

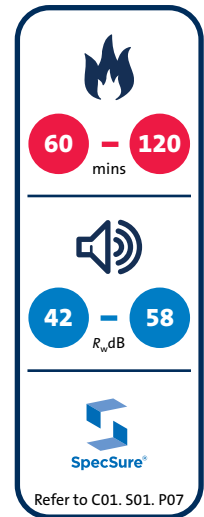
GypWall ROBUST

Durable impact resistant partition system



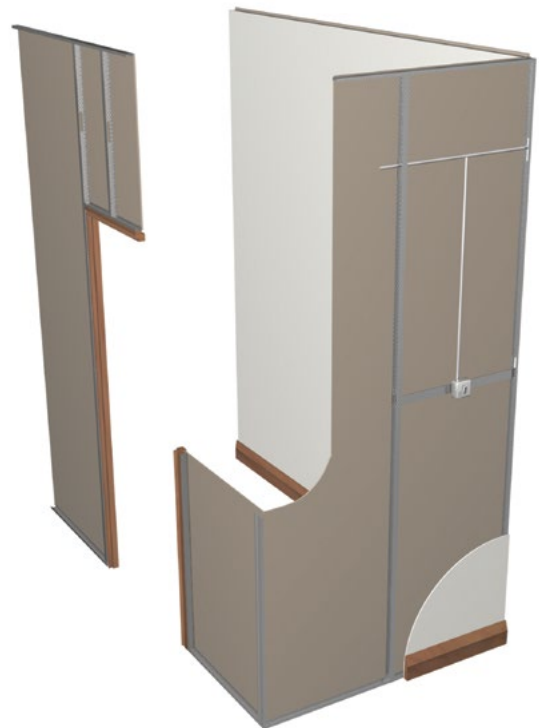
GypWall ROBUST

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 Gyproc 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 Gypframe 92 AS 50 AcouStud – a commonly chosen solution for school classrooms and hospital consulting rooms



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, P179 - **GypWall EXTREME**

GypWall robust performance

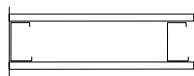
70mm Gypframe 'C' Studs - single layer board linings

For details of when
to specify fire
resistance using EN
► Refer to C02. S01. P05



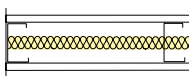
Table 1a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①



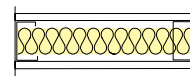
One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. Linings as in table.

②



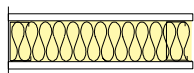
One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.

③



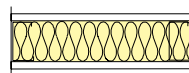
One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.

④



One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 80mm Isover Modular Roll in the cavity. Linings as in table.

⑤



One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 75mm Isover Acoustic Slab in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation <i>R</i> _w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
60 minutes fire resistance (EN)										
①	102	Gyproc DuraLine	1 x 15	3800	42	43	Severe	29	Q606043	Q606043S
②	102	Gyproc DuraLine	1 x 15	3800	47	-	Severe	29	Q606044	-
③	102	Gyproc DuraLine	1 x 15	3800	48	50	Severe	29	Q606045	Q606045S
④	102	Gyproc DuraLine	1 x 15	3800	50	-	Severe	29	Q606047	-
⑤	102	Gyproc DuraLine	1 x 15	3800	50	51	Severe	29	Q606048	-

► For further assistance in choosing the right solution for your project, try our 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 gyproc.ie

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 Gyproc Finish Plasters.

(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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

(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).

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

①		One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. Linings as in table.
②		One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
③		One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.
④		One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 80mm Isover Modular Roll in the cavity. Linings as in table.
⑤		One layer of board each side of Gypframe 70 S 50 'C' Studs at 600mm centres. 75mm Isover Acoustic Slab in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation R_w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
60 minutes fire resistance (BS)										
1	102	Gyproc DuraLine	1 x 15	3800	42	43	Severe	29	Q606043	Q606043S
2	102	Gyproc DuraLine	1 x 15	3800	47	-	Severe	29	Q606044	-
3	102	Gyproc DuraLine	1 x 15	3800	48	50	Severe	29	Q606045	Q606045S
4	102	Gyproc DuraLine	1 x 15	3800	50	-	Severe	29	Q606047	-
5	102	Gyproc DuraLine	1 x 15	3800	50	51	Severe	29	Q606048	-

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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 Gyproc Finish Plasters.

