DriLyner Fix
Identification

Upgrade the comfort and energy efficiency of your home

DriLyner Fix lets you make existing walls more energy efficient by fixing Gyproc plasterboards or Gyproc ThermaLine directly onto masonry and plastered backgrounds. Choose from plasterboards such as Gyproc WallBoard Duplex, which includes a vapour control layer, or achieve the U-values you need with our range of thermal laminates.

This lining system is ideal where the background surface has minor irregularities. It also reduces thermal bridging by using gypsum adhesive between the Gypframe channel and masonry background.

This system can be skim finished with ThistlePro® PureFinish which contains ACTIVair®. ACTIVair makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.

ACTIV air

U-values
0.35-0.17
W/m²K

Why specify DriLyner Fix?

Allows you to fix Gyproc plasterboard, including Gyproc WallBoard Duplex which has a vapour control layer, and Gyproc ThermaLine directly to masonry backgrounds using gypsum adhesive dabs and Gypframe channels.

Achieves a wide range of U-values using Gyproc ThermaLine laminates

Can contribute towards improved energy efficiency

Services can be installed without chasing masonry wall

Reduces thermal bridging by using gypsum adhesive between the Gypframe channel and masonry background

Lets you conceal minor surface irregularities within the drylining cavity formed by the gypsum adhesive dabs

SpecSure®
BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within these systems that qualify for our **SpecSure®** warranty. For more information see **british-gypsum.com/specsure**

For illustrative purposes only.

© British Gypsum, 2024.

DriLyner Fix

Design considerations

Condensation and water vapour resistance

Gyproc WallBoard Duplex and Gyproc ThermaLine Plus and PIR offer significant resistance to water vapour transmission. Applying two coats of Gyproc Drywall Sealer to Gyproc WallBoard, Gyproc Moisture Resistant or Gyproc ThermaLine Basic after installation and jointing provides a water vapour resistance of at least 15MNs/g. Installing Gyproc WallBoard Duplex or Gyproc ThermaLine with integral vapour control, or adding a vapour control layer treatment, such as two coats of Gyproc Drywall Sealer, significantly reduces the risk of interstitial condensation. It is essential that particularly in new buildings, external walls are properly dried out before a vapour control layer is installed. If the walls are not dry, then moisture can be trapped, reducing the overall performance.

Best practice

Apply a continuous coat of 6mm Gyproc SoundCoat Plus to the masonry face before the installing DriLyner systems This will seal hidden air paths often found in mortar joints between blocks or bricks. For improved acoustic performance, the Gyproc SoundCoat Plus should not be trowelled smooth.

Solid masonry wall – internal insulation

With reference to hygrothermal properties of building components within modelling software, and to comply with BS 5250, we recommend you seek specialist guidance, before installing internal insulation to solid masonry walls, to determine the effects of condensation and moisture within the building fabric. Refer to BS 5250 ‘Management of moisture in buildings. Code of practice’ and BS EN 15026 ‘Hygrothermal performance of building components and building elements - assessment of moisture transfer by numerical simulation’. PAS 2035: 2019 requires a Retrofit Assessment to be carried out. These include an Energy Assessment, an Occupancy Assessment and a Condition Assessment. A qualified Retrofit Assessor should assess whether the proposed internal wall insulation (IWI) system is suitable for specific wall constructions , e.g. solid masonry and more specifically it’s water absorption properties. External climate conditions, exposure to wind-driven rain, solar gain and the physical properties of the brick/ stone are the main parameters for assessing hygrothermal performance. It is the Assessor's responsibility to determine suitability of installing IWI to solid masonry walls.

Planning — key factors

Predetermine the positioning and installation of service penetrations and heavy fixtures before the installation stage. All penetrations need fire stopping. In general, make an allowance of the plasterboard thickness plus minimum 20mm from the high point of the background to the face of the lining. This will determine the lining dimension needed at door and window reveals and soffits. Install ceilings before installing DriLyner Fix, ensuring that the boards are cut close to the wall.

