

GypLyner Single

Identification

Enhance the energy efficiency and acoustic comfort of your environment with our metal framed lining system

GypLyner Single is a cost-effective, virtually independent metal wall lining system. It's especially useful where the external wall or substrate is very uneven or out of plumb. Because the framework creates a cavity between the background wall and the lining, it boosts acoustic and thermal performance. You can even improve the wall's water vapour resistance by adding Gyproc Duplex board, which uses a vapour control membrane.

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.



Why specify GypLyner Single?

Comes with our **SpecSure®** lifetime warranty

Reduces sound transmission by between 49 and 66 R_wdB (indicative based on upgrade to existing solid masonry wall)

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

Provides a solution for backgrounds unsuitable for bonded systems, such as plasters or DriLyner systems

Allows easy installation of services

Heats quickly and responds to the surrounding temperature when using Gyproc thermal laminates

Improves walls' water vapour resistance when you use Gyproc Wallboard Duplex board, which has a vapour control membrane



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



For illustrative purposes only.

You may also be interested in...



GypLyner Independent
A lightweight, non-loadbearing lining system that's built independently of the external wall construction. It's particularly suitable when you can't fix to the background. **See page 6.37.**

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Design considerations

Determine cavity depth by positioning the Gypframe GL2 or GL9 Brackets at 800mm vertical centres and 600mm horizontal centres (to support the Gypframe GL1 Channel).

Planning – key factors

Allow for a stand-off of 25mm to 75mm plus the lining thickness for Gypframe GL2 Brackets, and 25mm to 125mm plus the lining thickness for Gypframe GL9 Brackets. These stand-offs are sufficient to correct irregularities normally encountered in solid backgrounds. The stand-off will determine the lining dimension needed at door and window reveals and soffits. Install ceilings before installing GypLyner Single wall linings. Any abutting partitions should also be installed before GypLyner Single is installed.

Important

Walls must be free from dampness before any GypLyner system is installed.

Cavity barriers

Where cavity barriers are required to long runs of lining, a minimum of 12.5mm Gyproc plasterboard, cut to cavity depth and screw-fixed to the leg of Gypframe GL1 Lining Channel, will provide a satisfactory cavity barrier.

Thermal performance

Uncontrolled air movement through the cavity can result in excessive heat loss. Good levels of thermal insulation can be achieved when Gyproc ThermaLine is specified as the lining. A slight risk of pattern staining may occur, where temperature, humidity, and soiling conditions are extreme. For further information on U-values please refer to Technical Support on british-gypsum.com

Handy hint

If horizontal board joints are necessary, stagger between layers by a minimum of 600mm, to avoid downgrading performance. For alternative stud types/sizes, to increase maximum partition height, further options are available. Refer to the White Book Specification Selector on the British Gypsum website.

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/gyplyner-single



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, will provide a water vapour resistance of at least 15MNs/g. Doing this, or using a vapour control layer (VCL), significantly reduces the risk of interstitial condensation. It is important, particularly in new buildings, that external walls are properly dried out before a VCL is installed, otherwise moisture may be trapped, impairing performance.

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.

Wall lining rigidity

Position Gypframe GL2 or Gypframe GL9 Brackets equidistant at maximum 800mm vertical centres. Where there is a requirement for increased rigidity, reduce these centres, although acoustic performance may be downgraded. We recommend Gypframe GL11 GypLyner Anchors for fixing brackets to the solid background.

Services

Use the cavity between the GypLyner framework and the background to install services. Fix pipes and conduits in position before installing the GypLyner Single frame. Maximum cavity depths (substrate surface to the back of the lining board) of 75mm or 125mm can be achieved using Gypframe GL2 or GL9 Bracket respectively. When installing Gyproc Thermal Laminates, the insulation should not be chased to accommodate services. PVC covered cables must not come into contact with polystyrene insulation. Suitable isolation methods such as conduit or capping should be used.

Fixtures

Lightweight fixtures can be installed directly to the partitions. Medium weight fixtures can be made to Gypframe 99 FC 50 Fixing Channel. Heavyweight fixtures to BS 5234, e.g. cupboards, can be fixed using plywood secured with Gypframe Service Support Plates. Refer to Acoustic performance and Service installations in Section 2.

Board finishing

Refer to british-gypsum.com for our full range and guidance surrounding board finishing products.

