



This section includes updated information, added since it was first published in December 2015.

Last updated 06/12/2019

C06. S02. P02 – P22

CasoLine MF

Including C06. S01. P02 – P08

Floors and ceilings introduction

Floors and ceilings

This section details floors and ceilings systems which cover a multitude of performance requirements in all sectors





Floors and ceilings

British Gypsum offers a full range of specifications from simple plasterboard ceilings through to a range of gypsum-based, acoustic suspended ceilings and lay-in grid systems. They cover all building categories, including private and social housing, apartments, healthcare, educational facilities, recreational and industrial properties in both new-build and refurbishment and can satisfy the most demanding performance requirements.

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

Our quick-reference floors and ceilings system guide, below, allows you to simply select the performance categories of interest and identify the British Gypsum floor and ceiling systems which best satisfy your project requirements.

 Fire performance mins	Installed cavity depth mm	 Acoustic performance				System	Page
		R_w dB	$R_w + C_{tr}$ dB	$L_{n,w}$ dB	α_w		
30 - 120	≥100	56 - 66	50 - 55	68 - 50	0.35 - 0.85	CasoLine MF	C06. S02. P02
-	≥100	-	-	-	0.35 - 0.85 ²	CasoLine CURVE	C06. S03. P02
30 - 90	25 - 175	52 - 63	50	66 - 55	0.35 - 0.85	GypLyner UNIVERSAL	C06. S04. P02
30 - 90	-	54 - 63	47 - 51	63 - 55	-	GypFloor SILENT ¹	C06. S05. P02
30 - 120	-	36 - 66	50 - 55	78 - 48	-	Timber floors	C06. S06. P02
30 - 60	-	-	-	-	-	Cavity barriers	C06. S07. P02

¹ Where the floor can only be accessed from above, the fire and acoustic performances can be upgraded with the GypFloor SILENT system.

² Indicative first test performance only.

Acoustic performance

Table 1 – Recommended laboratory performance to meet requirements of Building Regulations Approved Document E (England and Wales)

Where applicable	Minimum airborne sound insulation $D_{nT,w} + C_{tr}$ (site test result)	Recommended performance $R_w + C_{tr}$ (laboratory test result)	Maximum impact sound transmission $L'_{nT,w}$ (site test result)	Recommended performance $L_{n,w}$ (laboratory test result)
Separating walls between new homes	45dB	54dB	-	-
Separating walls between purpose-built rooms for residential purposes	43dB	52dB	-	-
Separating walls between rooms created by a change of use or conversion	43dB	52dB	-	-
Separating floors between new homes and purpose-built rooms for residential purposes	45dB	54dB	62dB	57dB - 52dB (depending on construction method)
Separating floors between rooms created by a change of use or conversion	43dB	52dB	64dB	59dB - 54dB (depending on construction method)

Table 2 – Recommended laboratory performance to meet requirements of Technical Handbook Section 5 (Scotland)

Where applicable	Minimum airborne sound insulation $D_{nT,w}$ (site test result)	Recommended performance R_w (laboratory test result)	Maximum impact sound transmission $L'_{nT,w}$ (site test result)	Recommended performance $L_{n,w}$ (laboratory test result)
Separating walls between new homes, purpose-built rooms for residential purposes and conversions (not including traditional buildings ¹)	56dB	63dB	-	-
Separating walls between rooms created by a change of use or conversion (traditional buildings ¹)	53dB	60dB	-	-
Separating floors between new homes, purpose-built rooms for residential purposes and conversions (not including traditional buildings ¹)	56dB	63dB	56dB	51dB - 46dB (depending on construction method)
Separating floors between rooms created by a change of use or conversion (traditional buildings ¹)	53dB	60dB	58dB	53dB - 48dB (depending on construction method)

¹ Definition of traditional buildings.

A building or part of a building of a type constructed before or around 1919:

- a) using construction techniques that were commonly in use before 1919; and
- b) with permeable components, in a way that promotes the dissipation of moisture from the building fabric.

Good practice specification guidance

British Gypsum's systems are designed and tested to meet every performance requirement and are fully supported by our SpecSure® lifetime system warranty.

This means that when our systems are installed following our guidance they will achieve every performance claim we make, and if they don't then we'll put it right. To maximise the performance achieved on site, consider the following good practice specification guidance:

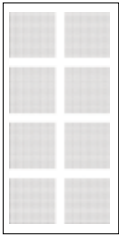
- Consider flanking transmission at the design stage and ensure construction detailing is specified to eliminate, or at least to minimise, any downgrading of the acoustic performance. The sound insulation values quoted in system performance tables are laboratory values and the practicalities of construction will mean that acoustic performances measured in the laboratory will be difficult to achieve on site



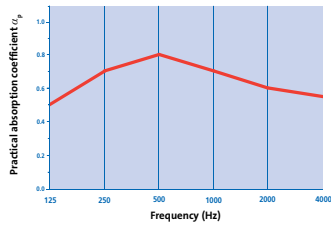
- Small openings such as gaps, cracks or holes will conduct airborne sounds and can significantly reduce the sound insulation of a construction. For optimum sound insulation a construction must be airtight
- When designing spaces requiring separation by sound insulating floors and ceilings abutting structural steelwork, consideration should be given to the potential loss of sound insulation performance through the steelwork

Table 3 – Sound absorption data for Gyptone boards

QUATTRO 41



Sound absorption coefficient α_p



Gyptone QUATTRO 41 (plenum depth 187mm)

Practical absorption coefficient α_p

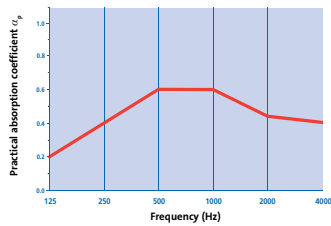
125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.50	0.70	0.80	0.70	0.60	0.55	0.65	C	0.70

System reference **C10A091**

QUATTRO 42



Sound absorption coefficient α_p



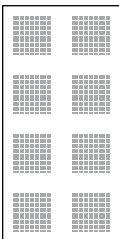
Gyptone QUATTRO 42 (plenum depth 50mm)³

Practical absorption coefficient α_p

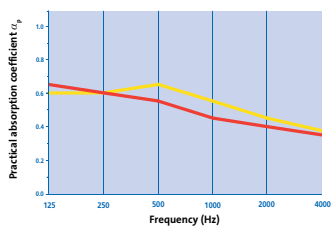
125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.20	0.40	0.60	0.60	0.45	0.40	0.50	D	0.55

System reference **C10A110**

QUATTRO 46



Sound absorption coefficient α_p



Gyptone QUATTRO 46 (plenum depth 400mm)

Gyptone QUATTRO 46 (plenum depth 400mm plus 100mm Isover Spacesaver Ready-Cut)

Practical absorption coefficient α_p

125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.65	0.60	0.55	0.45	0.40	0.35	0.45(L)	D	0.50
0.60	0.60	0.65	0.55	0.45	0.40	0.50(L)	D	0.55

System reference **C10A014**
C10A015

¹ AC - Absorption Class.

² NRC - Noise Reduction Coefficient.

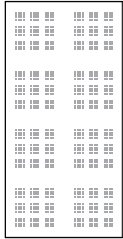
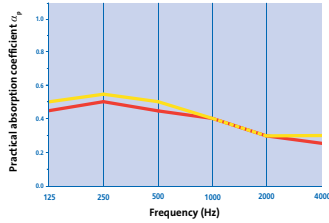
³ Due to installation limitations the minimum cavity size that can be constructed with **CasoLine mf** or **CasoLine curve** system is 100mm. The sound absorption performance for these systems is estimated to be equivalent to that of the same system built with a 50mm plenum.

(NB) All products have been tested to **BS EN 20354** and **ISO 354**. The single figure rating practical sound absorption coefficient α_w is calculated in accordance with **EN ISO 11654**. Suffix letters indicate where performance is limited at either low, medium or high frequencies.

Gyptone performance (continued)

Table 3 (continued) – Sound absorption data for Gyptone boards

QUATTRO 47

Sound absorption coefficient α_p 

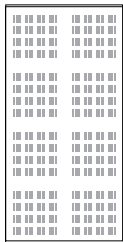
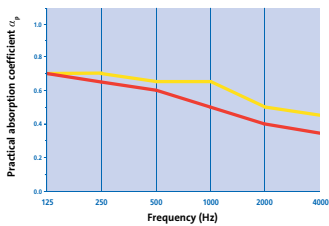
System reference ■ C10A016
■ C10A017

■ Gyptone **QUATTRO 47** (plenum depth 400mm)
■ Gyptone **QUATTRO 47** (plenum depth 400mm plus 50mm Isovex Acoustic Partition Roll (APR 1200))

Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.45	0.50	0.45	0.40	0.30	0.25	0.35(L)	D	0.40
■	0.50	0.55	0.50	0.40	0.30	0.30	0.40(L)	D	0.45

LINE 6

Sound absorption coefficient α_p 

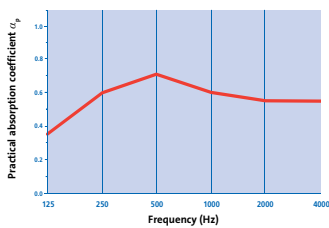
System reference ■ C10A001
■ C10A002

■ Gyptone **LINE 6** (plenum depth 400mm)
■ Gyptone **LINE 6** (plenum depth 400mm plus 100mm Isovex Spacesaver Ready-Cut)

Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.70	0.65	0.60	0.50	0.40	0.35	0.45(L)	D	0.55
■	0.70	0.70	0.65	0.65	0.50	0.45	0.55(L)	D	0.65

SIXTO 63

Sound absorption coefficient α_p 

System reference ■ C10A115

■ Gyptone **SIXTO 63** (plenum depth 200mm)

Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.35	0.60	0.70	0.60	0.55	0.55	0.60	C	0.60

¹ AC - Absorption Class.

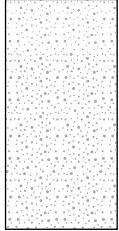
² NRC - Noise Reduction Coefficient.

(NB) All products have been tested to *BS EN 20354* and *ISO 354*. The single figure rating practical sound absorption coefficient α_w is calculated in accordance with *EN ISO 11654*. Suffix letters indicate where performance is limited at either low, medium or high frequencies.

