

Gyproc MF ceilings

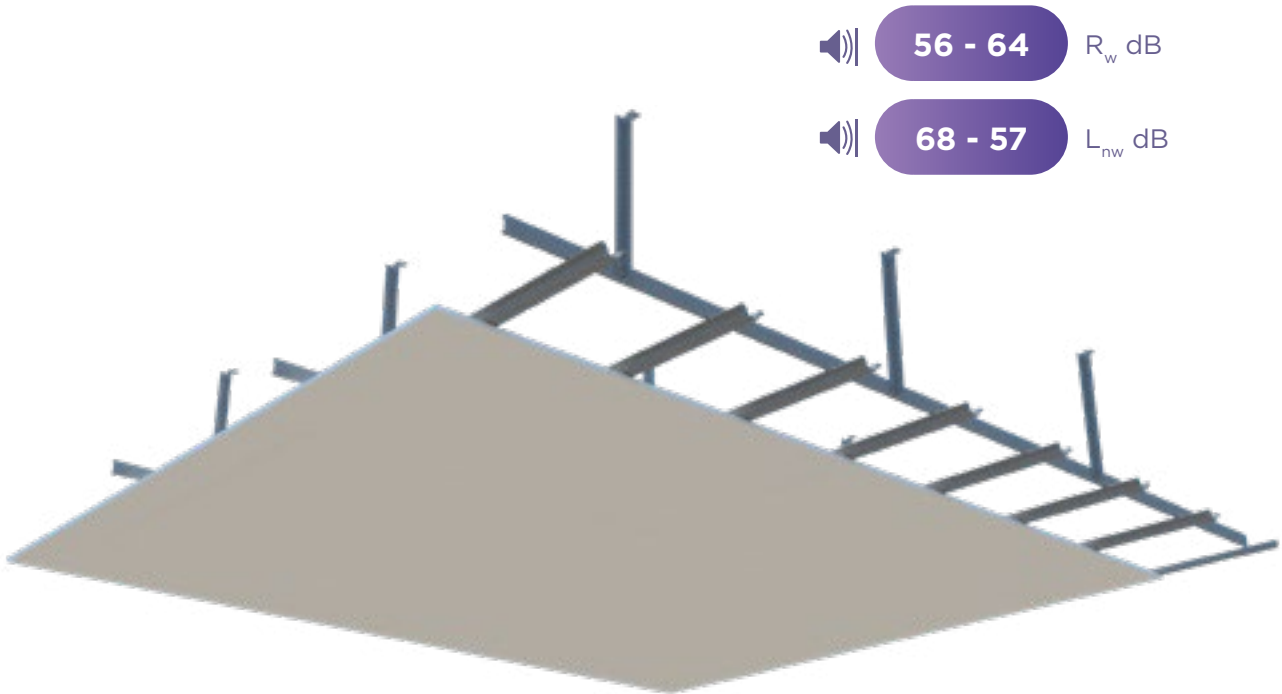


The monolithic metal framing gypsum ceiling system



Gyproc MF ceilings

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



56 - 64 R_w dB

68 - 57 L_{nw} dB

Key Benefits



Monolithic appearance



Simple accommodation of access panels



Durable ceiling lining



Easy to create bulkheads and level change



Ventilation ducts and other services accommodated in plenum



Suitable for wet environments



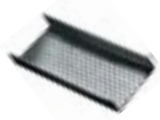
Eligible for the SpecSure warranty from Gyproc

System components

Gypframe metal components



Gypframe MF5 Ceiling Section
Secondary section supported by Gypframe MF7, used to receive board lining



Gypframe MF7 Primary Support
Primary section to support Gypframe MF5 Ceiling Section



Gypframe Shadow Angle
A primed, pre-formed aluminium trim for design effects on Gyproc MF ceilings



Gypframe GA1 Steel Angle
Primarily used as a perimeter wall angle and ceiling hanger in the Gyproc MF Ceiling system



Gypframe Soffit Cleat with Nut & Bolt
Cleat for suspending MF ceiling Gypframe GA1 Steel Angle hangers from soffit.

