



FINISHES

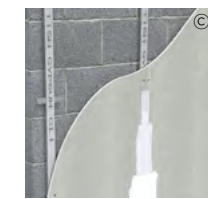
Create the perfect smooth, seamless surface with our range of finishing products.

Essential to all our high performance systems is our full range of finishes. Our finishes provide everything you need to complete your wall lining, partition and ceiling systems, regardless of the size and complexity of the project specification.

Our products provide a high quality finish when skimming to plasterboard, achieving a smooth, seamless surface ready to receive decorative treatment. In addition to providing the best finish, our ThistlePro® range of plasters provide an enhanced performance by either improving the indoor air quality (ThistlePro PureFinish), providing a more durable surface (ThistlePro DuraFinish) or providing an interactive and creative surface (ThistlePro Magnetic). Alternatively, our jointing materials produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration.



Plaster skimming
Create the perfect smooth, seamless surface with our Thistle® plasters. See page 8.3.



Jointing
Our Gyproc® jointing range gives you everything you need to complete a wall lining, partition or ceiling system, whatever the size and complexity of the project. See page 8.13.



Coving
Decorative spaces can be achieved quickly and simply, covering imperfections and settlement cracks using our range of Gyproc Cove and Cornice. See page 8.23.



Tiling
In rooms subject to temperature change, increased humidity or condensation, contact with water or cleaning regimes we have a range of partition and lining systems that are compatible with tiling. See page 8.29.



For more information see british-gypsum.com/specsure

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Plaster skimming

Identification

Achieve a smooth, seamless surface ready to receive decorative treatment.

Skim plastering offers many of the advantages of a traditional solid plaster finish, including robustness, better acoustics and a quick turnaround on site.

Our ThistlePro® plasters provide the original and best smooth finish with added benefits.

ThistlePro DuraFinish plasters improves durability.

ThistlePro PureFinish plaster improves indoor air quality.

ThistlePro Magnetic is a plaster to create daily changeable displays.

ThistlePro FastSet Finish gives a faster set time straight out of the bag without the need of additives.

ThistlePro PureFinish contains ACTIVair®. ACTIVair makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.



Why specify plaster skimming products?

Our Thistle plaster range achieves a smooth and uniform finish in one visit to site

Thistle MultiFinish enhances acoustic performance on a range of GypWall systems

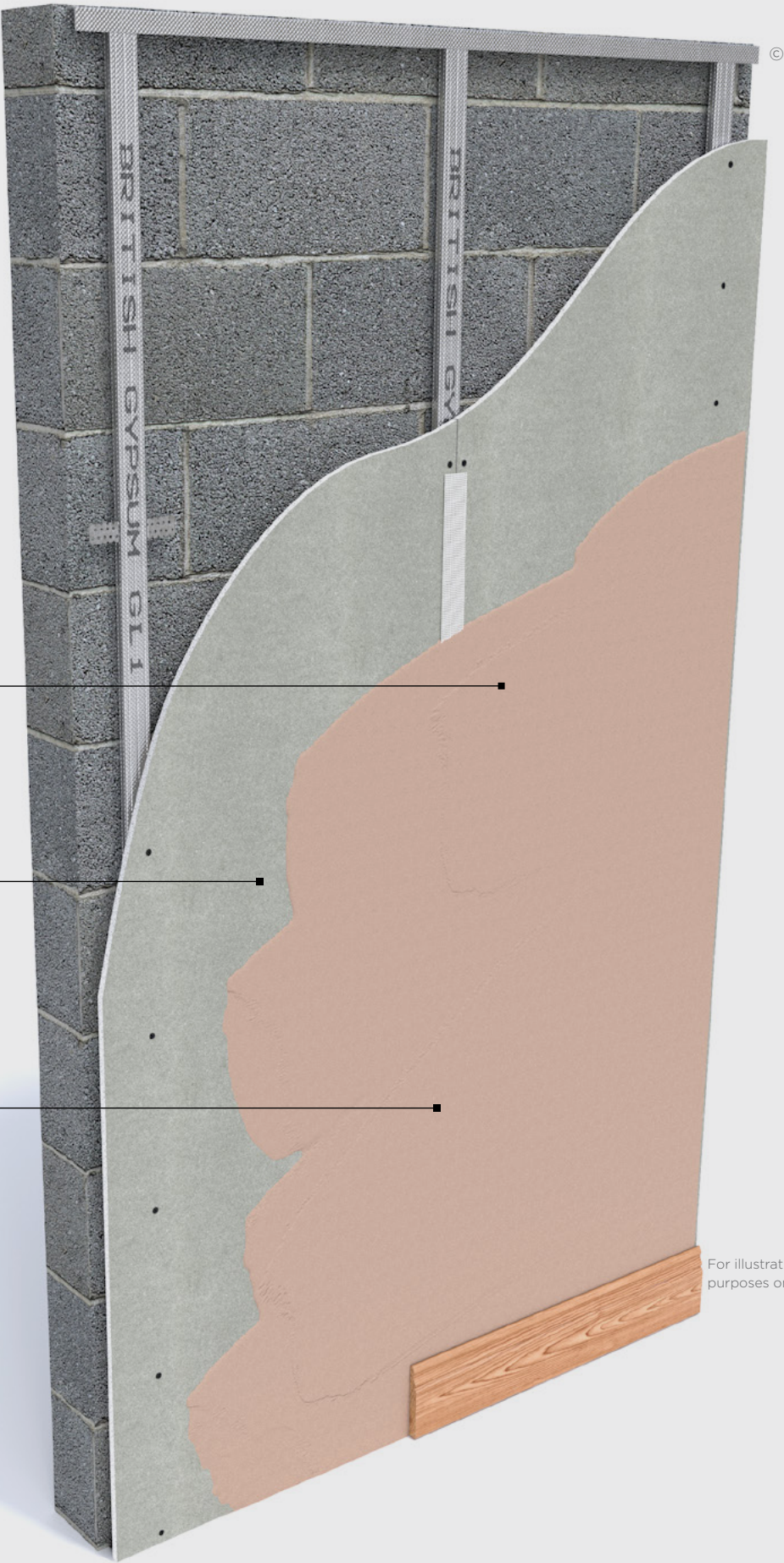
Thistle finishing plasters provide a system that's suitable for moderate impact and wear.