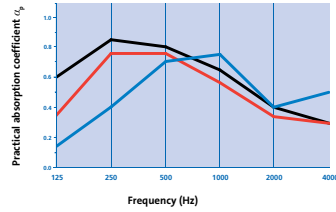
Rigitone performance

Table 4 – Sound absorption data for Rigitone boards

8-15-20 SUPER



Sound absorption coefficient α_p



System reference

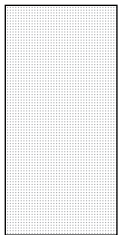
- C10A058
- C10A059
- C10A069

- Rigitone 8-15-20 SUPER (plenum depth 50mm)³
- Rigitone 8-15-20 SUPER (plenum depth 200mm)
- Rigitone 8-15-20 SUPER (plenum depth 200mm plus 50mm Isover Frame Batt 32)

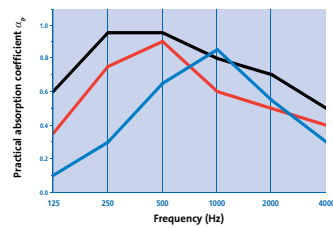
Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.15	0.40	0.70	0.75	0.45	0.40	0.50(M)	D	0.55
■	0.35	0.75	0.75	0.55	0.40	0.30	0.45(LM)	D	0.60
■	0.60	0.85	0.80	0.65	0.45	0.30	0.45(LM)	D	0.70

8/18



Sound absorption coefficient α_p



System reference

- C10A036
- C10A037
- C10A060

- Rigitone 8/18 (plenum depth 50mm)³
- Rigitone 8/18 (plenum depth 200mm)
- Rigitone 8/18 (plenum depth 200mm plus 50mm Isover Frame Batt 32)

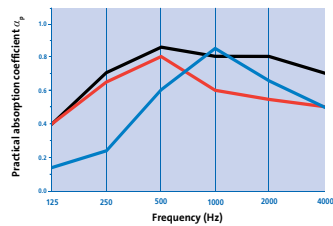
Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.10	0.30	0.65	0.85	0.55	0.30	0.50(M)	D	0.55
■	0.35	0.75	0.90	0.60	0.50	0.40	0.55(LM)	D	0.70
■	0.60	0.95	0.95	0.80	0.70	0.50	0.70(LM)	C	0.85

8/18 Q



Sound absorption coefficient α_p



System reference

- C10A125
- C10A124
- C10A126

- Rigitone 8/18 Q (plenum depth 50mm)³
- Rigitone 8/18 Q (plenum depth 200mm)
- Rigitone 8/18 Q (plenum depth 200mm plus 25mm Isover Acoustic Partition Roll (APR 1200))

Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.15	0.25	0.60	0.85	0.65	0.50	0.55(M)	D	0.60
■	0.40	0.65	0.80	0.60	0.55	0.50	0.60	C	0.65
■	0.40	0.70	0.85	0.80	0.80	0.70	0.80	B	0.80

¹ AC - Absorption Class.

² NRC - Noise Reduction Coefficient.

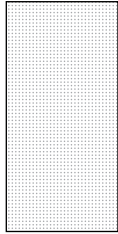
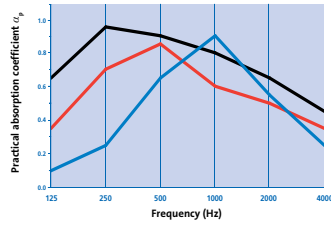
³ Due to installation limitations the minimum cavity size that can be constructed with **CasoLine MF** or **CasoLine CURVE** system is 100mm. The sound absorption performance for these systems is estimated to be equivalent to that of the same system built with a 50mm plenum.

(NB) All products have been tested to *BS EN 20354* and *ISO 354*. The single figure rating practical sound absorption coefficient α_w is calculated in accordance with *EN ISO 11654*. Suffix letters indicate where performance is limited at either low, medium or high frequencies.

Rigitone performance (continued)

Table 4 (continued) - Sound absorption data for Rigitone boards

10/23

Sound absorption coefficient α_p 

System reference

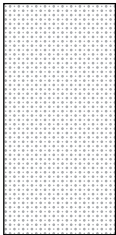
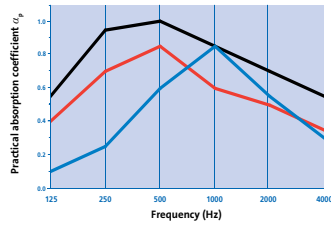
- C10A038
- C10A039
- C10A061

- Rigitone 10/23 (plenum depth 50mm)³
- Rigitone 10/23 (plenum depth 200mm)
- Rigitone 10/23 (plenum depth 200mm plus 50mm Isover Frame Batt 32)

Practical absorption coefficient α_p

125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.10	0.25	0.65	0.90	0.55	0.25	0.45(M)	D	0.60
0.35	0.70	0.85	0.60	0.50	0.35	0.50(LM)	D	0.65
0.65	0.95	0.90	0.80	0.65	0.45	0.65(LM)	C	0.80

12-20/66

Sound absorption coefficient α_p 

System reference

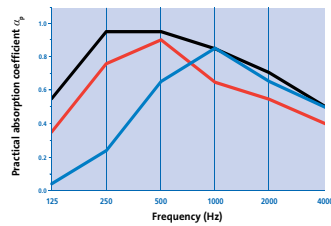
- C10A042
- C10A043
- C10A063

- Rigitone 12-20/66 (plenum depth 50mm)³
- Rigitone 12-20/66 (plenum depth 200mm)
- Rigitone 12-20/66 (plenum depth 200mm plus 50mm Isover Frame Batt 32)

Practical absorption coefficient α_p

125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.10	0.25	0.60	0.85	0.55	0.30	0.45(M)	D	0.55
0.40	0.70	0.85	0.60	0.50	0.35	0.50(LM)	D	0.65
0.55	0.95	1.00	0.85	0.70	0.55	0.70(LM)	C	0.90

12/25

Sound absorption coefficient α_p 

System reference

- C10A127
- C10A129
- C10A128

- Rigitone 12/25 (plenum depth 50mm)³
- Rigitone 12/25 (plenum depth 200mm)
- Rigitone 12/25 (plenum depth 200mm plus 50mm Isover Frame Batt 32)

Practical absorption coefficient α_p

125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
0.05	0.25	0.65	0.85	0.65	0.50	0.55(M)	D	0.60
0.35	0.75	0.90	0.65	0.55	0.40	0.55(LM)	D	0.70
0.55	0.95	0.95	0.85	0.70	0.50	0.70(LM)	C	0.85

¹ AC – Absorption Class.

² NRC – Noise Reduction Coefficient.

³ Due to installation limitations the minimum cavity size that can be constructed with **CasoLine MF** or **CasoLine CURVE** system is 100mm. The sound absorption performance for these systems is estimated to be equivalent to that of the same system built with a 50mm plenum.

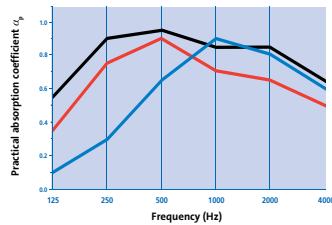
(NB) All products have been tested to **BS EN 20354** and **ISO 354**. The single figure rating practical sound absorption coefficient α_w is calculated in accordance with **EN ISO 11654**. Suffix letters indicate where performance is limited at either low, medium or high frequencies.

Table 4 (continued) – Sound absorption data for Rigitone boards

12/25 Q



Sound absorption coefficient α_p



System reference

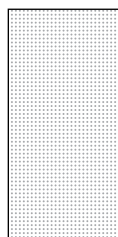
- C10A131
- C10A130
- C10A132

- Rigitone 12/25 Q (plenum depth 50mm)³
- Rigitone 12/25 Q (plenum depth 200mm)
- Rigitone 12/25 Q (plenum depth 200mm plus 50mm Isover Frame Batt 32)

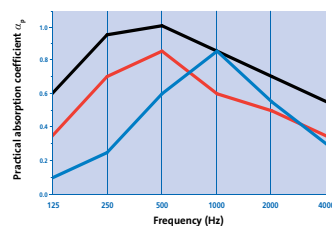
Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.10	0.30	0.65	0.90	0.80	0.60	0.60(M)	C	0.65
■	0.35	0.75	0.90	0.70	0.65	0.50	0.65(LM)	C	0.75
■	0.55	0.90	0.95	0.85	0.85	0.65	0.85(L)	B	0.90

15/30



Sound absorption coefficient α_p



System reference

- C10A040
- C10A041
- C10A062

- Rigitone 15/30 (plenum depth 50mm)³
- Rigitone 15/30 (plenum depth 200mm)
- Rigitone 15/30 (plenum depth 200mm plus 50mm Isover Frame Batt 32)

Practical absorption coefficient α_p

	125	250	500	1k	2k	4k	α_w	AC ¹	NRC ²
■	0.10	0.25	0.60	0.85	0.55	0.30	0.45(M)	D	0.55
■	0.35	0.70	0.85	0.60	0.50	0.35	0.50(LM)	D	0.65
■	0.60	0.95	1.00	0.85	0.70	0.55	0.70(LM)	C	0.85

¹ AC – Absorption Class.

² NRC – Noise Reduction Coefficient.

³ Due to installation limitations the minimum cavity size that can be constructed with **CasoLine MF** or **CasoLine CURVE** system is 100mm. The sound absorption performance for these systems is estimated to be equivalent to that of the same system built with a 50mm plenum.

(NB) All products have been tested to *BS EN 20354* and *ISO 354*. The single figure rating practical sound absorption coefficient α_w is calculated in accordance with *EN ISO 11654*. Suffix letters indicate where performance is limited at either low, medium or high frequencies.

Casoline MF

Concealed monolithic metal frame suspended ceiling system

SPECSURE
Lifetime System Warranty

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



Casoline MF

Casoline MF is a suspended ceiling system suitable for most internal drylining applications. The fully concealed grid and ceiling lining can be used in conjunction with Gyproc plasterboards and Gyptone and Rigitone acoustic ceiling boards to create a seamless, monolithic appearance.

Key benefits

- High level of design flexibility; bulkheads, gradients and changes in height can all be fully integrated
- Services inspection and access points are easily included during design or installation
- Adaptable metal framing system fully compatible with a wide range of British Gypsum lining solutions to achieve a variety of performances tailored to meet individual project requirements
- Improvement to acoustic and fire performance can be achieved without the need to access the room above
- Partition heights can be reduced as the partition channel can be supported by the ceiling framework rather than the soffit

30 – 120
mins

0.35 – 0.85
 α_w

56 – 66
 R_w dB

68 – 50
 L_{nw} dB

ACTIV air

System can be skim finished with ThistlePro PureFinish. Refer to C02. S01. P49

SPECSURE
Lifetime System Warranty

Refer to C01. S01. P07



You may also be interested in...