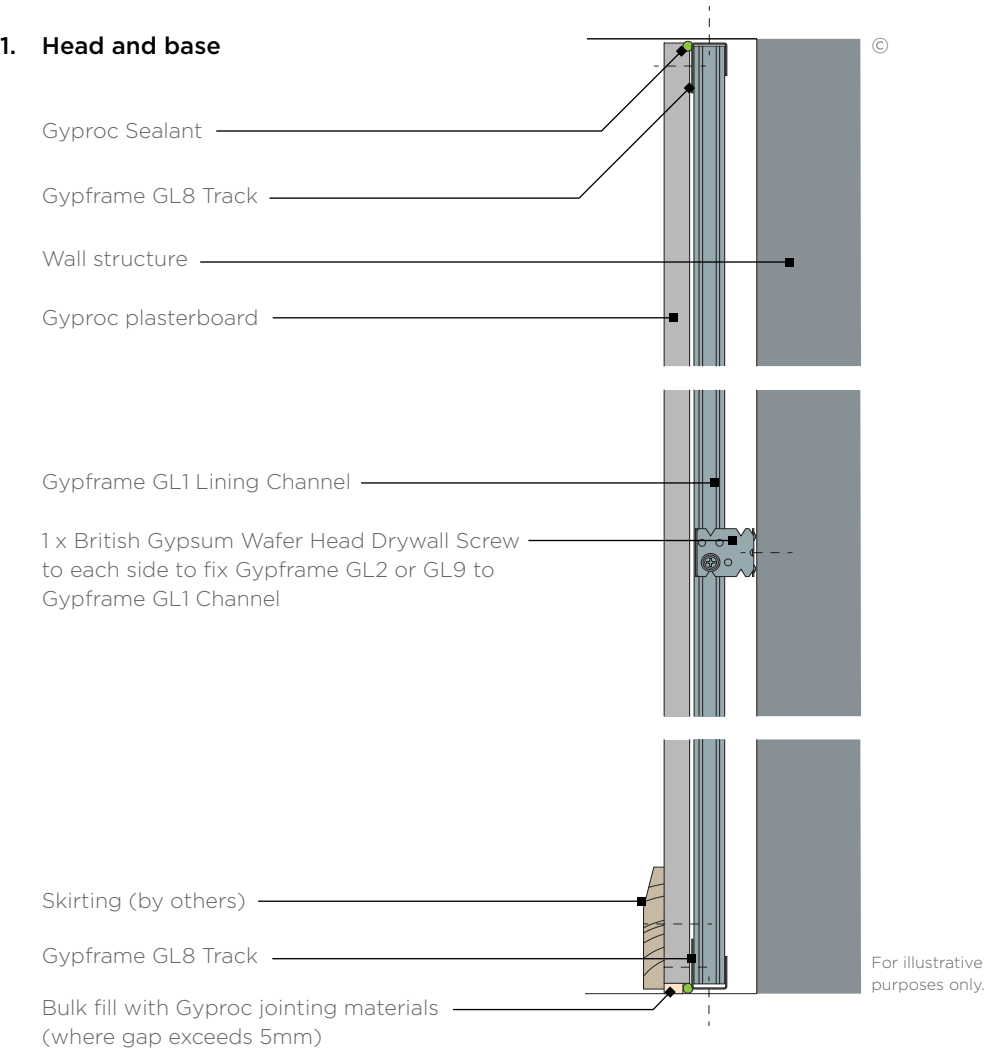
Tiling

Tiling can be applied directly to the surface of lightweight wall lining systems. Refer to british-gypsum.com for our full range and guidance on our tiling-related products

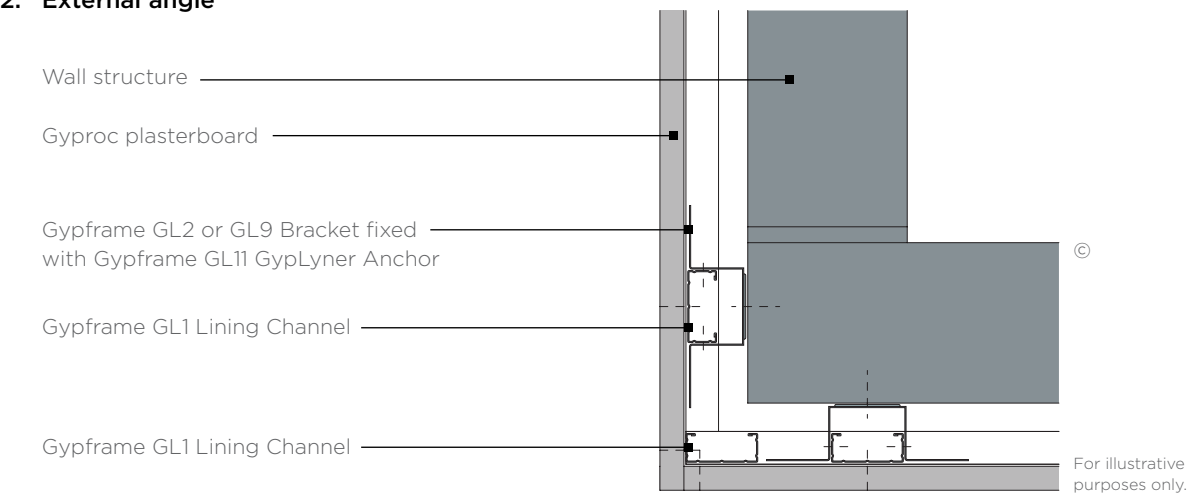
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Construction details