Install interior partitions abutting the inner leaf of the external wall before installing DriLyner Fix, where fire and acoustic performance are key. This will help reduce flanking transmission. If Gyproc WallBoard Duplex is specified, use the DriLyner Fix system. When using DriLyner Fix on pre-plastered walls, surfaces must be reasonably flat, dry, sound, or fair-faced concrete, brick, or block walls. Or, if the surface is friable, consider using a mechanically fixed system such as GypLyner Single. See page 6.27.

Backgrounds

Only install DriLyner linings on backgrounds that are reasonably dry and protected from the weather.

Where the wall is not pre-plastered, fix linings directly to low, medium, and high suction masonry, as well as pre-cast and in-situ normal ballast aggregate concrete, using Gyproc DriWall Adhesive. Concrete walls must be free of release agents and will need to be brushed down to remove dust, and slightly dampened with a wet brush before applying adhesive dabs. Concrete which is exceptionally dense or smooth, or made with limestone, brick or granite aggregates, should be pre-treated with Thistle Bond-it, applied in bands to correspond with the adhesive dab centres and in accordance with our application instructions. Variations in moisture content will lead to differences in its suction characteristics. Take extra care when these are extreme, either with slow drying conditions, or dry, hot conditions. If wet, allow the backgrounds to dry out. In dry, hot conditions, take care to avoid rapid loss of moisture before the set of the adhesive.

When a considerable quantity of moisture is present in a building, due to the condition of the building fabric or to prolonged damp weather, consider dehumidifiers or appropriate heating and ventilation to speed up the drying-out process. Installing linings before the building is dry can have adverse effects on both the building and the lining. When installing DriLyner linings to composite wall structures consisting of concrete columns with infills of brick or block, locate dabs of adhesive on the columns, but only on the brick or block infill areas. This will reduce the likelihood of cracking of the finished lining down to differential movement.

Adhesive dabs

Apply dabs in a regular pattern in accordance with BS 8000-8 to give a minimum area of contact between board and background of 20%.

Services

Use cavities between the wall and the lining to incorporate services. This minimises the depth of chasing required in the wall. Fix pipes and conduits in position before lining work commences. Install gas pipes in accordance with BS 6891, which requires pipes to be fully encased, e.g. using Gyproc DriWall Adhesive. Maintain an airtight construction through any penetration through the lining by sealing as necessary as the services are being installed. Do not chase the laminates insulating backing to accommodate services. PVC covered cables must not come into direct contact with polystyrene insulation. Suitable isolation methods such as conduit or capping should be used. Carry out the installation of electrical services in accordance with BS 7671.

Cavity barriers

Building Regulations may require the provision of vertical cavity barriers to long runs of lining. A suitable cavity barrier can be formed using a continuous vertical line of dabs running down the centre of a board.

Important note

Ensure walls are damp free before installing any DriLyner system.

Looking for performance selection tables?

We’re committed to providing technical information that is transparent, clear, accurate, and always up-to-date. So you can rely on it when making decisions at any stage of the design, specification, installation, use, maintenance and disposal process.

All performance data is now available to view and download on our website.

british-gypsum.com/drilyner-fix

DriLyner Fix
Design considerations

Thermal properties

Gyproc linings are relatively lightweight and have a low thermal capacity. In intermittent heating conditions, they will warm up quickly providing comfortable conditions for the occupants. This also helps reduce the risk of surface condensation. Gyproc WallBoard Duplex and Gyproc ThermaLine PIR are manufactured with low emissivity backings, improving thermal resistance of adjacent cavities. For further information on U-values please please refer to Technical Support on **british-gypsum.com**

Thermal performance

Uncontrolled air movement through the cavity can result in excessive heat loss. When the lining is designed to act as an air barrier to achieve airtightness, seal all perimeters to the wall and around any services and openings with a continuous fillet/ribbon of Gyproc DriWall Adhesive or Gyproc Sealant.

For further information on U-values please refer to Technical Support on **british-gypsum.com**

Sound insulation

Airtightness is essential for optimum sound insulation. Whilst most wall junctions will be sealed by standard installation and finishing processes, gaps at the base and other small air paths can be sealed using Gyproc Sealant.

Window and door reveal

When using Gyproc WallBoard or Gyproc ThermaLine in the DriLyner Fix system, to reduce standoff, line the reveals with narrow widths of board. Bond directly to the background with Gyproc DriWall Adhesive.