Board products



Gyproc Regular^{1, 2, 3}
(12.5, 15mm)
Standard gypsum plasterboard



Glasroc X²
(12.5mm)
Glasroc X is a high performance board with a glass-mat liner on both surfaces and a mold & moisture resistant (M2TECH) gypsum core



Gyproc SoundBloc^{1, 2}
(12.5, 15mm)
Gypsum plasterboard with a high density core for enhanced sound insulation performance

¹ Moisture resistant (MR) versions of the above boards are specified in intermittent wet use areas, e.g. shower cubicles

² Available with Activ'Air technology

³ Available with M2TECH technology



Fixing products



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



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



Gyproc Jack-Point Screws
Corrosion resistant self-drilling steel screws for fixing boards to Gypframe metal framing 0.8mm thick or greater and all 'I' studs



Gyproc Waferhead Jack-Point Screws
Corrosion resistant self-drilling steel screws for fixing metal to metal framing 0.8mm thick or greater and all 'I' studs



Gyproc Wedge Anchor
Corrosion resistant anchor used for fixing fire rated partition and ceiling systems into masonry



Gyproc Hammer Fix
Corrosion resistant nail, screw engaged in a nylon plug, suitable for fixing non fire rated partition systems and ceiling perimeters into masonry

System components (continued)

Plasterboard accessories



Gyproc Jointing Compound

Air-drying, asbestos free, ready mixed compound for filling and finishing plasterboard joints and corner beads



Gyproc Paper Tape

Designed for reinforcing flat joints when finishing plasterboard joints providing improved resistance against cracking



Gyproc Sealant

Used for sealing air paths to reduce air-leakage and optimise sound insulation performance



Glasroc X Tape

Suitable for internal and semi-exposed applications when used in conjunction with Glasroc X, MR and M2TECH range of boards

Corners



Gyproc Drywall Corner Bead

Provides corner reinforcement and protection to plasterboards and plasters



Levelline Flex

Adjustable corner reinforcement that flexes to any angle and gives high levels of impact protection



Gyproc Metal Corner Tape

High quality paper joint tape strengthened with two corrosion-resistant galvanised steel strips for the finishing of internal and external angles in drywall construction



Gyproc Drywall Metal Edge Bead

A galvanised steel channel used to protect plasterboard edges and to form a defined edge commonly used around window reveals

Insulation products



ISOVER Eco Acoustic Partition Roll (APR) (100mm)*

Non-combustible glass mineral wool roll for sound insulation in partitions, linings and ceiling systems

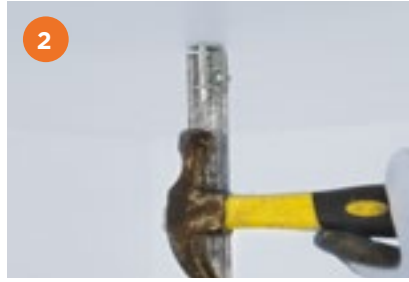
Minimum density: 16 kg/m³

* Available in other thickness and density

Installation overview



Gypframe GA1 Perimeter Angle is fixed to the wall at maximum 600mm centres using Gyproc Hammer Fix Anchor.



Secure Gypframe Soffit Cleat using Gyproc Wedge Anchor.



Gypframe GA1 Steel Angles are pre-cut and secured to the Gypframe Soffit Cleats with Nut & Bolt (supplied).



Gypframe MF7 Primary Support Channels are installed over the Gypframe GA1 Perimeter Angles. Fix hangers (two per fixing) to Gypframe MF7 Primary Support Channel using Gyproc Waferhead Jack-Point Screws.



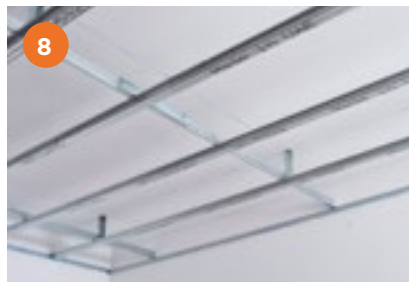
Extend Gypframe MF7 channels by overlapping back-to-back by 150mm minimum and fix together using two Gypframe Waferhead Jack-Point Screws.



