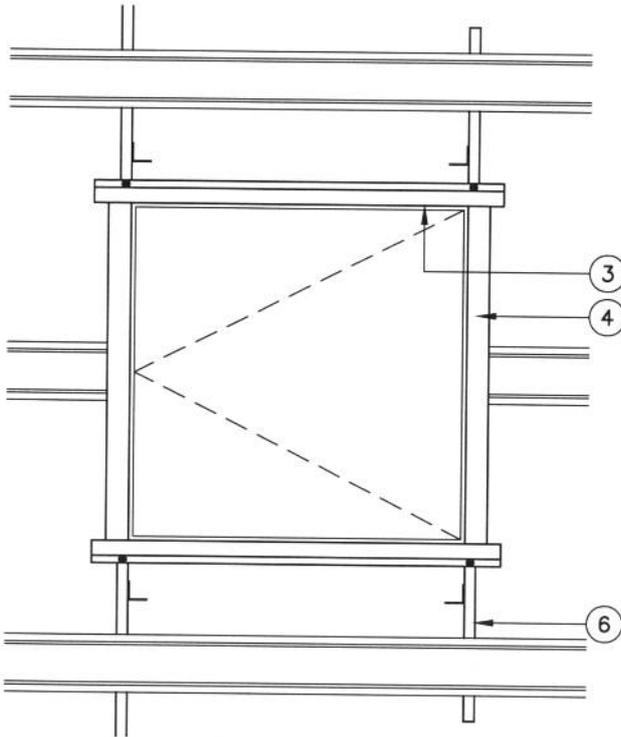


APPENDIX 9

CEILING SPECIFICATION

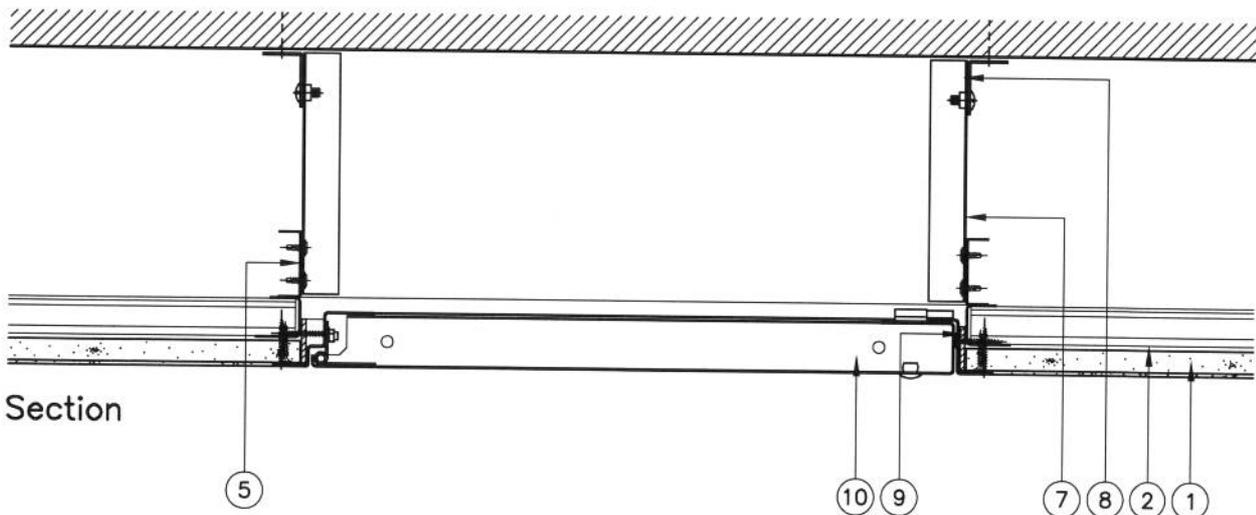
This drawing is provided to customers free of charge and the details shown are subject to the accuracy of the information provided to British Gypsum at the time the drawing was originally requested. No duty of care is owed to the recipient or any other third party and British Gypsum cannot accept liability in respect of the details shown. The drawing should therefore be approved by the project design and management authority before use to ensure that it meets their specific project requirements. It should also be read in conjunction with British Gypsum's current literature available at www.british-gypsum.com. Taping and finishing in accordance with British Gypsum's current recommendations is assumed (with the exception of FireCase system). Please note the drawing may show British Gypsum products fixed by or to products that are non-British Gypsum products/fixings please refer to Specifying Authority for specification details.