Looking for performance selection tables?

We're committed to providing technical information that is transparent, clear, accurate, and always up-to-date. So you can rely on it when making decisions at any stage of the design, specification, installation, use, maintenance and disposal process.

All performance data is now available to view and download on our website.

british-gypsum.com/drilyner-fix

Fixtures

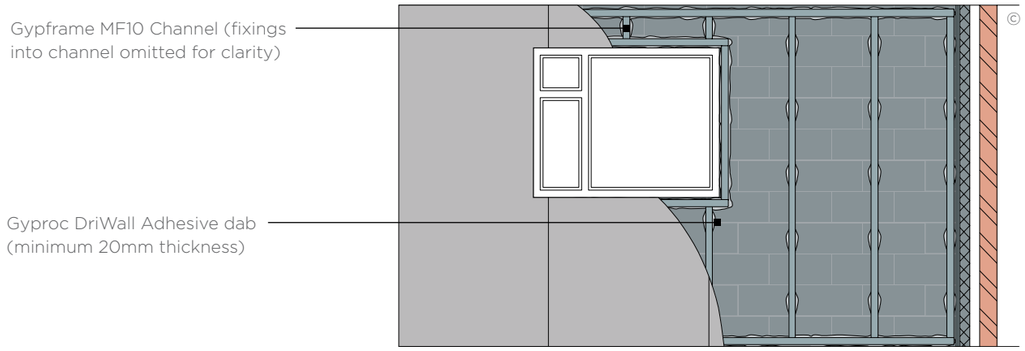
Lightweight fixtures can be made directly to the lining. For heavier fixtures, the fixing used should be long enough to bridge the drylining cavity, adequately penetrating the solid wall. Refer to Service installations in system design principles on **british-gypsum.com**

Tiling

Tiling should only begin seven days after installation. Refer to **british-gypsum.com** for our full range and guidance on our tiling-related products.

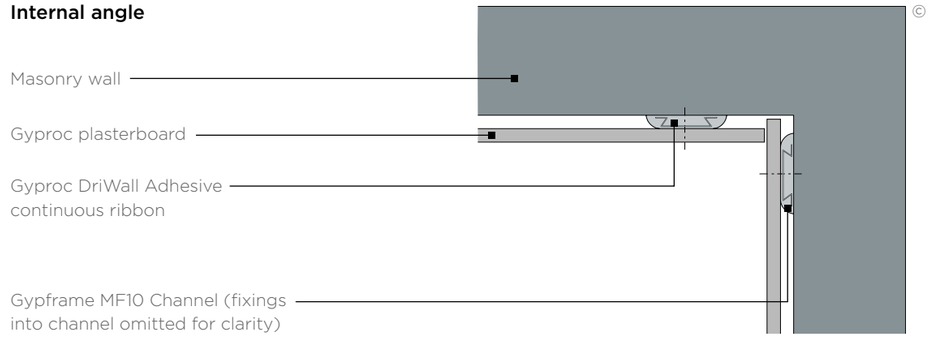
DriLyner Fix
Construction details

1. Wall elevation
Gyproc WallBoard 12.5mm thick, 1200mm wide



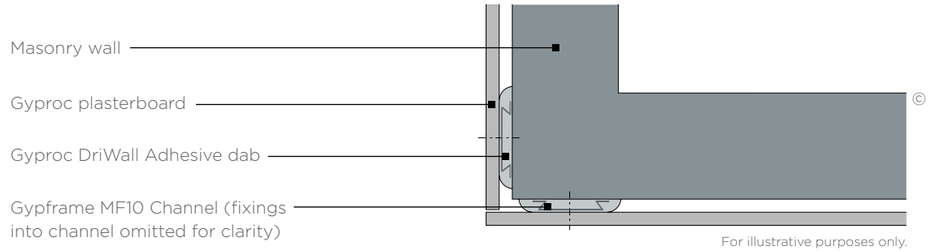
For illustrative purposes only.

2. Internal angle



For illustrative purposes only.