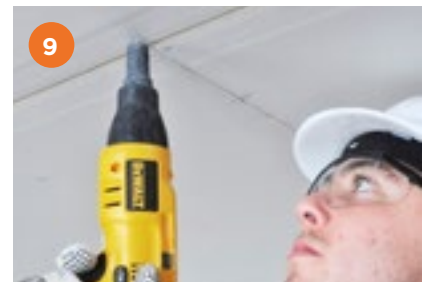
Gypframe MF5 Ceiling Sections are fixed to the underside of the Gypframe MF7 Primary Support Channels to form a grid with two Gyproc Waferhead Jack-Point Screws.



Gypframe MF5 sections closely butted together with a further short (minimum 300mm) section of Gypframe MF5 nested centrally over the joint and fixed using two Gyproc Waferhead Jack-Point Screws to each flange (8 screws in total) to reinforce the splice.



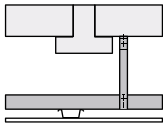
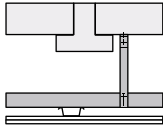
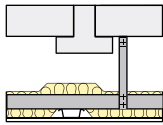
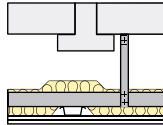
Gyproc boards are fixed to the secondary grid to form single or multi-layer linings as specified.



Board fixings for Gyproc boards should be at 150mm centres at board-ends, and at 230mm centres within the field of the board.

Sound insulation

Table 1 - Gyproc MF upgrading the sound insulation of concrete floors

1		2		3		4	
	Gyproc MF ceiling suspended beneath basic floor to give 240mm cavity. Ceiling linings as in table.		Gyproc MF ceiling suspended beneath basic floor to give 240mm cavity. Ceiling linings as in table.		Gyproc MF ceiling suspended beneath basic floor to give 240mm cavity, with 100mm ISOVER Eco APR in the cavity. Ceiling linings as in table.		Gyproc MF ceiling suspended beneath basic floor to give 240mm cavity, with 100mm ISOVER Eco APR in the cavity. Ceiling linings as in table.

Detail	Board type	Ceiling lining thickness mm	Approx. weight kg/m ²	Sound insulation	
				Airborne R _w dB	Impact L _{nw} dB
1	Regular	1 x 12.5	10	56	68
2	Regular	2 x 12.5	20	58	66
3	SoundBloc	1 x 12.5	16	61	60
4	SoundBloc	2 x 12.5	27	64	57

NB Basic floor construction is a lightweight concrete joist floor with insulated concrete infill panel (surface density of infill is 90 kg/m²) and total depth 150mm. Sound insulation is R_w 35dB (airborne) and L_{nw} 91dB (impact) as tested.

Table 2 - Maximum recommended loads on Gyproc MF Ceiling with 0.5mm suspension framework

Maximum load including weight of board and any insulation kg/m ² (modified load) ¹		Suspension - GA1 hanger centres mm	MF7 channel centres mm
41.4	(33.1)	1000	600
37.8	(30.2)	900	900
24.4	(19.5)	1000	1000
19.1	(15.3)	900	1200
11.1	(8.9)	1200	1200
12.5 ²	(10.0) ²	1200	1200

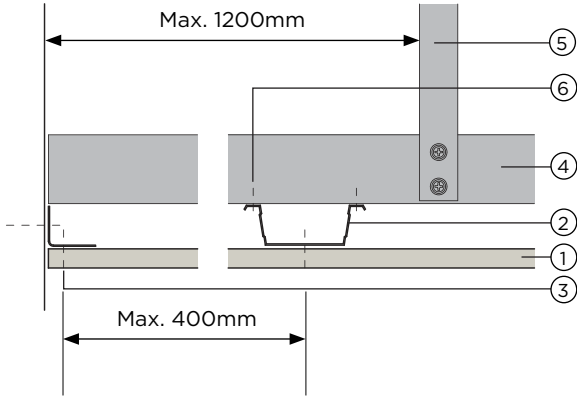
¹ Modified loads are used when Gyproframe GA1 Steel Hangers are fixed to soffit using snip and bend method. Refer to imposed loads in the design sections.