ThistlePro DuraFinish provides enhanced resistance and is proven 60% tougher compared to other standard skims.



You can use Thistle and ThistlePro plasters to finish our systems.

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



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Plaster skimming

Design considerations

Reaction to fire

All Thistle finish plasters achieve a Euroclass A1 reaction to fire rating. This makes them an appropriate finish for almost all situations.

Sound insulation

The application of Thistle finish plasters can help the plasterboard element to achieve optimum acoustic performance. They do this in two ways:

- A change to the measured acoustic performance, by applying 2mm Thistle MultiFinish to both sides of certain GypWall partitions, has a positive effect on the sound insulation rating. This benefit results in a performance uplift of up to R_w 2dB.
- Any small gaps or other air paths will be sealed during plastering, limiting flanking routes for sound transfer.

This is effective on partitions that are limited by their high frequency performance (coincidence region). This application will also add mass to the partition, which has a positive effect on the mid-frequency of the spectrum. Refer to Building acoustics in system design principles on british-gypsum.com

Stability

Thistle finish plasters attain high strength during the drying process and do not suffer from inherent shrinkage cracks.

Quality of finish

Homeowners and building occupiers are quick to notice a poor quality finish. Thistle finishing plasters, are capable of providing a superior, smooth surface whether you're skimming on plasterboard or using a two-coat plaster system. And it's ready to take whatever decorative treatment you choose.

Damage resistance

A skim finish not only provides a better finish, it is also more robust, providing additional resistance to damage in high traffic areas or rooms subject to greater wear and tear. ThistlePro DuraFinish provides additional resistance to accidental damage, glancing impacts and repeated abrasion, which can cause scratching, gouging or chipping of other wall finishes. It also has excellent adhesion to most backgrounds, therefore damage to small areas does not spread or cause debonding, which makes repair easier.

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/thistle-plaster-systems



Indoor air quality – ThistlePro PureFinish

Volatile Organic Compounds (VOCs), including formaldehyde are invisible, yet often present in the air we breathe. They are emitted from furniture, carpets and building materials. Long-term exposure can potentially cause health problems and reduce general wellbeing. Studies show that clean air can speed up patient recovery in hospitals, reduce absenteeism at work, and increase pupils' concentration at school. ACTIVair® is our latest technology designed specifically to convert formaldehyde emissions into non-harmful inert compounds. Tests show that ACTIVair® decomposes up to 70% of the formaldehyde in a controlled test environment*. This smart technology continues to work for over 50 years**. Whilst other solutions absorb formaldehyde, they don't decompose them like ACTIVair®, risking re-emission at a later date.

* Based on tests using ISO 16000-23 standard, by independent certified body.
** Lifetime has been confirmed experimentally and analytically on a commercial board sample in the frame of a collaborative work with independent certified body ULE and Pr J. Zhang, University of Syracuse, expert in Environmental Chemistry and Engineering, Mechanical ventilation and Indoor air quality.

Table 1: Physical properties

Plaster category	Plaster type	Bag weight (kg)	Approximate coverage m² per bag (based on 2mm thickness)	Minimum setting time (minutes)
Thistle Essential	Thistle MultiFinish	25	10	90
	Thistle BoardFinish	25	10	90
ThistlePro	ThistlePro FastSet Finish	25	10	60
	ThistlePro DuraFinish	25	10	105
	ThistlePro PureFinish	25	10	90
	ThistlePro Magnetic	25	5*	200

* Based on 3mm thickness

Table 2: Performance comparison between Thistle MultiFinish and ThistlePro DuraFinish

Property tested	Test method	Real examples	Damage measured	Performance		Improvement (%)
				ThistlePro DuraFinish	Thistle MultiFinish	
Glancing impact blow	150 kg trolley, 30° angle, 1 m/s speed, simulating impact energy of 75J	Corners of furniture, trolleys and wheeled equipment, general light impacts	Depth of identification	0.68mm	2.60mm	74
Scratch resistance, diamond stylus	Taber shear/scratch tester, standard	Light contact with sharp objects	Weight loss	0.004g	0.07g	94%
Scratch resistance	Taber shear/scratch tester, modified to use key, 180g load	Light contact with sharp objects	Visual assessment	No damage	Visible scratch	–
	Taber shear/scratch tester, modified to use key, 3.4kg load	Medium-heavy contact with sharp objects	Weight loss	0.003g	0.195g	85%
Scratch resistance	Elcometer	Medium contact with sharp objects	Weight loss	0.008g	0.2g	60%
Abrasion resistance	Taber Abraser	Rubbing off chair backs	Weight loss	0.27g	0.3g	10%
Surface hardness average	BS EN 13279-1 – ball indentation	Heavy objects leaning on a wall	–	15N/mm²	15N/mm²	0%
Compressive strength	BS EN 13279-1 – prism crush	None	–	12N/mm²	12N/mm²	20%
Flexural strength	BS EN 13279-1 – prism 3-point bend	None	–	5N/mm²	5N/mm²	43%

Plaster skimming

Design considerations

The World Health Organisation concerns about formaldehyde (which is a common VOC) in relation to human health are well published (WHO guidelines for indoor air quality: selected pollutants; 2010).