3. External angle



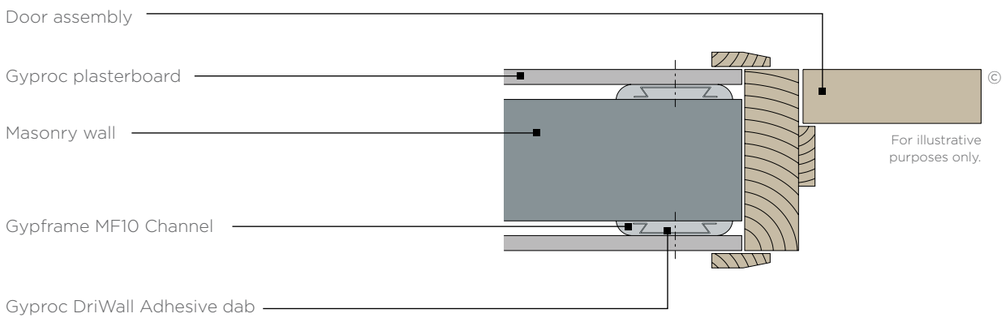
For illustrative purposes only.

© British Gypsum, 2024.

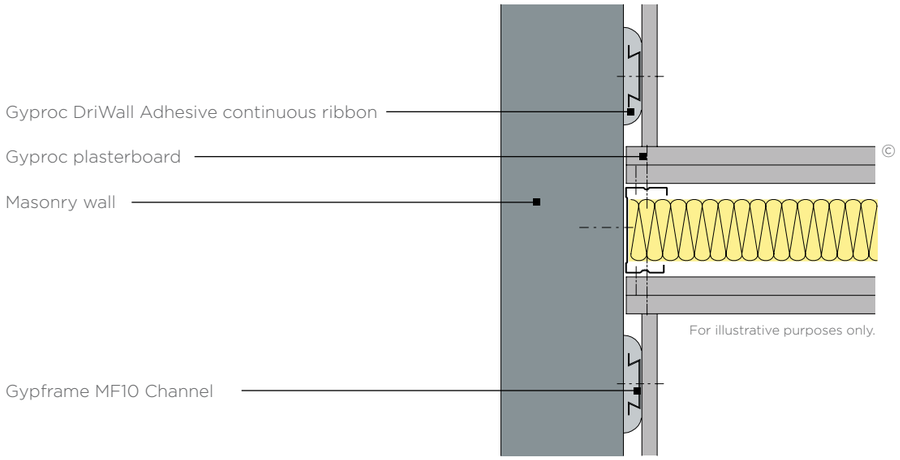
DriLyner Fix

Construction details

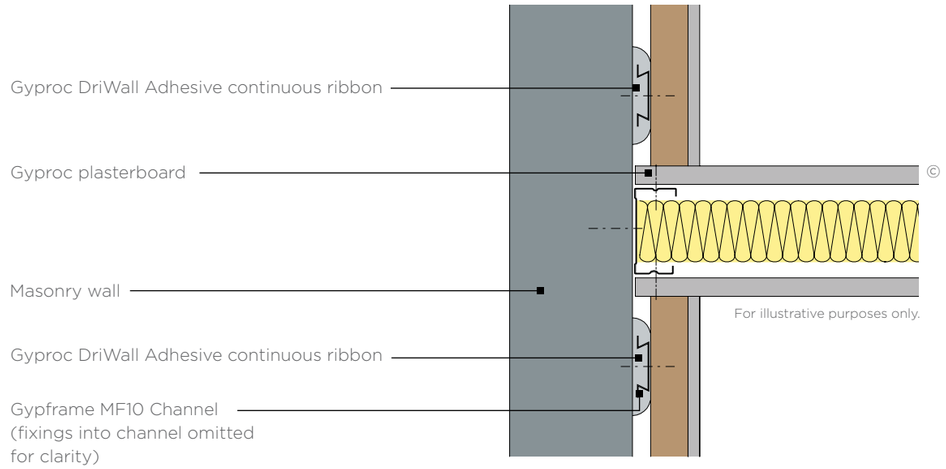
