

Issue date: 1st May 2008

Key changes since original publication (July 2005):

1 May 2008	Pages 70 & 71 – tables 4a & 4b - spec A206A078 Sound Insulation changed from 40 to 39 Rw dB rating.
5 September 2007	Pages 66 & 67 – tables 2a & 2b - specs A206165 & A206197 changed from Medium to Heavy duty rating; spec A206078 Sound Insulation changed from 37 to 38 Rw dB rating. Pages 70 & 71 – tables 4a & 4b - additional detail 4 SoundBloc spec included (A206A252) and new drawing inserted. Specs 4 and 5 have now become 5 and 6. Pages 72 & 73 – tables 5a & 5b - spec A206233 changed from Medium to Heavy duty rating.
15 January 2007	Page 83 – Deflection head detail 18 - 'downward deflection' text in heading deleted.
13 October 2006	Page 70 – Spec 1 changed from 38dB to 37dB on the 30 mins fire resistance section. Page 71 – Spec 1 changed from 38dB to 37dB on the 30 mins fire resistance section. Page 83 – Gyproc Sealant corrected on all drawings.
21 August 2006	Whole section – Isowool branding changed to Isover. Page 63 – Services installation image changed. Page 65 – 60 minute multiboard spec 1 duty rating changed from 'Heavy' to 'Severe'. Page 80 – Construction detail 6 changed to illustrate single layer boards.
14 April 2006	Pages 70, 71, 76, 77 – Various maximum partition heights changed.
22 December 2005	Page 75 – Maximum partition height of A206091 changed from 4000mm to 7600mm.

Gyproc, Thistle, Gypframe, Glasroc and Arteco are all registered trade names of BPB United Kingdom Limited. Isover is a registered trade name of Saint-Gobain.

British Gypsum reserve the right to revise product specification without notice. The information given is correct to the best of our knowledge at the time of publication, but it is the users responsibility to ensure it remains current prior to use. Please refer to our Product Data Sheet which is available on request.

For a comprehensive and up to date library of information visit our website at: www.british-gypsum.com

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Gypwall-classic-07.pdf © British Gypsum

THE WHITE BOOK 2005



British Gypsum

GypWall CLASSIC

The definitive metal stud partition system



GypWall CLASSIC

Partitions for a wide range of applications

34 - 61 dB
30 - 120 mins

GypWall CLASSIC partitions are cost-effective, multi-purpose partitions, which have provided the industry standard for many years. They are suitable for all types of buildings, including residential, healthcare and commercial, and are approved for use in hospitals by the Department of Health and the Welsh Office (refer to HTM 56, Partitions).



Sector

- ✓ Office / commercial
- ✓ Educational
- ✓ Residential
- ✓ Healthcare
- ✓ Leisure
- ✓ Industrial



Gypframe
'C' Stud



Gypframe
AcouStud

Key facts

- Range of stud options to match performance requirements
- Acoustic stud option for enhanced acoustic performance
- Satisfy BS 5234 strength and robustness requirements up to Severe Duty
- 30 - 120 minutes fire resistance to BS and EN standards
- Achieve high levels of sound insulation up to R_w 61 dB
- Accommodate services within stud cavity
- Can allow for deflection at the head
- Gypframe metal framework will not twist, warp or rot

System components


Gypframe metal products


	48 S 50 'C' Stud	Length 2400, 2700mm 3000, 3300, 3600mm
	70 S 50 'C' Stud	Length 2400, 2700mm 3000, 3300mm 3600, 4200mm
	70 AS 50 AcouStud	Length 2400, 2700mm 3000, 3600mm 3600, 4200mm
	92 S 50 'C' Stud	Length 3600, 4200mm
	146 S 50 'C' Stud	Length 2400, 2700mm 3000, 3300mm 4200mm
	146 AS 50 AcouStud	Length 3600, 4200mm
	Floor & Ceiling Channels Standard, Deep Flange Floor & Ceiling Channel (DC) and Extra Deep Flange Floor & Ceiling Channel (EDC). All channels are available in 3600mm only.	
	99 FC 50 Fixing Channel	Length 2400mm
	GFS1 Fixing Strap	Length 2400mm
	GFT1 Fixing 'T'	Length 2400mm
	GA5 Internal Fixing Angle	Length 3600mm
	GA6 Splayed Angle	Length 2400, 3600mm


Gyproc and Glasroc board products

	Gyproc WallBoard[†] Thickness Width	12.5, 15mm 1200mm
	Gyproc FireLine[†] Thickness Width	12.5, 15mm 1200mm

Gyproc and Glasroc board products (cont'd)


	Gyproc SoundBloc[†] Thickness Width	12.5, 15mm 1200mm
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	Gyproc Plank Thickness Width	19mm 600mm
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	Glasroc MultiBoard Thickness Width	6, 10, 12.5mm 1200mm
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[†] Moisture resistant boards are specified in intermittent wet use areas e.g. shower cubicles.


Fixing and finishing products


 **Gyproc Wafer Head Drywall Screws**
For metal-to-metal fixing up to 0.79mm thick.


or
 **Gyproc Wafer Head Jack-Point Screws**
For metal-to-metal fixing 0.8mm thick or greater and 'I' studs greater than 0.55mm thick.


 **Gyproc Drywall Screws**
For fixing boards to stud framing up to 0.79mm thick.

or
 **Gyproc Jack-Point Screws**
For fixing boards to stud framing 0.8mm thick or greater and 'I' studs greater than 0.55mm thick.


 **Gyproc Sealant**
Sealing air paths for optimum sound insulation.


 **Gyproc jointing materials**
For seamless jointing.


 **Gyproc edge beads**
To protect and enhance board edges.

 **Gyproc Control Joint**
To accommodate structural movement.

 **Gyproc FireStrip**
For fire-stopping deflection heads.

 **Thistle Board Finish or Thistle Multi-Finish**
To provide a plaster skim finish.

 **Isover APR 1200**
25mm and 50mm, for improved acoustic performance.

 **Stone Mineral Wool**
For providing acoustic / thermal insulation.



Installation overview



Gypframe Floor & Ceiling Channel is fixed at the head and base. Gypframe studs are fitted vertically to a friction-fit within the channel sections, and to abutments, to form the framework. This allows for adjustment during boarding. Studs are fitted so as to all face the same way. Additional framing is installed as required to support heavy fixtures.

Boards are screw-fixed to framing members to form the lining. Horizontal board-end joints of face lining boards should be backed with Gypframe GFS1 Fixing Strap (double layer) or Gypframe GFT1 Fixing 'T' (single layer).

Openings

Details for openings differ according to Duty requirements. See **Design - Openings** for further details.

Services

Electrical and other services are normally installed after one side is boarded. Horizontal runs are routed through cut-outs in the studs. Gypframe 99 FC 50 Fixing Channel can be installed between studs to support recessed switch boxes / socket outlets, or a high performance socket box detail used where higher acoustic performance is required.

Performance (▶ Refer to 2 - Basic principles of system design)

EN

Table 1a – 48mm Gypframe 'C' Studs - single and double layer board linings

1	2	3	4
One layer of board each side of 48mm Gypframe 'C' Studs at 600mm centres. Linings as in table.	One layer of board each side of 48mm Gypframe 'C' Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.	Two layers of board each side of 48mm Gypframe 'C' Studs at 600mm centres. Linings as in table.	Two layers of board each side of 48mm Gypframe 'C' Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.

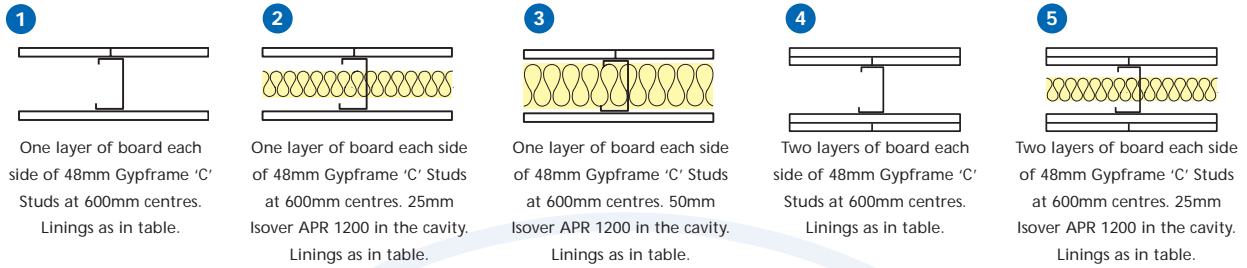
Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance EN								
1	WallBoard	1 x 12.5	75	18	2500	34	Medium	A206001
1	WallBoard	1 x 15	80	22	2800	36	Medium	A206002
1	SoundBloc	1 x 12.5	75	22	2500	37	Medium	A206152
1	SoundBloc	1 x 15	80	26	2800	39	Medium	A206153
2	WallBoard	1 x 12.5	75	18	2500	40	Medium	A206033
2	WallBoard	1 x 15	80	22	2800	42	Medium	A206034
2	SoundBloc	1 x 12.5	75	22	2500	43	Medium	A206184
2	SoundBloc	1 x 15	80	26	2800	44	Medium	A206185
3	WallBoard	2 x 12.5	100	35	3400	42	Severe	A206003
4	WallBoard	2 x 12.5	100	35	3000	49	Severe	A206035
60 minutes fire resistance EN								
1	FireLine	1 x 15	80	24	2800	36	Heavy	A206066
1	MultiBoard	1 x 12.5	75	25	2500	36	Severe	G106010
2	FireLine	1 x 15	80	24	2800	42	Heavy	A206098
3	SoundBloc	2 x 12.5	100	43	3000	46	Severe	A206154
3	WallBoard	2 x 15	110	42	3700	45	Severe	A206004
4	SoundBloc	2 x 12.5	100	43	3000	51	Severe	A206186
90 minutes fire resistance EN								
3	SoundBloc	2 x 15	110	51	3000	49	Severe	A206155
3	FireLine	2 x 12.5	100	40	3400	42	Severe	A206067
4	SoundBloc	2 x 15	110	51	3000	53	Severe	A206187
120 minutes fire resistance EN								
3	FireLine	2 x 12.5	100	40	3000	42	Severe	A206067
3	FireLine	2 x 15	110	49	3700	45	Severe	A206156
4	FireLine	2 x 12.5	100	40	3000	49	Severe	A206099

