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using DriLyner BASIC system

Robust Detail
England and Wales

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Standard plus performance (cont’d)

Masonry walls

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E-WM-8 Masonry – lightweight aggregate blockwork (35mm Isover RD35 and Gyproc plasterboard)

Overall construction nominal width 320mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)

Minimum 75mm cavity between leaves

35mm Isover RD35 in the cavity

Drylined with 12.5mm Gyproc WallBoard TEN, 15mm Gyproc WallBoard or 12.5mm Gyproc SoundBloc using DriLyner BASIC system

Robust Detail

England and Wales

48

E-WM-15 Masonry – aircocrete blockwork (35mm Isover RD35 and Gyproc plasterboard)

Overall construction nominal width 320mm

Aircocrete cavity block wall, minimum 100mm blocks (density 600 - 800kg/m³)

Minimum 75mm cavity between leaves

35mm Isover RD35 in the cavity

Drylined with 12.5mm Gyproc WallBoard TEN, 15mm Gyproc WallBoard or 12.5mm Gyproc SoundBloc using DriLyner BASIC system

Robust Detail

England and Wales

Refer to Flanking details pages 138 - 146

Refer to page 231 for Gyproc Habito finishing options
Construction details – Standard plus performance (cont’d)

Masonry walls

E-WM-26 Masonry – Besblock ‘Star Performer’ dense aggregate cellular blockwork (Isover RD Party Wall Roll and Gyproc plasterboard)

Overall construction nominal width 336mm

- Dense aggregate Besblock ‘Star Performer’ cellular cavity block wall minimum 100mm
- Minimum 100mm cavity between leaves
- 100mm Isover RD Party Wall Roll in the cavity
- Drylined with 12.5mm Gyproc WallBoard using DriLyner basic system

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Standard plus performance (cont’d)

Timber frame walls

E-WT-2 and V-WT-2 Timber frame with sheathing board

Overall construction nominal width 300mm

- Minimum 240mm width between the inner facings of the linings
- Minimum 50mm gap between sheathing panels

65mm Isover Acoustic Partition Roll (APR 1200)
or 90mm Isover Frame Batt 32 positioned between the studs in each timber frame

Board options:
- Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc WallBoard each side,
or Double layer of 15mm Gyproc SoundBloc each side,
or Double layer of 15mm Gyproc FireLine each side,
or Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc FireLine each side

Robust Detail
England, Wales and Scotland

NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filed, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with Robust Details Limited. Based on 80% Load Ratio.

Refer to Flanking details pages 138 - 146 Refer to page 231 for Gyproc Habito finishing options

Replace outer layer of 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability
Construction details – Standard plus performance (cont’d)

Timber frame walls

E-WT-3 and V-WT-3
Timber frame – ElecoFrame prefabricated panels

Overall construction nominal width 300mm

Cavity width minimum 240mm with a gap of minimum 50mm between frames (must not be braced by any diagonal bracing)

Ties between frames not more than 40mm x 3mm at 1200mm (minimum) centres horizontally, one row of ties per storey height vertically

65mm Isover Acoustic Partition Roll (APR 1200)
or 90mm Isover Frame Batt 32 positioned between the studs in each timber frame

Board options:
Inner layer of 19mm Gyproc Plank and outer layer of 12.5mm Gyproc WallBoard each side,
or Double layer of 15mm Gyproc SoundBloc each side,
or Double layer of 15mm Gyproc FireLine each side,
or Inner layer of 19mm Gyproc Plank and outer layer of 12.5mm Gyproc FireLine each side

Robust Detail
England, Wales and Scotland

Refer to page 231 for Gyproc Habito finishing options

Refer to Flanking details pages 138 - 146

Replace outer layer of 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability
Steel frame walls

GypWall CLASSIC with Gypframe AcouStuds

Overall construction nominal width 208mm

- Gypframe 146 AS 50 AcouStud at 600mm centres
- 150mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side
  or Double layer of 15mm Gyproc DuraLine for 120 minutes fire resistance

Refer to Flanking details pages 162 - 165

NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Steel frame walls

GypWall QUIET

Overall construction nominal width 250mm

Two frames of 48mm Gypframe ‘C’ Stud at 600mm centres, cross braced at 1200mm centres

Cavity width of 190mm

75mm Isover High Performance Acoustic Slab positioned between the frames

Lined with a double layer of 15mm Gyproc SoundBloc each side

or

Double layer of 15mm Gyproc DuraLine for 120 minutes fire resistance

Rw+Ctr 57 dB
Rw 63 dB
90 mins BS

Maximum height 7500mm at 600mm centres, cross-braced at 1200mm centres

Hea 2

1 Credit

Code for Sustainable Homes

British Gypsum Approved System
England, Wales and Scotland

Pre-Completion Testing required

NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Refer to Flanking details pages 151 - 161
Construction details – Standard plus performance (cont’d)

