C04. S03. P02 – P22
GypWall ROBUST

Including C04. S01. P02 – P18
Partitions introduction
Partitions

This section contains a full range of lightweight partition and wall systems for use in new and existing buildings. They cover all applications, from simple space division to high performance walls.
Partitions

British Gypsum offers a full range of lightweight partition and wall systems. Our systems are non-loadbearing and constructed using modern, drylining techniques. British Gypsum metal framed partitions and walls can be used in all types of new and existing buildings, including private and social housing, apartments, healthcare, educational facilities, recreational and industrial properties.

They cover all applications, from simple space division, through to high performance walls designed to meet the most demanding fire resistance, sound insulation, impact and height requirements.

British Gypsum partition systems are constructed using lightweight materials, which can give rise to significant savings in structural design compared to masonry alternatives. Big benefits also include the speed of installation and reduction to overall build costs.

Buildings need to evolve throughout their life to suit changing demands placed upon them. Our lightweight partition systems are easy to reconfigure with minimal impact to both building and occupants resulting in less disruption, optimising the transformation process.

You may also be interested in...

For unique performance situations with specialist requirements:

— Curved partitions
— Access to build from one side only
— High levels of fire resistance
— High security including bomb blast

▶ Refer to C05. S01. P02 – Specialist partitions
Partitions

When specifying partitions, a number of performance characteristics are normally used to determine the required solution. Depending on the project or construction type, these performance parameters could be set by minimum regulatory standards, or a client or customer requirement for buildings that offer the highest standards of performance and comfort.

Our quick-reference partition system guide, below, allows you to simply select the performance categories of interest and identify the British Gypsum partitions systems that best satisfy your project requirements.

<table>
<thead>
<tr>
<th>Fire performance mins</th>
<th>Partition thickness mm</th>
<th>Acoustic performance $R_w$ dB $R_{w+C_{tr}}$ dB</th>
<th>Duty rating BS 5234</th>
<th>Maximum height mm</th>
<th>System</th>
<th>Page</th>
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<td>75 - 211</td>
<td>34 - 63 47 - 57</td>
<td>Medium - Severe</td>
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<td>GypWall quiet sf</td>
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<td>66 - 70 58 - 62</td>
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<td>34 - 52 -</td>
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<td>Non-loadbearing timber stud (internal partitions)</td>
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<td>141 - 293</td>
<td>56 - 63 48 - 53</td>
<td>-</td>
<td>-</td>
<td>Non-loadbearing timber stud (separating walls)</td>
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Based on studs at 600mm centres

Additional information

Try out The White Book System Selector, an online tool designed to help find the ideal solutions for your project needs. Additional information such as BIM data (Revit), NBS clauses, CAD drawings and other associated items can be downloaded. Visit british-gypsum.com
British Gypsum’s systems are designed and tested to meet every performance requirement and are fully supported by our SpecSure® lifetime system warranty.

This means that when our systems are installed following our guidance they will achieve every performance claim we make, and if they don’t then we’ll put it right.

To maximise the performance achieved on site, consider the following good practice specification guidance:

— Consider flanking transmission at the design stage and ensure construction detailing is specified to eliminate, or at least to minimise, any downgrading of the acoustic performance.

— Small openings such as gaps, cracks or holes will conduct airborne sounds and can significantly reduce the sound insulation of a construction. For optimum sound insulation a construction must be airtight.

— When designing the layout of rooms requiring separation by sound insulating walls abutting structural steelwork, consideration should be given to the potential loss of sound insulation performance through the steelwork.

— Deflection heads, by definition, must be able to move and, therefore, achieving an airtight seal is very difficult without incorporating sophisticated components and techniques. Air leakage at the partition heads will have a detrimental effect on acoustic performance of any partition. Where acoustic performance is a key consideration, steps must be taken to minimise this loss of performance.

— A common mistake made when designing a building is to specify a high performance element and then incorporate a lower performing element within it; for example, a door within a partition. Where the difference between insulation is relatively small (7dB or less), there needs to be a comparatively large area of the lower insulation element before the overall sound insulation is significantly affected. However, where there is a greater difference in sound insulation performance between the two elements, this would usually result in a greater reduction of overall sound insulation performance.

Table 1 — Sound insulation performance for residential specification

<table>
<thead>
<tr>
<th>Approved Document E (England and Wales)</th>
<th>On-site</th>
<th>Laboratory¹</th>
<th></th>
<th>Recommended solution (R+w + Ctr) dB</th>
<th>Minimum solution (R+w + Ctr) dB</th>
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<tr>
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<td>(49)</td>
<td>(54)</td>
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<tr>
<td>Separating walls between purpose-built rooms for residential purposes and rooms created by a change of use or conversion</td>
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<td>(47)</td>
<td>(52)</td>
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<th>Laboratory¹</th>
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<th>Recommended solution (R+w + Ctr) dB</th>
<th>Minimum solution (R+w + Ctr) dB</th>
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<td>Separating walls between new homes, purpose-built for residential purposes and conversions (not including traditional buildings¹)</td>
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<td>60</td>
<td>63</td>
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<td>Separating walls between rooms created by a change of use or conversion (traditional buildings¹)</td>
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<td>60</td>
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¹ Definition of traditional buildings - A building or part of a building of a type constructed before or around 1919:
   a) using construction techniques that were commonly in use before 1919; and
   b) with permeable components, in a way that promotes the dissipation of moisture from the building fabric.

² Minimum solutions provide little or no margin of safety to allow for reduction in performance due to flanking transmission. Recommended solutions have greater potential to satisfy the requirements of Building regulations.
Table 2 – GypWall classic metal stud partition recommended maximum heights (mm) - based on a limiting deflection of L/240 at 200Pa. Applicable to non fire-rated or BS 476: Part 22 fire-rated constructions only (not applicable to EN 1364-1)

<table>
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<th>400mm centres</th>
<th>400mm boxed</th>
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In all GypWall classic systems, it is recommended that for heights between 4200mm and 8000mm, the Gypframe Deep Flange Floor & Ceiling Channel is used. Gypframe Extra Deep Flange Floor & Ceiling Channel is used for heights above 8000mm. Additional consideration needs to be given if there is a deflection head requirement.