NB Gyproframe MF5 Ceiling Sections are installed at 400mm centres
Maximum loads are based on a limiting deflection of L/400, except for note ² which is based on L/360. Refer to **Products section - Boards** for weights of Gyproc plasterboards.

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

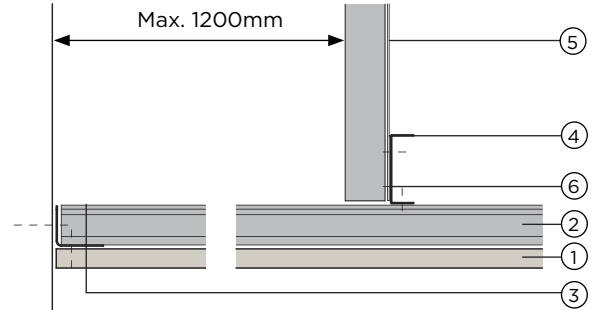
Construction details

1



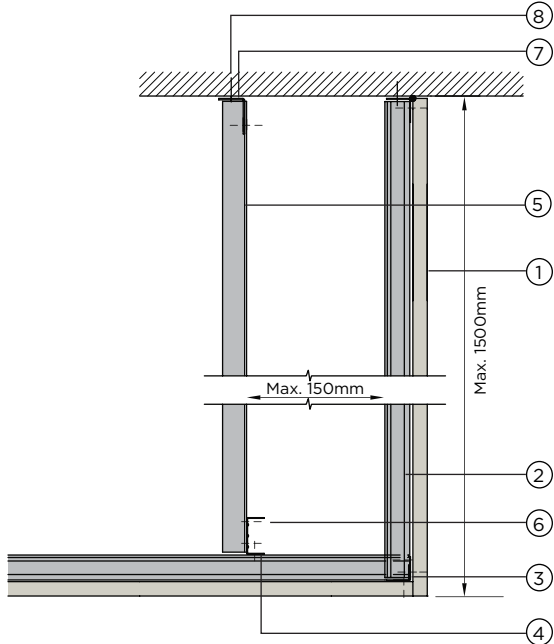
Perimeter detail parallel to Gyproframe MF5

2



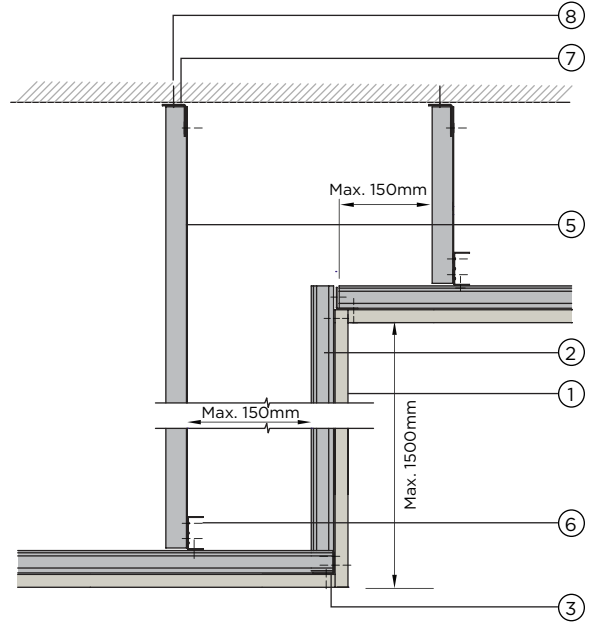
Perimeter detail perpendicular to Gyproframe MF5