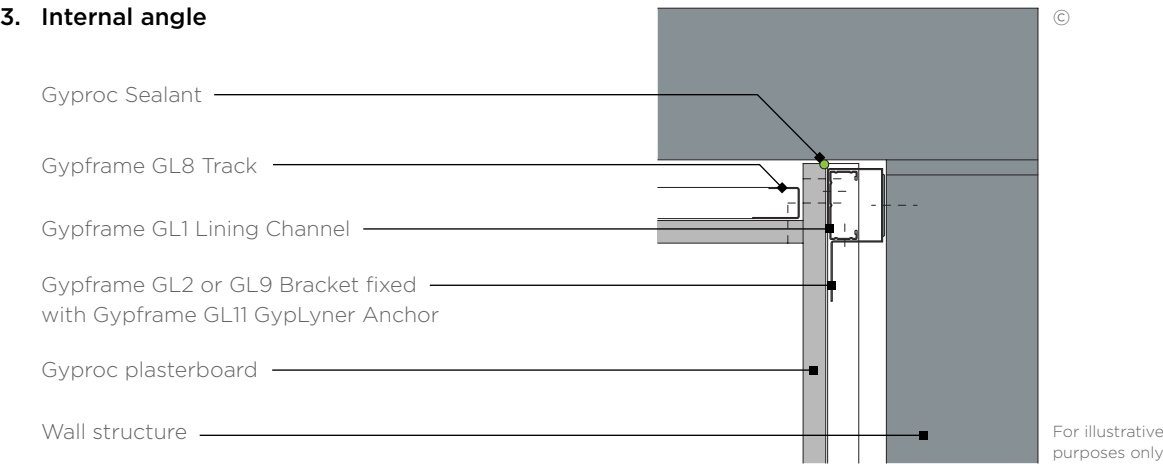
1. Head and base



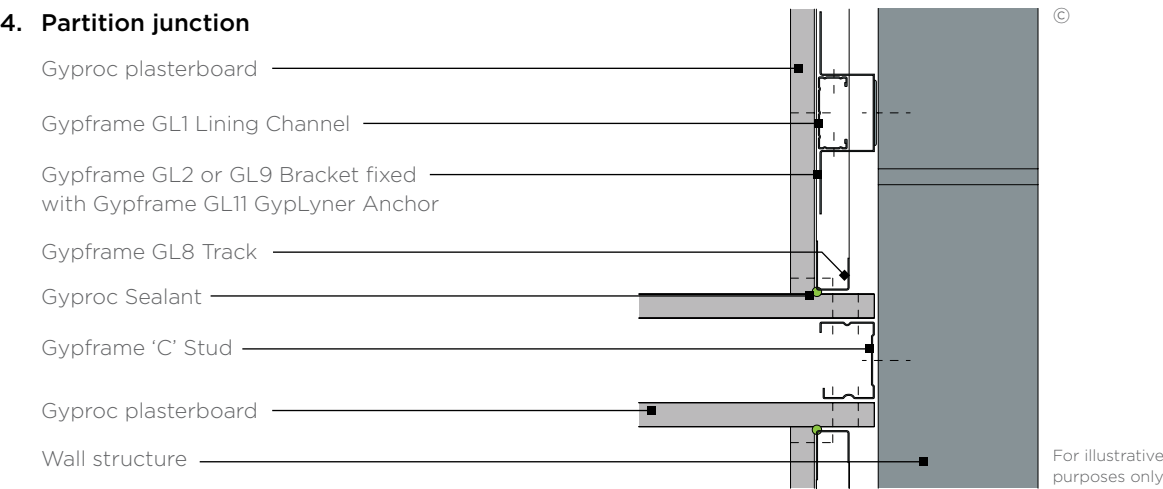
2. External angle



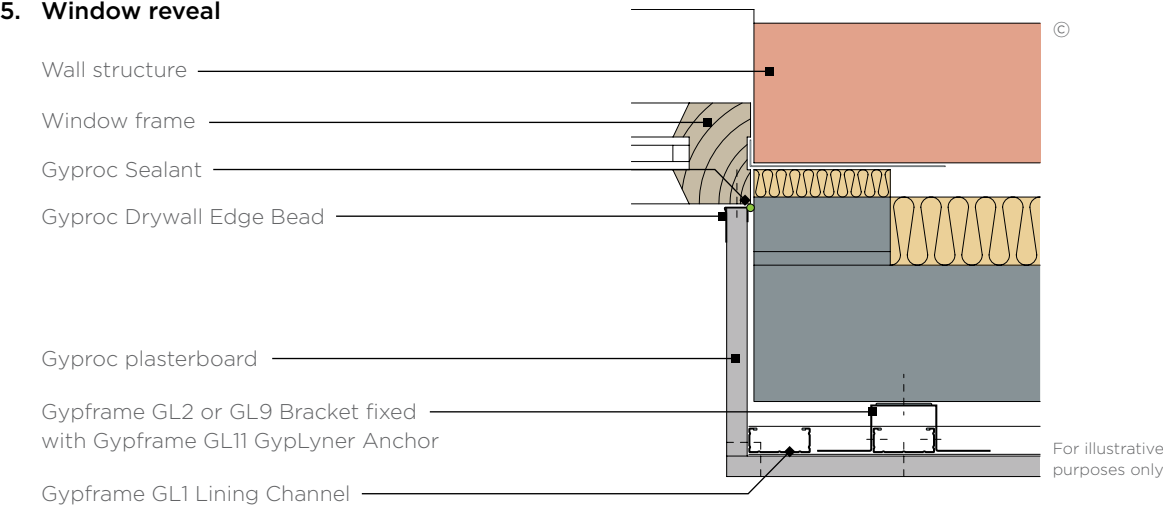
3. Internal angle



4. Partition junction



5. Window reveal



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System components

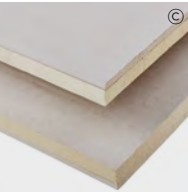
Enhance the energy efficiency and acoustic comfort of your environment with our GypLyner Single metal framed lining system.



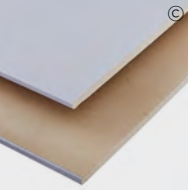
Gypframe GL1 Lining Channels
A steel component creating a main support channel for plasterboard. Lining Channels can be installed vertically and secured to backgrounds using brackets.



Isover Acoustic Partition Roll
Glass mineral wool for enhanced acoustic and thermal performance.



Gyproc ThermaLine PIR
Gyproc ThermaLine PIR is a gypsum plasterboard with vapour control layers bonded to high performance polyisocyanurate foam insulant to reduce the risk of condensation. Use it in refurbishment and new build for walls, ceilings and room in the roof where a high level of cost effective thermal insulation is needed to reduce heat loss from buildings.



Gyproc SoundBloc
Gyproc SoundBloc is a plasterboard with a high density core. Use it to achieve specified sound insulation levels through walls, ceilings and floors.



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

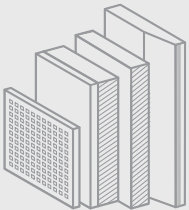
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Careful product choice is central to maintaining system integrity, performance requirements and eligibility for our **SpecSure** warranty. **Ensure an optimum standard of build by considering...**

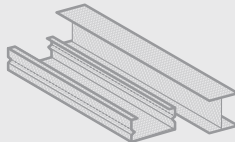
What are you fixing?

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