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

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

BS

Table 1b – 48mm Gypframe 'C' Studs - single and double layer board linings



Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance BS								
1	MultiBoard	1 x 10	70	20	2500	35	Heavy	G106006
1	WallBoard	1 x 12.5	75	18	2500	34	Medium	A206001
1	WallBoard	1 x 15	80	21	2800	36	Medium	A206002
1	SoundBloc	1 x 12.5	75	22	2500	37	Medium	A206152
1	SoundBloc	1 x 15	80	26	2800	39	Medium	A206153
2	WallBoard	1 x 12.5	75	18	2500	40	Medium	A206033
2	WallBoard	1 x 15	80	21	2800	42	Medium	A206034
2	SoundBloc	1 x 12.5	75	22	2500	43	Medium	A206184
2	SoundBloc	1 x 15	80	26	2800	44	Medium	A206185
60 minutes fire resistance BS								
1	MultiBoard	1 x 12.5	75	25	2500	36	Severe	G106010
1	FireLine	1 x 15	80	24	2800	36	Heavy	A206066
2	FireLine	1 x 15	80	24	2800	42	Heavy	A206098
3	MultiBoard	1 x 10	70	20	2500	43	Heavy	G106008
4	WallBoard	2 x 12.5	100	35	3400	42	Severe	A206003
4	SoundBloc	2 x 12.5	100	43	3400	46	Severe	A206154
5	WallBoard	2 x 12.5	100	35	3400	49	Severe	A206035
5	SoundBloc	2 x 12.5	100	43	3400	51	Severe	A206186
90 minutes fire resistance BS								
4	WallBoard	2 x 15	110	42	3700	45	Severe	A206004
4	SoundBloc	2 x 15	110	51	3700	49	Severe	A206155
5	WallBoard	2 x 15	110	42	3700	49	Severe	A206036
5	SoundBloc	2 x 15	110	51	3700	53	Severe	A206187
120 minutes fire resistance BS								
4	MultiBoard	2 x 10	90	40	3100	41	Severe	G106011
4	FireLine	2 x 12.5	100	40	3400	42	Severe	A206067
5	FireLine	2 x 12.5	100	40	3400	49	Severe	A206099

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

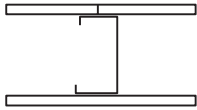
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

Performance (▶ Refer to 2 - Basic principles of system design)

EN

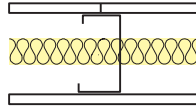
Table 2a – 70mm Gypframe 'C' Studs - single layer board linings

1



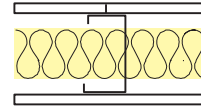
One layer of board each side of 70mm Gypframe 'C' Studs at 600mm centres.
Linings as in table.

2



One layer of board each side of 70mm Gypframe 'C' Studs at 600mm centres.
25mm Isover APR 1200 in the cavity.
Linings as in table.

3



One layer of board each side of 70mm Gypframe 'C' Studs at 600mm centres.
50mm Isover APR 1200 in the cavity.
Linings as in table.

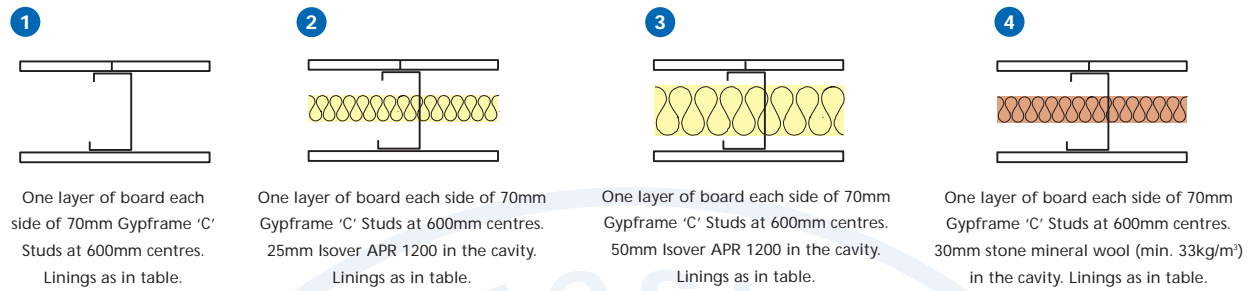
Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance EN								
1	WallBoard	1 x 12.5	97	18	3600	36	Medium	A206013
1	WallBoard	1 x 15	102	22	3800	38	Medium	A206014
1	SoundBloc	1 x 12.5	97	22	3600	40	Medium	A206164
1	SoundBloc	1 x 15	102	26	3800	42	Heavy	A206165
2	WallBoard	1 x 12.5	97	18	3600	42	Medium	A206045
2	WallBoard	1 x 15	102	22	3800	43	Medium	A206046
2	SoundBloc	1 x 12.5	97	22	3600	45	Medium	A206196
2	SoundBloc	1 x 15	102	26	3800	47	Heavy	A206197
3	WallBoard	1 x 12.5	97	19	3600	43	Medium	A206138
3	WallBoard	1 x 15	102	22	3800	44	Medium	A206139
3	SoundBloc	1 x 12.5	97	22	3600	47	Medium	A206228
60 minutes fire resistance EN								
1	FireLine	1 x 15	102	24	3800	38	Heavy	A206078
2	FireLine	1 x 15	102	24	3800	43	Heavy	A206110
3	FireLine	1 x 15	102	24	3800	44	Heavy	A206141

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

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

BS

Table 2b – 70mm Gypframe 'C' Studs - single layer board linings



Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
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30 minutes fire resistance BS

1	WallBoard	1 x 12.5	97	18	3600	36	Medium	A206013
1	WallBoard	1 x 15	102	22	3800	38	Medium	A206014
1	SoundBloc	1 x 12.5	97	22	3600	40	Medium	A206164
1	SoundBloc	1 x 15	102	26	3800	42	Heavy	A206165
2	WallBoard	1 x 12.5	97	18	3600	42	Medium	A206045
2	SoundBloc	1 x 15	102	26	3800	47	Heavy	A206197
2	SoundBloc	1 x 12.5	97	22	3600	45	Medium	A206196
2	WallBoard	1 x 15	102	22	3800	43	Medium	A206046
3	SoundBloc	1 x 12.5	97	22	3600	47	Medium	A206228
3	WallBoard	1 x 15	102	22	3800	44	Medium	A206139
3	WallBoard	1 x 12.5	97	19	3600	43	Medium	A206138

60 minutes fire resistance BS

1	FireLine	1 x 15	102	24	3800	38	Heavy	A206078
2	FireLine	1 x 15	102	24	3800	43	Heavy	A206110
3	FireLine	1 x 15	102	25	3800	44	Heavy	A206141
4	FireLine	1 x 12.5	97	25	3600	43	Medium	A206130

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

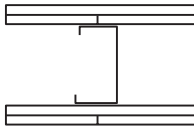
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

Performance (▶ Refer to 2 - Basic principles of system design)

EN

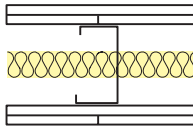
Table 3a – 70mm Gypframe 'C' Studs - double layer board linings

1



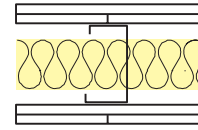
Two layers of board each side of 70mm Gypframe 'C' Studs at 600mm centres. Linings as in table.

2



Two layers of board each side of 70mm Gypframe 'C' Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.

3



Two layers of board each side of 70mm Gypframe 'C' Studs at 600mm centres. 50mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance EN								
1	WallBoard	2 x 12.5	122	35	4600	45	Severe	A206015
1	SoundBloc	2 x 12.5	122	43	4600	49	Severe	A206166
2	WallBoard	2 x 12.5	122	35	4600	49	Severe	A206047
2	SoundBloc	2 x 12.5	122	43	4600	52	Severe	A206198
3	SoundBloc	2 x 12.5	122	44	4600	53	Severe	A206230
3	WallBoard	2 x 12.5	122	35	4600	50	Severe	A206142
60 minutes fire resistance EN								
1	WallBoard	2 x 15	132	42	4900	46	Severe	A206016
1	SoundBloc	2 x 15	132	51	4900	51	Severe	A206167
1	SoundBloc	2 x 12.5	122	43	4600	49	Severe	A206166
2	SoundBloc	2 x 12.5	122	43	4000	52	Severe	A206198
2	WallBoard	2 x 15	132	42	4000	50	Severe	A206048
2	SoundBloc	2 x 15	132	51	4000	54	Severe	A206199
3	SoundBloc	2 x 12.5	122	44	4000	53	Severe	A206230
3	WallBoard	2 x 12.5	122	35	4000	50	Severe	A206142
90 minutes fire resistance EN								
1	SoundBloc	2 x 15	132	51	4000	51	Severe	A206167
1	FireLine	2 x 12.5	122	40	4600	46	Severe	A206079
2	SoundBloc	2 x 15	132	51	4000	54	Severe	A206199
2	FireLine	2 x 12.5	122	40	4600	49	Severe	A206111
3	SoundBloc	2 x 15	132	52	4000	56	Severe	A206231
3	FireLine	2 x 12.5	122	40	4600	50	Severe	A206144
120 minutes fire resistance EN								
1	FireLine	2 x 12.5	122	40	4200	46	Severe	A206079
1	FireLine	2 x 15	132	49	4900	46	Severe	A206251
2	FireLine	2 x 12.5	122	40	4000	49	Severe	A206111
2	FireLine	2 x 15	132	49	4300	50	Severe	A206253
3	FireLine	2 x 12.5	122	40	4000	50	Severe	A206144

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

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

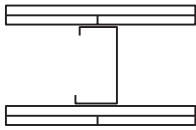
NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

NBS work section K10 - Plasterboard drylinings / partitions / ceilings

BS

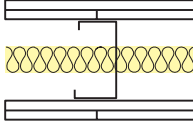
Table 3b – 70mm Gypframe ‘C’ Studs - double layer board linings

1



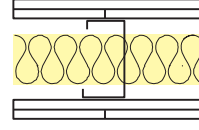
Two layers of board each side of 70mm Gypframe ‘C’ Studs at 600mm centres. Linings as in table.

