# **Gypwall systems**

incorporating Gyproc Habito®

15KG



# Introduction

## **Gyproc Habito**<sup>®</sup> is the next generation in plasterboard.

Innovative technology combined with an exceptionally strong solid gypsum core have produced a board that not only has superior fixing strength, but is extremely tough and durable, making it the perfect choice for a wide variety of project requirements.

Gyproc Habito<sup>®</sup> future-proofs a space and can also reduce the need for pattressing. This means that interiors can be redesigned time and time again, and due to the robustness of the board, walls will stay looking smarter for longer.

This guide includes our range of fully tested **GypWall** system solutions which incorporate Gyproc Habito<sup>®</sup> for enhanced system performance.



# Why choose Gyproc Habito®?



# Easy to fix to with high load capacity

With its ability to support a safe working load of 15kg from a single No.10 wood screw<sup>\*</sup>, Gyproc Habito<sup>®</sup> means that you can fix directly into the board, without the need for pattressing or specialist fixings. Not only does this save on installation time, it can reduce the overall cost of build.

"Due to the plasterboard being able to support a weight of 15kg with a single No.10 woodscrew, it meant that we could fix heavy objects like kitchen cupboards straight onto it. Ordinarily, we would have to install patressing behind, but this method meant we didn't have to double up on boards or require plywood – reducing additional material and time costs. Gyproc Habito® turned out to be a cost effective solution overall."

- David Simms, Balfour Beatty

\* 60kg failure point



### Damage resistant

The boards additional durability means walls are more resistant to damage and stay looking smarter for longer. This can result in a reduction of regular and unplanned maintenance, saving ongoing operational costs.

"Our repairs team are in high demand across our housing stock and, as a result, we've struggled to keep up with maintaining the walls in our properties. This means we need a robust, long-lasting product, which is also easy to install and replace when it is time to undertake maintenance on a home. We were impressed by the strength of Gyproc Habito<sup>®</sup>. Its ability to help in significantly increasing maintenance cycles makes it the perfect product for the development of high-quality social housing." - Tony Abbs, London Borough of Newham Council

# GypWall повият performance

70mm Gypframe AcouStuds - double layer board linings

Solutions to satisfy the requirements of BS EN 1364-1: 2015

For details of when to specify fire resistance using EN ▶ Refer to **The White Book** 





(1)

Two layers of board each side of 70mm Gypframe 70 AS 50 AcouStuds at 600mm centres. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max height <sup>1</sup> mm	Sound insulation <i>R</i> <sub>w</sub> dB	Duty rating	Approx. weight kg/m²	System reference
90 m	ninutes fire I	resistance EN						
1	122	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	4000	58	Severe	48kg/m²	L206A004

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

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

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

NB Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject ot deflection criteria)

# GypWall повият performance

70mm Gypframe AcouStuds - double layer board linings

Solutions to satisfy the requirements of BS 476: Part 22: 1987

For details of when to specify fire resistance using BS ▶ Refer to **The White Book** 





(1)

Two layers of board each side of 70mm Gypframe 70 AS 50 AcouStuds at 600mm centres. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max height <sup>1</sup> mm	Sound insulation <i>R</i> <sub>w</sub> dB	Duty rating	Approx. weight kg/m²	System reference
90 m	ninutes fire i	resistance BS						
1	122	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	4700	58	Severe	48kg/m²	L206A004

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<sup>1</sup>The maximum heights quoted are based on a limiting deflection of L/240 at 200 Pa.

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

**NB** For heights up to 4200mm, Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria). For heights between 4200mm and 8000mm, Gypframe Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

# **GypWall ковиst** performance

92mm Gypframe AcouStuds - double layer board linings

Solutions to satisfy the requirements of BS EN 1364-1: 2015





Two layers of board each side of 92mm Gypframe AcouStuds at 600mm centres. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max height¹ mm	Sound insulation $R_{ m w}$ ( $R_{ m w}$ + $C_{ m tr}$ ) dB	Duty rating	Approx. weight kg/m²	System reference
90 m	ninutes fire	resistance EN						
1	144	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	4000	59 (52)	Severe	48kg/m²	L206A001
120 m	ninutes fire	resistance EN						
1	149	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	4000	58 (52)	Severe	55kg/m²	L206A003

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

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

(NB) Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).



# GypWall повият performance

92mm Gypframe AcouStuds - double layer board linings

Solutions to satisfy the requirements of BS 476: Part 22: 1987





Two layers of board each side of 92mm Gypframe AcouStuds at 600mm centres. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity. Linings as in table.