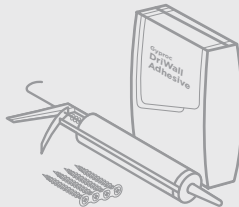
What are you fixing to?

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



What are you fixing with?

Our 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 complete a 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

GypLyner Single Installation

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



1 Suitably fix Gypframe GL8 Track to the perimeter walls at the required centres. Ensure the large lip faces internally.



2 Mark vertical lines on the wall at 600mm intervals to indicate Gypframe GL2 or GL9 Bracket fixing centres. Mark horizontal lines at 800mm centres to determine individual bracket positions. Suitably fix Gypframe GL2 or GL9 Brackets into position. Gypframe GL2 or GL9 Brackets should be fixed with Gypframe GL11 GypLyner Anchor.



3 Friction fit Gypframe GL1 Lining Channels into the Gypframe GL8 track top and bottom.



4 Bend Gypframe GL2 or GL9 Bracket leg forward. Use British Gypsum Wafer Head Drywall Screws to fix each leg to the Gypframe GL1 Lining Channel.



5 Bend the protruding Gypframe Bracket legs back to sit clear of the Gypframe GL1 Lining Channel face. At internal angles position a GL1 Lining Channel is positioned tight into corner, to provide support for the lining.



6 Construct door and window openings with Gypframe GL8 cut and bent to form the head of the opening and fix to the side of the channel using two British Gypsum Wafer Head Drywall Screws



7 Add Isover Acoustic Partition Roll (APR 1200) insulation to the partition cavity for optimal acoustic and thermal performance.



8 Use Gyproc Sealant to seal the perimeter of the lining.



9 Use British Gypsum Drywall Screws to fix Gyproc plasterboards or Gyproc ThermoLine to all framing members.