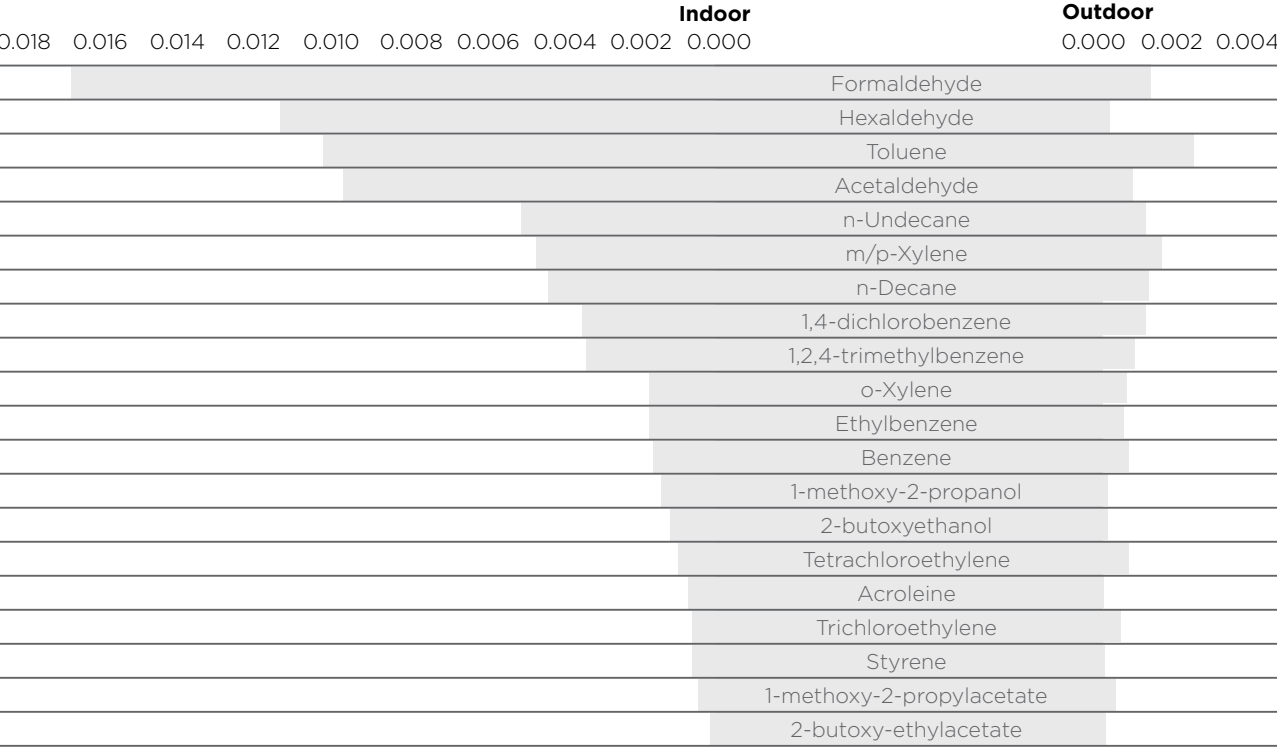
You can't see VOCs, or smell them. Therefore there is no way of knowing what concentrations you are being exposed to on a daily basis. As building regulations lead to more airtight construction, the importance of VOC management becomes more critical.

ThistlePro PureFinish is a versatile finish coat plaster that provides good results on all suction backgrounds where there is a requirement for improved indoor air quality. ThistlePro PureFinish contains ACTIVair® technology and is an excellent choice of plaster for internal walls and ceilings.

ACTIVair® technology is designed specifically to decompose formaldehyde emissions into non-harmful inert compounds, thus eliminating the risk of re-emission. Tests show that ACTIVair® decomposes 70% of the formaldehyde in a controlled test environment.

Decoration – ThistlePro PureFinish
Gypsum-based plasterwork must always be thoroughly dry before decorating, although a coat of permeable paint can be applied in the interim. ThistlePro PureFinish plaster surfaces can be finished using breathable water-based paint and wallpaper finishes, as well as wall covering adhesives, but always follow the manufacturers' recommendations for the best results.

VOC concentrations in the air (PPM)



Source: Indoor Air Quality Observatory VOC concentration

Interactive walls – ThistlePro Magnetic
ThistlePro Magnetic is a plaster designed to attract magnets - turning your wall into an interactive area.

With a plaster that attracts magnets you can turn any wall into an inspiring interactive gallery or notice board that you can change as often as you like, no fuss, no mess.

ThistlePro Magnetic can be applied to new or existing walls. Applied with a minimum 3mm thickness it can be decorated with standard emulsion paint or combined with specialist decorative finishes, including blackboard and whiteboard paint or wallpaper.