For the affect on acoustic performance refer to C02. S01. P30.
Table 2 (continued) – **GypWall classic** metal stud partition recommended maximum heights (mm) - based on a limiting deflection of L/240 at 200Pa. Applicable to non fire-rated or *BS 476: Part 22* fire-rated constructions only (not applicable to *EN 1364-2*).

<table>
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</tbody>
</table>

**NB** In all **GypWall classic** systems, it is recommended that for heights between 4200mm and 8000mm, the Gypframe Deep Flange Floor & Ceiling Channel is used. Gypframe Extra Deep Flange Floor & Ceiling Channel is used for heights above 8000mm. Additional consideration needs to be given if there is a deflection head requirement.

**NB** For the affect on acoustic performance refer to C02. S01. P30.
Standard GypWall construction details

To be read in conjunction with system specific details. Refer to relevant system sections

1. Gypframe ‘T’ Stud
2. Gypframe ‘C’ Stud
3. Gypframe AcouStud
4. Gypframe Floor & Ceiling Channel

5. British Gypsum Wafer Head Drywall Screws or
British Gypsum Wafer Head Jack-Point Screws
6. Crimp
7. Studs offset at top and bottom to facilitate engagement into channels
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections.

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypsum "C" Stud
3. Gypsum Floor & Ceiling Channel
4. Gyproc Sealant
5. Bulk fill Gyproc jointing materials (where gap exceeds 5mm)
6. Skirting
7. Floating screed on resilient layer
8. Timber sole plate suitably fixed to structure
9. Internal blockwork
10. Driliner basic wall lining system
11. Isover insulation

Head and base

Junction with masonry and stop end detail
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

[T] junction - single layer

[T] Junction when partition with higher acoustic performance abuts a partition with lower acoustic performance. Acoustic principles only - detail may not be suitable for all solutions

[T] junction to optimise acoustic performance and reduce flanking transmission

[T] junction to optimise acoustic performance and reduce flanking transmission

Four way junction to optimise acoustic performance and reduce flanking transmission

Splayed corner

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe ‘C’ Stud
3. Isover insulation
4. Gypframe GA5 Internal Fixing Angle
5. Gypframe GA6 Splayed Angle

Guidance must be sought from the relevant approval authority e.g. Building Control to establish if a cavity barrier is required (Approved Document B)
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe ‘C’ Stud
3. Stone mineral wool (minimum density 23kg/m³) (by others)
4. Gyproc Control Joint
5. Gypframe 99 FC 50 Fixing Channel
6. 18mm plywood
7. Gypframe Service Support Plate

**NB** Installing the screw into the side of the Gypframe Service Support Plate and the web of the Gypframe ‘C’ Stud will avoid creating excessive distortion to the lining board.
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe ‘C’ Stud
3. Gypframe GFS1 Fixing Strap
4. Gypframe Deep Flange Floor & Ceiling Channel
5. Gypframe Extra Deep Flange Floor & Ceiling Channel
6. Gyproc CoreBoard
7. Gyproc FireStrip (continuous)
8. Timber head plate suitably fixed to structure
9. 25mm Glasroc F firecase
10. Stone mineral wool (by others)
11. Nogging cut from Gypframe ‘C’ Stud

NB: No fixings should be made through the boards into the flanges of the head channel. The arrow (→) denotes the position of the uppermost board fixing, which should be made into Gypframe GFS1 Fixing Strap (or stud nogging in construction detail 16). Continuous Gyproc FireStrip must be installed as shown to maintain fire performance. Where there is a need for a deflection head in a 90 minute wall, the 120 minute solution can be used (refer to construction detail 16) or alternatively, please contact the British Gypsum Technical Advice Centre for further guidance.

NB: To minimise loss in acoustic performance refer to C02 S01 P10 Acoustic performance of head details.
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

Deflection head 15mm downward movement
30 minutes fire resistance depending on specification
BS 476: Part 22: 1987 and BS EN 1364-1

Deflection head 25mm downward movement
60 minutes fire resistance depending on specification
BS 476: Part 22: 1987

Deflection head 15mm downward movement
90 minutes fire resistance depending on specification
BS 476: Part 22: 1987 and BS EN 1364-1

Deflection head 25mm downward movement
120 minutes fire resistance depending on specification
BS 476: Part 22: 1987

1  12.5mm Gyproc WallBoard
2  Gypframe 70 S 50˚C Stud
3  Isover insulation (if required)
4  Gypframe 72 DC 60 Deep Flange Floor & Ceiling Channel
5  Gyproc Sealant
6  Gyproc FireStrip
7  Gypframe GFS1 Fixing Channel
8  19mm Gyproc CoreBoard
9  15mm Glasroc Firecase
10 Gypframe Steel Angle
11 Gypframe GA4 Steel Angle (if required for acoustic performance)
12 15mm Gyproc FireLine
13 15mm Gyproc SoundBloc
14 Gypframe 70 S 50˚C Stud or 72 FEC 50 Channel noggings
15 Stone mineral wool 33kg/m³ (by others)
16 12.5mm Gyproc FireLine

NB No fixings should be made through the boards into the flanges of the head channel.
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections.