(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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

(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).



Table 2a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①	②	③	④
One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 25mm Isover Acoustic Roll (in the cavity). Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 80mm Isover Modular Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation R_w dB	Duty rating	Approx. weight kg/m ²	System reference
60 minutes fire resistance								
①	102	Gyproc DuraLine	1 x 15	4000	42	Severe	29	Q606049
②	102	Gyproc DuraLine	1 x 15	4000	47	Severe	29	Q606050
③	102	Gyproc DuraLine	1 x 15	4000	48	Severe	29	Q606051
④	102	Gyproc DuraLine	1 x 15	4000	50	Severe	29	Q606052

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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.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

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

①	②	③	④
One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.	One layer of board each side of Gypframe 70 I 50 'I' Studs at 600mm centres. 80mm Isover Modular Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height mm	Sound insulation R_w dB	Duty rating	Approx. weight kg/m ²	System reference
60 minutes fire resistance								
①	102	Gyproc DuraLine	1 x 15	4000	42	Severe	29	Q606049
②	102	Gyproc DuraLine	1 x 15	4000	47	Severe	29	Q606050
③	102	Gyproc DuraLine	1 x 15	4000	48	Severe	29	Q606051
④	102	Gyproc DuraLine	1 x 15	4000	50	Severe	29	Q606052

► For further assistance in choosing the right solution for your project, try our 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 gyproc.ie

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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)

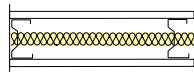
70mm Gypframe AcouStuds - single layer board linings

For details of when
to specify fire
resistance using EN
Refer to C02. S01. P05



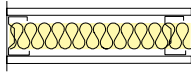
Table 3a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①



One layer of board each side of
Gypframe 70 AS 50 AcouStuds at
600mm centres. 25mm Isover Acoustic
Roll in the cavity. Linings as in table.

②



One layer of board each side of
Gypframe 70 AS 50 AcouStuds at
600mm centres. 50mm Isover Acoustic
Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation R_w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
60 minutes fire resistance (EN)										
1	102	Gyproc DuraLine	1 x 15	4000	48	49	Severe	29	Q606A044	Q606A044S
2	102	Gyproc DuraLine	1 x 15	4000	50	51	Severe	29	Q606A046	Q606A046S

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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 partitions finished using jointing or plaster skim.

³ Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).



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

①		One layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
②		One layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation		Duty rating	Approx. weight kg/m³	System reference	
					<i>R_w</i> dB				Any finish ²	Skim only ³
60 minutes fire resistance BS										
1	102	Gyproc DuraLine	1 x 15	4000	48	49	Severe	29	Q606A044	Q606A044S
2	102	Gyproc DuraLine	1 x 15	4000	50	51	Severe	29	Q606A046	Q606A046S

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¹ Based on a limiting deflection of L/240 at 200 Pa.

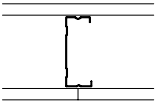
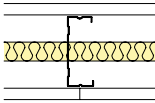
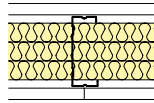
² Sound insulation performance for partitions finished using jointing or plaster skim.

³ Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

Table 4a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. Linings as in table.
②		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
③		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. 3 x 25mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation <i>R</i> _w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
60 minutes fire resistance (EN)										
1	124	Gyproc DuraLine	1 x 15	4000	45	46	Severe	29	A206257	A206257S
2	124	Gyproc DuraLine	1 x 15	4000	48 ⁴	49 ⁴	Severe	30	A206258	A206258S
3	124	Gyproc DuraLine	1 x 15	4000	52	53	Severe	30	Q606057	Q606057S

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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 partitions finished using jointing or plaster skim.

³ Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

⁴ Increasing insulation to 50mm Isover Acoustic Roll 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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

(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).