Steel frame walls

**GypWall QUIET IWL**

Overall construction nominal width 200mm

- Two frames of Gypframe 48 I 50 ‘T’ Studs at 600mm centres
- Cavity width of 140mm wide
- 50mm Isover Acoustic Partition Roll (APR 1200) positioned in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side

**Code for Sustainable Homes**

- **Hea 2**
- **Credit 1**

**British Gypsum Approved System**

England, Wales and Scotland

Pre-Completion Testing required

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NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Refer to Flanking details pages 151 - 161
Construction details – Superior performance

Masonry walls

**E-WM-11 Masonry – lightweight aggregate blockwork with 100mm cavity (Gyproc Soundcoat Plus and Gyproc plasterboard)**

Overall construction nominal width 361mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)

Minimum 100mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using Drilyner BASIC system

**Robust Detail**

England, Wales and Scotland

Refer to page 231 for Gyproc Habito finishing options

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**E-WM-13 Masonry – aircrete thin-joint untied blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)**

Overall construction nominal width 336mm

Aircrete cavity block wall, minimum 100mm blocks (density 600 - 800kg/m³)

No wall ties are to be inserted in the separating wall

Minimum 75mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using Drilyner BASIC system

**Robust Detail**

England and Wales

Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Masonry walls

E-WM-14 and V-WM-14 Masonry – lightweight aggregate blockwork with 100mm cavity (35mm Isover RD35 and Gyproc plasterboard)

Overall construction nominal width 345mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)

Minimum 100mm cavity between leaves

35mm Isover RD35 in the cavity

Drylined with 12.5mm Gyproc WallBoard ten, 15mm Gyproc WallBoard or 12.5mm Gyproc SoundBloc using Drilyner BASIC system

Robust Detail

England, Wales and Scotland

E-WM-16 Masonry – dense aggregate blockwork (Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 361mm

Dense aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)

Minimum 100mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using the Drilyner BASIC system

Robust Detail

England and Wales

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Masonry walls

E-WM-17 Masonry – lightweight aggregate blockwork (Isover RD Party Wall Roll and Gyproc plasterboard)

Overall construction nominal width 325mm
Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)
Minimum 75mm cavity between leaves
75mm Isover RD Party Wall Roll in the cavity
Drylined with 12.5mm Gyproc WallBoard, 15mm Gyproc WallBoard or 12.5mm Gyproc SoundBloc using the DriLyner BASIC system

Robust Detail
England and Wales

E-WM-18 Masonry – dense aggregate blockwork (Isover RD Party Wall Roll and Thistle plaster)

Overall construction nominal width 325mm
Dense aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)
Minimum 100mm cavity between leaves
100mm Isover RD Party Wall Roll in the cavity
Finished with 13mm Thistle plaster

Robust Detail
England and Wales

Refer to Flanking details pages 138 - 146
Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Masonry walls

E-WM-20 and V-WM-20

Masonry – lightweight aggregate blockwork (Isover RD Party Wall Roll and Gyproc plasterboard)

Overall construction nominal width 350mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1350 - 1600kg/m³)

Minimum 100mm cavity between leaves

100mm Isover RD Party Wall Roll in the cavity

Drylined with 12.5mm Gyproc WallBoard, 15mm Gyproc WallBoard or 12.5mm Gyproc SoundBloc using the DriLyner basic system

Robust Detail
England, Wales and Scotland

E-WM-21 and V-WM-21

Masonry – lightweight aggregate blockwork (with Thistle Plaster)

Overall construction nominal width 325mm

Lightweight aggregate cavity block wall, minimum 100mm blocks (density 1850 - 2300kg/m³)

Minimum 100mm cavity between leaves

100mm Isover RD Party Wall Roll in the cavity

Finished with 13mm Thistle plaster

Robust Detail
England, Wales and Scotland

Refer to Flanking details pages 138 - 146

Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Masonry walls

**E-WM-24 Masonry – aircrete blockwork (Isover RD Party Wall Roll and Gyproc plasterboard)**

<table>
<thead>
<tr>
<th>Code for Sustainable Homes</th>
<th>Overall construction nominal width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hea 2 3 Credits</td>
<td>Aircrete cavity block wall, minimum 100mm blocks (density 600 - 800kg/m³)</td>
</tr>
<tr>
<td></td>
<td>Minimum 100mm cavity between leaves</td>
</tr>
<tr>
<td></td>
<td>100mm Isover RD Party Wall Roll in the cavity</td>
</tr>
<tr>
<td></td>
<td>Drylined with 12.5mm Gyproc WallBoard using the DriLyner BASIC system</td>
</tr>
</tbody>
</table>