ShaftWall

To achieve up to a full 120 minutes fire resistance to a ceiling void.

► Refer to C05. S02. P09 – horizontal ShaftWall.

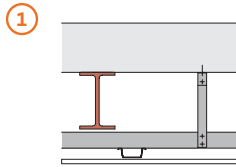
CasoLine MF performance

Fire protection to steel beams supporting concrete floors¹

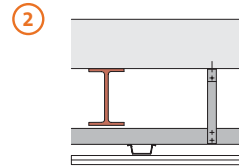
For details of when to specify fire resistance using BS
 ▶ Refer to C02. S01. P05



Table 1 – Solutions to satisfy requirements of BS 476: Part 8: 1972 or BS 476: Part 23: 1987



1 CasoLine MF ceiling suspended beneath steel beams supporting a concrete floor. Ceiling linings as in table.



2 CasoLine MF ceiling suspended beneath steel beams supporting a concrete floor. Ceiling linings as in table.

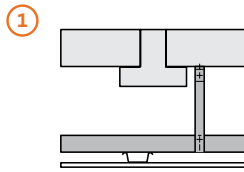
Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	MF5 support centres mm	MF7 support centres mm	System reference
30 minutes fire resistance BS						
2	Gyproc WallBoard	2 x 12.5	18	450	1200	C100013
60 minutes fire resistance BS						
1	Gyproc FireLine	1 x 12.5	11	450	1200	C100014
1	Glasroc F MULTIBOARD	1 x 12.5	12	450	1200	G100036
120 minutes fire resistance BS						
2	Glasroc F MULTIBOARD	2 x 10	20	400	1200	G100038
2	Gyproc FireLine	2 x 15	25	400	900	C100015

▶ 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

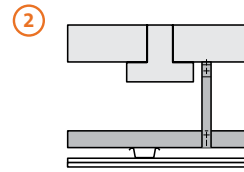
¹ Concrete floors as described in BS 476: Part 23: 1987. The steel beams subjected to test had a section factor A/V (Hp/A) of 205m⁻¹ calculated on the basis of three sided profiled exposure. The suspended ceiling will also provide adequate protection to steel beams with a lower section factor.

Sound insulation

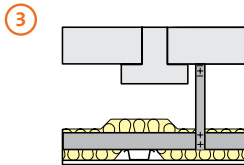
Table 2 – CasLine MF upgrading the sound insulation of concrete floors¹



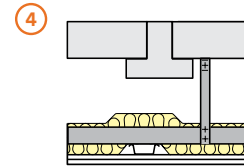
① CasLine MF ceiling suspended beneath basic floor to give 240mm cavity. Ceiling linings as in table.



② CasLine MF ceiling suspended beneath basic floor to give 240mm cavity. Ceiling linings as in table.



③ CasLine MF ceiling suspended beneath basic floor to give 240mm cavity, with 100mm Isover Spacesaver Ready-Cut in cavity. Ceiling linings as in table.



④ CasLine MF ceiling suspended beneath basic floor to give 240mm cavity, with 100mm Isover Spacesaver Ready-Cut in cavity. Ceiling linings as in table.

Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	Sound insulation		System reference
				Airborne $R_w (R_w + C_{tr})$ dB	Impact $L_{n,w}$ dB	
①	Gyproc WallBoard	1 x 12.5	9	56 (50)	68	C100016
②	Gyproc WallBoard	2 x 12.5	21	58 (51)	66	C100017
③	Gyproc SoundBloc	1 x 12.5	12	61 (51)	60	C100018
④	Gyproc SoundBloc	2 x 12.5	23	64 (55) ²	57	C100019

► 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 Basic floor construction is lightweight concrete joist floor with insulated concrete infill panel (surface density of infill is 90kg/m²) and total depth 150mm. Sound insulation is R_w 35dB (airborne) and $L_{n,w}$ 91dB (impact).

² This British Gypsum Approved System is designed to achieve minimum $D_{nT,w} + C_{tr}$ 45dB and $L'_{nT,w}$ 62dB subject to Pre-Completion Testing. Refer to C06. S01. P03 – Floors and ceilings introduction, table 1.

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 performance 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.

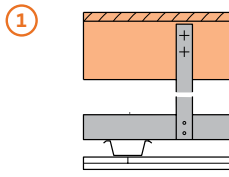
Casoline MF performance (continued)

Fire protection to timber floor construction

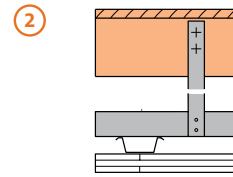
For details of when to specify fire resistance using EN
 ▶ Refer to C02. S01. P05



Table 3a – Solutions to satisfy requirements of BS EN 1365-2



1 Floor boarding of 21mm minimum t&g softwood or wood particle floor boarding. Solid timber joists 38 x 195mm at 600mm centres. Casoline MF suspended ceiling fixed to joists. Ceiling linings as in table.



2 Floor boarding of 21mm minimum t&g softwood or wood particle floor boarding. Solid timber joists 38 x 195mm at 600mm centres. Casoline MF suspended ceiling fixed to joists. Ceiling linings as in table.

Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	MF5 support centres mm	MF7 support centres mm	System reference
60 minutes fire resistance (EN)						
1	Gyproc FireLine	2 x 12.5	21	450	1200	C106003
90 minutes fire resistance (EN)						
2	Glasroc F MULTIBOARD	3 x 10	30 ¹	450	1200 ¹	G106035

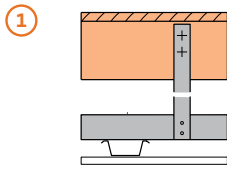
▶ For further assistance in choosing the right solution for your project, try the White Book System Selector; an online tool that enables quick and easy filtering by performance criteria. It provides system specific information downloads including BIM (Revit) objects. Go to british-gypsum.com

¹This system is close to its maximum allocation weight. Refer to table 6 for solutions to increase the maximum recommended load.

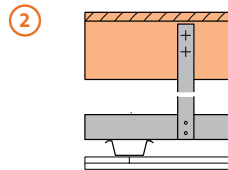
(NB) The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performance are achieved only if British Gypsum and Saint-Gobain Isover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



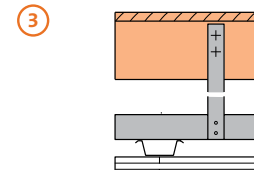
Table 3b – Solutions to satisfy the requirements of BS 476: Part 8: 1972 or BS 476: Part 21: 1987



1 Floor boarding of 21mm minimum t&g softwood or wood particle floor boarding. Solid timber joists as in table at 600mm centres. Casoline MF suspended ceiling fixed to joists. Ceiling linings as in table.



2 Floor boarding of 21mm minimum t&g softwood or wood particle floor boarding. Solid timber joists as in table at 600mm centres. Casoline MF suspended ceiling fixed to joists. Ceiling linings as in table.



3 Floor boarding of 21mm minimum t&g softwood or wood particle floor boarding. Solid timber joists as in table at 600mm centres. Casoline MF suspended ceiling fixed to joists. Ceiling linings as in table.

Detail	Joist size mm	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	MF5 support centres mm	MF7 support centres mm	System reference
30 minutes fire resistance BS							
1	38 x 225	Gyproc FireLine	1 x 12.5	11	450	1200	C106001
2	38 x 225	Gyproc WallBoard	2 x 12.5	18	450	1200	C106002
60 minutes fire resistance BS							
2	38 x 195	Gyproc FireLine	2 x 12.5	21	450	1200	C106003
90 minutes fire resistance BS							
2	38 x 175	Gyproc FireLine	2 x 15	25	450	900	C106004
120 minutes fire resistance BS							
3	38 x 195	Glasroc F MULTIBOARD	3 x 10	30 ¹	450	1200 ¹	G106035

► 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 This system is close to its maximum weight. Refer to table 6 for solutions to increase the maximum recommended load.

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 performance 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.

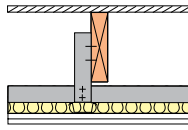
NB For non t&g floors, overlay with 6mm plywood and ensure all joints are staggered.

For details of when to specify fire resistance using BS/EN
 ▶ Refer to C02, S01, P05



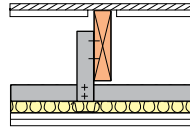
Table 4 – Solutions to satisfy requirements of EN 1365-2 (where applicable) BS 476: Part 8: 1972 or BS 476: Part 21: 1987

①



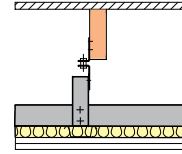
Casoline MF ceiling suspended beneath basic floor (ceiling removed) to give 277mm cavity. 100mm Isover Spacesaver Ready-Cut laid on ceiling boards. Ceiling linings as in table.

②



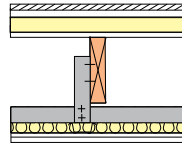
Casoline MF ceiling suspended beneath basic floor (ceiling removed) with a layer of Gyproc Plank fixed to the underside of the chipboard to give a 258mm cavity. 100mm Isover Spacesaver Ready-Cut laid on ceiling boards. Ceiling linings as in table.

③



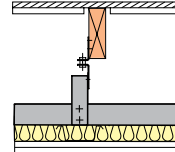
Casoline MF ceiling suspended beneath basic floor (ceiling removed) using Gyproframe Acoustic Hangers to give 277mm cavity. 100mm Isover Spacesaver Ready-Cut laid on ceiling boards. Ceiling linings as in table.

④



New floating floor² laid over joists. Casoline MF ceiling suspended beneath 195mm x 45mm timber joists at 600mm centres to give 277mm cavity. 100mm Isover Spacesaver Ready-Cut laid on ceiling boards. Ceiling linings as in table.

⑤



Casoline MF ceiling suspended beneath GypFloor SILENT using Gyproframe Acoustic Hangers to give 277mm cavity. 100mm Isover Spacesaver Ready-Cut laid on ceiling boards. Ceiling linings as in table.