Detail	Partition thickness mm	Board type	Lining thickness mm	Max height¹ mm	Sound insulation $R_{ m w}$ ( $R_{ m w}$ + $C_{ m tr}$ ) dB	Duty rating	Approx. weight kg/m²	System reference
90 m	inutes fire	resistance BS						
1	144	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	5800	59 (52)	Severe	48kg/m²	L206A001
120 m	inutes fire	resistance BS						
1	149	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	5800	58 (52)	Severe	55kg/m²	L206A003

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<sup>1</sup>The maximum heights quoted are based on a limiting deflection of L/240 at 200 Pa.

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

**NB** For heights up to 4200mm, Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria). For heights above 4200mm Gypframe Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

# GypWall QUIET performance

#### 48mm Gypframe 'C' Studs with cross braces

#### Solutions to satisfy the requirements of BS EN 1364-1: 2015

For details of when to specify fire resistance using EN ▶ Refer to **The White Book** 





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

<sup>1</sup>The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous. <sup>2</sup>This system meets the requirements of STS 202 BR1 Security test.

(NB) For heights up to 4200mm, Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

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

#### GypWall QUIET performance (continued)

#### 48mm Gypframe 'C' Studs with cross braces

#### Solutions to satisfy the requirements of BS 476: Part 22: 1987

For details of when to specify fire resistance using BS ▶ Refer to **The White Book** 





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

1 x 12.5 +

1 x 15

5500

61 (53)

Severe

55kg/m<sup>2</sup>

L216003

<sup>1</sup>The maximum heights quoted are based on a limiting deflection of L/240 at 200 Pa. <sup>2</sup>This system meeets the requirements of STS 202 BR1 Security test.

Inner layer Gyproc Habito®

+ outer layer Gyproc SoundBloc F

2

200

(NB) For heights above 4200mm Gypframe Deep Flange Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

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

# GypWall QUIET IWL performance

48mm Gypframe 'C' Studs

#### Solutions to satisfy requirements of BS EN 1364-1: 2015

For details of when to specify fire resistance using EN ▶ Refer to **The White Book** 



1						3		
T faces c wit Acou (ca	wo layers of board of two Gypframe 4 th studs at 600mm ustic Partition Roll avity width 150mm	d fixed to the outside 48 I 50 'I' Stud frameworks fa n centres. 50mm Isover (APR 1200) in the cavity m). Linings as in table.	Two layers of aces of two Gypfr with studs at 6 Acoustic Partitio (cavity width 3	f board fixed to the out rame 48 I 50 'I' Stud fra 00mm centres. 50mm n Roll (APR 1200) in th 145mm). Linings as in 1	side meworks fa Isover e cavity :able.	Two layers of br aces of two Gypfran with studs at 600 Acoustic Partition I (cavity width 19!	oard fixed to the o ne 48 I 50 'I' Stud mm centres. 100r Roll (APR 1200) in 5mm). Linings as	outside frameworks nm Isover the cavity in table.
Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height <sup>2</sup> mm	Sound insulation $R_w (R_w + C_{tr})^2$ dB	Duty rating	Approx. weight kg/m²	System reference
90 mi	inutes fire res	istance EN						
1	200	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	2800	66 (57)	Severe	49kg/m²	L216004
120 mi	inutes fire res	istance EN						
2	200	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	2800	67 (59)	Severe	56kg/m²	L216005
3	250	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	2800	70 (62)	Severe	56kg/m²	L216007

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

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

(NB) Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

#### GypWall QUIET IWL performance (continued)

#### 48mm Gypframe 'C' Studs

#### Solutions to satisfy the requirements of BS 476: Part 22: 1987

For details of when to specify fire resistance using BS ▶ Refer to **The White Book** 