3



Bulkhead detail

4



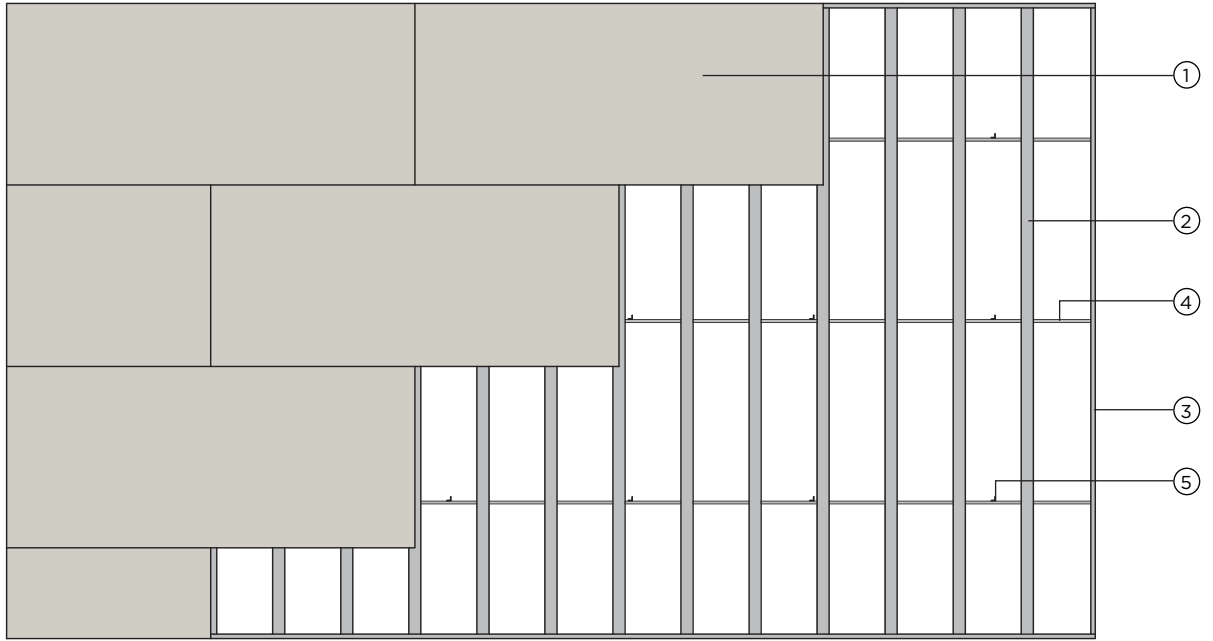
Change of level detail

1. Gyproc plasterboard
2. Gyproframe MF5 Ceiling Section
3. Gyproframe GA1 Perimeter Angle
4. Gyproframe MF7 Primary Support Channel

5. Gyproframe GA1 Steel Angle hanger
6. Gyproc Waferhead Jack-Point Screw
7. Gyproc Soffit Cleat with Nut & Bolt
8. Gyproc Wedge Anchor