Detail ¹	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	Floor depth mm	Sound insulation		System reference
					Airborne R _w (R _w + C _{tr}) dB	Impact L _{n,w} dB	
30 minutes fire resistance (BS)							
①	Gyproc SoundBloc	2 x 12.5	23	320	60	60	C106007
②	Gyproc SoundBloc	2 x 12.5	23	320	63 (51)	57	C106009
③	Gyproc SoundBloc	2 x 12.5	23	320	63 (55) ⁴	54	C106013
④	Gyproc SoundBloc	2 x 12.5	23	376	66 (54) ⁴	50	C106011
60 minutes fire resistance (EN) (BS)							
①	Gyproc SoundBloc	2 x 15	27	325	60	60	C106014
③	Gyproc FireLine	2 x 12.5	21	320	62 (53) ⁴	55	C106022
③	Gyproc SoundBloc	2 x 15	27	325	63 (55) ⁴	54	C106023
④	Gyproc SoundBloc	2 x 15	27	381	66 (54) ⁴	50	C106025
⑤	Gyproc SoundBloc	2 x 15	27	336	63 (55) ⁴	51	C106026
90 minutes fire resistance (BS)							
①	Gyproc FireLine	2 x 15 ³	25	325	59	61	C106004
③	Gyproc FireLine	2 x 15 ³	25	325	62 (53) ⁴	55	C106024

▶ 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 Basic floor construction is 45mm x 195mm timber joists at 600mm centres with 21mm t&g wood chipboard flooring.

² 18mm t&g wood chipboard spot bonded to Gyproc Plank on Isover Sound Deadening Floor Slab laid on overlining of 12mm plywood.

³ Gyproframe MF7 Primary Support Channel at 900mm centres.

⁴ These British Gypsum Approved Systems are designed to achieve minimum D_{nT,w} + C_{tr} 45dB and L_{nT,w} 62dB subject to Pre-Completion Testing. Refer to C06, S01, P03 – Floors and ceilings introduction, table 1.

(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 performance 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.

CasoLine MF performance (continued)

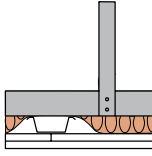
Fire protection to floor or roof cavity above suspended ceiling (non-loadbearing)¹

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



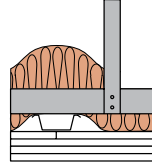
Table 5a – Solutions to satisfy requirements of BS EN 1364-2

①



CasoLine MF suspended ceiling fixed to structure. 25mm stone mineral wool slabs (100kg/m³) laid over Gypframe MF5 Ceiling Section. Ceiling linings as in table.

②

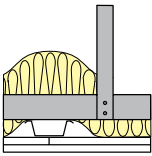


CasoLine MF suspended ceiling fixed to structure. Gypframe MF7 at 600mm centres, suspended at 1200mm centres. Gypframe MF5 at 400mm centres. 150mm stone mineral wool rolls (22kg/m³) laid over Gypframe MF5 Ceiling Section. Ceiling linings as in table.

Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	MF5 support centres mm	MF7 support centres mm	System reference
30 minutes fire resistance (EN)						
①	Gyproc FireLine	2 x 12.5	22	450	1200	C106046
60 minutes fire resistance (EN)						
①	GlasROC F FIRECASE	2 x 15	28 ²	450	1200 ²	G106040
120 minutes fire resistance (EN)						
②	Gyproc FireLine	4 x 15	52	400	600	C100038

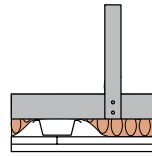
Table 5b – Solutions to satisfy the requirements of BS 476: Part 22: 1987

①



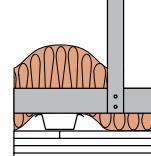
CasoLine MF suspended ceiling fixed to structure. Normal fixing centres for Gypframe MF5s and MF7s (450mm and 1200mm respectively). Insulation laid over Gypframe MF5 Ceiling Section. 100mm Isover Spacesaver Ready-Cut laid over Gypframe MF5 Ceiling Section. Ceiling linings as in table.

②



CasoLine MF suspended ceiling fixed to structure. Normal fixing centres for Gypframe MF5s and MF7s (450mm and 1200mm respectively). 30mm stone mineral wool slab 45 kg/m³ laid over Gypframe MF5 Ceiling Section. Ceiling linings as in table.

③



CasoLine MF suspended ceiling fixed to structure. Gypframe MF7 at 600mm centres, suspended at 1200mm centres. Gypframe MF5 at 400mm centres. 150mm stone mineral wool rolls (22kg/m³) laid over Gypframe MF5 Ceiling Section. Ceiling linings as in table.

Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	MF5 support centres mm	MF7 support centres mm	System reference
30 minutes fire resistance (BS)						
①	Gyproc WallBoard	2 x 12.5	19	450	1200	C106045
60 minutes fire resistance (BS)						
②	Gyproc FireLine	2 x 15	26	450	1200	C106051
120 minutes fire resistance (BS)						
③	Gyproc FireLine	4 x 15	52	400	600	C100038

▶ 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 The requirement for providing cavity barriers in the same plane as fire-resistant walls may not apply to cavities in floors and roofs if the ceiling beneath the floor or roof cavity provides a minimum of a full 30 minutes fire resistance (30 mins integrity : 30 mins insulation) in addition to satisfying other requirements. Refer to C06. S07. P02 – Cavity barriers.

² This system is close to its maximum allocation weight. Refer to table 6 for solutions to increase the maximum recommended load.

(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 performance (from the underside to the ceiling plenum only) 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.

Building design

CasoLine MF comprises Gypframe MF7 Primary Support Channels and Gypframe MF5 Ceiling Sections which forms a suspended frame to which Gyproc, Gyptone, Rigitone and Glasroc boards can be fixed.

Planning – key factors

The depth of the ceiling cavity is a minimum 100mm.

Cavity barriers

Where cavity barriers are required, these can be formed using Gyproc FireLine or Glasroc F MULTIBOARD screw-fixed to a simple frame. The framing should be fixed to the structure to avoid undue loading of the ceiling suspension grid or, alternatively, additional hangers should be incorporated to support the ceiling alongside the cavity barrier.

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

Relative humidity

CasoLine MF ceilings lined with Gyproc, Gyptone, Rigitone or British Gypsum Specialist Boards are suitable for use under normal occupancy conditions. Buildings in which they are used should be dry, glazed and enclosed, with environmental conditions of no greater than 70% RH at 10°C to 20°C. For high humidity / high moisture conditions use Gyproc plasterboard MF variants or Glasroc F MULTIBOARD.

► Refer to C02. S01. P30 – Robustness.

Vapour control

For areas other than where perforated Gyptone or Rigitone boards are used, a face layer of duplex grade plasterboard or two coats of Gyproc Drywall Sealer applied to the face of the lining will provide water vapour control.

Acoustic performance

Gyptone and Rigitone boards are perforated and designed to provide sound absorption when used in conjunction with an airspace behind the ceiling. Increased levels of sound absorption can be achieved by including insulation over the back of the ceiling. Where sound insulation room-to-room is required, sound attenuation $D_{n,c,w}$ of 39dB can be achieved by the inclusion of 100mm Isover Spacesaver Ready-Cut over the back of the ceiling. Alternatively, other design considerations should be adopted such as extending adjoining partitions into the plenum void or installing a plenum barrier.

► Refer to C06. S01. P04 – Floors and ceilings introduction, tables 3 and 4.

Thermal performance

Isover insulation can be laid over the suspension grid to provide the required standard of thermal insulation. Contact the British Gypsum Technical Advice Centre for further guidance.

Ceiling lift

Changes to Building Regulations Approved Document L, airtightness requirements within dwellings, can lead to greater changes in air pressure when a door is opened. The ceiling is normally the lightest fixed element in the room, and therefore most likely to be affected by this change in pressure.

This can cause the ceiling to lift, which may create a noise. Whilst this noise can be annoying to the occupier, it has no detrimental effect on the performance of the ceiling.

The designer should consider incorporating a pressure release system to minimise the risk of ceiling lift. Where sufficient 'pressure relief' cannot be designed in, it is recommended that the Gypframe MF5 Ceiling Section and the Gypframe MF7 Primary Support Channel should be screw-fixed together using two British Gypsum Wafer Head Jack-Point Screws at each intersection, particularly where non-perforated board linings are specified.

Imposed loads

Tables 6, 7 and 8 provide loading data for the suspension grid for Gyproc, Glasroc specialist, Gyptone and Rigitone boards respectively. Maximum loads will be reduced by 25% when Gypframe FEA1 Steel Angle is fixed directly to the soffit (modified loads are shown in brackets) but must only be used in non-fire rated construction.

Table 6 – Maximum recommended loads on CasoLine MF with Gyproc or Glasroc specialist board linings

Maximum load including weight of board, any insulation and finish plaster MF5 ¹ at 450mm centres kg/m ² (modified load ²)	Suspension point centres mm	MF7 ² channel centres mm
60	1200	600
40	1200	900
35	900	1200
30 (23 ³)	1200	1200

Table 7 – Maximum recommended loads on CasoLine MF with Gyproc⁴ or Gyptone board linings

Maximum load including weight of board, and any insulation MF5 ¹ at 600mm centres kg/m ² (modified load ²)	Suspension point centres mm	MF7 ² channel centres mm
55	1200	600
35	1200	900
25 (19)	1200	1200

Table 8 – Maximum recommended loads on CasoLine MF with Rigitone board linings

Maximum load including weight of board, and any insulation MF5 ¹ at 330mm centres kg/m ² (modified load)	Suspension point centres mm	MF7 ² channel centres mm
30 (23 ³)	900	1000

¹ Gypframe MF5 Ceiling Section.

² Gypframe MF7 Primary Support Channel.

³ Non fire-rated constructions only.

⁴ Only applies to ceilings that have no fire resistance or acoustic insulation performance and single layer 15mm board.

Casoline MF design (continued)

Suspension – Gyproc, Glasroc specialist and Gyptone board linings

Fixing points for suspending the metal grid are commonly required at 1200mm centres in each direction. Suitable fixing devices should be employed when fixing to the structure.

The ceiling grid can be suspended from a concrete soffit using Gypframe MF12 Soffit Cleats and Gypframe MF8 Strap Hanger, or alternatively, Gypframe FEA1 Steel Angle. The latter provides a more robust suspension support, which restricts any flexing of the lining when pressure is applied from below. Gypframe FEA1 Steel Angle is therefore the preferred suspension option when a plaster finish is specified to Gyproc boards. If Gypframe FEA1 Steel Angle is used, it is recommended that it is fixed to the soffit via Gypframe MF12 Soffit Cleats.

For single board solutions only, Gypframe FEA1 Steel Angle can be used to fix direct to the soffit. The angle should be cut along the spine with both flanges bent over. However, this will reduce the maximum loads that the grid is capable of supporting by 25%. Fixing Gypframe FEA1 Steel Angles direct is also not suitable if the ceiling is likely to deflect due to varying pressures and is not suitable for fixing to a sloping substrate.