1						3		
T faces c wit Acou (ca	Two layers of board fixed to the outsideTwo layers of board fixed to the outsidefaces of two Gypframe 48 I 50 'I' Stud frameworksfaces of two Gypframe 48 I 50 'I' Stud frameworkswith studs at 600mm centres. 50mm lsoverwith studs at 600mm centres. 50mm lsoverAcoustic Partition Roll (APR 1200) in the cavityAcoustic Partition Roll (APR 1200) in the cavity(cavity width 150mm). Linings as in table.(cavity width 145mm). Linings as in table.				ide neworks fa sover : cavity able.	Two layers of bo aces of two Gypfran with studs at 600r Acoustic Partition F (cavity width 19!	bard fixed to the o ne 48 I 50 'I' Stud nm centres. 100r Roll (APR 1200) in Smm). Linings as	outside frameworks nm Isover the cavity in table.
Detail	Partition thickness mm	Board type	Lining thickness mm	Max. partition height <sup>2</sup> mm	Sound insulation $R_w (R_w + C_{tr})^2$ dB	Duty rating	Approx. weight kg/m²	System reference
90 mi	nutes fire res	istance BS						
1	200	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc	1 x 12.5 + 1 x 12.5	2800	66 (57)	Severe	49kg/m²	L216004
120 mi	nutes fire res	istance BS						
2	200	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	2800	67 (59)	Severe	53kg/m²	L216005
3	250	Inner layer Gyproc Habito® + outer layer Gyproc SoundBloc F	1 x 12.5 + 1 x 15	2800	70 (62)	Severe	56kg/m²	L216007

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<sup>1</sup>The maximum heights quoted are based on a limiting deflection of L/240 at 200 Pa.

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

(NB) Gypframe Folded Edge Standard Floor & Ceiling Channel should be used at base and at head (subject to deflection criteria).

# ShaftWall performance

#### Vertical elements

Solutions to satisfy the requirements of BS EN 1364-1: 2015

For details of when to specify fire resistance using EN ▶ Refer to **The White Book** 



Gypframe 60mm 60 'I' 70 Stud framework with Gyproc CoreBoard between studs, secured by Gypframe Retaining Channel. 25mm Isover Acoustic Partition Roll (APR 1200) in cavity. Lining boards to non-shaft side, see table. Studs at 600mm centres.

Detail	Partition thickness mm	Lining boards to non-shaft side Board type	Lining thickness mm	Max. partition height <sup>1</sup> mm	Stud size mm	Sound insulation R <sub>w</sub> dB Sealed structure plus 25mm insulation <sup>2</sup>	Duty rating	Approx. weight kg/m²	System reference With insulation
60 mi	nutes fire re	esistance EN							
1	87	Inner layer Gyproc Habito® + outer layer Gyproc FireLine	1 x 12.5 + 1 x 12.5	4400	60	47	Severe	41kg/m²	L306001

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<sup>1</sup>The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the more onerous. <sup>2</sup> Gyproc CoreBoard and first layer of lining board are bedded onto Gyproc Sealant, as required for pressurised air shafts, in addition to normal sealing.

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

**(NB)** Gypframe Extra Deep Flange Floor & Ceiling Channel or Gypframe 'J' Channel should be used at the head and fixed at 300mm centres. For the base Gypframe Folded Edge Standard Floor & Ceiling Channel should be used for heights up to 4200mm, Gypframe Deep Flange Floor & Ceiling Channel should be used for heights between 4200mm and 8000mm.



#### **ShaftWall** performance (continued)

#### **Vertical elements**

(1)

Solutions to satisfy the requirements of BS 476: Part 22: 1987

For details of when to specify fire resistance using BS ▶ Refer to **The White Book** 





Gypframe 60mm 'I' Stud framework with Gyproc CoreBoard between studs, secured by Gypframe Retaining Channel. 25mm Isover Acoustic Partition Roll (APR 1200) in cavity. Lining boards to non-shaft side. see table. Studs at 600mm centres.

Detail	Partition thickness	Lining boards to non-shaft side		Max. partition height <sup>1</sup> kness mm	Stud size	Sound insulation <i>R</i> <sub>w</sub> dB Sealed structure	Duty rating	Duty Approx. rating weight kg/m²	System reference
	mm	Board type	Lining thickness mm		mm	plus 25mm insulation <sup>2</sup>			With insulation
60 mi	nutes fire re	esistance EN							
1	87	Inner layer Gyproc Habito® + outer layer Gyproc FireLine	1 x 12.5 + 1 x 12.5	4400	60	47	Severe	41kg/m²	L306001

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**(NB)** Gypframe Extra Deep Flange Floor & Ceiling Channel or Gypframe 'J' Channel should be used at the head and fixed at 300mm centres. For the base Gypframe Folded Edge Standard Floor & Ceiling Channel should be used for heights up to 4200mm, Gypframe Deep Flange Floor & Ceiling Channel should be used for heights between 4200mm and 8000mm, Gypframe Extra Deep Flange Floor & Ceiling Channel should be used for heights between 4200mm and 8000mm, Gypframe Extra Deep Flange Floor & Ceiling Channel should be used for heights between 4200mm and 8000mm.





#### **Technical enquiries**

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