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

①		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. Linings as in table.
②		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
③		One layer of board each side of Gypframe 92 S 50 'C' Studs at 600mm centres. 3 x 25mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height mm	Sound insulation R_w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ¹	Skim only ²			Any finish ¹	Skim only ²
60 minutes fire resistance BS										
1	124	Gyproc DuraLine	1 x 15	4000	45	46	Severe	29	A206257	A206257S
2	124	Gyproc DuraLine	1 x 15	4000	48 ³	49 ³	Severe	30	A206258	A206258S
3	124	Gyproc DuraLine	1 x 15	4000	52	53	Severe	30	Q606057	Q606057S

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¹ Sound insulation performance for partitions finished using jointing or plaster skim.

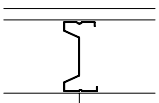
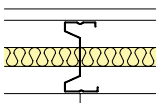
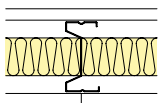
² Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

³ Increasing insulation to 50mm Isover Acoustic Roll 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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

Table 5a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. Linings as in table.
②		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
③		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height ¹ mm	Sound insulation <i>R</i> _w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
60 minutes fire resistance (EN)										
1	124	Gyproc DuraLine	1 x 15	4000	45	46	Severe	29	A206A277	A206A277S
2	124	Gyproc DuraLine	1 x 15	4000	50	51	Severe	30	A206A278	A206A278S
3	124	Gyproc DuraLine	1 x 15	4000	52	53	Severe	30	A206A279	A206A279S

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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.

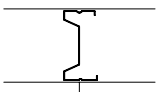
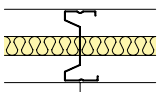
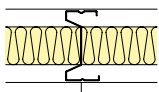
² Sound insulation performance for partitions finished using jointing or plaster skim.

³ Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

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

①		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. Linings as in table.
②		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
③		One layer of board each side of 92mm Gypframe AcouStuds at 600mm centres. 50mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height mm	Sound insulation <i>R</i> _w dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ¹	Skim only ²			Any finish ¹	Skim only ²
60 minutes fire resistance BS										
1	124	Gyproc DuraLine	1 x 15	4000	45	46	Severe	29	A206A277	A206A277S
2	124	Gyproc DuraLine	1 x 15	4000	50	51	Severe	30	A206A278	A206A278S
3	124	Gyproc DuraLine	1 x 15	4000	52	53	Severe	30	A206A279	A206A279S

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¹ Sound insulation performance for partitions finished using jointing or plaster skim.

² Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

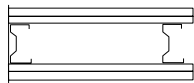
NB The fire resistance and sound insulation performances are for imperforate partitions, but incorporating deflection heads, with all joints taped and filled or skimmed according to Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout,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

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).



Table 6a — Solutions to satisfy the requirements of BS EN 1364-1: 1999

①



One inner layer and one outer layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. Linings as in table.

②



One inner layer and one outer layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.

Detail	Partition thickness mm	Inner board type mm	Outer board type mm	Max. partition height ¹ mm	Sound insulation <i>R_w</i> dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ²	Skim only ³			Any finish ²	Skim only ³
90 minutes fire resistance 										
	127	Gyproc SoundBloc 1 x 12.5	Gyproc DuraLine 1 x 15	4000	57	58	Severe	52	Q606A063	Q606A063S
120 minutes fire resistance 										
	127	Gyproc SoundBloc 1 x 12.5	Gyproc DuraLine 1 x 15	4000	53	-	Severe	51	Q606A062	-
	127	Gyproc SoundBloc 1 x 12.5	Gyproc DuraLine 1 x 15	3000	57	58	Severe	52	Q606A063	Q606A063S

► For further assistance in choosing the right solution for your project, try our 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 gyproc.ie

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.

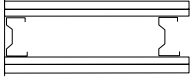
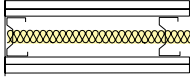
² Sound insulation performance for partitions finished using jointing or plaster skim.

³ Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

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

①  One inner layer and one outer layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. Linings as in table.	②  One inner layer and one outer layer of board each side of Gypframe 70 AS 50 AcouStuds at 600mm centres. 25mm Isover Acoustic Roll in the cavity. Linings as in table.
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Detail	Partition thickness mm	Inner board type mm	Outer board type mm	Max. partition height mm	Sound insulation <i>R_w</i> dB		Duty rating	Approx. weight kg/m²	System reference	
					Any finish ¹	Skim only ²			Any finish ¹	Skim only ²
120 minutes fire resistance BS										
①	127	Gyproc SoundBloc 1 x 12.5	Gyproc DuraLine 1 x 15	4000	53	-	Severe	51	Q606A062	-
②	127	Gyproc SoundBloc 1 x 12.5	Gyproc DuraLine 1 x 15	3000	57	58	Severe	52	Q606A063	Q606A063S
①	132	Gyproc SoundBloc 1 x 15	Gyproc DuraLine 1 x 15	4000	53	54	Severe	55	Q606A064	Q606A064S

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¹ Sound insulation performance for partitions finished using jointing or plaster skim.