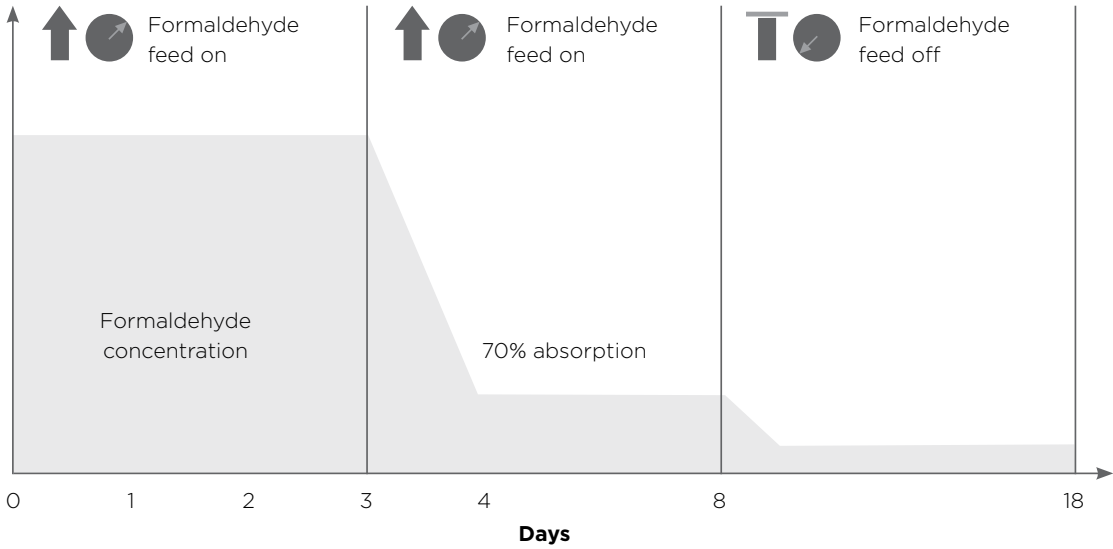
Planning – key factors

Care must be taken when applying finish coats in low temperatures and an allowance made for slightly longer setting and drying times. Plasters must only be applied where backgrounds are not frozen or will remain at 2°C or above until dry.

Ambient and background temperatures must be maintained above 5°C until fully dry to apply ThistlePro DuraFinish.

When installing suspended ceilings, Gypframe FEA1 Steel Angle is the preferred suspension option when a plaster finish is specified.

ACTIVair® test principle



Backgrounds

Plasterboards (excluding moisture resistant grade boards)
Skimming should be specified only on the face of boards, i.e. the side without a paper overlap. This will be the ivory face in the case of Gyproc WallBoard, Gyproc WallBoard Ten, Gyproc DuraLine and Gyproc HandiBoard, the coloured face of Gyproc FireLine and Gyproc SoundBloc. Joints must be reinforced and for greatest resistance to cracking this should be carried out using Gyproc Joint Tape. Alternatively, Thistle ProTape FT50 or FT100 can be used. A range of corner and stop beads are available for reinforcement of external angles and edges.

Glasroc F MultiBoard, Glasroc F FireCase and Rigidur H
Skim finishing should be applied to the smooth face of the board. Rigidur H needs to be treated with diluted Thistle GypPrime prior to skimming to control the suction. Application techniques and joint reinforcement are similar to those used on plasterboards.

Moisture resistant (MR) grade boards
Skim plastering is not normally specified to Gyproc Moisture Resistant grade boards. These types of board are intended for use in environments of higher than normal humidity for which no gypsum plaster is designed to be suitable.

Where moisture resistant board options are used in shell and core construction to provide temporary resistance to high moisture conditions, they can be skimmed at a later date after the building envelope has been made weather-tight. Likewise, moisture resistant boards can be skimmed where they are being used for convenience and are away from wet areas. Tiling is not recommended on plaster skimmed MR plasterboards. Application techniques and joint reinforcement are the same as those used on plasterboards. Plaster should be applied only to the face of moisture resistant boards. Pre-treatment with Thistle Bond-it is required when using Thistle finishing plasters. Pre-treatment is not necessary if using ThistlePro DuraFinish.

Mixing

Thistle plasters should be mixed by adding to clean water using clean mixing equipment. Contamination from previous mixes can adversely affect the setting time and strength. Fresh contamination has more effect than old, so equipment should be washed immediately after mixing.

Thistle plasters are suitable for mixing by hand or mechanical whisk of a slow speed, high torque type. While mechanical mixing speeds the process up, there is no need to continue mixing after dispersing lumps and achieving the right consistency. Over-mixing wastes time and energy, can affect setting times, lead to deterioration in workability and create difficulty in achieving a flat finish.

Tiling

Tiles up to a weight of 20kg/m² can be applied directly to Thistle finish coats, except where the system includes a bonding agent. As the total weight of tiles and plaster applied over a bonding agent is limited to 20kg/m², consideration should be given to tiling directly to the background. If plastering to provide a background for tiles, avoid polishing the surface. Polished plaster surfaces should be roughened and a suitable primer used.

Tiles should not be applied directly to Thistle undercoats, with the exception of Thistle DriCoat.

Tile finishing is not compatible with ACTIVair® technology, as the technology requires a breathable finishing.

Plaster skimming

System components

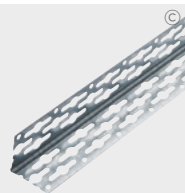
Achieve a smooth, seamless surface ready to receive decorative treatment.



Thistle GypPrime
Thistle GypPrime is a suction control primer to give a lower suction base on very dry backgrounds.



Thistle Bond-it
Thistle Bond-it is a bonding agent for smooth and/or low suction backgrounds providing an adequate key.