2



Two layers of board each side of 70mm Gypframe ‘C’ Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.

3



Two layers of board each side of 70mm Gypframe ‘C’ Studs at 600mm centres. 50mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
60 minutes fire resistance BS								
1	WallBoard	2 x 12.5	122	35	4600	45	Severe	A206015
1	SoundBloc	2 x 12.5	122	43	4600	49	Severe	A206166
2	WallBoard	2 x 12.5	122	35	4600	49	Severe	A206047
2	SoundBloc	2 x 12.5	122	43	4600	52	Severe	A206198
3	WallBoard	2 x 12.5	122	36	4600	50	Severe	A206142
3	SoundBloc	2 x 12.5	122	44	4600	53	Severe	A206230
90 minutes fire resistance BS								
1	WallBoard	2 x 15	132	42	4900	46	Severe	A206016
1	SoundBloc	2 x 15	132	51	4900	51	Severe	A206167
2	WallBoard	2 x 15	132	42	4900	50	Severe	A206048
2	SoundBloc	2 x 15	132	51	4900	54	Severe	A206199
3	SoundBloc	2 x 15	132	52	4900	56	Severe	A206231
120 minutes fire resistance BS								
1	MultiBoard	2 x 10	112	40	4200	42	Severe	G106013
1	FireLine	2 x 12.5	122	40	4600	46	Severe	A206079
2	FireLine	2 x 12.5	122	40	4600	49	Severe	A206111
3	FireLine	2 x 12.5	122	41	4600	50	Severe	A206144

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

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

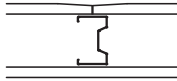
NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

Performance (▶ Refer to 2 - Basic principles of system design)

EN

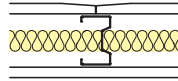
Table 4a – 70mm Gyproframe AcouStuds - single and double layer board linings

1



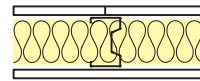
One layer of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres.
Linings as in table.

2



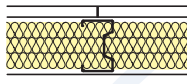
One layer of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres. 25mm
Isover APR 1200 in the cavity. Linings as in table.

3



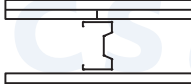
One layer of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres. 50mm
Isover APR 1200 in the cavity. Linings as in table.

4



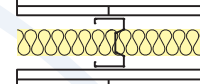
One layer of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres. 3 x 25mm
Isover APR 1200 in the cavity. Linings as in table.

5



Two layers of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres.
Linings as in table.

6



Two layers of board each side of 70mm Gyproframe
70 AS 50 AcouStuds at 600mm centres. 25mm
Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance EN								
1	WallBoard	1 x 12.5	97	18	3800	37	Medium	A206A013
1	WallBoard	1 x 15	102	22	4000	40	Medium	A206A014
1	SoundBloc	1 x 12.5	97	22	3800	41	Medium	A206A164
2	SoundBloc	1 x 12.5	97	22	3800	48	Medium	A206A196
3	WallBoard	1 x 12.5	97	19	3800	44	Medium	A206A138
3	WallBoard	1 x 15	102	22	4000	46	Medium	A206A139
3	SoundBloc	1 x 12.5	97	23	3800	49	Medium	A206A228
4	SoundBloc	1 x 15	102	26	4000	50	Heavy	A206A252
5	WallBoard	2 x 12.5	122	35	4700	47	Severe	A206A015
60 minutes fire resistance EN								
1	FireLine	1 x 15	102	24	4000	39	Heavy	A206A078
5	SoundBloc	2 x 12.5	122	43	4700	53	Severe	A206A166
6	SoundBloc	2 x 12.5	122	43	4000	58	Severe	A206A198
90 minutes fire resistance EN								
5	SoundBloc	2 x 15	132	51	4000	54	Severe	A206A167
5	FireLine	2 x 12.5	122	40	4700	49	Severe	A206A079
6	FireLine	2 x 12.5	122	40	4700	54	Severe	A206A111
120 minutes fire resistance EN								
5	FireLine	2 x 12.5	122	40	4200	49	Severe	A206A079
5	FireLine	2 x 15	132	49	5000	49	Severe	A206A251
6	FireLine	2 x 12.5	122	40	4000	54	Severe	A206A111

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

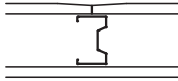
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

NB For heights between 4200mm and 8000mm, Gyproframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

BS

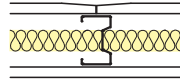
Table 4b – 70mm Gyframe AcouStuds - single and double layer board linings

1



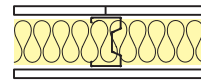
One layer of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres.
Linings as in table.

2



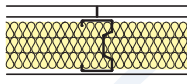
One layer of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres. 25mm
Isover APR 1200 in the cavity. Linings as in table.

3



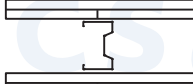
One layer of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres. 50mm
Isover APR 1200 in the cavity. Linings as in table.

4



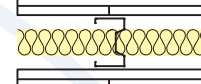
One layer of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres. 3 x 25mm
Isover APR 1200 in the cavity. Linings as in table.

5



Two layers of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres.
Linings as in table.

6



Two layers of board each side of 70mm Gyframe
70 AS 50 AcouStuds at 600mm centres. 25mm
Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w dB	Duty rating	System reference
30 minutes fire resistance BS								
1	WallBoard	1 x 12.5	97	18	3800	37	Medium	A206A013
1	SoundBloc	1 x 12.5	97	22	3800	41	Medium	A206A164
2	SoundBloc	1 x 12.5	97	22	3800	48	Medium	A206A196
3	WallBoard	1 x 12.5	97	19	3800	44	Medium	A206A138
3	SoundBloc	1 x 12.5	97	23	3800	49	Medium	A206A228
4	SoundBloc	1 x 15	102	26	4000	50	Heavy	A206A252
60 minutes fire resistance BS								
1	FireLine	1 x 15	102	24	4000	39	Heavy	A206A078
5	SoundBloc	2 x 12.5	122	43	4700	53	Severe	A206A166
5	WallBoard	2 x 12.5	122	35	4700	47	Severe	A206A015
6	SoundBloc	2 x 12.5	122	43	4700	58	Severe	A206A198
90 minutes fire resistance BS								
5	SoundBloc	2 x 15	132	51	5000	54	Severe	A206A167
120 minutes fire resistance BS								
5	FireLine	2 x 12.5	122	40	4700	49	Severe	A206A079
6	FireLine	2 x 12.5	122	40	4700	54	Severe	A206A111

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

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

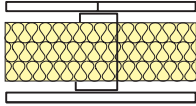
NB For heights between 4200mm and 8000mm, Gyframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

Performance (▶ Refer to 2 - Basic principles of system design)

EN

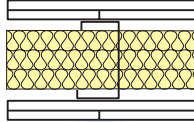
Table 5a – 92mm Gypframe 'C' Studs - single and double layer board linings

1



One layer of board each side of 92mm Gypframe 'C' Studs at 600mm centres. 3 x 25mm Isovex APR 1200 in the cavity. Linings as in table.

2



Two layers of board each side of 92mm Gypframe 'C' Studs at 600mm centres. 3 x 25mm Isovex APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + C _{tr}) dB	Duty rating	System reference
30 minutes fire resistance EN								
1	SoundBloc	1 x 12.5	120	23	4000	50	Medium	A206232
1	SoundBloc	1 x 15	125	27	4000	52	Heavy	A206233
60 minutes fire resistance EN								
2	SoundBloc	2 x 12.5	145	44	4000	56 (51)	Severe	A206234
90 minutes fire resistance EN								
2	SoundBloc	2 x 15	155	52	5000	56 (50)	Severe	A206235

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

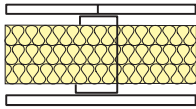
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

BS

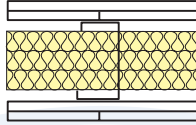
Table 5b – 92mm Gypframe ‘C’ Studs - single and double layer board linings

1



One layer of board each side of 92mm Gypframe ‘C’ Studs at 600mm centres. 3 x 25mm Isover APR 1200 in the cavity. Linings as in table.

2



Two layers of board each side of 92mm Gypframe ‘C’ Studs at 600mm centres. 3 x 25mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + C _{tr}) dB	Duty rating	System reference
30 minutes fire resistance BS								
1	SoundBloc	1 x 12.5	120	23	4500	50	Medium	A206232
1	SoundBloc	1 x 15	125	27	4700	52	Heavy	A206233
60 minutes fire resistance BS								
2	SoundBloc	2 x 12.5	145	44	5700	56 (51)	Severe	A206234
90 minutes fire resistance BS								
2	SoundBloc	2 x 15	155	52	5900	56 (50)	Severe	A206235

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

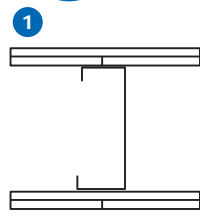
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum’s recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

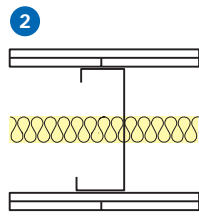
Performance (▶ Refer to 2 - Basic principles of system design)

EN

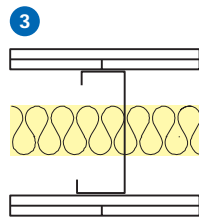
Table 6a – 146mm Gypframe 'C' Studs - double layer board linings



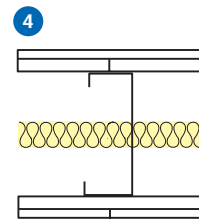
Two layers of board each side of 146mm Gypframe 'C' Studs at 600mm centres. Linings as in table.