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe 'C' Stud
3. Gypframe Floor & Ceiling Channel
4. Gypframe Floor & Ceiling Channel cut and bent to form door head
5. Timber door frame and architrave
6. Gypframe 'C' Stud to maintain stud module
7. Timber sub-frame

Door frame (maximum 1200mm width) to satisfy BS 5234: Parts 1 & 2: 1992 - Light and Medium Duty (up to 35kg door)

Advice should be sought from the door manufacturer prior to the construction of these details.
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

---

Door frame (maximum 1200mm width) to satisfy BS 5234: Parts 1 & 2: 1992 - Heavy and Severe Duty (up to 60kg door)

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe 'C' Stud
3. Gypframe Floor & Ceiling Channel to sleeve studs
4. Gypframe Floor & Ceiling Channel cut and bent to form door head
5. Timber door frame and architrave
6. Gypframe 'C' Stud to maintain stud module
7. Gypframe Floor & Ceiling Channel cut and bent to extend up studs

**NB** Advice should be sought from the door manufacturer prior to the construction of these details.

**NB** At the base, the channel is cut and bent to extend 300mm up the studs and fixed each side with two British Gypsum Wafer Head Drywall Screws. The studs each side of the opening are sleeved full height of opening with Gypframe Floor & Ceiling Channel.
Standard **GypWall** construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

---

**Alternative door frame for fixed partition heads only (maximum 1200mm width) to satisfy BS 5234: Parts 1 & 2: 1992 - Heavy and Severe Duty (up to 60kg door)**

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe ‘C’ Stud
3. Gypframe Floor & Ceiling Channel to sleeve studs
4. Gypframe Floor & Ceiling Channel cut and bent to form door head
5. Timber door frame and architrave
6. Gypframe ‘C’ Stud to maintain stud module
7. Gypframe ‘C’ Studs fixed back to back with British Gypsum Wafer Head Drywall Screws at 300mm centres staggered
8. Plasterboard infill (same type as lining) cut to fit between studs
9. Gypframe Floor & Ceiling Channel cut and bent to extend up studs

**NB** Advice should be sought from the door manufacturer prior to the construction of these details.

**NB** At the base, the channel is cut and bent to extend 300mm up the studs and fixed each side with two British Gypsum Wafer Head Drywall Screws. The studs each side of the opening are sleeved full height of opening with Gypframe Floor & Ceiling Channel.

**NB** The principle of this alternative detail is only suitable for **GypWall classic**, **GypWall robust** and **GypWall extreme** for fixed head situations only.
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

Openings 1201 - 3300mm wide, for example double doors or large windows

1. Gypframe 'C' Stud
2. Stud sleeved to full opening height with Gypframe Floor & Ceiling Channel
3. Gypframe studs (appropriate to system)
4. Gypframe Extra Deep Flange Floor & Ceiling Channel
5. Gypframe stud insert
6. Centre stud required for margin up to 600mm between openings
7. Partition between openings, minimum 600mm for Gypframe 'C' Studs (minimum 300mm for Gypframe 'T' Studs)
8. Maximum distance 2400mm (if exceeds 2400mm contact British Gypsum Technical Advice Centre)
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

1. Gyproc plasterboard or Glasroc F specialist board
2. Gypframe 'C' Stud
3. Gypframe Floor & Ceiling Channel
4. Penetration seal if required (refer to damper manufacturer for details)

5. Damper (by others). Weight of damper should not exceed 57kg. Size of damper should not exceed 1400 x 1200mm
6. Gypframe Folded Edge Standard Floor & Ceiling Channel cut and bent to form opening head and cill

Opening for service penetrations in fire-rated partitions

Opening up to 600mm wide for services
Standard GypWall construction details (continued)

To be read in conjunction with system specific details. Refer to relevant system sections

Board layout - typical configuration

Horizontal board joint - double layer

1. Inner layer of Gyproc plasterboard or Glasroc F specialist board
2. Outer layer of Gyproc plasterboard or Glasroc F specialist board
3. Gypframe GF51 Fixing Strap
4. Gypframe metal framing
5. British Gypsum Drywall Screws
6. Gyproc plasterboard or Glasroc F specialist board
7. Gypframe ‘C’ Stud
8. Gypframe GFT1 Fixing T (alternatively use Gypframe GSF1 Fixing Strap)

Horizontal board joint - single layer
GypWall ROBUST

Durable impact resistant partition system

All our systems are covered by SpecSure® when using genuine British Gypsum and Saint-Gobain Isover products
GypWall robust

GypWall robust is a highly impact-resistant partition system for use where a more durable solution is required. All GypWall robust systems utilise Gyproc DuraLine board to give enhanced levels of resistance to damage from everyday occurrences, such as school bags being knocked against corridor walls as pupils move from one lesson to the next. As a result, the system provides a lightweight, non-loadbearing partition ideal for all types of commercial, healthcare and educational buildings that experience high levels of human traffic.

Key benefits

— Achieves Severe Duty Rating to BS 5234 with only a single layer of Gyproc DuraLine plasterboard to each side of the partition
— Reduced maintenance cycles due to impact resistant nature of Gyproc DuraLine plasterboard
— Fully compatible with other British Gypsum systems, GypWall robust can be specified in areas of the building that really need it, whilst other GypWall partitions can be used in lower duty performance zones for optimal project value
— Increased levels of acoustic performance are available when GypWall robust is specified with Gypsum 92 AS 50 AcouStud – a commonly chosen solution for school classrooms and hospital consulting rooms
— Enhanced abrasion resistance can be achieved through the use of ThistlePro DuraFinish skim plaster; an ideal finishing solution for GypWall robust

You may also be interested in...

For areas of a building where extreme levels of duty rating may be required, for example a school corridor or hospital circulation space, GypWall extreme provides the answer.

Refer to C04. S04. P02 - GypWall extreme
GypWall robust performance
70mm Gypframe ‘C’ Studs - single layer board linings

Table 1a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height mm</th>
<th>Sound insulation $R_{db}$</th>
<th>Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>102</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>3800</td>
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<td>Severe</td>
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<tr>
<td>2</td>
<td>102</td>
<td>Gyproc DuraLine</td>
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<td>3800</td>
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<tr>
<td>3</td>
<td>102</td>
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<td>4</td>
<td>102</td>
<td>Gyproc DuraLine</td>
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<td>3800</td>
<td>49</td>
<td>Severe</td>
<td>29</td>
<td>Q606065</td>
</tr>
<tr>
<td>5</td>
<td>102</td>
<td>Gyproc DuraLine</td>
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<td>3800</td>
<td>50</td>
<td>Severe</td>
<td>29</td>
<td>Q606066</td>
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</tbody>
</table>

For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com

The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.