CasoLine MF



- 1 1 layer Gyproc plasterboard fixed with British Gypsum Drywall Screws at 230mm centres in field of board & 150mm centres at board ends
- 2 Gypframe MF5 Ceiling Sections at max. 450mm centres fixed to each MF7 with 2 no. British Gypsum Wafer Head Jack-Point Screws or MF9 Connecting Clip
- 3 Gypframe MF6 Perimeter Channel each side of opening & fixed to each MF7 with British Gypsum Wafer Head Jack-Point Screws
- 4 Gypframe MF6 Perimeter Channel each side of opening with ends tabbed, bent & fixed to adjacent MF6 with British Gypsum Wafer Head Drywall Screws
- 5 Gypframe MF7 Primary Support Channels at 1200mm centres
- 6 Additional Gypframe MF7 Primary Support Channel to span across at least one MF5 each side of opening
- 7 Additional Gypframe FEA1 Steel Angle hangers at each corner of opening fixed to MF7 with 2 no. British Gypsum Wafer Head Jack-Point Screws
- 8 Gypframe MF12 Soffit Cleat fixed to hanger with MF11 Nut & Bolt & suitably fixed to soffit
- 9 Suitable packer by others
- 10 Indicative access panel suitably fixed through frame to channel

Framework Reflected Plan (1:10)



Section

Access Panel Opening



Technical Advice Centre
Tel: 0844 800 1991
E-mail: bgtechnical.enquiries@bpb.com

Title:

Access Panels

TYPICAL DETAILS READ WITH PROJECT SPECIFICATION

Scale:	Date:	Drawn:	Dwg No.:	Rev.:
1:5 1:10	Oct 14	MRC	TY-604-ZZZZ-03	

DATA SHEET



Profilex Standard Wall & Ceiling Panel

Specification

Application: Wall and ceilings

Performance: Non-fire rated

Lock: Budget lock

Frame: Beaded frame

Door: Flush metal door

Size (mm): 300X300

Product code: 5200115000

Weight (kg): 3

General information

A general purpose, non-fire rated, beaded frame access panel for application in both walls and ceilings, making access to hidden services quick and easy. This panel is widely specified in Gypframe and MF metal systems as well as being suitable for blockwork construction. It is covered by British Gypsum SpecSure® Lifetime Warranty system, which ensures quality and technical support throughout the building life span. Could serve as a base for any bespoke access panel that is required.

Description

The panel is designed to seamlessly fit within plasterboard as well as masonry constructions. Fitted with a budget lock, flush metal face, manufactured in zinc coated mild steel, 1.2mm gauge, and finished in powder coat etch primer white. It is fitted with a beaded frame for taping and jointing or skim finish for non-visible frame. It is ready for on-site decoration. Gloss white finish available upon request. Foam dust seal fitted to the front of the frame.

Hinge: pin hinge

Door: removable

Dimensions

Panel is manufactured in 6 standard dimensions, further sizes available on request.

Standard dimensions are as follows – hinge side stated first (mm):

300 x 300

600 x 300

450 x 450

550 x 550

600 x 600

900 x 550

1200 x 550

The 550 x 550 panel is specially designed to fit seamlessly into British Gypsum frame systems, i.e. panel size 550mm x 550mm to fit between 600mm stud centres.

Installation

1. Insert frame into prepared aperture. Ensure the pre-cut hole is 10mm larger all around than the panel size.
2. For large size, heavy panels, take the door off.
3. Using screws, fix the frame into the framework / masonry ensuring:
 - The fixings are made using the pre-prepared holes on all 4 sides of the frame - it helps to prevent cracking.
 - When screwing through the beaded frame flange, ensure that the heads of the screws are below the edge of the frame, spaced at 150mm centres.
4. Replace the door if removed. When the door is shut, ensure the gap between the panel and the door is equal all around.

Artek Ltd.
Pasture Lane
Ruddington, Nottingham
NG11 6AE
www.Profilex.co.uk

Standard panels: 0900 0326345 Bespoke panels: 0115 984 5116

DATA SHEET



5. Apply tape directly over where the beaded frame meets the plasterboard (to assist in preventing cracking).
6. Finish with plaster or joint compound
7. Decorate as required.

Fire Ratings

All Profilex Access Panels are tested in accordance with BS476: Part22: 1987. All tests were carried out at The Building Test Centre at British Gypsum, East Leake.

Below summaries our range and certificates

Panel range	Type of protection	EN / BS	Test number
Non-Fire rated access panels	n/a	n/a	No test required – non fire rated
FR1 Wall panels	Integrity	BS	BTC 17168F
FR1 Wall panels	Integrity	BS	BTC 17468F - Panel A
FR1 Wall panels	Integrity	BS	BTC 17468F - Panel D
FR1 Ceiling (Metal faced)	Integrity	BS	BTC 17469F - Panel 3
FR1 Ceiling (Plasterboard faced)	Integrity	BS	BTC 17469F - Panel 4
FR1 Ceiling (Metal faced)	Integrity	BS	BTC 17469F - Panel 5
FR1 Ceiling (Metal faced)	Integrity	BS	BTC 17469F - Panel 6
FR1 Loft Hatch Panel (Metal Faced)	Integrity	BS	BTC 17469F - Panel 1
FR2 panel	Integrity	BS	BTC 2047F

Maintenance

Profilex Access Panels are designed to be maintenance free. An occasional wipe over to remove any marks on the paintwork finish is sufficient. The piano hinge and lock mechanism may be oiled periodically if required, with a standard metal lubricant, to ensure trouble-free door operation.

Spares

A range of spare and replacement parts are available. Please contact Artex Ltd. at the address shown on this leaflet for details of your nearest stockist.