Two layers of board each side of 146mm Gypframe 'C' Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.



Two layers of board each side of 146mm Gypframe 'C' Studs at 600mm centres. 50mm Isover APR 1200 in the cavity. Linings as in table.



Inner layer of Gyproc Plank fixed horizontally, and outer layer of Gyproc FireLine fixed vertically each side of 146mm Gypframe 'C' Studs at 600mm centres. 25mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + Ctr) dB	Duty rating	System reference
30 minutes fire resistance EN								
1	WallBoard	2 x 12.5	198	35	7600	50	Severe	A206027
1	SoundBloc	2 x 12.5	198	43	7600	53	Severe	A206178
2	WallBoard	2 x 12.5	198	35	7600	51	Severe	A206059
2	SoundBloc	2 x 12.5	198	43	7600	55 (49)	Severe	A206210
3	WallBoard	2 x 12.5	198	36	7600	51	Severe	A206149
60 minutes fire resistance EN								
1	SoundBloc	2 x 12.5	198	43	5000	53	Severe	A206178
1	WallBoard	2 x 15	208	42	5000	50	Severe	A206028
1	SoundBloc	2 x 15	208	51	5000	56 (50)	Severe	A206179
2	SoundBloc	2 x 12.5	198	43	4000	55 (49)	Severe	A206210
2	WallBoard	2 x 15	208	42	4000	51	Severe	A206060
2	FireLine	2 x 12.5	198	40	7600	51	Severe	A206123
3	WallBoard	2 x 15	208	43	4000	51	Severe	A206150
3	WallBoard	2 x 12.5	198	36	4000	51	Severe	A206149
4	Plank+FireLine	19 + 12.5	211	54	7100	51	Severe	A226002
90 minutes fire resistance EN								
1	SoundBloc	2 x 15	208	51	4000	56 (50)	Severe	A206179
1	FireLine	2 x 12.5	198	40	7600	50	Severe	A206091
2	SoundBloc	2 x 15	208	51	4000	58 (52)	Severe	A206211
2	FireLine	2 x 12.5	198	40	7600	51	Severe	A206123
3	SoundBloc	2 x 15	208	52	4000	59 (53)	Severe	A206243
3	FireLine	2 x 12.5	198	40	7600	51	Severe	A206151
4	Plank+FireLine	19 + 12.5	211	54	4000	51	Severe	A226002
120 minutes fire resistance EN								
1	FireLine	2 x 12.5	198	40	4200	50	Severe	A206091
1	FireLine	2 x 15	208	46	7900	50	Severe	A206180
2	FireLine	2 x 12.5	198	40	4000	51	Severe	A206123
2	FireLine	2 x 15	208	46	7800	51	Severe	A206181
3	FireLine	2 x 12.5	198	40	4000	51	Severe	A206151
3	FireLine	2 x 15	208	46	7800	51	Severe	A206254

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

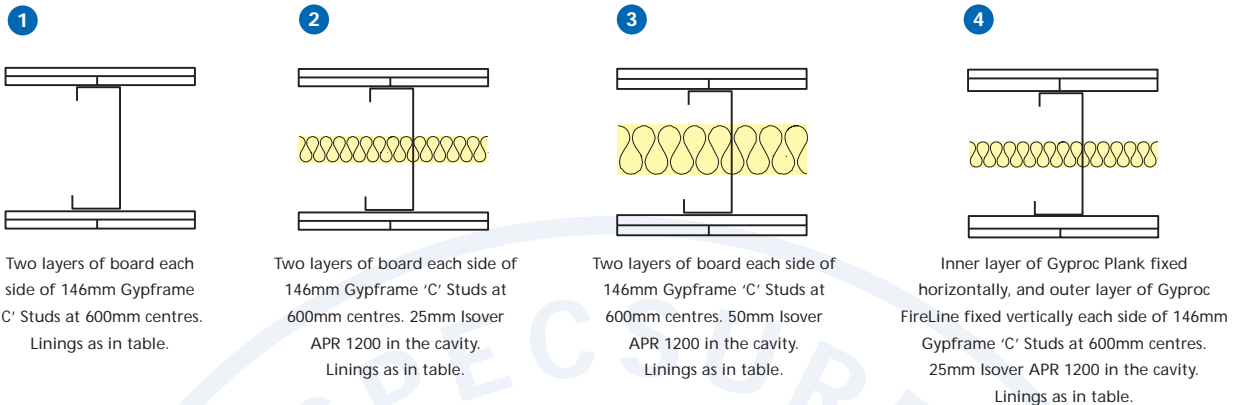
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

NBS work section K10 - Plasterboard drylinings / partitions / ceilings

BS

Table 6b – 146mm Gypframe 'C' Studs - double layer board linings



Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + C _{tr}) dB	Duty rating	System reference
60 minutes fire resistance BS								
1	WallBoard	2 x 12.5	198	35	7600	50	Severe	A206027
1	SoundBloc	2 x 12.5	198	43	7600	53	Severe	A206178
2	WallBoard	2 x 12.5	198	35	7600	51	Severe	A206059
2	SoundBloc	2 x 12.5	198	43	7600	55 (49)	Severe	A206210
3	WallBoard	2 x 12.5	198	36	7600	51	Severe	A206149
3	SoundBloc	2 x 12.5	198	43	7600	56 (50)	Severe	A206244
90 minutes fire resistance BS								
1	WallBoard	2 x 15	208	42	7900	50	Severe	A206028
1	SoundBloc	2 x 15	208	51	7900	56 (50)	Severe	A206179
2	WallBoard	2 x 15	208	42	7900	51	Severe	A206060
2	SoundBloc	2 x 15	208	51	7900	58 (52)	Severe	A206211
3	SoundBloc	2 x 15	208	52	7900	59 (53)	Severe	A206243
4	Plank+SoundBloc	19 + 12.5	211	54	7100	59	Severe	A226001
120 minutes fire resistance BS								
1	FireLine	2 x 12.5	198	40	7600	50	Severe	A206091
1	MultiBoard	2 x 10	188	40	7600	48	Severe	G106014
2	FireLine	2 x 12.5	198	40	7600	51	Severe	A206123
3	FireLine	2 x 12.5	198	41	7600	51	Severe	A206151
4	Plank+FireLine	19 + 12.5	211	54	7100	51	Severe	A226002

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

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

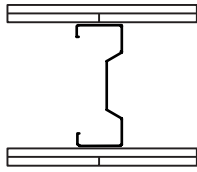
NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

Performance ▶ Refer to 2 - Basic principles of system design

EN

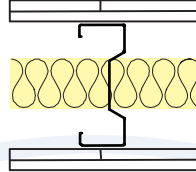
Table 7a – 146mm Gypframe AcouStuds - double layer board linings

1



Two layers of board each side of 146mm Gypframe 146 AS 50 AcouStuds at 600mm centres. Linings as in table.

2



Two layers of board each side of 146mm Gypframe 146 AS 50 AcouStuds at 600mm centres. 50mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + Ctr) dB	Duty rating	System reference
60 minutes fire resistance EN								
1	WallBoard	2 x 15	208	42	5000	52 (47)	Severe	A206A028
1	SoundBloc	2 x 15	208	51	5000	59 (54)	Severe	A206A179
90 minutes fire resistance EN								
1	SoundBloc	2 x 15	208	51	4000	59 (54)	Severe	A206A179
2	SoundBloc	2 x 15	208	52	4000	61 (56)	Severe	A206A243
1	FireLine	2 x 12.5	198	40	7800	52 (48)	Severe	A206A091
120 minutes fire resistance EN								
1	FireLine	2 x 12.5	198	40	4200	52 (48)	Severe	A206A091
1	FireLine	2 x 15	208	50	8100	52 (47)	Severe	A206A180

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

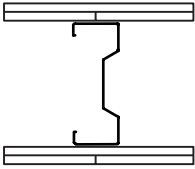
NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout,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

NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

BS

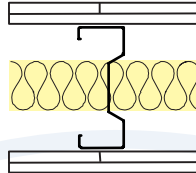
Table 7b – 146mm Gypframe AcouStuds - double layer board linings

1



Two layers of board each side of 146mm Gypframe 146 AS 50 AcouStuds at 600mm centres. Linings as in table.

2



Two layers of board each side of 146mm Gypframe 146 AS 50 AcouStuds at 600mm centres. 50mm Isover APR 1200 in the cavity. Linings as in table.

Detail	Board type	Lining thickness mm	Partition thickness mm	Approx. weight kg/m ²	Maximum partition height ¹ mm	Sound insulation R _w (R _w + C _{tr}) dB	Duty rating	System reference
90 minutes fire resistance BS								
1	WallBoard	2 x 15	208	42	8100	52	Severe	A206A028
1	SoundBloc	2 x 15	208	51	8100	59	Severe	A206A179
2	SoundBloc	2 x 15	208	52	8100	61 (56)	Severe	A206A243
120 minutes fire resistance BS								
1	FireLine	2 x 12.5	198	40	7800	52	Severe	A206A091

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

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

NB For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel (DC) should be used at head and base.

Design

Planning - key factors

The position of services and heavy fixtures should be pre-determined and their installation planned into the frame erection stage.

Wind loading

GypWall partitions are non-loadbearing but can accept a degree of wind loading, for example when used in buildings with large or multiple external doors.