**Robust Detail**
England and Wales

Refer to Flanking details pages 138 - 146

**E-WM-25 Masonry – Porotherm blockwork (render and Gyproc plasterboard)**

<table>
<thead>
<tr>
<th>Code for Sustainable Homes</th>
<th>Overall construction nominal width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hea 2 3 Credits</td>
<td>Porotherm cavity clay block wall, minimum 100mm blocks</td>
</tr>
<tr>
<td></td>
<td>Minimum 100mm cavity between leaves</td>
</tr>
<tr>
<td></td>
<td>100mm Isover RD Party Wall Roll in the cavity</td>
</tr>
<tr>
<td></td>
<td>Nominal 4mm (minimum 3mm) Porotherm Ecoparge</td>
</tr>
<tr>
<td></td>
<td>Drylined with 12.5mm Gyproc WallBoard using the DriLyner BASIC system</td>
</tr>
</tbody>
</table>

**Robust Detail**
England and Wales

Refer to Flanking details pages 138 - 146

Refer to page 231 for Gyproc Habito finishing options

Replace 12.5mm Gyproc WallBoard with 12.5mm Gyproc Habito for enhanced robustness and fixing capability
Masonry walls and GypLyner UNIVERSAL lining

Core masonry element mass per unit area minimum 200kg/m², e.g. 100mm high density aggregate blocks

GypLyner UNIVERSAL wall lining to one side of wall with minimum 85mm cavity (framing at 600mm centres)

Lined with double layer of 12.5mm Gyproc SoundBloc, 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity

Other side lined with either 12.5mm Gyproc WallBoard on the DrILyner BASIC system or 13mm Thistle plaster finish

Nominal width 232mm (drylined) or 223mm (plastered)

NB: Sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.
Timber walls

E-WT-1 and V-WT-1
Timber frame without sheathing board

Overall construction nominal width 300mm

Cavity width minimum 240mm, gap of minimum 50mm between frames

65mm Isover Acoustic Partition Roll (APR 1200)
or 90mm Isover Frame Batt 32 positioned between the studs in each timber frame

Board options:
Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc WallBoard each side,
or Double layer of 15mm Gyproc SoundBloc each side,
or Double layer of 15mm Gyproc FireLine each side,
or Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc FireLine each side

Robust Detail
England, Wales and Scotland

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Steel frame

E-WS-3 Modular build steel frame

Only for use in lightweight steel frame housing or flats / apartments

Overall construction nominal width 264mm

Minimum 72mm or 100mm loadbearing studs (by others)

Minimum 40mm gap between sheathing panels

Minimum 75mm mineral Isover TS48 Slab (45kg/m²) positioned between the studs

72mm studs
Double layer of 15mm Rigidur H
100mm studs
Double layer of 12.5mm Rigidur H

Robust Detail
England and Wales

NB The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with Robust Details Limited.

Refer to Flanking details pages 151 - 161
Steel frame

E-WS-4 Steel frame

For use in lightweight steel frame housing or flats / apartments

- Minimum cavity width 250mm
- Overall construction nominal width 313mm
- Minimum 75mm loadbearing ‘C’ studs (by others)
- 90mm Isover Frame Batt 32 positioned between the frames

Board options:
- Inner layer of 19mm Gyproc Plank, outer layer of 12.5mm Gyproc WallBoard each side, or Double layer of 15mm Gyproc SoundBloc each side

Robust Detail
- England and Wales

* Subject to manufacturers’ substantiation based on their loadbearing stud.

NB Sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Refer to Flanking details pages 138 - 146
Refer to page 231 for Gyproc Habito finishing options
Construction details – Superior performance (cont’d)

Steel frame

GypWall quiet IWL

Overall construction nominal width 250mm

- Two frameworks of Gypframe 60 I 50 ‘I’ Stud
- Cavity width of 190mm wide
- 100mm Isover Acoustic Partition Roll (APR 1200) in the cavity
- Lined with a double layer of 15mm Gyproc SoundBloc each side

Hea 2

Code for Sustainable Homes

British Gypsum Approved System
England, Wales and Scotland
Pre-Completion Testing required

The fire resistance and sound insulation performance are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used, and the company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with Robust Details Limited.

Refer to Flanking details pages 151 - 161
Masonry walls

E-WM-19 and V-WM-19

Masonry – dense or lightweight aggregate blockwork (with Gyproc Soundcoat Plus and Gyproc plasterboard)

Overall construction nominal width 361mm

Dense or lightweight aggregate cavity block wall, minimum 100mm blocks, with MONARFLOOR BRIDGESTOP system

Minimum 100mm cavity between leaves

Nominal 8mm (minimum 6mm) Gyproc Soundcoat Plus

Drylined with 12.5mm Gyproc WallBoard using the Drilyner BASIC system

Robust Detail

England, Wales and Scotland

Refer to Flanking details pages 138 - 146

Refer to page 231 for Gyproc Habito finishing options