Sound insulation performance for partitions finished using jointing or plaster skim.

Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover components are used throughout, and the Company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
GypWall robust performance (continued)

70mm Gypframe ‘C’ Studs - single layer board linings

For details of when to specify fire resistance using BS 476 Part 22: 1987

Refer to C02. S01. P05

Table 1b — Solutions to satisfy requirements of BS 476: Part 22: 1987

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height(^a) mm</th>
<th>Sound insulation (R_{\text{db}})</th>
<th>Duty rating</th>
<th>Approx. weight kg/m(^2)</th>
<th>System reference</th>
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<td></td>
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<td>Any finish(^b)</td>
<td>Skim only(^c)</td>
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<td>47</td>
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<td>48</td>
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<td></td>
<td>50</td>
<td>51</td>
<td>Severe</td>
<td>29</td>
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</tbody>
</table>

\(60\) minutes fire resistance BS

- Based on a limiting deflection of L/240 at 200 Pa. Greater heights can be achieved through the use of reduced stud centres. Refer to C04. S01. P05, Table 2.
- Sound insulation performance for partitions finished using jointing or plaster skim.
- Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

\(\text{NB}\) The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isower components are used throughout, and the Company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

\(\text{NB}\) Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com
## GypWall robust performance (continued)

### 70mm Gypframe 'I' Studs - single layer board linings

Table 2a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height $h_{\text{max}}$ mm</th>
<th>Sound insulation $R_{\text{wdB}}$ dB</th>
<th>Duty rating</th>
<th>Approx. weight $\text{kg/m}^2$</th>
<th>System reference</th>
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</thead>
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For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com

The maximum heights quoted are limited by the fire state field of application or by limiting deflection of $L/240$ at 200 Pa, whichever is the more onerous.

The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover components are used throughout, and the Company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
GypWall robust performance (continued)

70mm Gypframe 'T' Studs - single layer board linings

Table 2b — Solutions to satisfy requirements of BS 476: Part 22: 1987

<table>
<thead>
<tr>
<th>Detail</th>
<th>Board type</th>
<th>Lining type</th>
<th>Max. partition height</th>
<th>Sound insulation</th>
<th>Duty rating</th>
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For details of when to specify fire resistance using BS refer to C02. S01. P05

NB The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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 Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
### GypWall robust performance (continued)

#### 70mm Gypframe AcouStuds - single layer board linings

Table 3a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height&lt;sup&gt;1&lt;/sup&gt; mm</th>
<th>Sound insulation $R_{dB}$</th>
<th>Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
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<sup>1</sup> The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.

<sup>2</sup> Sound insulation performance for partitions finished using jointing or plaster skim.

<sup>3</sup> Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

**NB** The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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** Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
## GypWall robust performance (continued)

### 70mm Gypframe AcouStuds - single layer board linings

Table 3b — Solutions to satisfy requirements of BS 476: Part 22: 1987

<table>
<thead>
<tr>
<th>Detail</th>
<th>Board type</th>
<th>Lining</th>
<th>Max. partition height</th>
<th>Sound insulation</th>
<th>Duty</th>
<th>Approx. weight</th>
<th>System reference</th>
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<tbody>
<tr>
<td>1</td>
<td>102 Gyproc DuraLine</td>
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<td>4000</td>
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<td>Severe</td>
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<td>Q606A044 Q606A044S</td>
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<tr>
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<td>102 Gyproc DuraLine</td>
<td>1 x 15</td>
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<td>50</td>
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<td>Q606A046 Q606A046S</td>
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</table>

**For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com**

1 Based on a limiting deflection of L/240 at 200 Pa. Greater heights can be achieved through the use of reduced stud centres.

2 Sound insulation performance for partitions finished using jointing or plaster skim.

3 Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

**NB** The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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** Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
GypWall robust performance (continued)

92mm Gypframe 'C' Studs - single layer board linings

Table 4a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height mm</th>
<th>Sound insulation R' dB</th>
<th>Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>45</td>
<td>46</td>
<td>Severe</td>
<td>29</td>
</tr>
<tr>
<td>2</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>48&lt;sup&gt;4&lt;/sup&gt;</td>
<td>49&lt;sup&gt;5&lt;/sup&gt;</td>
<td>Severe</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>52</td>
<td>53</td>
<td>Severe</td>
<td>30</td>
</tr>
</tbody>
</table>

For further assistance in choosing the right solution for your project, try the White Book System Selector, an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com

<sup>1</sup> The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.

<sup>2</sup> Sound insulation performance for partitions finished using jointing or plaster skim.

<sup>3</sup> Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

<sup>4</sup> Increasing insulation to 50mm Isover Acoustic Partition Roll (APR 1200) will not improve this system performance.

**NB** The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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** Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
### GypWall robust performance (continued)

#### 92mm Gypframe 'C' Studs - single layer board linings

Table 4b — Solutions to satisfy requirements of BS 476: Part 22: 1987

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height (mm)</th>
<th>Sound insulation (R\text{\textasciicircum} dB)</th>
<th>Duty rating</th>
<th>Approx. weight (kg/m²)</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>45</td>
<td>46</td>
<td>Severe</td>
<td>29 A206257</td>
</tr>
<tr>
<td>2</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>48\textsuperscript{1}</td>
<td>49\textsuperscript{1}</td>
<td>Severe</td>
<td>30 A206258</td>
</tr>
<tr>
<td>3</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>52</td>
<td>53</td>
<td>Severe</td>
<td>30 Q606057</td>
</tr>
</tbody>
</table>

\textsuperscript{1}Based on a limiting deflection of L/240 at 200 Pa. Greater heights can be achieved through the use of reduced stud centres. Refer to C04. S01. P05, Table 2. Maximum partition height can be increased to 6200mm by using Gypframe 92 190 T' Studs.