▶ Refer to 2.4 – Robustness.

Cavity fire 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 7 – Cavity fire barriers.

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 and also that the services themselves do not act as the mechanism of fire spread or sound transmission.

▶ Refer to 2.5 – 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.

▶ Refer to 2.5 – Service installations.

Electrical

The installation of electrical services should be carried out in accordance with the recommendations of the Institution of Electrical Engineers. The cut-outs in the studs can be used for routing electrical and other small services (see **Construction details - 1**). 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 used 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 in **Construction details - 1** for conventional cut-outs. Cables should be protected by conduit, or other suitable precautions taken to prevent abrasion when they pass through the metal frame.

Fixing floor and ceiling channels

Floor channels must be securely fixed with a row of fixings at 600mm maximum centres. With 94mm and 148mm channels, 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.

Ceiling channels must be securely fixed at 600mm maximum centres. With 94mm and 148mm channels, two rows of staggered fixings are required, each row at 600mm centres and each fixing 25mm in from the flange. Extra support may be necessary to provide positive fixing points with some constructions.

Door openings

The designer should consider thickness tolerances of the partition types in relation to the proposed door frame detail. Standard door frame detailing to suit *BS 5234* Light and Medium Duty applications is shown in **Construction details - 14**. Detailing to satisfy *BS 5234: 1992* requirements for Heavy and Severe Duty is shown in **Construction details - 15**. Where additional provision is required to support heavy doorsets contact the British Gypsum Drywall Academy Technical Advice Centre for guidance. The door manufacturer should also be consulted in relation to door details.

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 predetermined in order that a framed opening can be provided. The openings should be constructed using established metal stud procedures. See **Construction details - 22-23**.

Control joints

Control joints may be required in the partition to relieve stresses induced by expansion and contraction of the structure (see **Construction details - 11**). 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. Refer to **Construction details - 16-21**.

For special detailing which minimises the loss of acoustic performance:

▶ Refer to 2 – Basic principles of system design.

Access for maintenance

Where access is required within the partition, to maintain services for example, Gyproc Profiflex Access Panels should be used.

Fixtures

Lightweight fixtures can be made directly to the partition linings. Medium weight fixtures can be made to Gypframe 99 FC 50 Fixing Channel. Heavy fixtures should be made to the metal studs or independent framing installed before boarding.

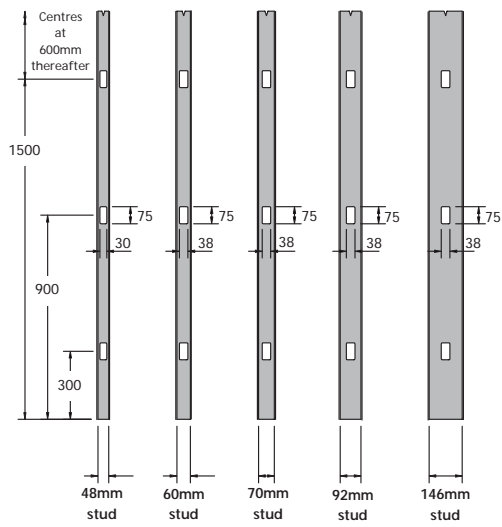
▶ Refer to 2.4.3 – Robustness, Fixings into drywall systems.

Board finishing

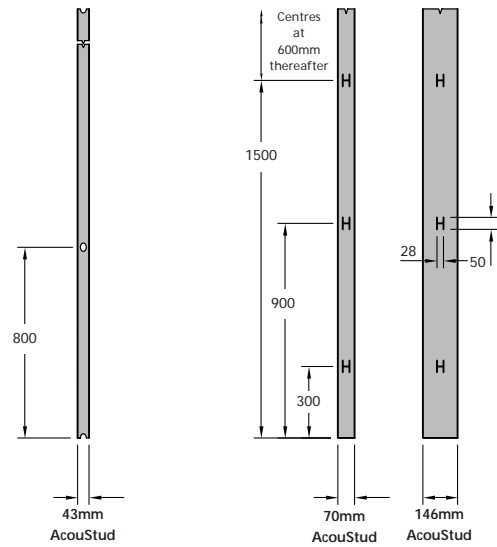
▶ Refer to 10 – Finishing systems and decorative effects.

Construction details

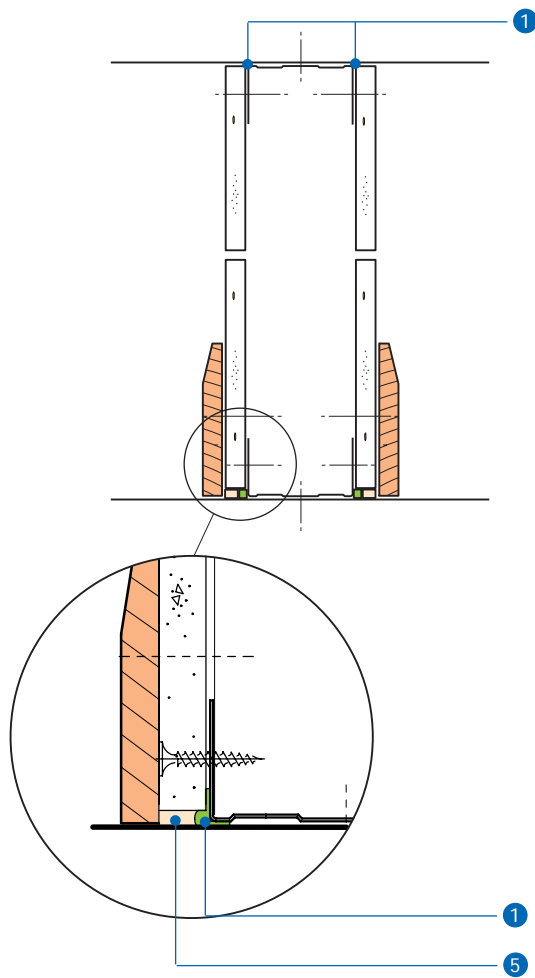
1 Service cut-outs (all dimensions in mm)



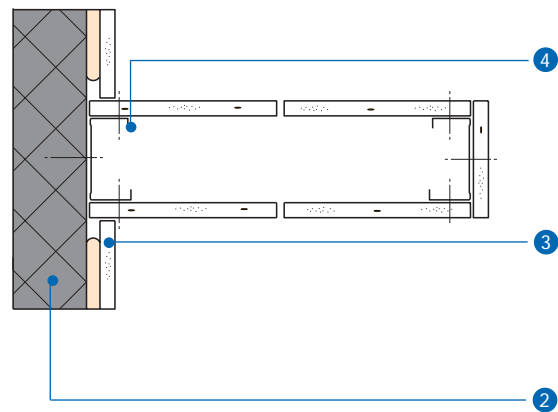
1a Service cut-outs - Gyframe AcouStuds



2 Head and base



3 Internal wall junction - stud to wall and stop end detail



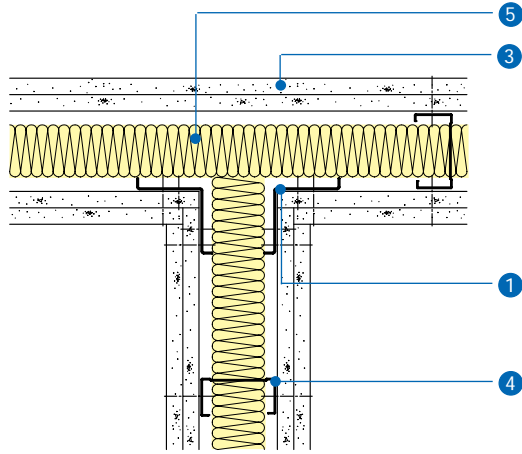
- 1 Gyproc Sealant⁷
- 2 Internal blockwork
- 3 Gyproc or Glasroc plasterboard

- 4 Gyframe stud (fixed at 600mm centres)
- 5 Bulk fill with Gyproc jointing materials

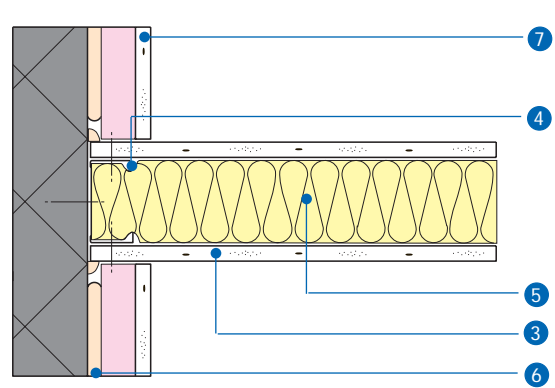
⁷ Where partition / ceiling junction is not finished apply Gyproc Sealant.

NB Service cut-out dimensions are the same for Gyframe 'C' and 'I' Studs.