² Sound insulation performance for partitions finished with a 2mm skim finish of Gyproc Finish Plasters.

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 Gyproc's recommendations. The quoted performances are achieved only if Gyproc and Isover components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with Gyproc.

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).

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. P37 – 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.



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 Gyproc Wafer Head Drywall Screws or steel pop rivets (two to each flange).

► Refer to Partitions introduction C04. S01. P110 – 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. P21 – Building acoustics.

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 Partitions introduction C04. S01. P119 – construction details 26 and 27.



Important information

Particular care must be taken in selecting the correct length of Gyproc 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.

► Refer to Partitions introduction C04. S01. P121 – construction details 28-31.

Cavity fire barriers

Where required to maintain fire performance, suitable fire stopping (by others) should be installed full filled within the partition cavity to form a suitable closure.

► Refer to C06. S06. P422 – Cavity fire 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. P21 – Building acoustics.

For deflection head design:

► Refer to Partitions introduction C04. S01. P116 – construction details 15 - 22.

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. P41 – 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. P110 – construction detail 2.

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

Where 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. P110 – construction detail 2a.

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



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. P289 – **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.

► Refer to Partitions introduction C04. S01. P122 – construction details 29-31.

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 Gypframe Service Support Plates.

► Refer to C02. S01. P41 – Service installations.

Access for maintenance

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 the Gyproc Technical Department for further information.

Board finishing

► Refer to C08. S01. P483 – Finishes.

Tiling

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

► Refer to C08. S04. P498 – Tiling.

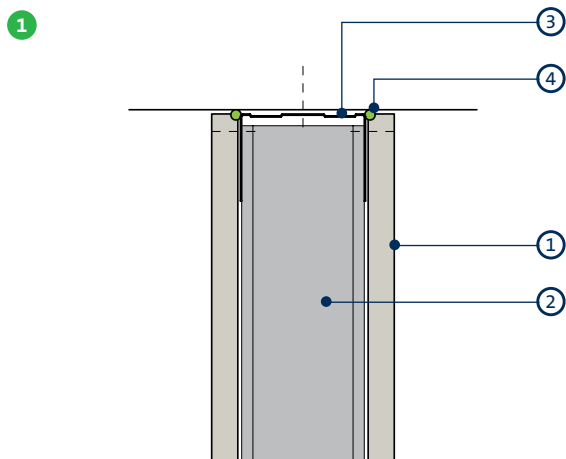
Construction details

For standard GypWall construction details

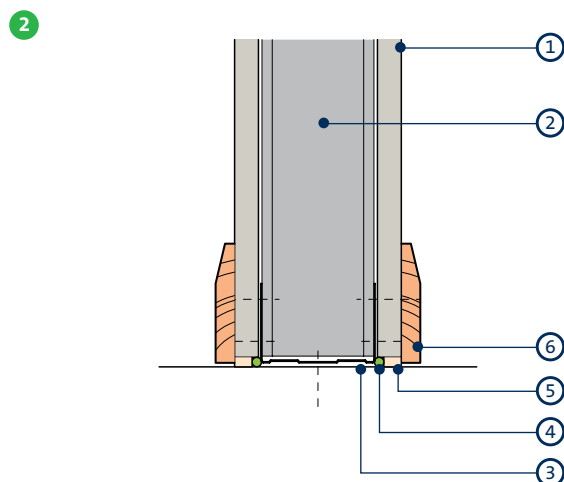
► Refer to Partitions introduction C04. S01. P110 – construction details.