Artex Ltd.
Pasture Lane
Buddington, Nottingham
NG11 5AE
www.profilex.co.uk

Standard panels: 0800 9326346 Bespoke panels: 0115 994 9116



Gyproc Profilex Access Panels

Making access to services quick and easy

Gyproc Proflex Access Panels

Designed for use in both residential and commercial environments, Gyproc Proflex Access Panels provide access to essential building services.

Suitable for use in metal and timber frame systems or masonry backgrounds, Gyproc Proflex panels are available in a wide range of standard sizes and options, including;

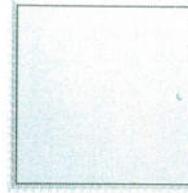
- » 60 minute and 120 minute fire rated panels to meet building performance specifications
- » Wall and ceiling options
- » Loft hatch panels
- » A sealed panel for clean for high humidity or dust-free environments
- » Gyptone panels to maintain Gyptone acoustic ceiling performance and visual aesthetic
- » Smaller plastic handi-access panels for general purpose use



Panel Options

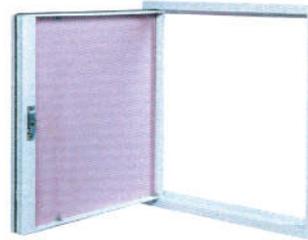
Standard Wall Panel

- General purpose metal access panel for walls & ceilings
- Suitable for plasterboard and masonry construction
- Beaded or picture frame options
- Standard budget lock



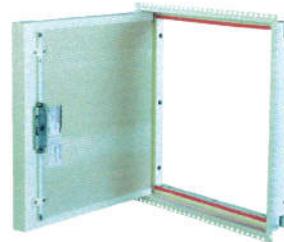
60 Minute Fire Rated (FR1) Panels

- 60 minute fire rated metal panels, available in wall and ceiling formats
- Wall panels include Gyproc FireLine Plasterboard
- Ceiling panels include insulation or plasterboard face
- Ceiling panels over 600x600 include safety chain
- Available in beaded or picture frame options
- Standard budget lock



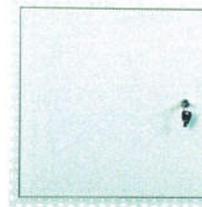
120 Minute Fire Rated (FR2) Wall Panel

- 120 minute fire rated metal panel
- For use in the construction of blockwork or Shaftwall systems
- Beaded frame
- 3 point lock



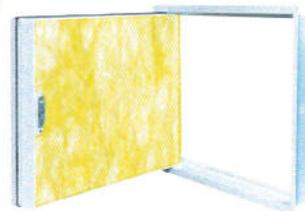
Sealed Panel

- Metal access panel for walls and ceilings
- Designed for areas of high humidity, dust free or clean environments
- Beaded frame
- Tamper proof lock



Standard and 60 Minute Fire Rated (FR1) Loft Hatches

- For access to loft areas
- Non fire rated panel includes a beaded frame and pole operated touch catch lock
- 60 minute fire rated panel includes a picture frame with budget lock



Gyptone Access Panels

- Designed to be used in Gyptone ceiling systems
- Precision cut perforations with a specialist backing provide outstanding sound absorption
- 6 different Gyptone patterns to choose from:



Handi-Access Panels

- Highly versatile and simple to install plastic panels
- Designed for use in plasterboard walls
- Non-fire rated



Standard Access Panel Range

Description	Size (mm)
Gyproc Proflex Standard Wall & Ceiling Panels	300 x 300
	450 x 450
	550 x 550
	600 x 600
	900 x 550
	1200 x 550
	300 x 300
	450 x 450
	550 x 550
	600 x 600
Gyproc Proflex FR1 Wall Panel  60	300 x 300
	450 x 450
	550 x 550
	900 x 550
	1200 x 550
	300 x 300
	550 x 550
Gyproc Proflex FR1 Ceiling Panel  60	300 x 300 Plasterboard doc
	450 x 450 Plasterboard doc
	600 x 600 Plasterboard doc
	900 x 600 Plasterboard doc
	1200 x 600 Plasterboard do
	300 x 300 Metal door
	450 x 450 Metal door
	600 x 600 Metal door
	900 x 600 Metal door
	1200 x 600 Metal door
Gyproc Proflex FR2 Wall Panel   120	550 x 550
Gyproc Proflex Loft Hatch Panel	540 x 540
	540 x 800
Gyproc Proflex FR1 Loft Hatch Panel  60	535 x 535
	535 x 750
Gyproc Proflex Sealed Wall & Ceiling Panel 	450 x 450
Gyproc Proflex Gyptone Ceiling Panel	510 x 510 SIXTO 63
	510 x 510 LINE 06
	510 x 510 QUATTRO 41
	510 x 510 QUATTRO 42
	510 x 510 QUATTRO 46
	510 x 510 QUATTRO 47
Gyproc Proflex Handi-Access Panel	235 x 150
	300 x 300