4. Door frame



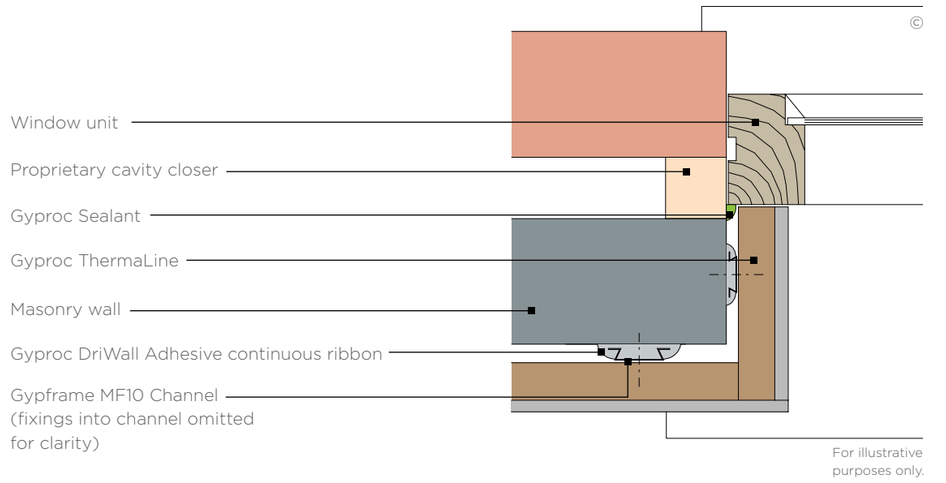
5. Junction with GypWall Single Frame



6. Junction with GypWall Single Frame



7. Window reveal



© British Gypsum, 2024.

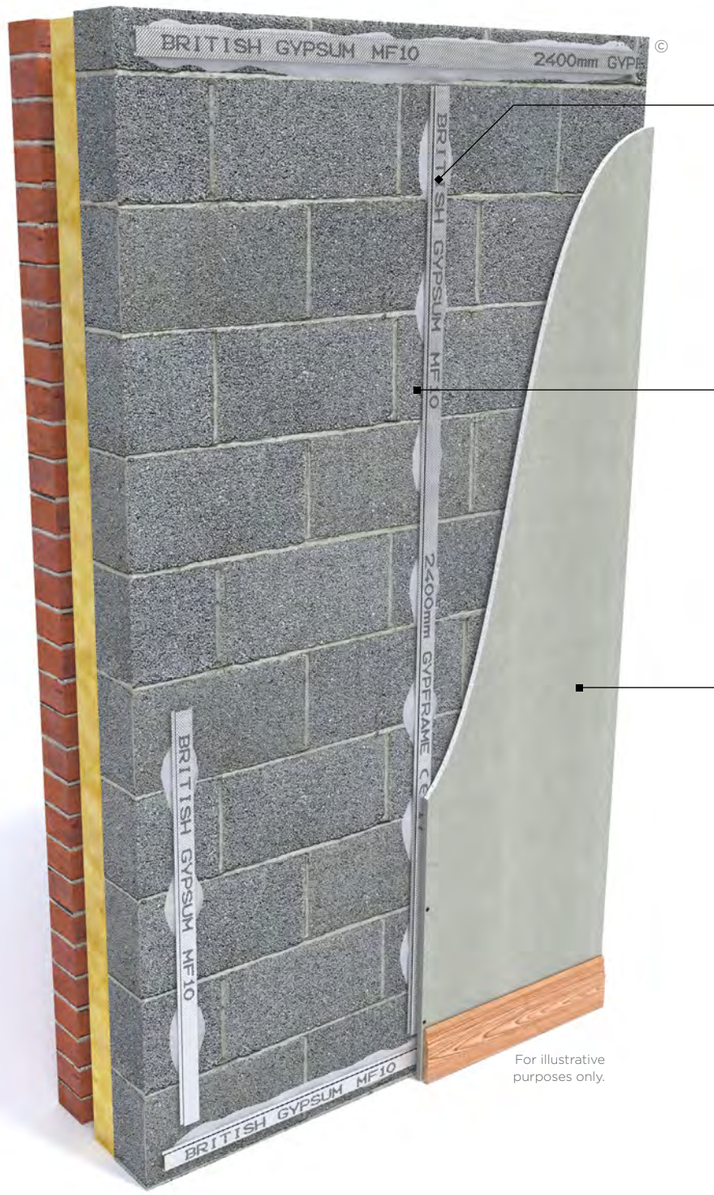
© British Gypsum, 2024.