Thistle Thin Coat Plaster Angle Bead
Thistle Thin Coat Plaster Angle Bead is a galvanised steel bead with perforated wings. Use it to reinforce external angles in 2mm plaster finishes.



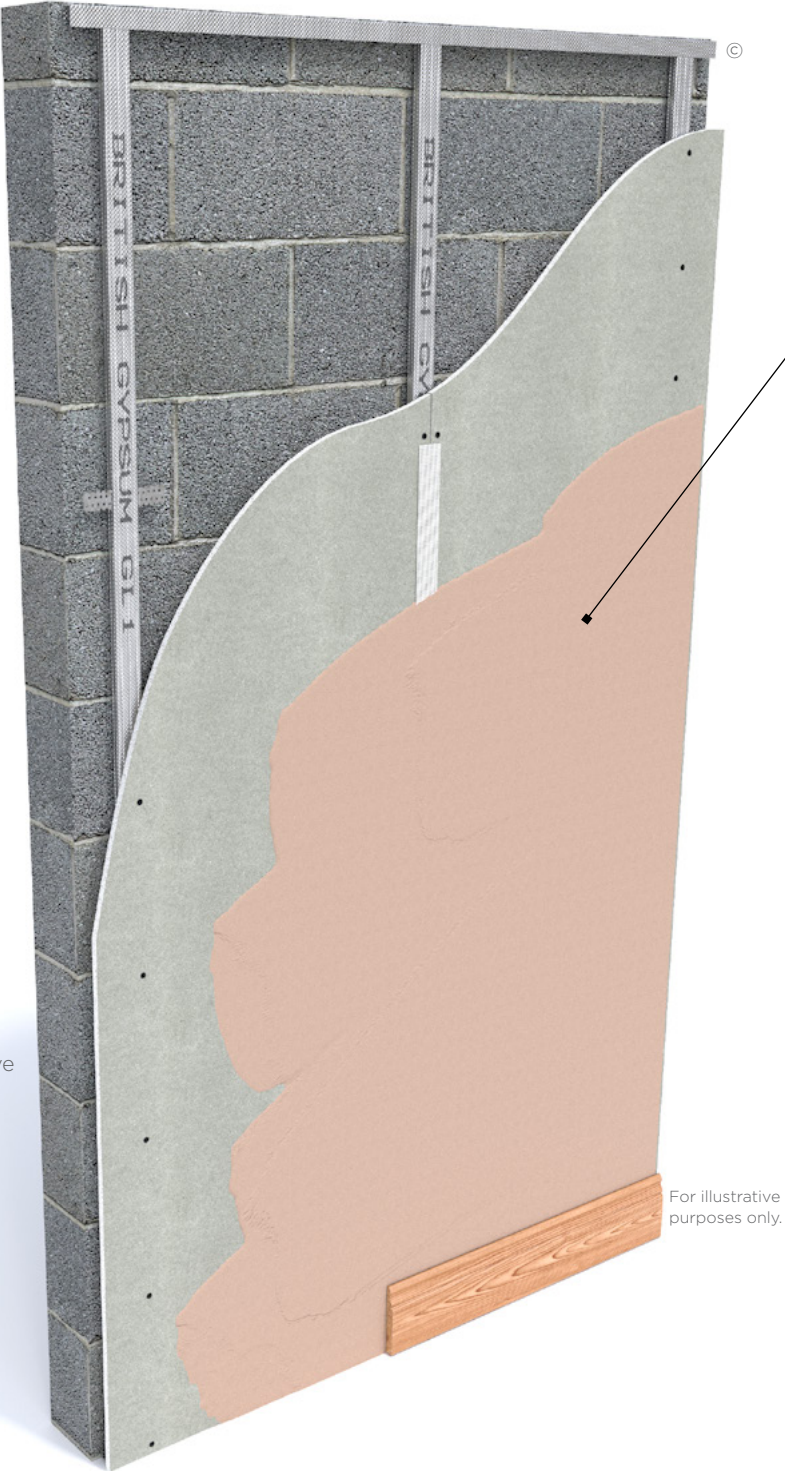
Thistle Thin Coat Plaster Stop Bead
Thistle Thin Coat Plaster Stop Bead is a galvanised steel bead with perforated wings. Use it to form a clean edge in 2mm plaster finishes.



Thistle ProTape FT50
Thistle ProTape FT50 is a self-adhesive glass fibre mesh tape. Use it to reinforce flat joints in skim finishes to plasterboard backgrounds and for placing over gaps and reinforcement to small areas of damaged plasterboard.



Gyproc Joint Tape
Gyproc Joint Tape is a paper joint tape with a centre crease and spark perforations. Use it for reinforcing flat and internal angle joints in plasterboard constructions, including through autotaping machines.



Thistle MultiFinish
Thistle MultiFinish is a gypsum finish plaster that provides a smooth, inert and high quality surface to internal walls and ceilings.



Thistle BoardFinish
Thistle BoardFinish is a gypsum finish plaster that provides a smooth, inert and high quality surface to internal walls and ceilings.



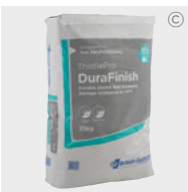
ThistlePro FastSet Finish
ThistlePro FastSet Finish gives a faster set time straight out of the bag without the need of additives. It's a quick setting gypsum finish plaster that provides a smooth high quality surface finish. Ideal for patch and repair jobs as well as smaller internal walls and ceilings.



ThistlePro Magnetic
ThistlePro Magnetic is a finish plaster that attracts magnets, letting you hang paintings and other items without fixings. It gives you interactive walls in schools, offices, living spaces, or anywhere where you want to get more creative with your walls.