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

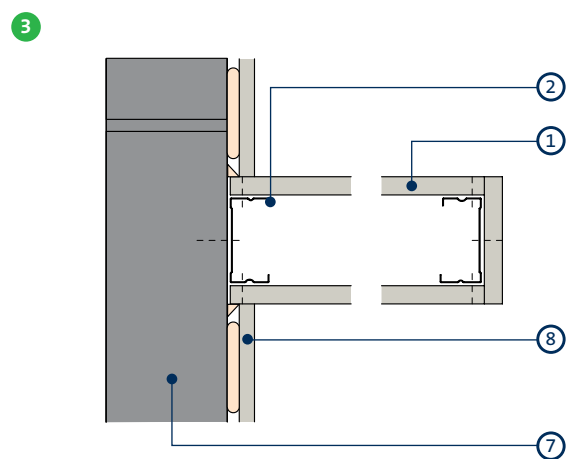
GypWall robust construction details



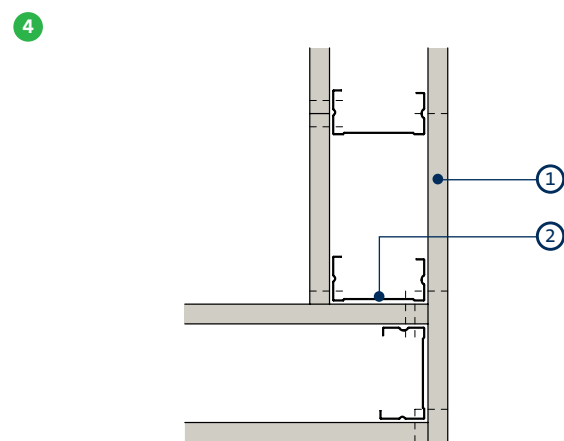
Head



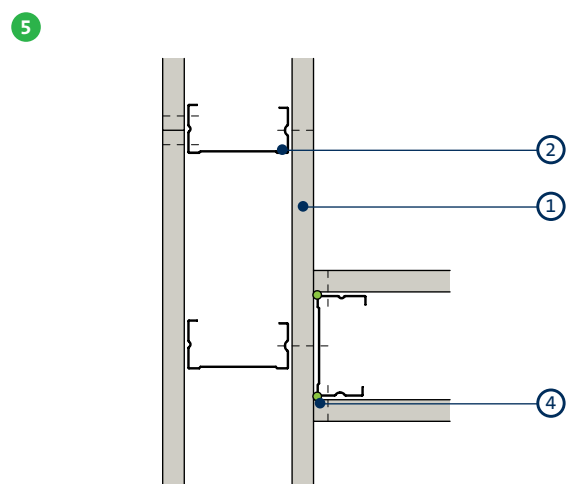
Base



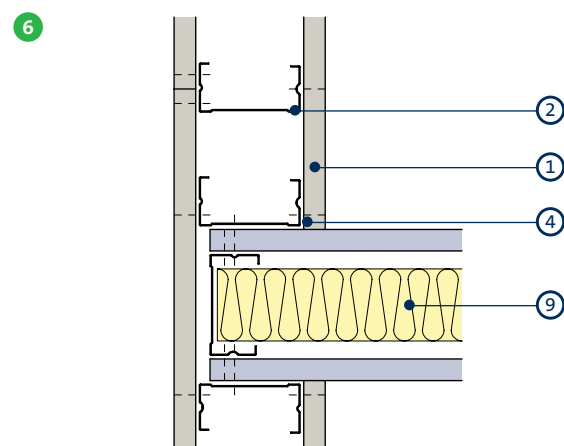
Junction with masonry and stop end



Corner



'T' junction



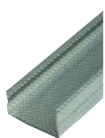
'T' Junction when partition with higher acoustic performance abuts a partition with lower acoustic performance. Acoustic principles only - detail may not be suitable for all solutions

- 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 **Drilyner** wall lining system
- 9 Isover Acoustic Roll

GypWall robust system components

Gypframe metal components



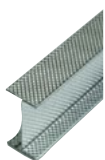
Gypframe 'C' Studs (70 S 60, 92 S 60)

Vertical stud providing acoustic and structural performances designed to receive fixing of board to both sides.



Gypframe GFS1 Fixing Strap

Used to support horizontal board joints and within deflection heads.