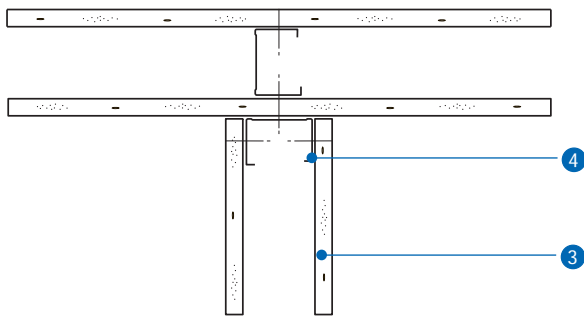
4 'T' junction detail when acoustic performance is a key consideration - helps to reduce flanking transmission



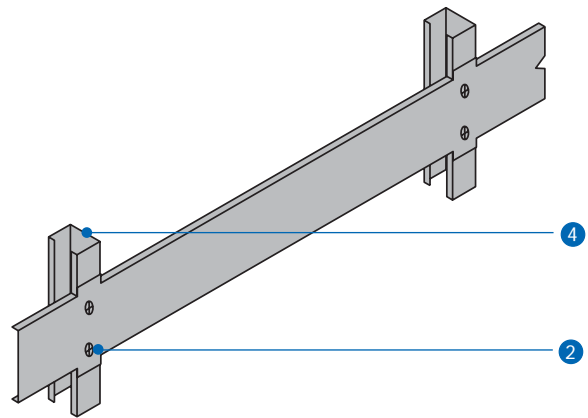
5 Junction with external wall



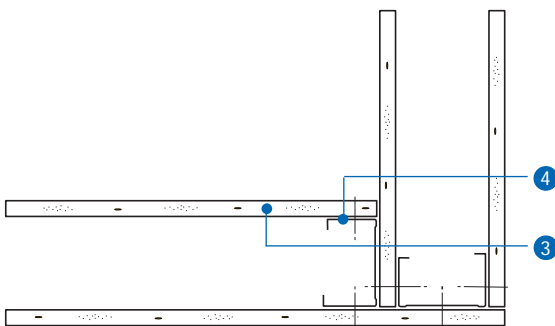
6 Standard 'T' junction (single layer)



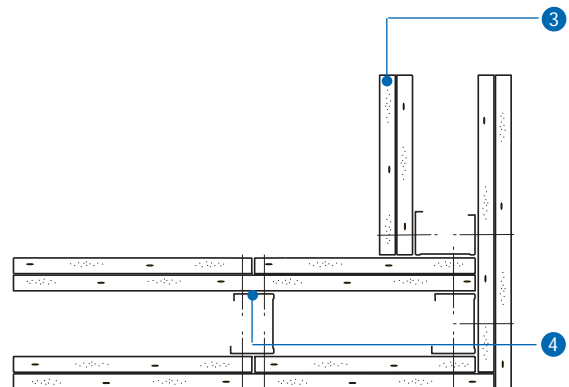
7 Gypframe 99 FC 50 Fixing Channel (short legs flattened at stud positions)



8 Corner detail (single layer)

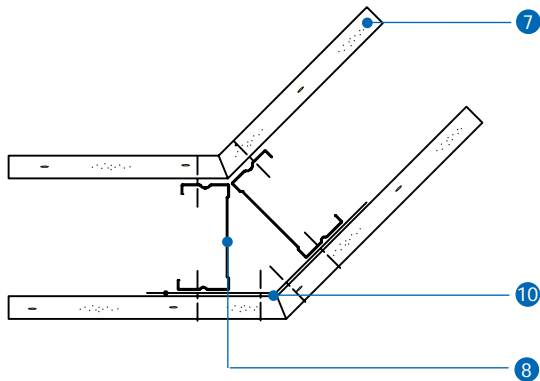


9 Corner detail (double layer)

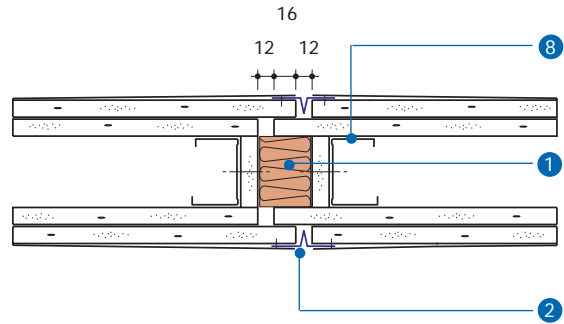


- 1 Gypframe GA5 Internal Fixing Angle
- 2 Gypframe Wafer Head Screw (two fixings per stud position)
- 3 Gyproc or Glasroc plasterboard
- 4 Gypframe stud
- 5 Isover insulation
- 6 Gyproc Dri-Wall Adhesive
- 7 Gyproc ThermalLine laminate

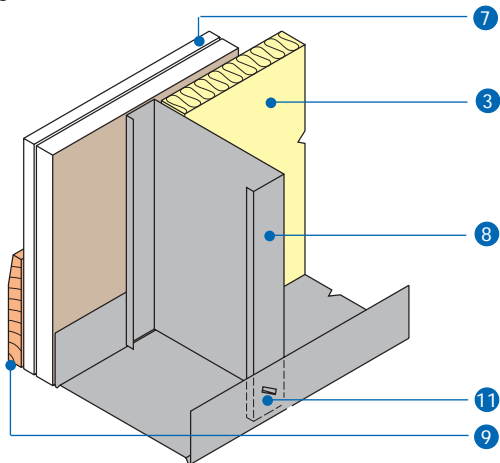
10 Splayed corner detail. Gypframe GA6 Splayed Angle is also required on the inside of the splayed corner of a fire-rated partition.



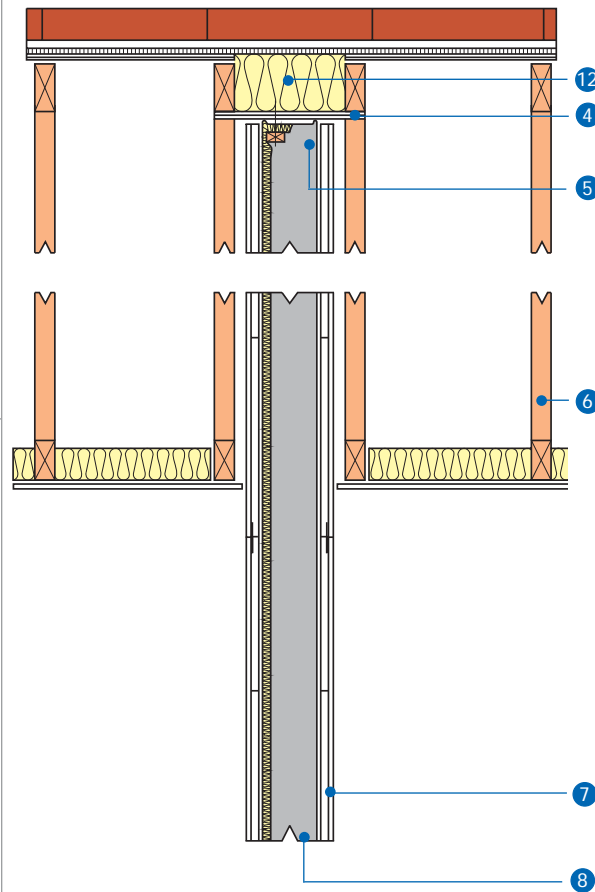
11 Typical control joint (dimensions in mm)



12 Crimped Gypframe 146 S 50 'C' Stud to Gypframe Deep Flange Floor & Ceiling Channel (DC) when partition heights are greater than 4200mm



13 Typical sound resisting wall head detail (e.g. Gypframe 146 S 50 'C' Stud, Gyproc Plank and Gyproc SoundBloc linings)

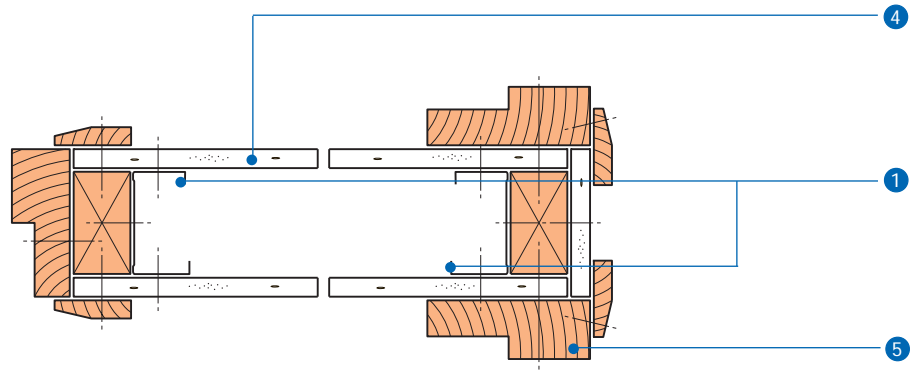


- 1 Stone mineral wool (minimum density 23kg/m³)
- 2 Gyproc Control Joint
- 3 Isover insulation
- 4 19mm plywood
- 5 Ceiling Channel (Gypframe 148 DC 60 Deep Flange Floor & Ceiling Channel)