ThistlePro PureFinish
ThistlePro PureFinish helps to make indoor air healthier by absorbing one of the most common airborne pollutants. It's a gypsum finish plaster that provides a smooth, inert and high quality surface to internal walls and ceilings.



ThistlePro DuraFinish
ThistlePro DuraFinish is an extra hardwearing finish plaster that resists impact to keep walls in high traffic areas damage free for longer, cutting maintenance costs. It is a gypsum finish plaster that provides a smooth, inert and high quality surface to internal walls and ceilings.



You can use Thistle and ThistlePro plasters to finish our systems.
There are specifications within these systems that qualify for our **SpecSure®** warranty. For more information see british-gypsum.com/specsure

Plaster skimming

Installation



Thistle Bond-it may be required for background preparation to provide a mechanical and chemical key for the appropriate undercoat or finish plaster.



Thistle GypPrime can be used for background preparation where high levels of suction may adversely affect the undercoat or finish plaster.

The information below is intended to be a basic description of how the system is built.
Full installation guides are available at british-gypsum.com/instructions



A Thistle Thin Coat Angle Bead is fixed to the plasterboard angle by embedding in dabs of finish plaster.



Where there is an increased risk of cracking, or where gaps exceed 3mm, the gaps are reinforced with Gyproc Joint Tape bedded in Thistle plaster. In other situations, plasterboard joints can be reinforced with Thistle ProTape FT50 or FT100 glass fibre mesh tape.

Cleaning equipment

All equipment should be thoroughly cleaned before and after use. Small residual amounts of set or part-set material will accelerate the hardening of freshly mixed finish plaster.



Thistle plasters should be mixed by adding to clean water and using clean mixing equipment. Contamination from previous mixes must be avoided as this can adversely affect the setting time and strength.



Thistle plaster is applied with firm pressure, built out to the required thickness in two applications and trowelled to a smooth matt finish.
When applying ThistlePro FastSet Finish, a single mix for both first and second coat is recommended.

Jointing

Identification

Reinforce joints for a smooth, crack resistant surface that’s ready for priming and decorating.

Gyproc jointing materials seal linings to give you the specified levels of fire resistance and sound insulation. Apply the materials using either hand tools or mechanical jointing tools.

A number of jointing options are available to suit the board type, method of application and site preference.

Why specify Gyproc jointing materials?

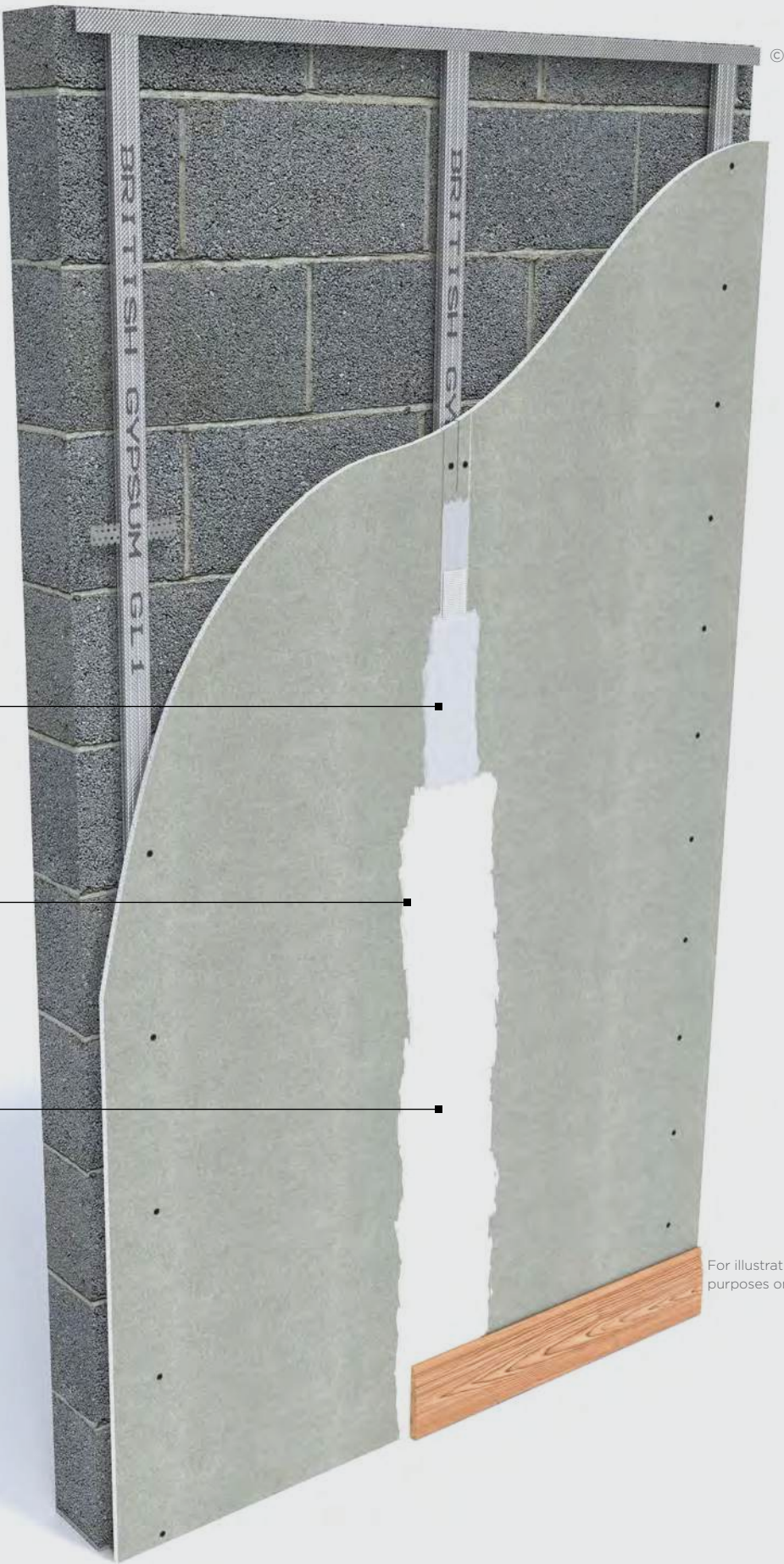
Choice of jointing materials, including ready mixed and dry powder options