To order standard panels please contact: **0800 032 6345**

	Frame	Fire rating (mins)	Lock	Weight (kg)	Product code
	Beaded	-	Budget	3	5200115000
	Beaded	-	Budget	5	5200115002
	Beaded	-	Budget	6	5200115003
	Beaded	-	Budget	6	5200600860
	Beaded	-	Budget	9	5200115004
	Beaded	-	Budget	13	5200115005
	Picture	-	Budget	3	5200115018
	Picture	-	Budget	5	5200115020
	Picture	-	Budget	6	5200115021
	Picture	-	Budget	6	5200600861
	Beaded	60	Budget	4	5200115054
	Beaded	60	Budget	8	5200115056
	Beaded	60	Budget	13	5200115057
	Beaded	60	Budget	20	5200115058
	Beaded	60	Budget	26	5200115059
	Picture	60	Budget	4	5200609679
	Picture	60	Budget	13	5200115083
or	Beaded	60	Budget	3	5200115132
or	Beaded	60	Budget	6	5200115133
or	Beaded	60	Budget	10	5200115135
or	Beaded	60	Budget	15	5200115136
or	Beaded	60	Budget	20	5200115137
	Beaded	60	Budget	3	5200115138
	Beaded	60	Budget	6	5200115139
	Beaded	60	Budget	10	5200115141
	Beaded	60	Budget	15	5200115142
	Beaded	60	Budget	20	5200115143
	Beaded	120	3 point lock	15	5200115147
	Beaded	-	Touch catch	7	5200115198
	Beaded	-	Touch catch	10	5200115197
	Picture	60	Budget	7	5200609671
	Picture	60	Budget	11	5200609676
	Beaded	-	Tamper proof	6	5200115185
	-	-	-	4	5200027520
	-	-	-	4	5200027501
	-	-	-	4	5200027502
	-	-	-	4	5200027503
	-	-	-	4	5200027521
	-	-	-	4	5200027522
	Picture	-	-	<1	5200118673
	Picture	-	-	<1	5200118674

Glossary

Beaded Frame

- » For taping and jointing or skim finishing to give a non-visible frame
- » Designed for new wall or ceiling construction
- » Flush metal door ready for decoration



Picture Frame

- » Designed for retrofitting
- » Frame visible after installation



Plaster Frame

- » For two coat plastering to give a non-visible frame
- » Designed for new wall constructions



Budget Lock

- » Basic lock and key for low level security



3 Point Lock

- » Provides a high level of security
- » Locks into 3 sides of the panel
- » Operated by a single key



Tamper Proof Lock

- » Metal lock and key for mid level security



Touch Catch Lock

- » No key lock
- » Push to open

Our Services

- » Free delivery on orders over £50
- » 48 hour delivery service on standard panels*
- » 15 working days lead time for non-standard panels

*Does not include weekends or orders to Northern Ireland, Eire, the Isle of Man, Channel Islands and Scottish Highlands

Contact Us

Standard Access Panels

Tel - 0800 032 6345

Email - artexcustomerservice@saint-gobain.com

Bespoke Access Panels

Tel - 0115 984 9116

Email - commercial.support@saint-gobain.com

Bespoke and Non-Standard Panels

If you can't find what you're looking for, then why not give us a call?

We offer a non-standard service, which includes panels from our standard range, but with different sizes, frames, locks or hinges. If you have a unique or special requirement, we can provide a bespoke service to fit your exact needs.

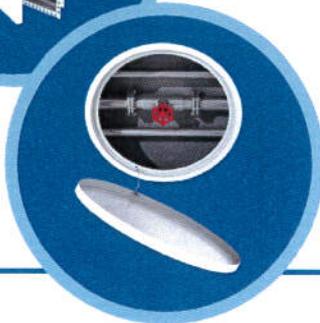
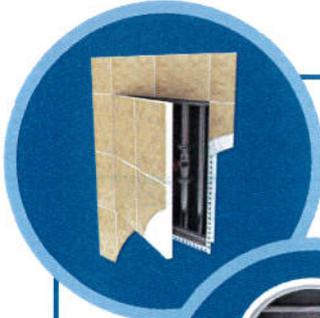
Non-Standard Access Panels Service

Any access panel from our standard range with changes to:

- » Size
- » Lock
- » Hinge
- » Frame

Example options:

- » Enhanced lock options
- » Double lock options



Bespoke Access Panels Service

Any special requirements, for example

- » Bespoke shape
- » Bespoke performance
- » Bespoke locking solution

Example options:

- » Circular access panels
- » Tiled door access panels
- » Double door access panels

How to order Bespoke and Non-Standard Panels

	Non-Standard Access Panels	Bespoke Access Panels
Delivery Lead-Time	Approx. 10-15 working days*	Design dependent
Delivery Charge	Free of charge*	Free of charge*

* UK delivery to site or to your local branch (for orders over £50)

Contact the Bespoke Access Panel Team on **0115 984 9116** to find out more

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For a comprehensive and up-to-date library of information visit the Artex website at: www.artexltd.com.

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Pasture Lane
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0800 032 6345

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CasoLine MF

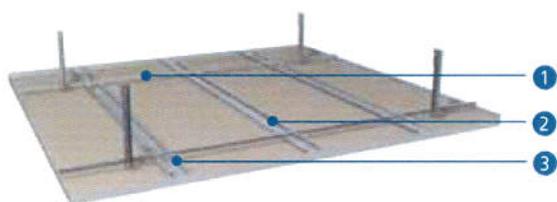
www.british-gypsum.com

Concealed grid MF suspended ceiling system

CasoLine MF is a suspended ceiling system suitable for most internal drylining applications. The grid is fully concealed and the ceiling lining is joint-treated or plastered to present a seamless, monolithic appearance.