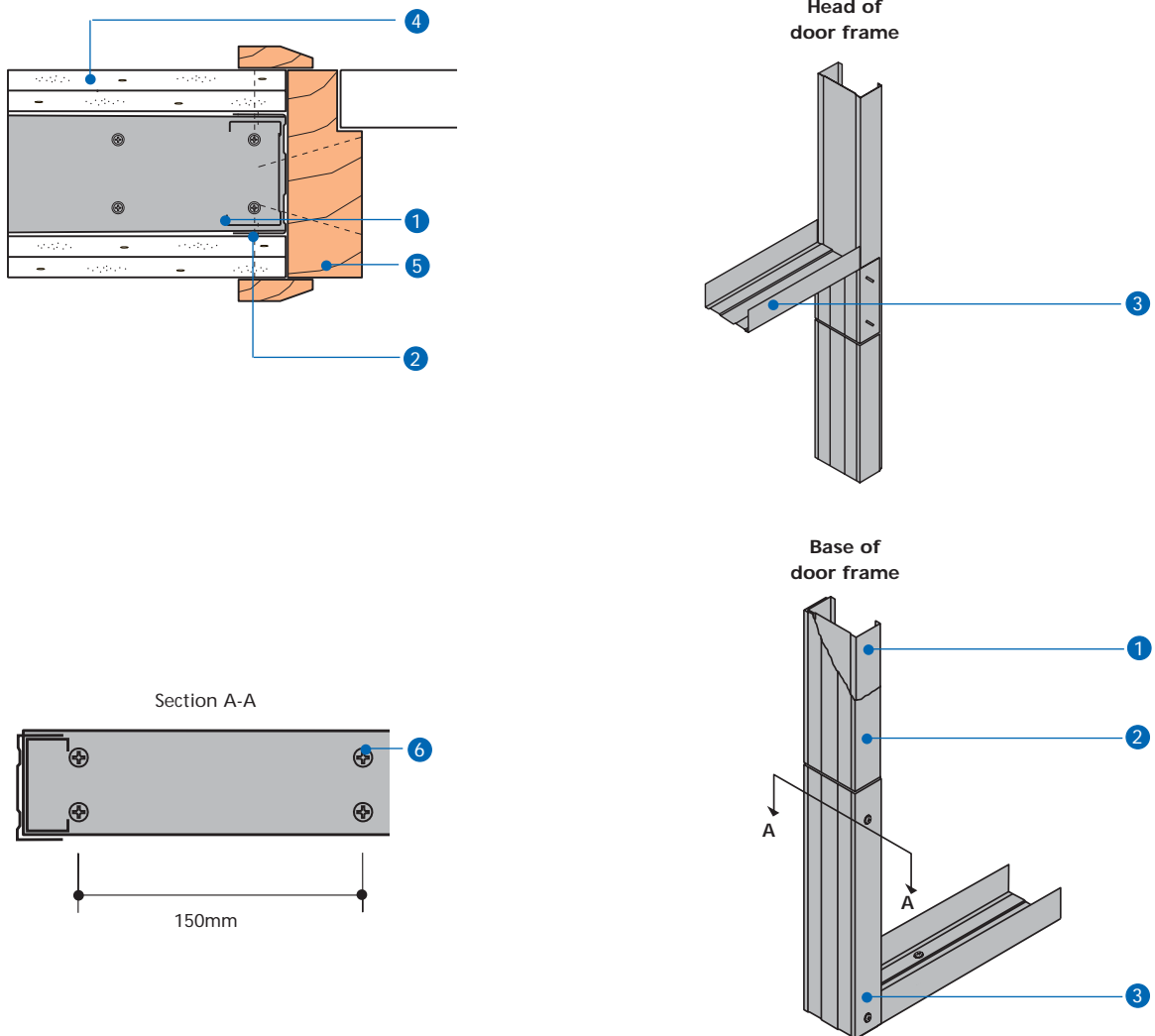
- 6 Roof trusses
- 7 Gyproc or Glasroc plasterboard
- 8 Gypframe 'C' Stud
- 9 Skirting
- 10 Gypframe GA6 Splayed Angle
- 11 Lock using a Gyproc crimping tool
- 12 Isover insulation used as a cavity barrier

NB Where 146mm studs are used at heights greater than 4000mm, lock into floor and ceiling channels using a Gyproc crimping tool.

14 Standard door frame to satisfy BS 5234: Parts 1 & 2: 1992 - Light and Medium Duty



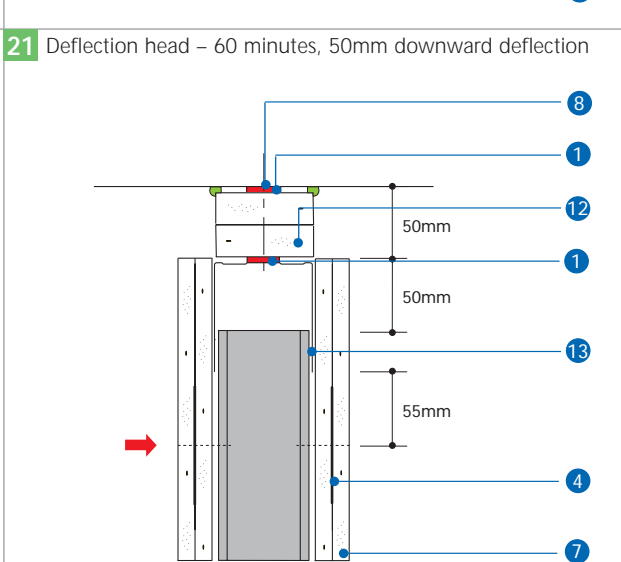
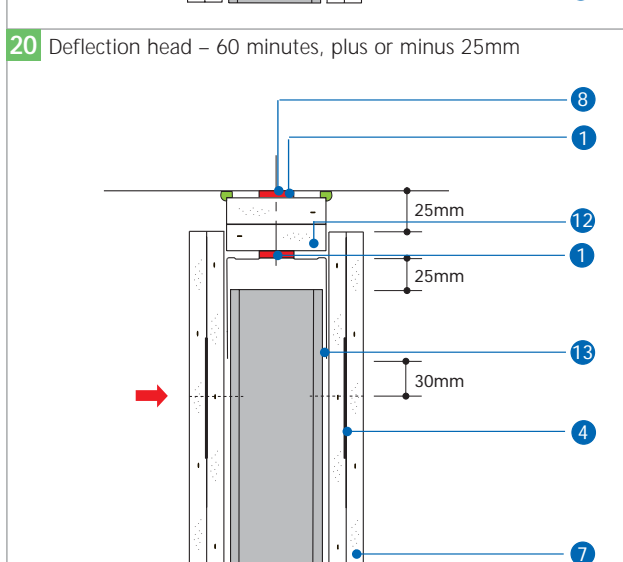
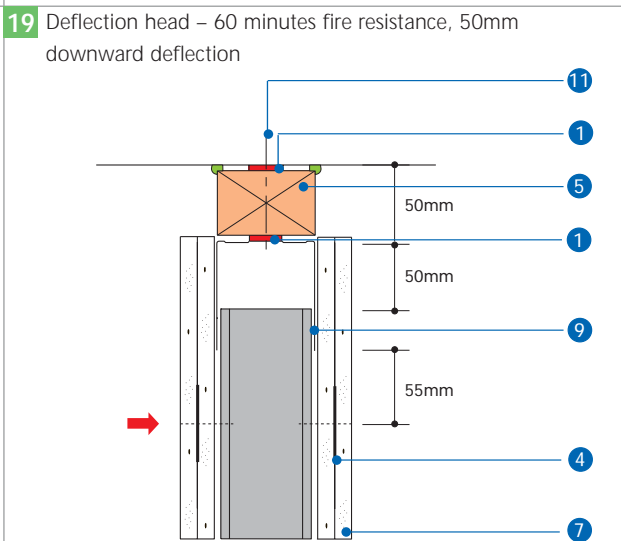
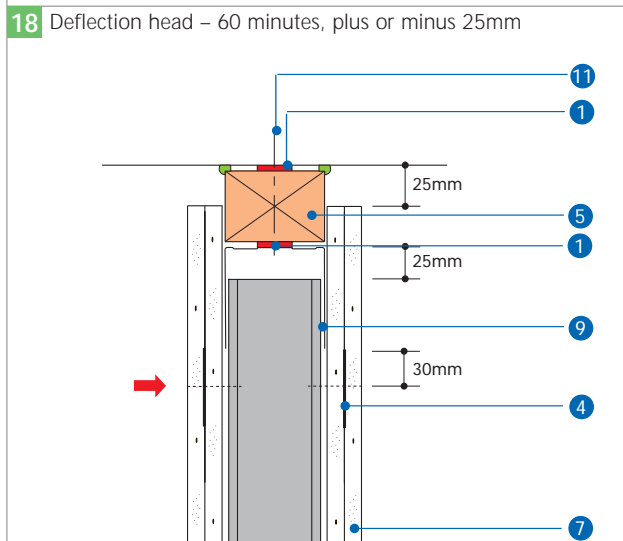
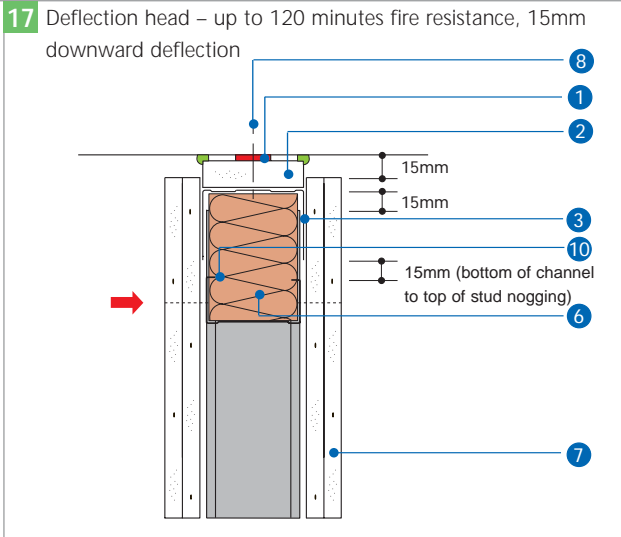
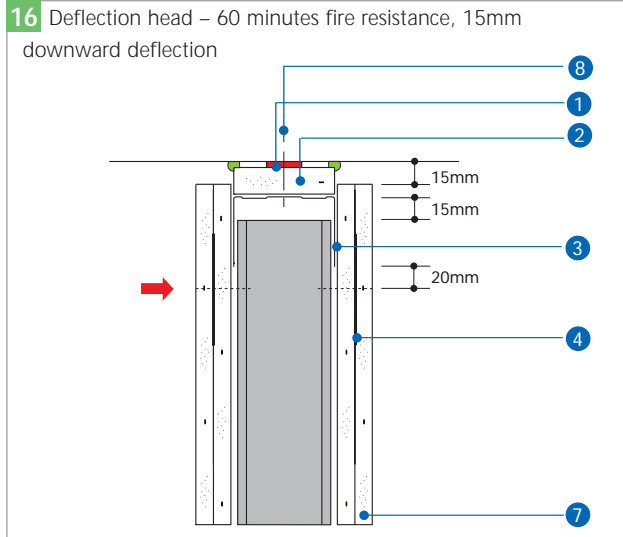
15 Standard door frame to satisfy BS 5234: Parts 1 & 2: 1992 - Heavy and Severe Duty



- | | |
|---|----------------------------------|
| 1 Gypframe 'C' Stud | 4 Gyproc or Glasroc plasterboard |
| 2 Gypframe Standard Floor & Ceiling Channel (to sleeve stud) | 5 Timber door frame (by others) |
| 3 Gypframe Standard Floor & Ceiling Channel snipped and bent to 90°, crimped or screw-fixed to the stud | 6 Floor channel fixings |

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

NB The studs each side of the opening are sleeved to full door height with Gypframe Standard Floor & Ceiling Channel. The Gypframe channel is cut 300mm short to allow for the extension of floor channel, which is cut, bent, and interleaved as shown in section A-A, and then fixed twice to each side. At the head, the channel is cut and bent to extend 150mm down the face of the studs, and fixed twice to each side.