Gypframe Acoustic Hangers can be used to suspend the grid from timber joists to maximise the degree of acoustic isolation. In a comparative test a 3dB improvement in airborne sound insulation and a 6dB improvement in impact sound insulation were achieved. Refer to table 4 and construction detail 7, relating to double layer 12.5mm Gyproc SoundBloc linings. With concrete floors the high mass of the construction means that high levels of acoustic performance can be achieved when the Casoline MF ceiling is suspended by conventional means, i.e. Gypframe MF8 Strap Hangers or Gypframe FEA1 Steel Angle.

Suspension – Rigitone board linings

Gypframe MF7 Primary Support Channels are fixed at 1000mm centres. Fixing points to the structure for the Gypframe MF7 Primary Support Channels are required at 900mm centres. In addition to this, the Gypframe MF5 Ceiling Section should be installed at nominal 330mm centres.

▶ Refer to **British Gypsum Ceilings Installation Guide** for full details.

Partition to suspended ceiling junction

Where a GypWall metal stud partition is fixed to the framework of a Casoline MF ceiling, in accordance with British Gypsum's installation instructions, its permissible maximum height is equal to that of where it is fixed direct to a structural soffit of the same height.



Handy hint

When designing the Casoline MF ceiling grid with a partition fixed to the underside, consideration should be given to ensure MF sections run parallel to the position, providing suitable restraint. This may result in additional Gypframe MF5 Ceiling Sections being required.

In situations where a GypWall metal stud partition passes through a Casoline MF ceiling, which is to both sides of the partition and appropriately fixed to both this partition and perimeter partitions / walls, consideration can be given to the lateral restraint provided by the ceiling when developing the partition specification.

The relevant maximum height is the greater of the floor to Casoline MF ceiling or ceiling to structural soffit height. Care should be taken during installation of tall partitions so as to not adversely affect their performance. Contact the British Gypsum Technical Advice Centre for further guidance.

Services

The plenum can be used to route all service requirements including ducting, pipework, electrical cables and conduit. All services should be independently supported from the building structure. Where light weight light fittings, access panels and similar components are incorporated as part of the design requirements, consideration must be given to maintaining the integrity of the ceiling to meet fire resistance and sound insulation requirements.

▶ Refer to tables 6, 7 or 8 for maximum recommended loads.

▶ Refer to profilx.co.uk for Gyproc Proflex Access Panels.

Fixtures

Fixings to the system should always be made into the metal grid or to supplementary framing. Some adjustment of the primary grid may be required to support heavier fixtures, refer to tables 6, 7 and 8. Where loads outside this range are anticipated, independent suspension should be provided from the structure.

Control joints

Gyproc Control Joints may be required in the ceiling to relieve stresses induced by expansion and contraction of the structure. It is recommended that they coincide with movement joints within the surrounding structure.

Rigitone expansion joints

Rigitone boards should be cut 10mm short of the perimeter wall and should not be fixed to the perimeter channel.

▶ Refer to construction details 12 - 13.

Board finishing

▶ Refer to C08. S01. P02 – Finishes.

Additional care and attention should be exercised when jointing Gyptone and Rigitone boards so as not to fill the perforations and impair the acoustic performance of the finished ceiling.

▶ Refer to **British Gypsum Ceiling Installation Guide**.

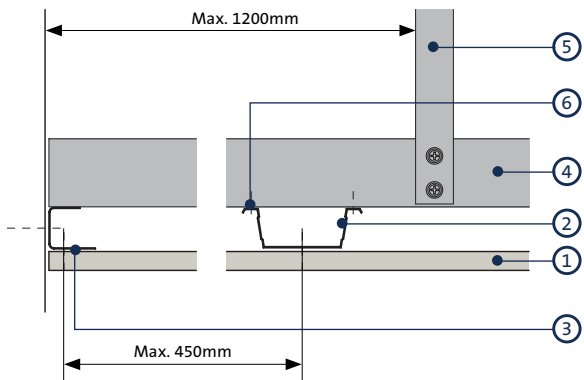


SpecSure®

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

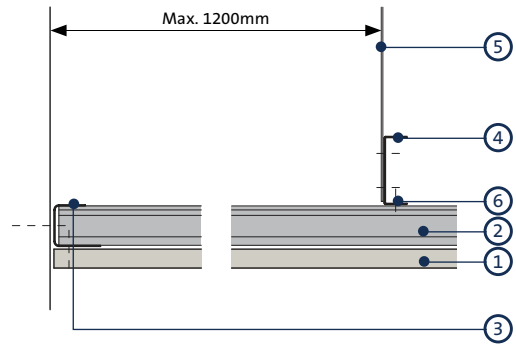
Casoline MF construction details

1



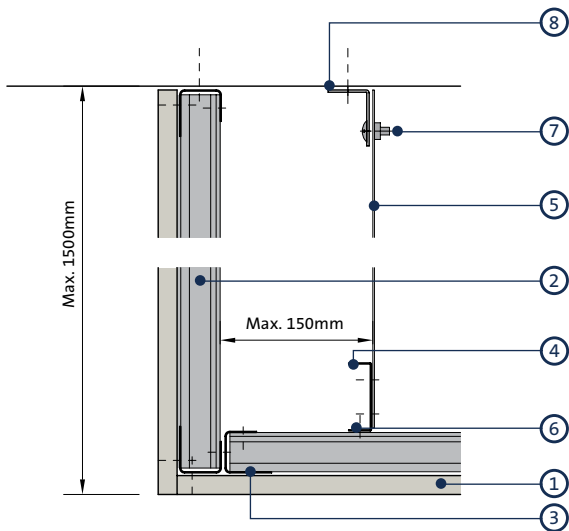
Perimeter parallel to Gypframe MF5 Ceiling Section
- screw-fixed

2



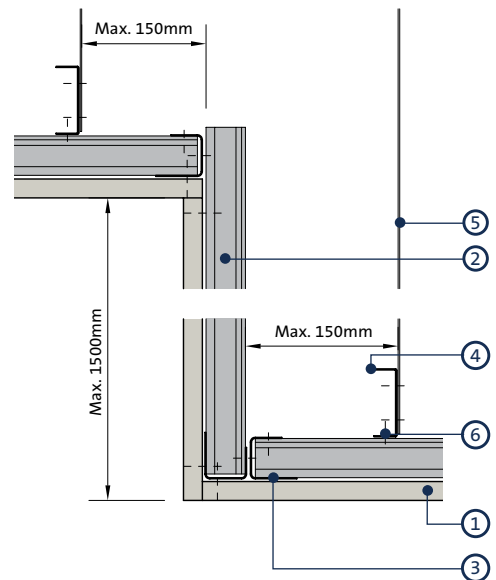
Perimeter perpendicular to Gypframe MF5 Ceiling Section
- screw-fixed

3



Bulkhead - screw-fixed

4

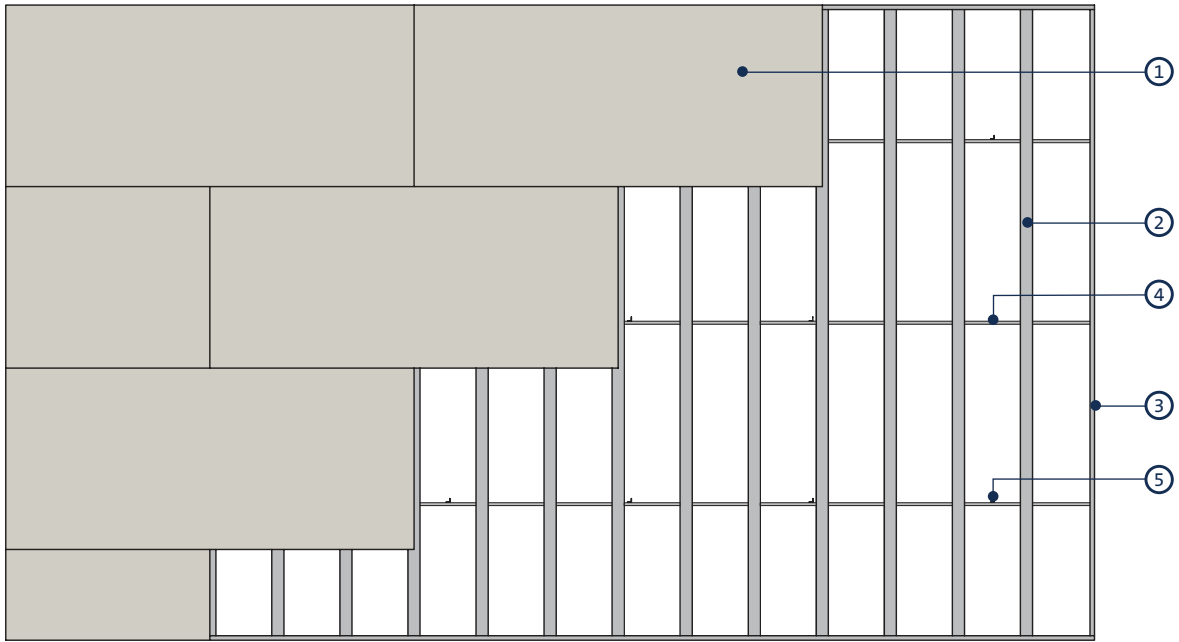


Change of level - screw-fixed

- 1 Gyproc plasterboard or Glasroc specialist board
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF6 Perimeter Channel
- 4 Gypframe MF7 Primary Support Channel