Technical support: T 0844 800 1991 F 0844 561 8816 E bgtechnical.enquiries@bpb.com



- 1 Gypframe MF7 Primary Support Channel
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF9 Connecting Clip

Key facts

- Monolithic appearance
- Suspension from concrete or timber floors
- Acoustic hangers provide option of resilient suspension
- Durable ceiling lining
- Ventilation ducts and other services accommodated in plenum
- Access panels provide services access
- Easy to create bulkheads and change levels

Components			Take-off quantities ¹	Arteco ceiling products		Take-off quantities ¹
Gyproc and Glasroc board products				Arteco ceiling products		
	Gyproc WallBoard^{2,3}	Thickness 12.5, 15mm Width 900, 1200mm	100m ²		Arteco Gyptone board products and Arteco Rigitone board products	as required
	Gyproc SoundBloc²	Thickness 12.5, 15mm Width 1200mm	100m ²	Gypframe metal products		
	Gyproc FireLine^{2,3}	Thickness 12.5, 15mm Width 900, 1200mm	100m ²		Gypframe MF5 Ceiling Section Main support section. Prime dimensions 80 x 26mm Gauge 0.5mm Length 3600mm	230m
	Glasroc MultiBoard	Thickness 6, 10, 12.5mm Width 1200mm	100m ²		Gypframe MF6 Perimeter Channel Perimeter support for MF5s. Prime dimensions 20 x 28 x 30mm Gauge 0.5mm Length 3600mm	varies depending on the ceiling perimeter

¹ Quantities are for 100m² of regular shaped rectangular ceiling, with a 1m depth of suspension. Quantities are based on a maximum recommended load on the CasoLine ceiling grid (including the weight of the board) of 30kg/m². MF5 component at 450mm centres. Quantities are approximate for a single layer installation and for guidance only, no allowance has been made for waste.

Refer to section 11 – Quantity take-off details.

² Moisture resistant boards are specified in intermittent wet use areas e.g. shower cubicles.

³ Also available in DUPLEX grades where vapour control is required.

Technical support: T 0844 800 1991 F 0844 561 8816 E bgtechnical.enquiries@bpb.com

Gypframe metal products		Take-off quantities ¹	Gypframe metal products		Take-off quantities ¹	
	Gypframe MF7 Primary Support Channel Primary support for MF5s. Prime dimensions 15 x 45mm Gauge 0.9mm Length 3600mm	83m		Gypframe MF9 Connecting Clip Fixing MF5s to MF7. Gauge 2.65mm	190	
	Gypframe MF8 Strap Hanger Suspension of ceiling grid. Prime dimension 25mm Gauge 0.55mm Length 25m (coil)	64m		Gypframe MF11 Nut and Bolt Joining hanger to soffit cleat. Dimensions 6 x 12mm bolt	100	
or		Gypframe GA1 Steel Angle Width 25 x 25mm Gauge 0.5mm Length 2900mm	64m		Gypframe MF12 Soffit Cleat Suspension point from structural soffit. Prime dimensions 27 x 37 x 25mm Gauge 1.6mm	70
or		Gypframe GAH1 Acoustic Hanger Length 35mm	70	Fixing and finishing products		
		Gypframe GAH2 Acoustic Hanger Length 70mm	where specified		Gyproc Profilex Access Panels For access to the plenum for maintenance purposes.	as required
				Gyproc Drywall Screws For fixing boards to framing up to 0.79mm thick.	1800	

Components		Take-off quantities ¹	Fixing and finishing products		Take-off quantities ¹
Fixing and finishing products			Fixing and finishing products		
	Gyproc Wafer Head Drywall Screws For metal-to-metal fixing up to 0.79mm thick.	as required		Isover Modular Roll For providing acoustic / thermal insulation.	as required
	Gyproc Wafer Head Jack-Point Screws For metal-to-metal fixing 0.8mm thick or greater.	as required		Isover Frame Batt 32 For providing acoustic / thermal insulation.	as required
	Gyproc Sealant For sealing air paths to achieve optimum sound insulation.	1 cartridge per 35m based on 6-10mm bead		Stone Mineral Wool For providing fire performance.	as required
	Thistle Multi-Finish or Thistle Board Finish To provide a plaster skim finish.	10m ² per 25kg bag		Gyproc jointing materials For seamless jointing.	as required
	Thistle Spray Finish Gypsum finish plaster for spray or hand application.	11m ² per 25kg bag	¹ Quantities are for 100m ² of regular shaped rectangular ceiling, with a 1m depth of suspension. Quantities are based on a maximum recommended load on the CasoLine ceiling grid (including the weight of the board) of 30kg/m ² . MF5 component at 450mm centres. Quantities are approximate for a single layer installation and for guidance only, no allowance has been made for waste.		
	Isover General Purpose Roll For providing acoustic / thermal insulation.	as required			