Wall linings

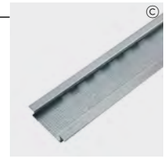
DriLyner Fix

System components

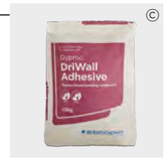
Upgrade the comfort and energy efficiency in your home with our DriLyner Fix lining system.



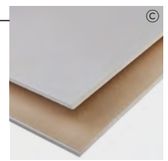
For illustrative purposes only.



Gypframe MF10 channels
A steel framed lining component to support board fixing attached to the vertical background using Gyproc DriWall Adhesive.



Gyproc DriWall Adhesive
Gyproc DriWall Adhesive is a gypsum-based bonding compound for 'dot and dab' fixing of plasterboards to masonry backgrounds. Use it to direct bond plasterboards and thermal laminates to masonry walls with high, medium or low suction.



Gyproc WallBoard
Gyproc WallBoard is a basic plasterboard. Use it in a single layer for most wall and ceiling applications where minimal levels of fire, structural and acoustic performance are specified, or in multiple layers for higher performance.

Gyproc WallBoard Duplex
Gyproc WallBoard Duplex is a plasterboard backed with a vapour control membrane. Use it to control condensation risk where warm and cold elements of walls and ceilings interact, such as external wall and room in the roof situations.

© British Gypsum, 2024.

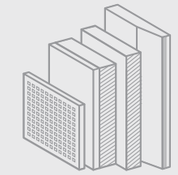
SpecSure®
BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within these systems that qualify for our **SpecSure®** warranty. For more information see **british-gypsum.com/specsure**

© British Gypsum, 2024.

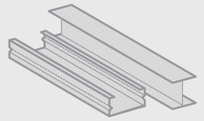
Careful product choice is central to maintaining system integrity, performance requirements and eligibility for our **SpecSure®** warranty. **Ensure an optimum standard of build by considering...**

What are you fixing?



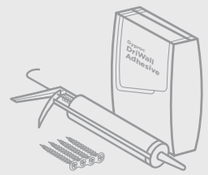
Our market leading range of plasterboards and thermal laminates for Wall lining systems within any building type. See **british-gypsum.com** for more details.

What are you fixing to?



Our Gypframe metal profiles provide a strong and versatile structure forwall lining systems. See **british-gypsum.com** for more details.

What are you fixing with?



Our DriWall Adhesives, Sealants and fixings offer guaranteed compatibility with our wall lining systems, and are rigorously tested to meet the highest quality standards. See **british-gypsum.com** for more details.

What are you finishing with?

Plaster

Our wide range of Thistle plasters and Thistle accessories give you everything you need to finish a job to the highest possible standard. See **british-gypsum.com** for more details..

Finishing products

Our Gyproc jointing range gives you everything you need to completea wall lining system, whatever the size and complexity of the project see **british-gypsum.com** for more details

Where defined performance requirements are needed see our White Book Specification Selector on british-gypsum.com

DriLyner Fix
Installation

The information below is intended to be a basic description of how the system is built.

Mark the board edge positions on the wall or plasterboard to aid the correct and accurate application of the Gyproc DriWall Adhesive.

Apply a continuous fillet / ribbon of Gyproc DriWall Adhesive to the wall perimeter and around all services and openings. This is particularly important if the lining is designed to act as an air barrier to achieve building airtightness.

Apply Gyproc DriWall Adhesive methodically in a specific dab pattern to the appropriate background.

Position Gypframe MF10 Channels onto the adhesive dabs and tap into position. Locate horizontal channels at the head and base using the same method.

Use British Gypsum Drywall Screws to fix Gyproc plasterboards to the Gypframe MF10 Channel. Ensure correct length of screw is used to prevent thermal bridging.

Alternatively, when installing Gyproc ThermaLine, gun-apply a continuous bead of Gyproc Sealant to the Gypframe MF10 Channels just prior to positioning the boards. Then use three British Gypsum Drywall Screws into each tapered edge to fix the boards.

© British Gypsum, 2024.

© British Gypsum, 2024.