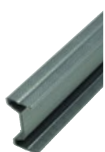
Gypframe 'I' Studs (70 I 50, 70 I 70, 92 I 90)

Enhanced strength stud that allows for lining height, without increasing lining width. Designed to receive fixing of board to both sides.



Gypframe GFT1 Fixing T

Used to support horizontal board joints.



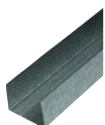
Gypframe AcouStud (70 AS 50, 92 AS 50)

Vertical stud providing enhanced acoustic and structural performances designed to receive fixing of board to both sides.



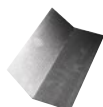
Gypframe GA5 Internal Fixing Angle

Steel angle providing framing stability and board support.



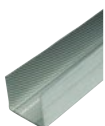
Gypframe Deep Flange Floor & Ceiling Channels (72 DC 60, 94 DC 60)

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).



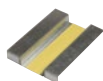
Gypframe GA6 Splayed Angle

Steel angle providing framing stability and board support.



Gypframe Extra Deep Flange Floor & Ceiling Channels (72 EDC 80, 94 EDC 70)

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).



Gypframe Service Support Plate

For installation of 18mm plywood within a partition cavity to support medium to heavyweight fixtures.



Gypframe 99 FC 50 Fixing Channel

A versatile metal fixing channel used to support medium weight fixtures on walls.

Board products



Gyproc DuraLine¹

Gypsum plasterboard with fire resistant additives and a high density core for enhanced sound insulation and impact resistance performance.



Glasroc F FIRECASE

Non-combustible glass-reinforced gypsum board. Used to form deflection head.



Gyproc SoundBloc¹

Gypsum plasterboard with a high density core for enhanced sound insulation performance.



Gyproc CoreBoard

Gypsum plasterboard with fire and moisture resistant additives. Used to form deflection head.

¹ Also available in a Moisture Resistant (MR) version. MR boards are specified in intermittent wet use areas.

GypWall ROBUST system components (continued)

Fixing products



Gyproc Drywall Screws

Corrosion resistant self-tapping steel screws for fixing board-to-timber and board-to-metal framing less than 0.8mm thick ('I' Studs less than 0.6mm thick).



Gyproc 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).



Gyproc Collated Drywall Screws

Corrosion resistant self-tapping steel screws for fixing board-to-timber and board-to-metal framing less than 0.8mm thick ('I' Studs less than 0.6mm thick).



Gyproc 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).



Gyproc 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).

Plasterboard accessories



Gyproc Jointing Material

Jointing compounds, ready mixes and adhesives for reinforcement and finishing of board joints.



Gyproc Sealant

Used to seal air paths for optimum sound insulation.



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 Paper Joint Tape

A paper tape designed for reinforcement of flat joints or internal angles.



Gyproc Control Joint

To accommodate structural movement of up to 7mm.



Gyproc Drywall Primer

Used to prepare for painting. Tub contents 10 litre.

Finishing products



Gyproc Skimcoat

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



Gyproc Carlite Finish

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



Gyproc Carlite Ultra Finish

Offers all the benefits of Gyproc Skimcoat and Gyproc Carlite Finish with a reduced set time of 90-120 mins, making it ideal for smaller jobs



Gyproc Magnetic Plaster

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

**Plaster accessories**

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

Insulation products

**Isover Acoustic Roll**

Glass mineral wool for enhanced acoustic performance.

**Isover Modular Roll**

Glass mineral wool for enhanced acoustic performance.

**Isover Acoustic Slab**

Glass mineral wool to achieve acoustic performance.

GypWall ROBUST installation overview

This is intended to be a basic description of how the system is built.



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



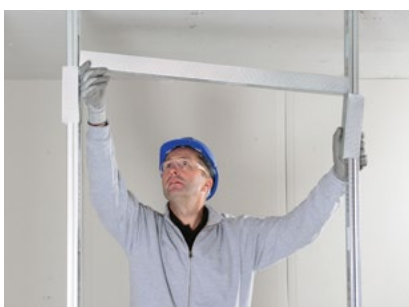
Gypframe Studs are suitably fixed to abutments.



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 Gyproc Drywall Screws.



Additional information

For full installation details, refer to the **Gyproc Installation Guide**, available to download from [gyproc.ie](https://www.gyproc.ie)