Technical support: T 0844 800 1991 F 0844 561 8816 E bgtechnical.enquiries@bpb.com

Construction tips

- Estimated construction time 1.5m²/ man hour (single layer ceiling) or 1m²/ man hour (double layer ceiling) ready for finishing
- Recommended board size is 900mm x 1800mm. If longer boards are specified, lift and hold against ceiling grid using a suitable board jack
- Ascertain ceiling height required and set out accordingly
- Plan the ceiling layout. Fixing points for suspending the metal grid are required at 1200mm centres in each direction. Suitable fixing devices should be employed when fixing to the structure.
- Make provision for an adequate flexible seal between ceiling and walls to counter shrinkage gaps
- Install services before fixing the framework
- Install a vapour control layer, if required, to reduce the risk of interstitial condensation
- Install cavity barriers where specified
- Steel angle provides a more robust suspension support than strap hangers. Gypframe GA1 Steel Angle is thus the required suspension option when a plaster finish is specified

Construction tips (cont'd)

- The MF ceiling grid will accept a degree of loading. Suspension and MF7 centres may require closing down – refer to the British Gypsum **WHITE BOOK**, available to download from www.british-gypsum.com
- Pre-determine the position of fixtures and fittings. Fixings must be made into the grid or to supplementary framing
- Gypframe acoustic hangers can be used to suspend the grid from timber joists to maximise the degree of acoustic isolation. 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. strap hangers or angle section
- Consider installing a standard or fire-rated Gyproc Profilex Access Panel at access points (600 x 1200mm maximum size)
- Airtightness is essential for optimum sound insulation. Gaps at the perimeter of the ceiling, and other small airpaths, can be sealed using Gyproc Sealant
- Consider sound absorption requirements. Gyptone boards provide sound absorption when used in conjunction with an air space behind a ceiling
- 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

Construction tips (cont'd)

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 Gyproc Wafer Head Jack-Point Screws at each intersection, particularly where non-perforated board linings are specified.

Installation



- Determine the required ceiling level and mark the position of Gypframe MF6 Perimeter Channel on the walls.
- Fix Gypframe MF6 at 600mm centres, using appropriate fixings.
- Mark fixing points of Gypframe MF12 Soffit Cleats to the structure at 1200mm centres (to form a 1200 x 1200mm grid). Secure each cleat using appropriate fixing.
- Pre-cut Gypframe MF8 Strap Hangers or Gypframe GA1 Steel Angle to the approximate depth of suspension required. Pre-punch or pre-drill to facilitate fixing to soffit cleat.



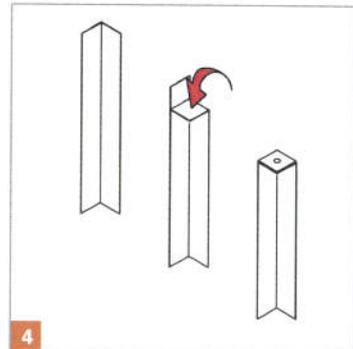
2

- Locate each strap hanger or angle section against a Gypframe MF12 Soffit Cleat and fix using a Gypframe MF11 Nut and Bolt.



3

- Screw-fix to the structure.

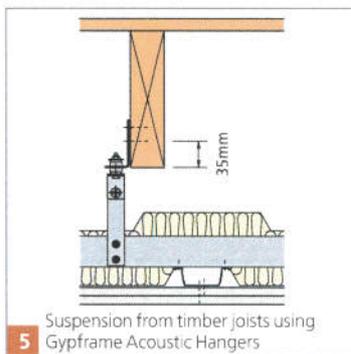


4

- Alternatively, Gypframe GA1 Steel Angle can be cut, bent and drilled to facilitate direct fixing to the structure (maximum loads will be reduced by 25% if using this method).

For double layer ceilings the Gypframe GA1 Steel Angles are fixed at max. 1200mm centres, but the Gypframe MF7s are closed down to 900mm max. centres.

Gypframe GA1 Steel Angles must not be fixed direct to the soffit if the ceiling is likely to deflect, e.g. due to varying pressures.



5 Suspension from timber joists using Gypframe Acoustic Hangers

- Mark fixing points of Gypframe GAH2 Acoustic Hangers to the timber joists at 1200mm centres (to form a 1200mm x 1200mm grid). Secure each hanger using two Gyproc Drywall Timber Screws. Fix a Gypframe MF12 Soffit Cleat to the Gypframe Acoustic Hanger using an M6 Bolt, washers and locking nut.

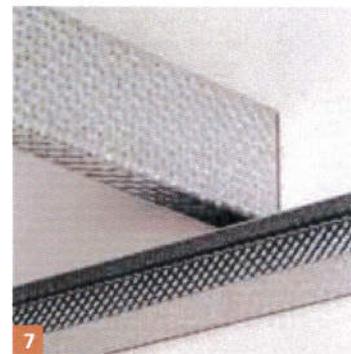


6

Suspension from concrete soffit using Gypframe Acoustic Hangers

- Mark fixing points of Gypframe GAH1 or GAH2 Acoustic Hangers to the structure at 1200mm centres (to form a 1200mm x 1200mm grid). Secure each hanger with a suitable proprietary concrete fixing including steel washers to ensure fixing does not pull through acoustic rubber.