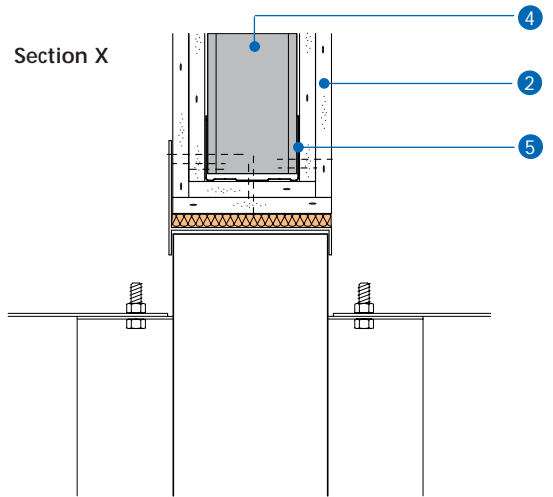
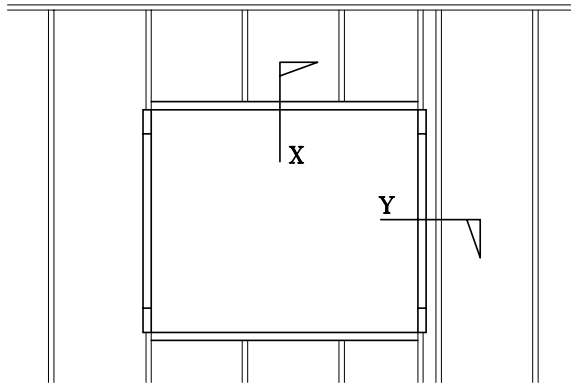
- 1 Gyproc FireStrip (continuous line)
- 2 Gyproc CoreBoard
- 3 Gypframe Deep Flange Floor & Ceiling Channel (DC)
- 4 Gypframe GFS1 Fixing Strap
- 5 Timber head plate (softwood)
- 6 Stone mineral wool (minimum 33kg / m³) retained by stud nogging
- 7 Gyproc or Glasroc plasterboard

- 8 Head channel fixing through firestop into structure at 600mm max. centres
- 9 Gypframe Extra Deep Flange Floor & Ceiling Channel (EDC) fixed to timber head plate at 600mm centres
- 10 Nogging cut from Gypframe 'C' Stud
- 11 Head plate fixing to structure
- 12 25mm Glasroc FireCase s
- 13 Gypframe Extra Deep Flange Floor & Ceiling Channel (EDC)

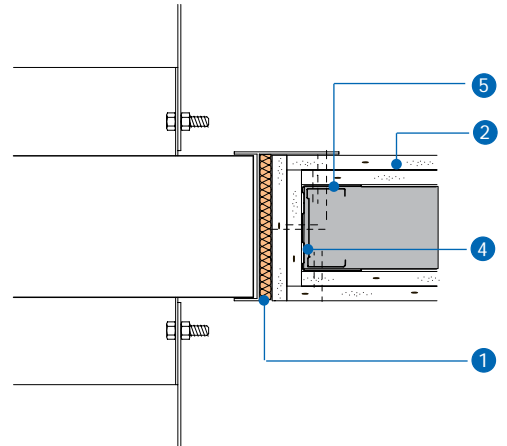
NB No fixings should be made through the boards into the flanges of the head channel. The arrow (→) denotes the position of the uppermost board fixing, which should be made into Gypframe GFS1 Fixing Strap (or stud nogging in Construction details - 17). Continuous Gyproc FireStrip must be installed as shown in order 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 details - 17) or alternatively, please contact the British Gypsum Drywall Academy Technical Advice Centre for further guidance.

22 Opening for service penetrations in fire-rated partitions

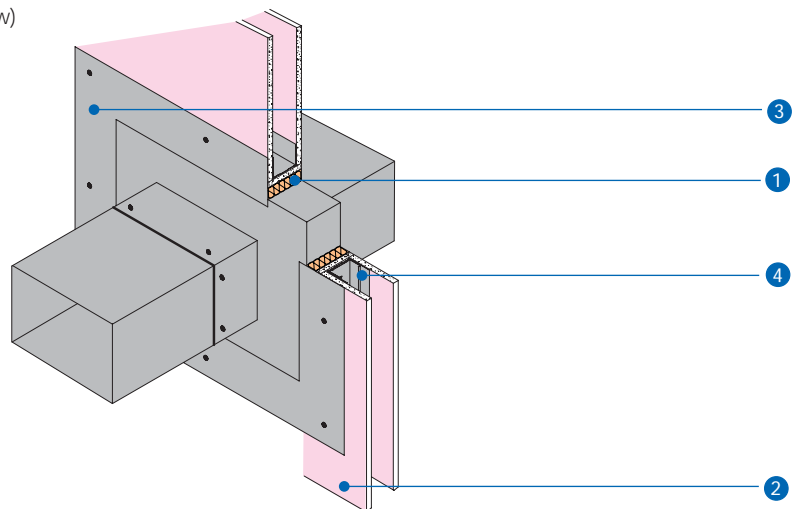
Elevation



Section Y



23 Fire tested construction in which the damper is supported by the partition (isometric view)

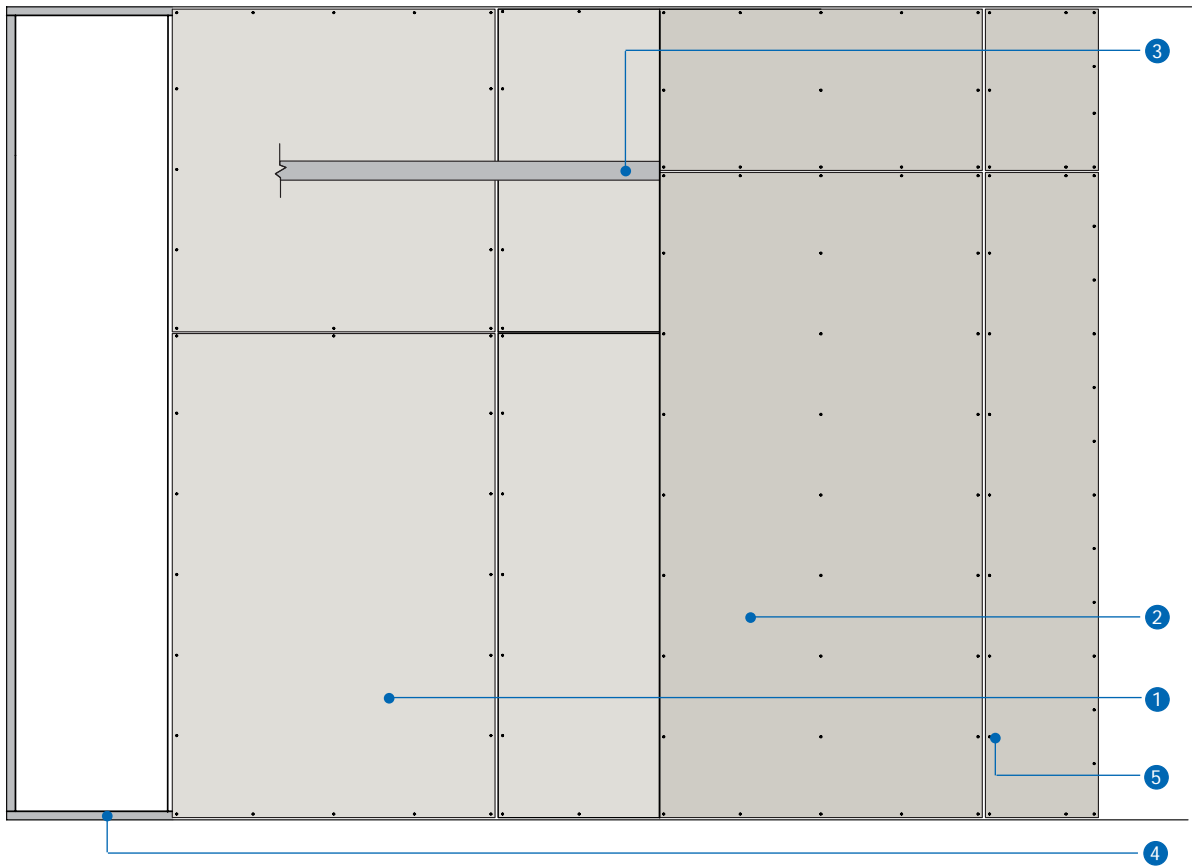


- 1 Stone mineral wool (80kg/m³)
- 2 Gyproc or Glasroc plasterboard
- 3 Damper (by others). Maximum weight of damper should not exceed 57kg. Maximum size of damper should not exceed 1400 x 1200mm.

- 4 Gypframe stud
- 5 Gypframe Floor & Ceiling Channel (cloaking stud in Section Y)

NB Consult British Gypsum for guidance on independent support requirements for service penetrations.

24 Board layout - typical configuration



- 1 Inner layer board
- 2 Face (second layer) board
- 3 Gypframe GFS1 Fixing Strap or Gypframe GFT1 Fixing 'T'
- 4 Gypframe metal framing
- 5 Gyproc Drywall Screws