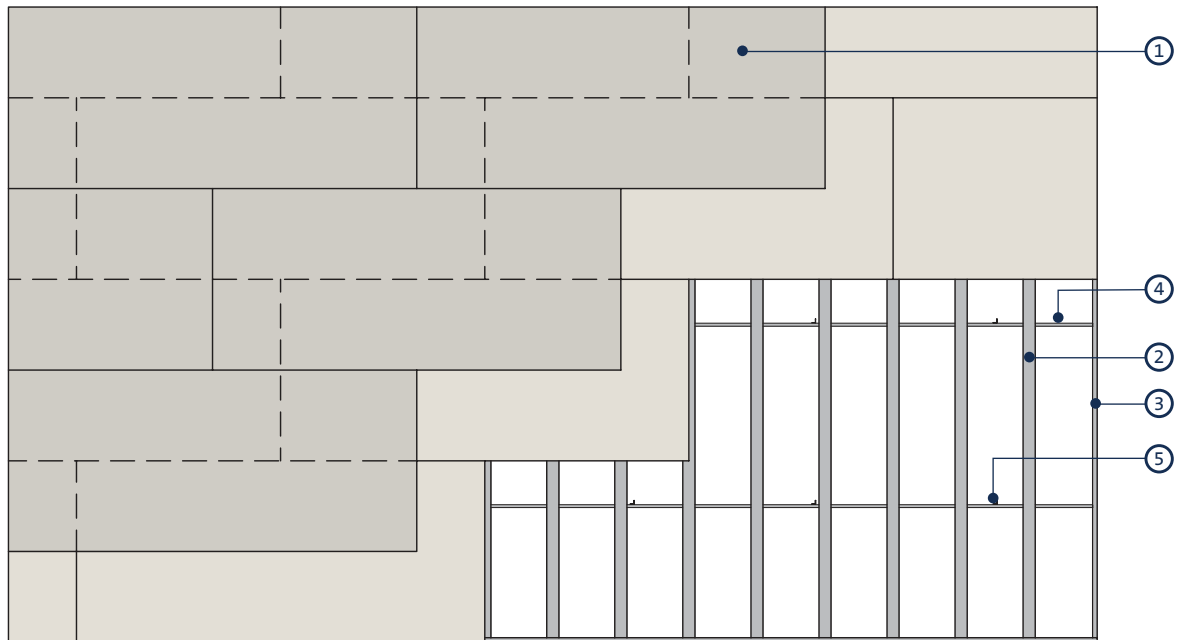
- 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle
- 6 British Gypsum Wafer Head Jack-Point Screw
- 7 Gypframe MF11 Nut and Bolt
- 8 Gypframe MF12 Soffit Cleat

5



Reflected ceiling plan - single layer

6



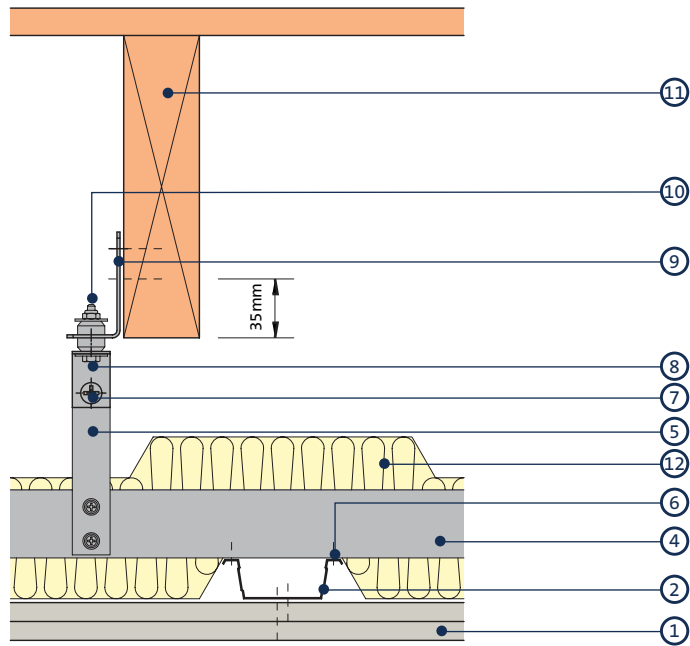
Reflected ceiling plan - double layer

- 1 Gyproc plasterboard or Glasroc specialist board
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF6 Perimeter Channel

- 4 Gypframe MF7 Primary Support Channel
- 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle

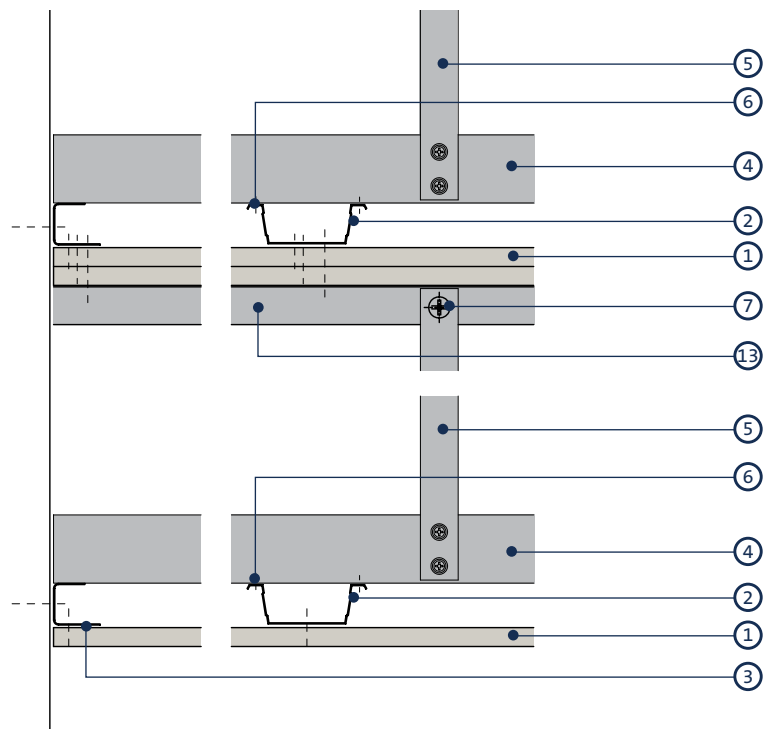
Casoline MF construction details (continued)

7



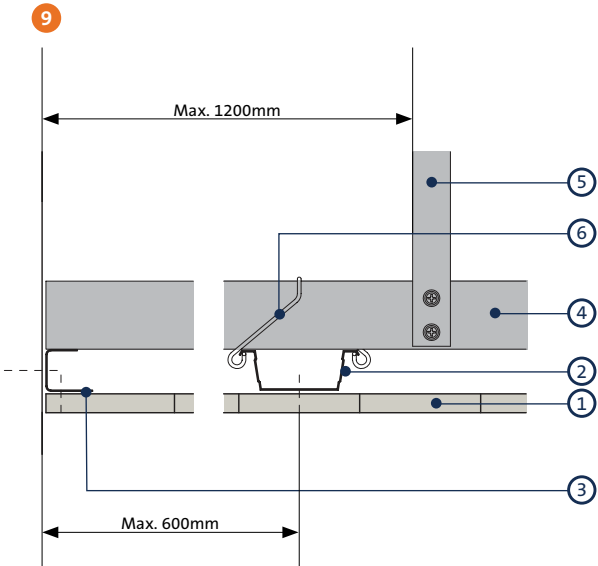
Suspension from timber joist using Gypframe Acoustic Hangers

8

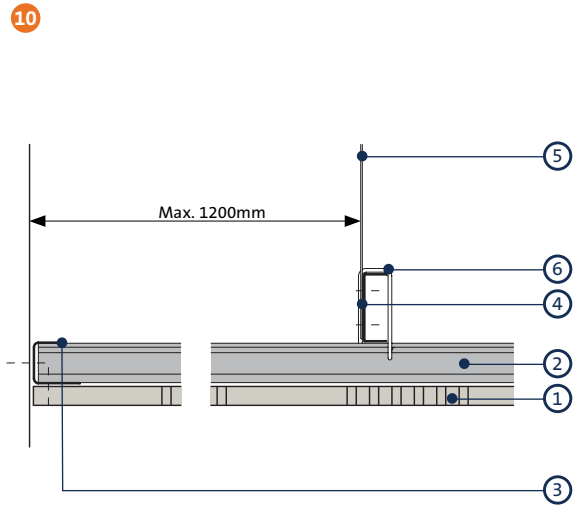


Secondary double Casoline MF ceiling

- | | |
|--|---|
| 1 Gyproc plasterboard or Glasroc specialist board | 8 Gypframe MF12 Soffit Cleat |
| 2 Gypframe MF5 Ceiling Section | 9 Gypframe Acoustic Hanger fixed with two British Gypsum Drywall Screws |
| 3 Gypframe MF6 Perimeter Channel | 10 M6 bolt and locking nut (by others) |
| 4 Gypframe MF7 Primary Support Channel | 11 Timber joist floor |
| 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle | 12 Isover insulation |
| 6 British Gypsum Wafer Head Jack-Point Screw | 13 Gypframe FEA1 Steel Angle |
| 7 Gypframe MF11 Nut and Bolt | |

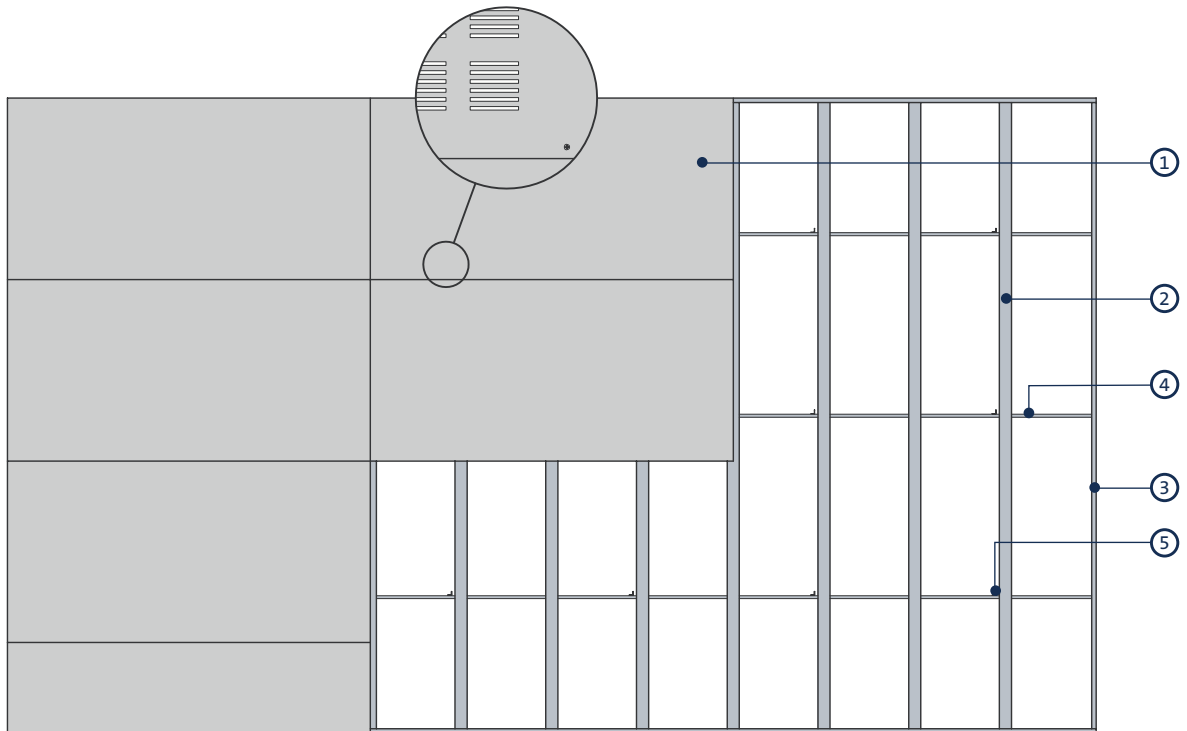


Perimeter parallel to Gyptone MF5 Ceiling Section
- Gyptone



Perimeter perpendicular to Gyptone MF5 Ceiling Section
- Gyptone

11



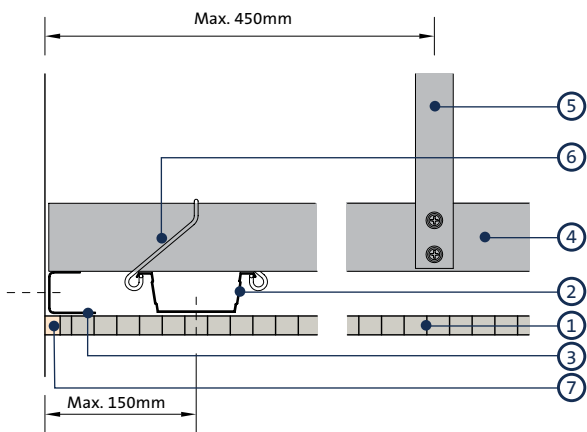
Reflected ceiling plan - Gyptone

- 1 Gyptone boards
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF6 Perimeter Channel