\textsuperscript{2}Sound insulation performance for partitions finished using jointing or plaster skim.

\textsuperscript{3}Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

\textsuperscript{4}Increasing insulation to 50mm Isover Acoustic Partition Roll (APR 1200) will not improve this system performance.

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For details of when to specify fire resistance using BS refer to C02. S01. P05

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\textsuperscript{1} The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover components are used throughout, and the Company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

\textsuperscript{2} Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
GypWall robust performance (continued)

92mm Gypframe AcouStuds - single layer board linings

Table 5a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height(h) mm</th>
<th>Sound insulation (R_{dB}) Any finish(^1)</th>
<th>Duty rating</th>
<th>Approx. weight kg/m(^2)</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>45</td>
<td>Severe</td>
<td>29</td>
<td>A206A277</td>
</tr>
<tr>
<td>2</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>50</td>
<td>Severe</td>
<td>30</td>
<td>A206A278</td>
</tr>
<tr>
<td>3</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4000</td>
<td>52</td>
<td>Severe</td>
<td>30</td>
<td>A206A279</td>
</tr>
</tbody>
</table>

\(\text{EN}\) minutes fire resistance

1 The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.
2 Sound insulation performance for partitions finished using jointing or plaster skim.
3 Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com

\textbf{NB} The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover components are used throughout, and the Company’s fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

\textbf{NB} Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
**GypWall robust performance (continued)**

92mm Gypframe AcouStuds - single layer board linings

For details of when to specify fire resistance using BS refer to C02. S01. P05

**Table 5b — Solutions to satisfy requirements of BS 476: Part 22: 1987**

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Board type</th>
<th>Lining thickness mm</th>
<th>Max. partition height mm</th>
<th>Sound insulation $R_{dB}$</th>
<th>Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Any finish $^1$</td>
<td>Skim only $^1$</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>60 minutes fire resistance BS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>1</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>45</td>
<td>46</td>
<td>Severe</td>
<td>29</td>
</tr>
<tr>
<td>2</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>50</td>
<td>51</td>
<td>Severe</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td>124</td>
<td>Gyproc DuraLine</td>
<td>1 x 15</td>
<td>4900</td>
<td>52</td>
<td>53</td>
<td>Severe</td>
<td>30</td>
</tr>
</tbody>
</table>

$^1$ Based on a limiting deflection of L/240 at 200 Pa. Greater heights can be achieved through the use of reduced stud centres. Refer to C04. S01. P05, Table 2.

$^2$ Sound insulation performance for partitions finished using jointing or plaster skim.

$^3$ Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

**NB** The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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** Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
# GypWall robust performance (continued)

## 70mm Gypframe AcouStuds - double layer board linings

Table 6a — Solutions to satisfy the requirements of BS EN 1364-1

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Inner board type</th>
<th>Outer board type</th>
<th>Max. partition height¹ mm</th>
<th>Sound insulation Rₜₐₐₜ dB</th>
<th>Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>127</td>
<td>Gyproc SoundBloc 1 x 12.5</td>
<td>Gyproc DuraLine 1 x 15</td>
<td>4700</td>
<td>57</td>
<td>58</td>
<td>Severe 52</td>
<td>Q606A063 Q606A063S</td>
</tr>
<tr>
<td>2</td>
<td>127</td>
<td>Gyproc SoundBloc 1 x 12.5</td>
<td>Gyproc DuraLine 1 x 15</td>
<td>3000</td>
<td>57</td>
<td>58</td>
<td>Severe 52</td>
<td>Q606A063 Q606A063S</td>
</tr>
</tbody>
</table>

² Sound insulation performance for partitions finished using jointing or plaster skim.
³ Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

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¹ The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous.

² Sound insulation performance for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

⁻ Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
GypWall robust performance (continued)

70mm Gypframe AcouStuds - double layer board linings

Table 6b — Solutions to satisfy requirements of BS 476: Part 22: 1987

<table>
<thead>
<tr>
<th>Detail</th>
<th>Partition thickness mm</th>
<th>Inner board type mm</th>
<th>Outer board type mm</th>
<th>Max. partition height mm</th>
<th>Sound insulation $R_{\text{dB}}$, Duty rating</th>
<th>Approx. weight kg/m²</th>
<th>System reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>127</td>
<td>Gyproc SoundBloc 1 x 12.5</td>
<td>Gyproc DuraLine 1 x 15</td>
<td>4700</td>
<td>53 - Severe 51</td>
<td>Q606A062</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>127</td>
<td>Gyproc SoundBloc 1 x 12.5</td>
<td>Gyproc DuraLine 1 x 15</td>
<td>4700</td>
<td>57 58 Severe 52</td>
<td>Q606A063 Q606A063S</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>132</td>
<td>Gyproc SoundBloc 1 x 15</td>
<td>Gyproc DuraLine 1 x 15</td>
<td>5000</td>
<td>53 54 Severe 55</td>
<td>Q606A064 Q606A064S</td>
<td></td>
</tr>
</tbody>
</table>

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1 Based on a limiting deflection of L/240 at 200 Pa. Greater heights can be achieved through the use of reduced stud centres.
2 Sound insulation performance for partitions finished using jointing or plaster skim.
3 Sound insulation performance for partitions finished with a 2mm skim finish of Thistle MultiFinish.

NB The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum and Saint-Gobain Isover 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 Gypframe Deep Flange Floor & Ceiling Channel or Gypframe Extra Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).
**GypWall robust design**

**Building design**

Whilst our GypWall partitions are non-loadbearing, they are able to provide resistance to levels of horizontal uniformly distributed loads in accordance with BS 6399.

> Refer to C02. S01. P26 – Robustness.

**Planning – key factors**

GypWall robust comprises Gypframe ‘C’ Studs installed at 600mm centres within Gypframe Deep Flange Floor & Ceiling Channels. The position of services and heavy fixtures should be pre-determined and their installation planned into the frame erection stage.