NB When fixing through plasterboard ceiling into timber joist, use suitable wood screw and washers.



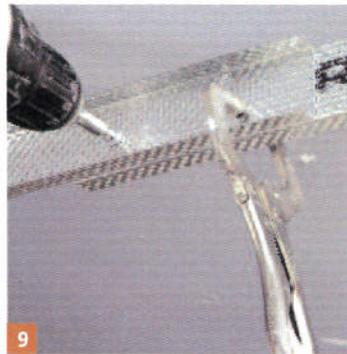
7

- Begin to form the primary grid by fixing the first Gypframe MF7 Support Channel. Rest one end on the top flange of the perimeter channel.



8

- Fix hangers (two fixings per hanger) to Gypframe MF7 Primary Support Channel using Gypframe Wafer Head Jack-Point Screws.



9

- Extend Gypframe MF7 channels by overlapping back-to-back by 150mm minimum and fix together using two Gypframe Wafer Head Jack-Point Screws.
- Fix further Gypframe MF7 channels to complete the primary grid.



10

- Form the secondary grid by running Gypframe MF5 Ceiling Section at right angles to the underside of the primary grid at maximum 450mm[†] centres, engaging into Gypframe MF6 Perimeter Channel at the perimeter.
- Screw-fix the Gypframe MF5 to the Gypframe MF7 using two Gyproc Wafer Head Jack-Point Screws.

[†] MF5 maximum fixing centres are reduced to 400mm for systems providing 120 minutes fire resistance. Please refer to the **WHITE BOOK**, **CasoLine MF** system section for further information and the systems effected.



11

- Alternatively connect Gypframe MF5 to Gypframe MF7 using Gypframe MF9 Connecting Clips.

NB Consider construction tip on page 297 on 'ceiling lift'.



12

- Use a cut piece of Gypframe MF7 (or similar) to facilitate engagement of the second leg of the clip.
- Do not squeeze the Gypframe MF5 Ceiling Section.



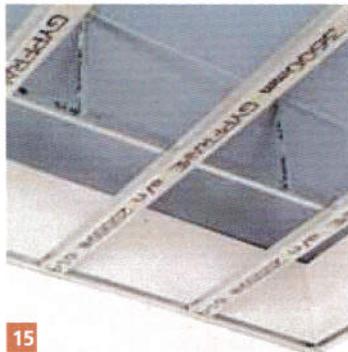
13

- Extend Gypframe MF5 sections (overlapping by 150mm minimum) and crimp or screw-fix twice through each flange.
- Ensure that joins do not occur at the intersection of Gypframe MF5 and Gypframe MF7 sections, otherwise engagement of the Gypframe MF9 clip will be impaired.



14

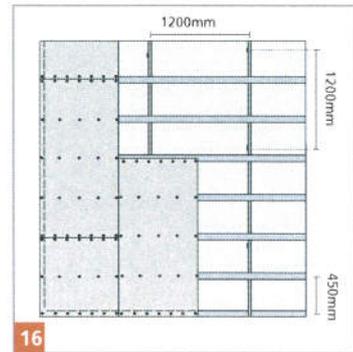
- Install further Gypframe MF5 sections to complete the grid.



15

Fixtures

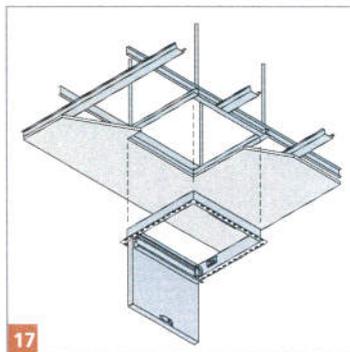
- Install additional Gypframe MF5 section, close down suspension centres or install supplementary framing, as required, to support fixtures and fittings.



16

Fixing Gyproc boards

- Fix boards to Gypframe MF5 sections with long edges at right angles to the framing using Gyproc Drywall Screws. Lightly butt board ends inserting fixings not closer than 10mm from bound board edges and 13mm from cut edges. Stagger end joints.
- Insert screws at 230mm maximum centres in the field of boards and 150mm maximum centres at board ends.



- For double layer linings stagger board joints in the second layer relative to the first.
- **NB** Consideration should be given to any unevenness of the perimeter walls. The high and low spots could be established by use of a chalk line and the framing out and boarding procedure should be adjusted accordingly.

Installing access panels

- Fix a standard or fire-rated Gyproc Profilex Access Panel, if specified (see Section 12 – Products).