A range of products for both hand and machine application

Produces a seamless surface ready for decoration



You can use Gyproc jointing materials to finish our systems. When finished using Gyproc jointing materials and installed in line with our recommendations, there are specifications within these systems that qualify for our **SpecSure** warranty. For more information see british-gypsum.com/specsure



For illustrative purposes only.

Jointing

Design considerations

Preparation – key stages

- Boards should be securely fixed, with no steps between adjacent boards.
- The correct fixings must be used and properly located with their heads just below the liner surface. Any protruding screw heads should be driven home using a hand screwdriver, prior to spotting and jointing.
- Gaps between boards greater than 3mm should be pre-filled, prior to taping with Gyproc Joint Tape.
- Ambient and background temperature must be maintained above 5°C until fully dry when jointing material is applied.

Joint reinforcement

In a plasterboard system, suitable joint reinforcement is essential to minimise the risk of cracking along the plasterboard joints, which could then appear through the decoration.

To achieve the objective of a smooth, continuous, crack-free surface, tapered edge plasterboard and Gyproc Joint Tape should be used when jointing. The tapered edge boards provide a recess for the joint treatment, allowing a flat, finished surface. At board joints, where cut edges or square edge boards occur, the joint treatment is inevitably raised above the board surface and is more difficult to conceal. In this situation the secondary filling stage is omitted and joint treatment is feathered-out into the field of the board to conceal the joint as much as possible.

If Thistle ProTape FT50 is used, bedding is not required but the filling material should be pressed through the holes in the tape, including into any gaps between the boards. This is important to achieve a satisfactory appearance to the finished joint.

Thistle ProTape FT50 is not a direct substitute for Gyproc Joint Tape in resistance to cracking, particularly in systems where the board edges are not fully supported.

Joint treatment has two essential components: the reinforcement and the jointing compound. Reinforcement is necessary where there is relative movement of adjacent boards. In practice, some movement is normal and Gyproc Joint Tape is recommended for the best crack resistance.

Jointing

Rigidur H
When jointing Rigidur H by hand use Gyproc EasiFill. The joints can be finished using a mechanical jointing tool if desired. When jointing using a mechanical jointing tool, use Gyproc ProMix Lite for the best results. Gyproc QuickSand can be considered, but care needs to be taken to mix to the correct consistency.

Due to the nature of the joints on tapered edge Rigidur H, the Gyproc Joint Tape will need to be bedded down with a 50mm wide taping knife to flatten the tape back onto the joint. Take care to leave sufficient jointing material behind the tape to ensure good adhesion. The joints can then be finished using the mechanical jointing tool.

Gyptone boards
Gyproc Joint Tape is bedded in Gyproc EasiFill to all four tapered edges and bulk-filled. When set, a finish coat of Gyproc QuickSand is applied to all joints by hand or using a mechanical jointing tool.

Care must be taken not to fill the perforations in the board and thereby impair the sound absorption performance.

Rigitone boards
Mix the Rigitone Vario 60 Jointing Material with clean water (approximately 3 parts water to 1 part filler) and fill a Rigitone Installation Kit with the mixture. Apply the filler to the joints ensuring the joints are completely full, including nominal 5mm-10mm gaps around the perimeter. Failure to fully fill the joint can cause the joint to crack.

The filler should be left to dry for a minimum of 50 minutes before striking the excess material away from the joint. Allow all the joints to dry for a minimum of 24 hours before finishing. Mask the perforations either side of the joints using wet paper tape. Fill the joints and screw heads using Gyproc EasiFill, let the material project slightly from the boards to allow for shrinkage and sanding.

To finish a joint where the room layout or design detail has required a Rigitone board to be cut, fill all holes falling on the joint using Rigitone Vario 60 Jointing Material and finish with a layer of Gyproc EasiFill. Once a joint has been filled, remove the masking paper tape immediately. Lightly sand once dry.

Glasroc F and Glasroc F FireCase
Gyproc QuickSand is trowel applied to the joint and Gyproc Joint Tape bedded in. Alternatively Thistle ProTape FT50 is applied over the joint and a coat of Gyproc QuickSand is trowel applied. The joint treatment is allowed to dry and lightly sanded to remove any high spots. For internal angles the use of Gyproc Joint Tape is preferable to Thistle ProTape FT50. Its crease makes it easier to achieve a neat, straight joint with higher cracking resistance.

For external angles, Gyproc Corner Tape, Gyproc Levelline or Gyproc AquaBead is used, bedded in Gyproc QuickSand. A second coat of Gyproc QuickSand is trowel applied and feathered out to about 200mm width on each side on the joint. The joint treatment is allowed to dry and lightly sanded. Gyproc Metal Drywall Angle Beads can be used but Gyproc Joint Filler must be used on the first two coats.