**Fixing floor and ceiling channels**

Gypframe Deep Flange Floor & Ceiling Channels must be securely fixed with a row of fixings at 600mm maximum centres. For 94mm channels and above, two rows of staggered fixings are required, each row at 600mm centres and each fixing 25mm in from the flange. If the floor is uneven, a 38mm thick timber sole plate equal to the width of the channel should be used.

If the concrete or screeded floor is new, consideration should be given to the installation of a damp-proof membrane between the floor surface and the channel or sole plate.

**Door openings**

The designer should consider the thickness tolerances of the partition types in relation to the proposed door frame detail. To satisfy BS 5234: Part 2 requirements for Heavy and Severe Duty Rating partitions, door framing should be specified. The door manufacturer should also be consulted in relation to the door detail.

> Refer to construction detail 7 in this section.

**Important information**

Gypframe Deep Flange Floor & Ceiling Channels (DC) must be used with all GypWall robust systems.

> Refer to GypWall robust – construction details 1 and 2.

**Splicing**

To extend studs, overlap by 600mm (minimum). Fix together using British Gypsum Wafer Head Drywall Screws or steel pop rivets (two to each flange), or by using the Gyproc Stud Interlocking Tool twice to each flange.

> Refer to Partitions introduction C04. S01. P07 – construction detail 1.

**Partition to structural steelwork junctions**

When designing the layout of rooms requiring separation by sound insulating walls abutting structural steelwork, consideration should be given to the potential loss of sound insulation performance through the steelwork.

> Refer to C02. S01. P10 – Building acoustics.

**Important information**

Particular care must be taken in selecting the correct length of British Gypsum Drywall Screws for fixing Gyproc DuraLine to Gypframe AcouStuds to ensure that they do not penetrate the web of the stud. Doing so would create a physical bridge that would lead to a downgrade in sound insulation performance.

**Framing surround for openings**

Where services such as horizontal ducts, fire dampers and access panels are required to penetrate the wall, their position should be pre-determined in order that a framed opening can be provided. The openings should be constructed using established metal stud procedures.


**Cavity barriers**

Minimum 12.5mm Gyproc plasterboard screw-fixed into the web of perimeter channels or vertical studs will provide a satisfactory closure to flame or smoke.

> Refer to C06. S07. P02 – Cavity barriers.

**Control joints**

Control joints may be required in the partition to relieve stresses induced by expansion and contraction of the structure. They should coincide with movement joints within the surrounding structure.

**Deflection heads**

Partition head deflection designs may be necessary to accommodate deflections in the supporting floor. Deflection heads may also be required to the underside of roof structures subjected to positive and negative pressures.

To minimise the loss of acoustic performance:

> Refer to C02. S01. P10 – Building acoustics.

For deflection head design:

GypWall robust design (continued)

Services
Penetrations
Penetrations of fire-resistant or sound-insulating constructions for services need careful consideration to ensure that the performance of the element is not downgraded. Consideration also needs to be given to the services themselves so they do not act as the mechanism of fire spread or sound transmission.

► Refer to C02. S01. P32 — Service installations.

Electrical
The installation of electrical services should be carried out in accordance with BS 7671. The cut-outs in the studs can be used for routing electrical and other small services.

► Refer to Partitions introduction C04. S01. P07 — construction detail 2.

Switch boxes and socket outlets can be supported from Gyproc Steel or Gypframe 99 FC 50 Fixing Channel fixed horizontally between studs, or a high performance socket box detail where higher acoustic performance is required.

Where Gyproc AcouStuds or Gypframe AcouStuds are used, services are routed through 50mm x 28mm ‘H’ shaped push-outs, at the same centres as shown for conventional cut-outs.

► Refer to Partitions introduction C04. S01. P07 — construction detail 2a.

Cables should be protected by conduit, or other suitable precautions taken to prevent abrasion when they pass through the metal frame.

Access for maintenance
Gyproc Proflex Access Panels are available to provide access for maintenance. Access panels must be fully compatible with drywall construction and match the fire rating of the partition.

► Refer to proflex.co.uk for further information.

Board finishing
► Refer to C08. S01. P02 — Finishes.

Handy hint
For increased resistance to accidental surface damage, the use of ThistlePro DuraFinish is recommended.

Tiling
Tiles can be applied to the surface of lightweight partition systems.

► Refer to C08. S04. P02 — Tiling.

Construction details
For standard GypWall construction details

► Refer to Partitions introduction C04. S01. P07 — construction details.

For GypWall robust system specific construction details refer to the following pages.

Fixtures
Lightweight fixtures can be made directly to the partition linings. Medium weight fixtures can be made to Gypframe 99 FC 50 Fixing Channel. Heavyweight fixtures (to BS 5234), such as wash basins and wall cupboards, can be fixed using plywood secured with Gyproc Service Support Plates.

► Refer to C02. S01. P33 — Service installations.

Handy hint
Where access is limited to one side at the head, e.g. M+E cages already installed in corridors.

► Refer to C05. S02. P02 — ShaftWall.

Independent support
When designing for the installation of services such as fire dampers and associated ductwork through a GypWall partition, consideration should be given to the size and weight of the damper - this will determine whether it can be supported directly from the partition or needs to be independently supported from the structure.


Board finishing
Gyproc Profilex Access Panels are available to provide access for maintenance. Access panels must be fully compatible with drywall construction and match the fire rating of the partition.

► Refer to proflex.co.uk for further information.

Board finishing
► Refer to C08. S01. P02 — Finishes.

Handy hint
For increased resistance to accidental surface damage, the use of ThistlePro DuraFinish is recommended.

Tiling
Tiles can be applied to the surface of lightweight partition systems.

► Refer to C08. S04. P02 — Tiling.

Construction details
For standard GypWall construction details

► Refer to Partitions introduction C04. S01. P07 — construction details.

For GypWall robust system specific construction details refer to the following pages.