- 4 Gypframe MF7 Primary Support Channel
- 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle
- 6 Gypframe MF9 Connecting Clip

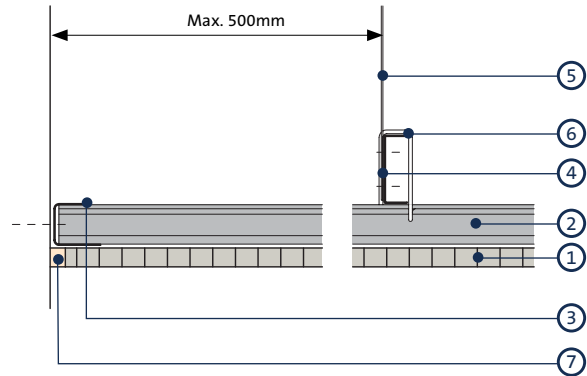
Casoline MF construction details (continued)

12



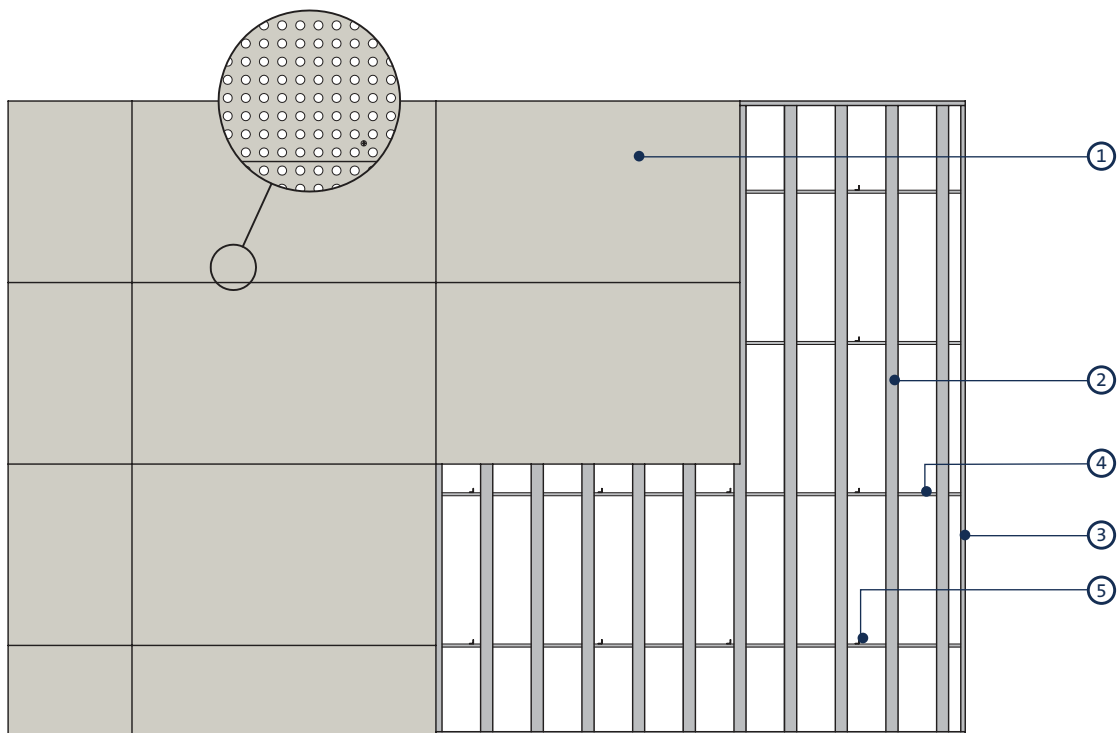
Perimeter parallel to Gypframe MF5 Ceiling Section
- Rigitone

13



Perimeter perpendicular to Gypframe MF5 Ceiling Section
- Rigitone

14



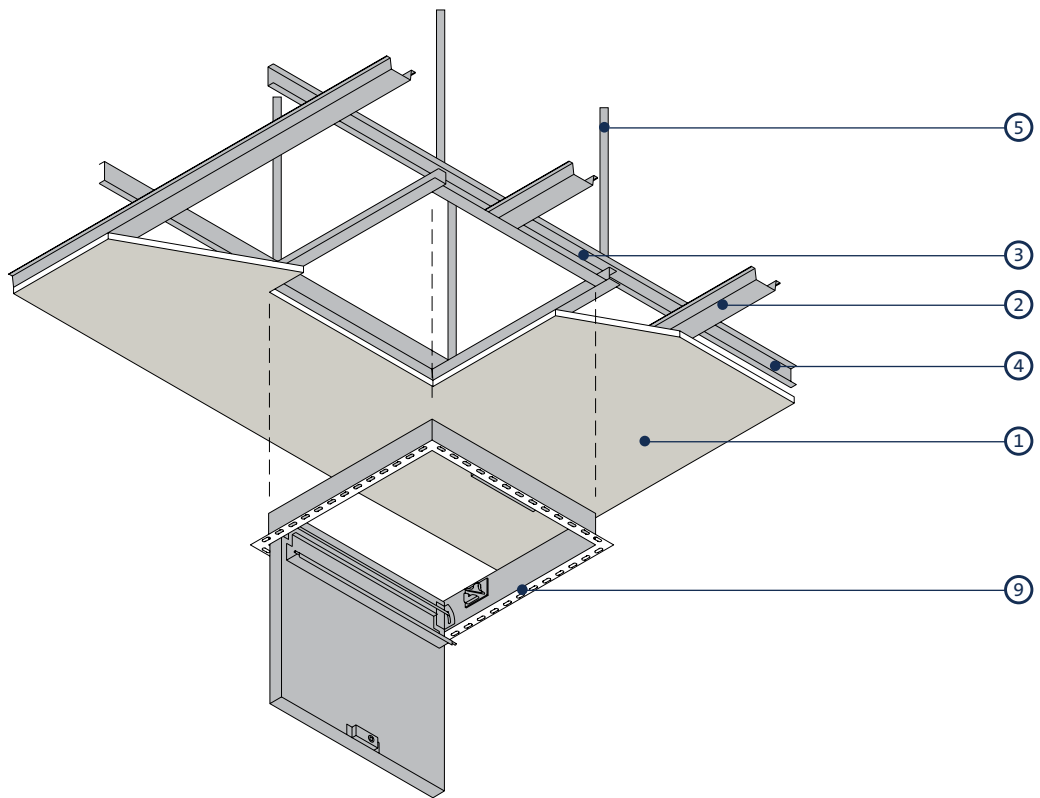
Reflected ceiling plan - Rigitone

- 1 Rigitone boards
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF6 Perimeter Channel
- 4 Gypframe MF7 Primary Support Channel

- 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle
- 6 Gypframe MF9 Connecting Clip
- 7 Rigitone Vario 60 filler

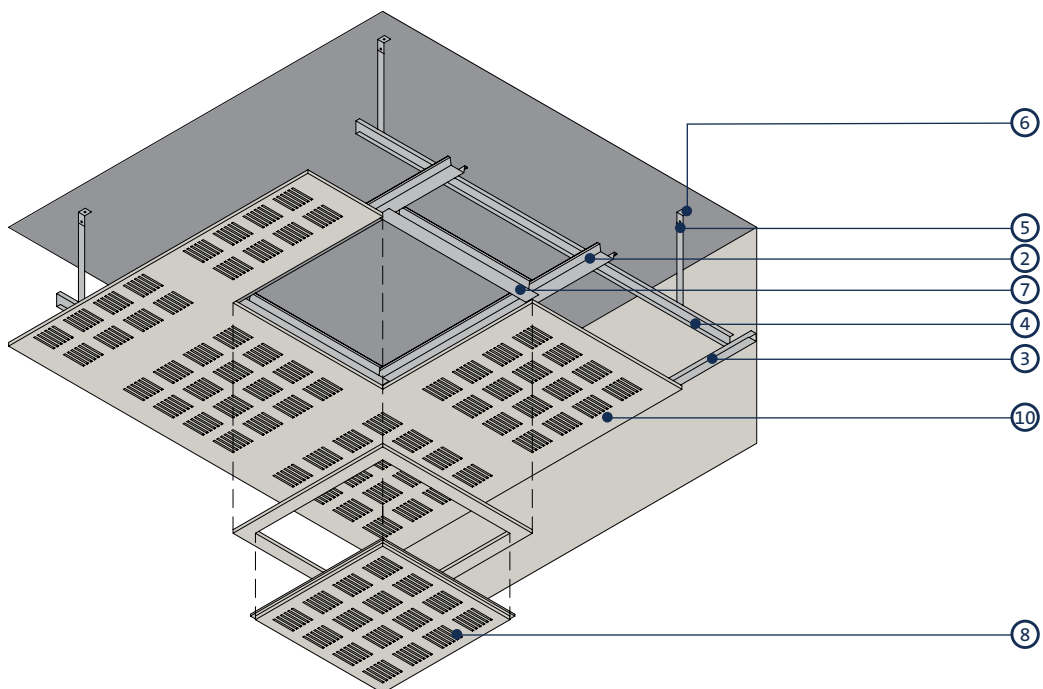
NB A special procedure is used for fixing and jointing Rigitone boards. Detailed installation notes are given in the current *British Gypsum Ceilings Installation Guide*, available to download from british-gypsum.com

15



Gyproc Proflex Access panel installation

16



Gyptone Access Hatch installation

- 1 Gyproc plasterboard or Glasroc specialist board
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF6 Perimeter Channel
- 4 Gypframe MF7 Primary Support Channel
- 5 Gypframe MF8 Strap Hanger or Gypframe FEA1 Steel Angle

- 6 Gyptone MF12 Soffit Cleat with MF11 Nut and Bolt
- 7 Gyptone MF5 Ceiling Section with ends tabbed and fixed
- 8 Gyptone Access Hatch (510 x 510mm) with frame (600 x 600mm)
- 9 Access panel (by others)
- 10 Gyptone board

Casoline MF system components

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



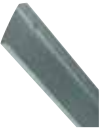
Gypframe MF6 Perimeter Channel

Perimeter section to support Gypframe MF5 Ceiling Section and fixing of board.