Services

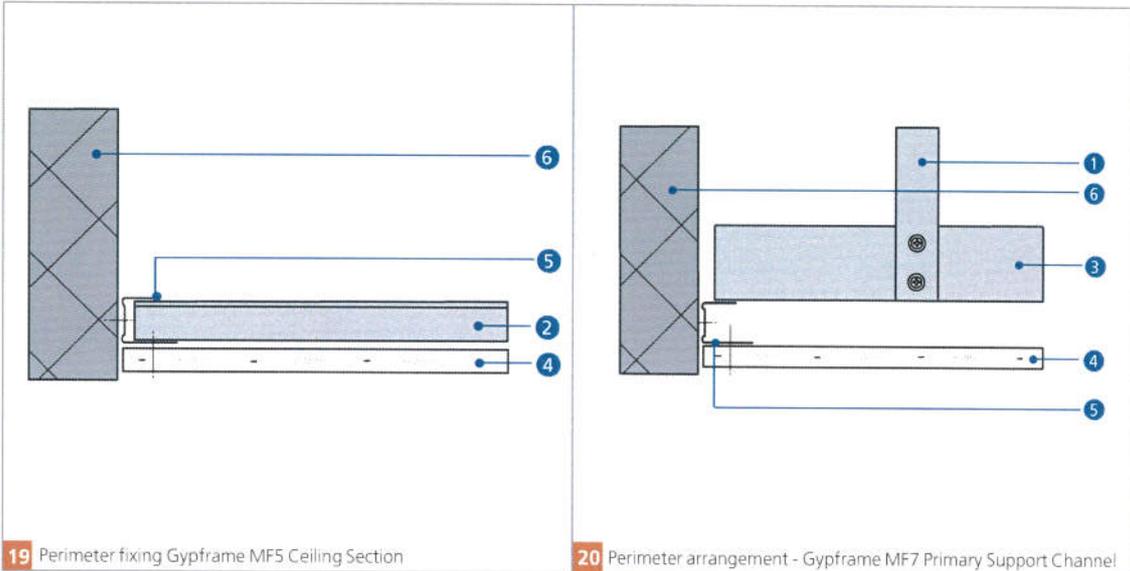
- Route all services including ducting, pipework, electrical cables and conduit, within the plenum.
- **NB** Consideration must be given to maintaining the integrity of the ceiling to meet fire resistance and sound insulation requirements.



Fixing Gyptone and Rigitone boards

- For installation details covering Artego Gyptone and Artego Rigitone boards, refer to the British Gypsum Ceilings Installation Guide, available to download from www.british-gypsum.com

Junction details

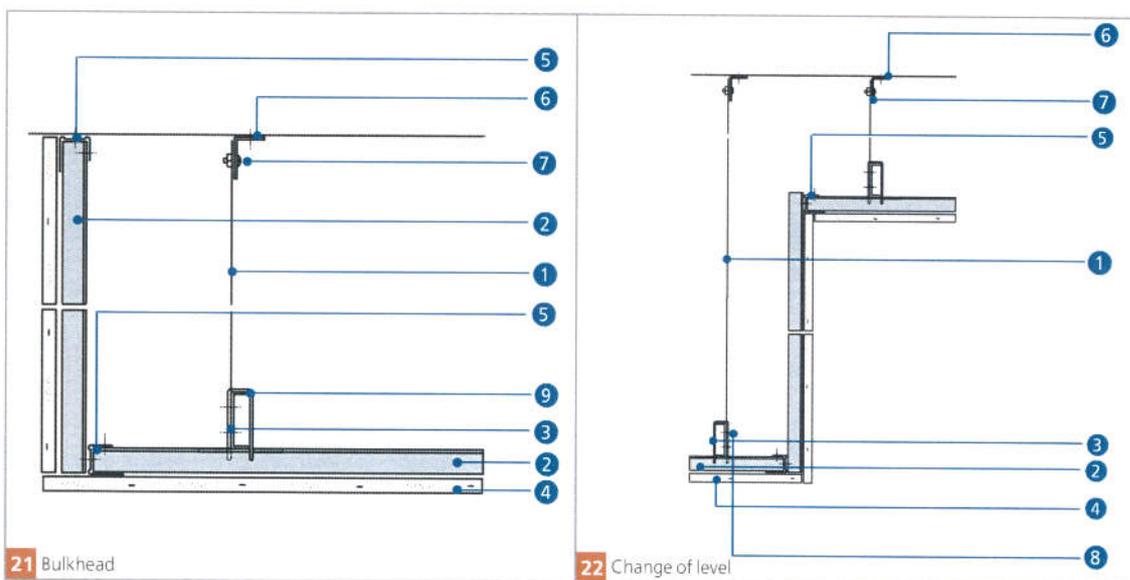


19 Perimeter fixing Gypframe MF5 Ceiling Section

20 Perimeter arrangement - Gypframe MF7 Primary Support Channel

- 1 Gypframe MF8 Strap Hanger or Gypframe GA1 Steel Angle
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF7 Primary Support Channel
- 4 Ceiling boards

- 5 Gypframe MF6 Perimeter Channel
- 6 Wall structure



21 Bulkhead

- 1 Gypframe MF8 Strap Hanger or Gypframe GA1 Steel Angle
- 2 Gypframe MF5 Ceiling Section
- 3 Gypframe MF7 Primary Support Channel
- 4 Ceiling boards
- 5 Gypframe MF6 Perimeter Channel

22 Change of level

- 6 Gypframe MF12 Soffit Cleat
- 7 Gypframe MF11 Nut and Bolt
- 8 Gyproc Wafer Head Jack-Point Screw
- 9 Gypframe MF9 Connecting Clip