Fixtures
Lightweight fixtures can be made directly to the partition linings. Medium weight fixtures can be made to Gypframe 99 FC 50 Fixing Channel. Heavyweight fixtures (to BS 5234), such as wash basins and wall cupboards, can be fixed using plywood secured with Gyproc Service Support Plates.

► Refer to C02. S01. P33 — Service installations.

Independent support
When designing for the installation of services such as fire dampers and associated ductwork through a GypWall partition, consideration should be given to the size and weight of the damper - this will determine whether it can be supported directly from the partition or needs to be independently supported from the structure.


Board finishing
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► Refer to proflex.co.uk for further information.

Board finishing
► Refer to C08. S01. P02 — Finishes.

Handy hint
For increased resistance to accidental surface damage, the use of ThistlePro DuraFinish is recommended.

Tiling
Tiles can be applied to the surface of lightweight partition systems.

► Refer to C08. S04. P02 — Tiling.

Construction details
For standard GypWall construction details

► Refer to Partitions introduction C04. S01. P07 — construction details.

For GypWall robust system specific construction details refer to the following pages.
**GypWall robust construction details**

1. Gyproc DuraLine
2. Gypframe ‘C’ Stud
3. Gypframe Deep Flange Floor & Ceiling Channel
4. Gyproc Sealant
5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)
6. Skirting
7. Internal masonry
8. Dri-Lyner basic wall lining system
9. Isover Acoustic Partition Roll (APR 1200)

---

**Head**

- 1. Gyproc DuraLine
- 2. Gypframe ‘C’ Stud
- 3. Gypframe Deep Flange Floor & Ceiling Channel
- 4. Gyproc Sealant
- 5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)

**Base**

- 1. Gyproc DuraLine
- 2. Gypframe ‘C’ Stud
- 3. Gypframe Deep Flange Floor & Ceiling Channel
- 4. Gyproc Sealant
- 5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)

**Junction with masonry and stop end**

- 1. Gyproc DuraLine
- 2. Gypframe ‘C’ Stud
- 3. Gypframe Deep Flange Floor & Ceiling Channel
- 4. Gyproc Sealant
- 5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)
- 6. Skirting
- 7. Internal masonry
- 8. Dri-Lyner basic wall lining system
- 9. Isover Acoustic Partition Roll (APR 1200)

**Corner**

- 1. Gyproc DuraLine
- 2. Gypframe ‘C’ Stud
- 3. Gypframe Deep Flange Floor & Ceiling Channel
- 4. Gyproc Sealant
- 5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)

**‘T’ junction**

- 1. Gyproc DuraLine
- 2. Gypframe ‘C’ Stud
- 3. Gypframe Deep Flange Floor & Ceiling Channel
- 4. Gyproc Sealant
- 5. Bulk fill with Gyproc jointing materials (where gap exceeds 5mm)

**‘T’ Junction when partition with higher acoustic performance abuts a partition with lower acoustic performance.**

Acoustic principles only - detail may not be suitable for all solutions.
GypWall Robust construction details

Door frame (maximum 1200mm width) to satisfy BS 5234: Parts 1 & 2: 1992 - Heavy and Severe Duty (up to 60kg door)

1  Gyproc DuraLine
2  Gypframe 70 S 50°C Stud
3  Gypframe 70 S 50°C stud at jamb
4  Gypframe 72 DC 60 Deep Channel
5  Gypframe 72 DC 60 Deep Channel cut and bent to form door head
6  Timber door frame and architrave
7  Stud sleeved to full opening height with Gypframe 72 DC 60 Deep Channel

Advice should be sought from the door manufacturer prior to the construction of these details.

NB At the base, the channel is cut and bent to extend 300mm up the studs and fixed each side with two British Gypsum Wafer Head Drywall Screws. The studs each side of the opening are sleeved full height of opening with Gypframe Floor & Ceiling Channel.
GypWall robust system components

**Gypframe metal components (Refer to C10. S02. P02 for details)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gypframe 'C' Studs (70 S 50, 92 S 60)</strong></td>
<td>Vertical stud providing acoustic and structural performances designed to receive fixing of board to both sides.</td>
</tr>
<tr>
<td><strong>Gypframe 'I' Studs (70 I 50, 70 I 70, 92 I 90)</strong></td>
<td>Enhanced strength stud that allows for lining height, without increasing lining width. Designed to receive fixing of board to both sides.</td>
</tr>
<tr>
<td><strong>Gypframe AcouStud (70 AS 50, 92 AS 50)</strong></td>
<td>Vertical stud providing enhanced acoustic and structural performances designed to receive fixing of board to both sides.</td>
</tr>
<tr>
<td><strong>Gypframe Deep Flange Floor &amp; Ceiling Channels (72 DC 60, 94 DC 60)</strong></td>
<td>Floor and ceiling channels with deep flanges for retaining the Gypframe studs at floor and ceiling junctions for partitions 4200mm to 8000mm high. Also used around openings and in deflection heads (maximum 30mm deflection).</td>
</tr>
<tr>
<td><strong>Gypframe Extra Deep Flange Floor &amp; Ceiling Channels (72 EDC 80, 94 EDC 70)</strong></td>
<td>Floor and ceiling channels with extra deep flanges for retaining the Gypframe studs at floor and ceiling junctions for partitions over 8000mm high. Also used around openings and in deflection heads (maximum 50mm deflection).</td>
</tr>
<tr>
<td><strong>Gypframe 99 FC 50 Fixing Channel</strong></td>
<td>A versatile metal fixing channel used to support medium weight fixtures on walls.</td>
</tr>
<tr>
<td><strong>Gypframe GF51 Fixing Strap</strong></td>
<td>Used to support horizontal board joints and within deflection heads.</td>
</tr>
<tr>
<td><strong>Gypframe GFT1 Fixing T</strong></td>
<td>Used to support horizontal board joints.</td>
</tr>
<tr>
<td><strong>Gypframe GAS Internal Fixing Angle</strong></td>
<td>Steel angle providing framing stability and board support.</td>
</tr>
<tr>
<td><strong>Gypframe GA6 Splayed Angle</strong></td>
<td>Steel angle providing framing stability and board support.</td>
</tr>
<tr>
<td><strong>Gypframe Service Support Plate</strong></td>
<td>For installation of 18mm plywood within a partition cavity to support medium to heavyweight fixtures.</td>
</tr>
</tbody>
</table>