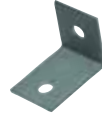
Gypframe MF9 Connecting Clips

Alternative method of connecting Gypframe MF5 Ceiling Section to Gypframe MF7 Primary Support Channel used in non-pressurised rooms.



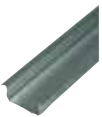
Gypframe MF7 Primary Support Channel

Primary section to support Gypframe MF5 Ceiling Section.



Gypframe MF12 Soffit Cleat

Suspension point, one leg connected to structural soffit and the other leg connected to suspension hanger Gypframe FEA1 Steel Angle or Gypframe MF8 Strap Hanger recommended for all double and triple boarded solutions.



Gypframe MF5 Ceiling Section

Designed to provide seamless suspended ceilings and secondary section to support fixing of board.



Gypframe MF11 Nut & Bolt

For connecting suspension hanger (Gypframe FEA1 or MF8) to Gypframe MF12 Soffit Cleat recommended for all double and triple boarded solutions.



Gypframe MF8 Strap Hanger

Alternative suspension of ceiling grid, typically 1 metre maximum drop.



Gypframe GAH1 (35mm) or GAH2 (70mm) Acoustic Hanger

Suspension point for enhanced acoustic performance to timber floors.



Gypframe FEA1 Steel Angle

Steel angle providing framing stability and board support. Preferred rigid hanger suspension of ceiling grid.

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



Gyproc WallBoard^{1,3}

Standard gypsum plasterboard.



Gyproc Duraline³

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



Gyproc FireLine^{1,3}

Gypsum plasterboard with fire resistant additives.



Gyproc Plank

Standard gypsum plasterboard located as an inner layer.



Gyproc SoundBloc³

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



Glasroc F MULTIBOARD

Non-combustible glass-reinforced gypsum board.



Glasroc F FIRECASE

Non-combustible glass-reinforced gypsum board giving up to 120 minutes fire protection.



Ceiling boards

A full range of Gyptone³ and Rigitone³ boards are available to meet specific aesthetic and/or acoustic requirements.

▶ Refer to C10. S08. P02

¹ Also available in DUPLEX grades where vapour control is required.

² ACTIVair technology as standard.

³ Also available in Moisture Resistant (MR) version. MR boards are specified in intermittent wet use areas.

Casoline MF system components (continued)

Fixing products (▶ Refer to C10. S04. P02 for details)



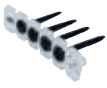
British Gypsum Drywall Screws

Corrosion resistant self-tapping steel screws for fixing board to metal framing less than 0.8mm thick.



British Gypsum Wafer Head Jack-Point Screws

Corrosion resistant self-tapping steel screws for fixing metal to metal framing 0.8mm thick and greater.



British Gypsum Collated Drywall Screws

Corrosion resistant self-tapping steel screws for fixing board to metal framing less than 0.8mm thick.



Rigitone Screws

Specifically designed for fixing Rigitone board to metal framing.



British Gypsum Wafer Head Drywall Screws

Corrosion resistant self-tapping steel screws for fixing metal to metal framing less than 0.8mm thick.

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



Gyproc Jointing Material

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



Gyproc Sealant

Used to seal air paths for optimum sound insulation.



Gyproc Control Joint

To accommodate structural movement of up to 7mm.



Gyproc Drywall Primer

A general purpose plasterboard primer, providing an ideal surface for decoration for most paints and wall coverings.



Gyproc edge and angle beads

Protecting and enhancing board edges and corners.



Gyproc Joint Tape

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

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



Thistle MultiFinish

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



ThistlePro PureFinish

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



Thistle BoardFinish

To provide a plaster skim finish to Gyproc plasterboards.



Thistle SprayFinish

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



Thistle ProTape FT50

Self-adhesive 48mm wide glass fibre mesh tape.



Thistle ProTape FT100

Self-adhesive 100mm wide glass fibre mesh tape.



Plaster accessories

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

Casoline MF system components (continued)

Ceiling products (► Refer to C10. S08. P02 for details)



Gyptone QUATTRO 41¹

Acoustic board with square perforations capable of providing Class C sound absorption.



Gyptone QUATTRO 47¹

Acoustic board with occasional square perforations and Class D absorption.



Gyptone QUATTRO 42¹

Acoustic board with square perforations capable of providing Class D sound absorption.



Gyptone LINE 6¹

Gyptone board with a linear perforated pattern capable of providing Class D absorption.



Gyptone SIXTO 63¹

Gyptone board with a unique hexagonal perforated pattern capable of providing Class C absorption.



Gyptone QUATTRO 46¹

Acoustic board with intermittent square perforations capable of providing Class D absorption.



Rigitone 8/18 Q¹

Acoustic board with a perforated pattern of 8mm squares capable of providing up to Class B absorption.



Rigitone 12-20/66¹

Acoustic board with a perforated pattern of 12mm and 20mm circles capable of providing up to Class C absorption.



Rigitone 12/25 Q¹

Acoustic board with a perforated pattern of 12mm squares capable of providing up to Class B absorption.



Rigitone 12/25¹

Acoustic board with a perforated pattern of 12mm circles capable of providing up to Class C absorption.



Rigitone 10/23¹

Acoustic board with a perforated pattern of 10mm circles capable of providing up to Class C absorption.



Rigitone 15/30¹

Acoustic board with a perforated pattern of 15mm circles capable of providing up to Class C absorption.



Rigitone 8-15-20 SUPER¹

Acoustic board with a random pattern of 8mm, 15mm and 20mm circles capable of providing up to Class D absorption.



Rigitone 8/18¹

Acoustic board with a perforated pattern of 8mm circles capable of providing up to Class C absorption.



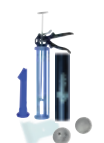
Rigitone Spacing Tool

Spacer tool used to ensure accurate installation of Rigitone boards.



Rigitone Vario 60 Jointing Material

High-strength jointing material used for jointing of Rigitone boards.



Rigitone Large Jointing Kit

Jointing kit for application of Vario 60 into Rigitone boards.

¹ ACTIVair technology as standard.

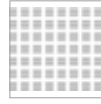
Casoline MF system components (continued)

Ceiling products (continued) (▶ Refer to C10. S08. P02 for details)



Gyptone QUATTRO 46 Access Hatch¹

Access hatch for providing access points in Gyptone QUATTRO 46 board ceilings.



Gyptone LINE 6 Access Hatch¹

Access hatch for providing access points in Gyptone LINE 6 board ceilings.



Gyptone QUATTRO 47 Access Hatch¹

Access hatch for providing access points in Gyptone QUATTRO 47 board ceilings.



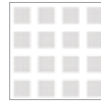
Gyptone QUATTRO 41 Access Hatch¹

Access hatch for providing access points in Gyptone QUATTRO 41 board ceilings.



Gyptone SIXTO 63 Access Hatch¹

Access hatch for providing access points in Gyptone SIXTO 63 board ceilings.



Gyptone QUATTRO 42 Access Hatch¹

Access hatch for providing access points in Gyptone QUATTRO 42 board ceilings.

Access panels (▶ Refer to profilex.co.uk for details)



Profilex Access Panel

Panel for access to cavity.

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



Isover Acoustic Partition Roll (APR 1200)

Glass mineral wool for enhanced acoustic performance.



Isover Sound Deadening Floor Slab

Glass mineral wool for enhanced acoustic performance.



Isover Frame Batts 32

Glass mineral wool for improved acoustic performance.



Stone Mineral Wool

(22kg/m³, 45kg/m³ or 100kg/m³, by others)
For fire performance.



Isover Spacesaver Ready-Cut

Glass mineral wool for enhanced acoustic and thermal performance.

¹ ACTIVair technology as standard.

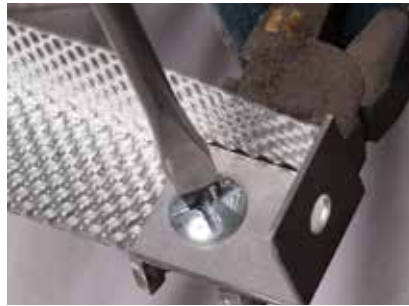
Casoline MF installation overview

This is intended to be a basic description of how the system is built.
For detailed installation guidance refer to the **British Gypsum Ceiling Installation Guide**.

Scan the image with this frame
for more information and
videos related to this system
▶ Or visit gyp.sm/b/l4



Gypframe MF6 Perimeter Channels are fixed to the perimeter walls at 600mm centres.



Gypframe FEA1 Steel Angle or Gypframe MF8 Strap Hanger is secured to Gypframe MF12 Soffit Cleats with Gypframe MF11 Nuts and Bolts to form hangers.



These hangers are then suitably fixed to the soffit at the required centres.



Gypframe MF7 Primary Support Channels are fixed to the hangers with British Gypsum Wafer Head Jack-Point Screws, two per hanger.



Gypframe MF5 Ceiling Sections are fixed to the underside of the Gypframe MF7 Primary Support Channels to form a grid with British Gypsum Wafer Head Jack-Point Screws.



Alternatively, in areas not prone to ceiling lift, Gypframe MF9 Connecting Clips.



Gyproc plasterboards, Glasroc specialist boards, Gyptone boards or Rigitone boards are then screw fixed to the Gypframe MF5 Ceiling Sections and Gypframe MF6 Perimeter Channels with British Gypsum Drywall Screws.



Additional information

For full installation details, refer to the **British Gypsum Ceiling Installation Guide**, available to download from british-gypsum.com