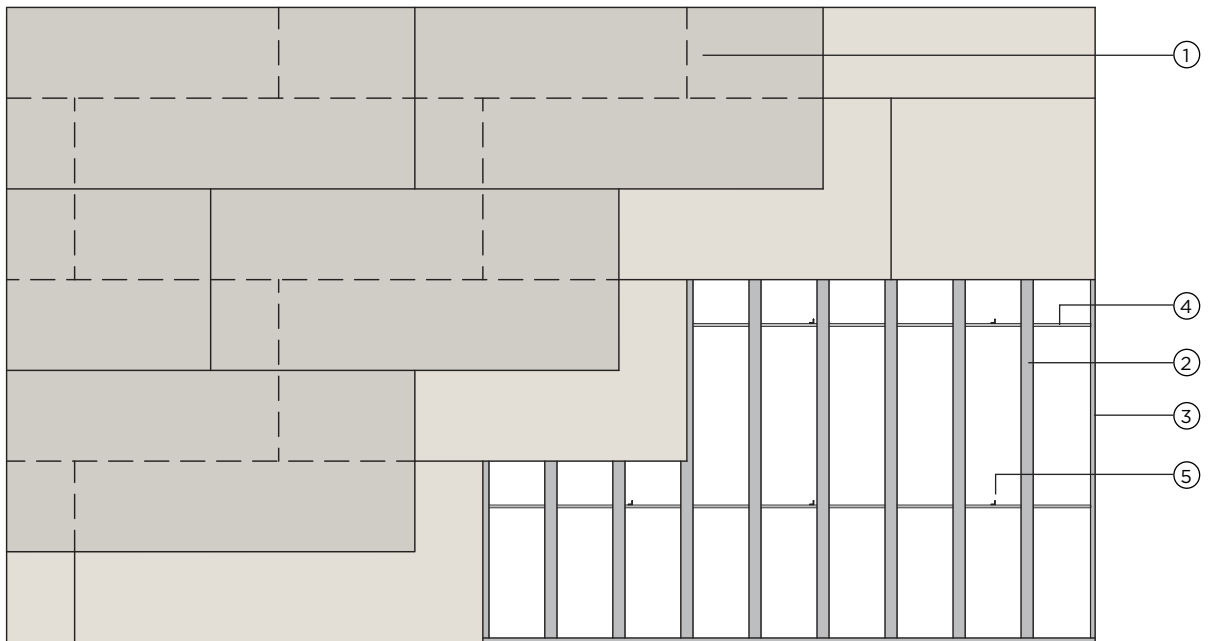
Construction details

5



Reflected ceiling plan - single layer

6

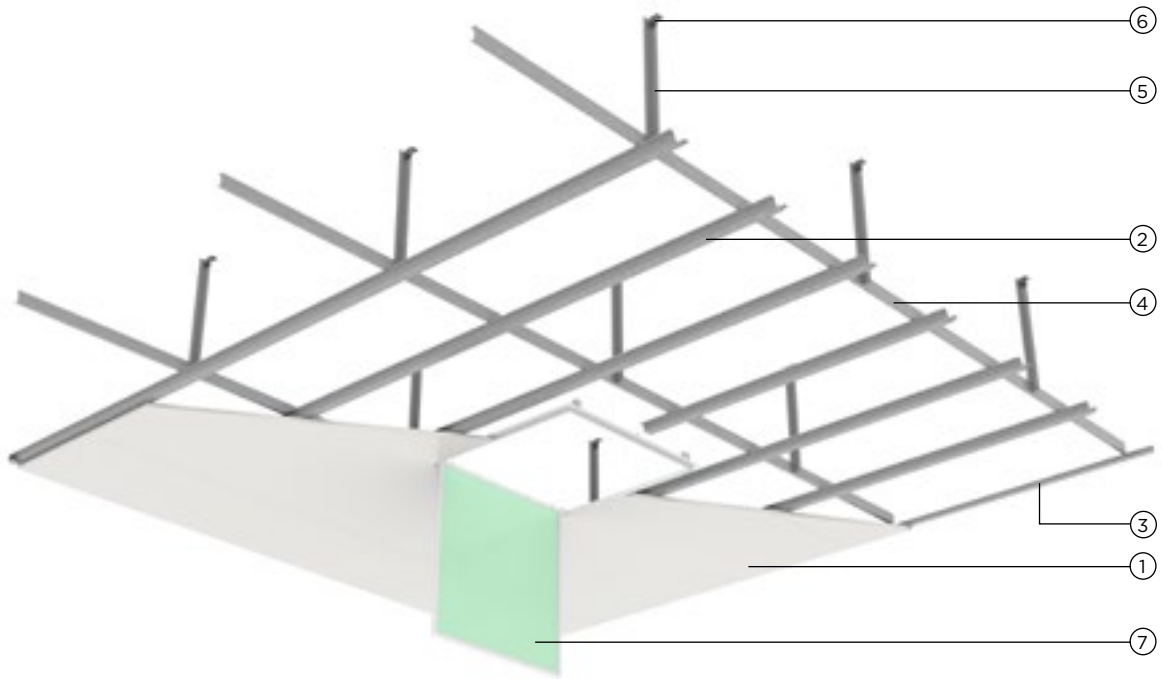


Reflected ceiling plan - double layer

- 1. Gyproc plasterboard
- 2. Gypframe MF5 Ceiling Section
- 3. Gypframe GA1 Perimeter Angle
- 4. Gypframe MF7 Primary Support Channel
- 5. Gypframe GA1 Steel Angle Hanger

Construction details

7



Gyproc Access Panel installation detail

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- | | |
|---|--|
| 1. Gyproc plasterboard | 5. Gypframe GA1 Steel Angle Hanger |
| 2. Gypframe MF5 Ceiling Section | 6. Gypframe Soffit Cleat with Nut and Bolt |
| 3. Gypframe GA1 Perimeter Angle | 7. Gyproc Standard Access Panel |
| 4. Gypframe MF7 Primary Support Channel | |

Notes