**Board products (Refer to C10. S03. P02 for details)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gyproc DuraLine</strong></td>
<td>Gypsum plasterboard with fire resistant additives and a high density core for enhanced sound insulation and impact resistance performance.</td>
</tr>
<tr>
<td><strong>Glasroc F firecase</strong></td>
<td>Non-combustible glass-reinforced gypsum board. Used to form deflection head.</td>
</tr>
<tr>
<td><strong>Gyproc SoundBloc</strong></td>
<td>Gypsum plasterboard with a high density core for enhanced sound insulation performance.</td>
</tr>
<tr>
<td><strong>Gyproc CoreBoard</strong></td>
<td>Gypsum plasterboard with fire and moisture resistant additives. Used to form deflection head.</td>
</tr>
</tbody>
</table>

¹Also available in a Moisture Resistant (mr) version. Mr boards are specified in intermittent wet use areas.
Fixing products (► Refer to C10. S04. P02 for details)

**British Gypsum Drywall Screws**
Corrosion resistant self-tapping steel screws for fixing board to metal framing less than 0.8mm thick (‘I’ Studs less than 0.6mm thick).

**British Gypsum Collated Drywall Screws**
Corrosion resistant self-tapping steel screws for fixing board to metal framing less than 0.8mm thick (‘I’ Studs less than 0.6mm thick).

**British Gypsum Wafer Head Drywall Screws**
Corrosion resistant self-tapping steel screws for fixing metal to metal framing less than 0.8mm thick (‘I’ Studs less than 0.6mm thick).

**British Gypsum Jack-Point Screws**
Corrosion resistant self-tapping steel screws for fixing board to metal framing 0.8mm thick and greater (‘I’ stud 0.6mm thick and greater).

**British Gypsum Wafer Head Jack-Point Screws**
Corrosion resistant self-tapping steel screws for fixing metal to metal framing 0.8mm thick and greater (‘I’ Studs 0.8mm thick and greater).

Plasterboard accessories (► Refer to C10. S05. P02 for details)

**Gyproc Jointing Material**
Jointing compounds, ready mixes and adhesives for reinforcement and finishing of board joints. Primers and sealers for treatment of boards for pre-decoration.

**Gyproc FireStrip**
A soft extruded linear intumescent gap sealer to maintain fire resistance located directly to the underside of the soffit when forming a deflection head.

**Gyproc Control Joint**
To accommodate structural movement of up to 7mm.

**Gyproc edge and angle beads**
Protecting and enhancing board edges and corners.

**Gyproc Sealant**
Used to seal air paths for optimum sound insulation.

**Gyproc Joint Tape**
A paper tape designed for reinforcement of flat joints or internal angles.

Finishing products (► Refer to C10. S06. P02 for details)

**Thistle MultiFinish**
To provide a plaster skim finish on most common backgrounds including undercoat plasters and plasterboard. Can provide enhanced acoustic performance.

**Thistle BoardFinish**
To provide a plaster skim finish to Gyproc plasterboards.

**Thistle SprayFinish**
To provide a plaster skim finish by spray or hand application, ideal for medium to large projects.

**ThistlePro DuraFinish**
To provide a plaster skim finish and provide up to 60% tougher resistance to accidental damage.

**ThistlePro PureFinish**
To provide a plaster skim finish with ACTIVair technology. Used to finish most common backgrounds including undercoat plasters and plasterboard. For more information refer to C02. S01. P49.

**ThistlePro Magnetic**
To provide a plaster skim finish that provides an attraction to magnets used to finish a wide range of backgrounds, including undercoat plasters and plasterboard.
### GypWall robust system components (continued)

#### Finishing products (Refer to C10. S06. P02 for details)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thistle ProTape FT50</strong></td>
<td>Self-adhesive 48mm wide glass fibre mesh tape.</td>
</tr>
<tr>
<td><strong>Thistle ProTape FT100</strong></td>
<td>Self-adhesive 100mm wide glass fibre mesh tape.</td>
</tr>
</tbody>
</table>

#### Plaster accessories
Designed for the reinforcement and finishing of board joints before plaster skimming.

#### Insulation products (Refer to C10. S09. P02 for details)

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Isover Acoustic Partition Roll (APR 1200)</strong></td>
<td>Glass mineral wool for enhanced acoustic performance.</td>
</tr>
<tr>
<td><strong>Isover Acoustic Slab</strong></td>
<td>Glass mineral wool to achieve acoustic performance.</td>
</tr>
<tr>
<td><strong>Isover Modular Roll</strong></td>
<td>Glass mineral wool for enhanced acoustic performance.</td>
</tr>
</tbody>
</table>
This is intended to be a basic description of how the system is built. For detailed installation guidance refer to the British Gypsum Site Book.

**GypWall robust installation overview**

Gypframe Deep Flange or Extra Deep Flange Floor & Ceiling Channels are suitably fixed to the floor and soffit.

Gypframe Studs are suitably fixed to abutments.

The perimeter of the partition is then sealed on both sides with Gyproc Sealant.

Gypframe Studs are then friction fitted into the Gypframe Floor & Ceiling Channels at the required centres.

Door openings are constructed to the Heavy and Severe door detail.

M&E services can be located within the partition cavity.

Isover insulation can also be added to the partition cavity for increased acoustic performance.

Gyproc DuraLine (and Gyproc SoundBloc inner layer if required) plasterboards are then fixed to the Gypframe framework with British Gypsum Drywall Screws.

**Additional information**

For full installation details, refer to the British Gypsum Site Book, available to download from british-gypsum.com.