A third coat of Gyproc QuickSand may be necessary, applied as the second coat and slightly wider e.g. where boards are fixed with any steps, gaps or minor damage. When the final application has dried and been sanded smooth, the surface is ready for decoration.

Glasroc H TileBacker
Gyproc jointing materials are not generally recommended for use on Glasroc H TileBacker.

Decoration

Painting
After the jointing treatment has set and dried, and any final sanding is complete, the surface should be dusted down and Gyproc Drywall Primer applied by brush or roller. Gyptone or Rigitone perforated boards are not suitable to receive spray applied primer.

The primer evens out differences in surface texture and absorption between the board and jointed areas, to create the ideal surface to receive final decoration. The early application of primer helps to prevent plasterboards from yellowing. Where surface vapour control is a requirement the surface should be given two coats of Gyproc Drywall Sealer. Most non-solvent based paints and papers can be applied after Gyproc Drywall Primer or Gyproc Drywall Sealer has dried.

Gyproc Drywall Sealer should not be applied to Glasroc F MultiBoard, Glasroc F FireCase or Rigidur H.

Wall coverings
If Gyproc Drywall Sealer is applied in a single coat, steam-stripping at a later date becomes a simple operation. Decoration should follow with the minimum of delay. Most non-solvent based paints and papers can be applied after Gyproc Drywall Primer or Gyproc Drywall Sealer has dried.

Vinyl or other low-permeability wall coverings restrict drying of water-based adhesives. This combination should, therefore, not be applied direct to plasterboard treated with Gyproc Drywall Sealer.

The use of specialist adhesives, for example with cloth backed or solid vinyl wall covering, may result in damage to the plasterboard surface during subsequent stripping. If the use of such adhesives is necessary, consideration should be given to cross-lining with lining paper before applying the wall covering.

As with all wall and ceiling areas, high sheen gloss finishes will highlight variations of the surface, particularly with shallow angle lighting. The use of low sheen or matt finishes minimises this risk.

For the correct specification in respect of any applied decorative material, reference should be made to the manufacturer of that material.

Setting compounds
Setting-only compounds - e.g. Gyproc Joint Filler jointing compounds used at the joint filling stage(s) are usually setting products. Hardening is not dependent upon atmospheric humidity.

Fillers that only harden by setting are hand applied and have low shrinkage. When a setting-only product is applied as a thin layer it may ‘dry-out’ before it has properly hardened. Setting-only materials are therefore unsuitable for the finishing application, but are particularly suitable for bead fixing.

A setting material should never be applied on top of an air-drying material. Air-drying materials shrink as they dry, which may cause a joint to delaminate under such circumstances.

Table 2 – Product options					
Product	Drying type	Fill stage(s)	Finish stage(s)	Working time (mins)	Setting time (mins)
Gyproc Joint Filler	Setting	Preferred	Unsuitable	60	80
Gyproc QuickSand	Air-drying	Can be used	Preferred	–	–
Gyproc Ready Mix Joint Cement	Air-drying	Can be used	Preferred	–	–
Gyproc ProMix Lite	Air-drying	Can be used	Preferred	–	–
Gyproc EasiFill 60	Setting/air-drying	Preferred	Preferred	60	75

Jointing

Design considerations

Air-drying compounds

Jointing compounds (e.g. Gyproc QuickSand) used for the finishing application are applied more thinly than bulk-fillers and so must have air-drying characteristics in order to harden sufficiently at feathered edges.

Air-drying materials can be applied by hand or machine using mechanical jointing tools. Air-drying materials may also be used as fillers, but greater time needs to be allowed to permit the material to dry in depth, particularly in cold or humid conditions.

Gyproc EasiFill

These products combine the characteristics of both an air-drying and a setting material. Gyproc EasiFill can be applied by hand or machine using mechanical jointing tools. Gyproc EasiFill products have shrinkage that is lower than conventional joint fillers and considerably lower than air-drying joint cements, meaning they can also be used with absolute confidence in a two stage application

Hand versus mechanical application

Hand application provides a versatile option ideal for smaller areas or where the jointing programme cannot be completed in a single operation. Mechanical jointing tools provide consistent high speed jointing, which is cost effective where large runs of lining are involved. Mechanical jointing is available in full or part sets. The full set, for use with an air-drying product, includes tools that automatically bed tape and apply jointing compound at the same time.

Part sets include easy clean finishing boxes that can be used with Gyproc EasiFill:

- Ideal for moderate to large areas of drylining
- Ideal where a number of areas can be finished in sequence
- Increased productivity
- Consistent high standards of finish
- Easy to use

Coverage

Coverage depends on the grade of jointing compound chosen.

Table 3 – Coverage data

Product	Pack size	Typical coverage
Gyproc Drywall Primer	10 litre tubs	150m ² /10 litre tub (1 coat)
Gyproc Drywall Sealer	10 litre tubs	70m ² /10 litre tub (2 coats), 150m ² /10 litre tub (1 coat)

Jointing

System components

Reinforce joints for a smooth, crack resistant surface that's ready for priming and decorating.



Gyproc Joint Filler
Gyproc Joint Filler is a gypsum based setting material for bedding tapes and filling plasterboard joints. Use it in stages one and two of the traditional three-stage hand jointing process. Can be used with Gyproc plasterboards and Glasroc F MultiBoard, Glasroc F FireCase and Rigidur H.



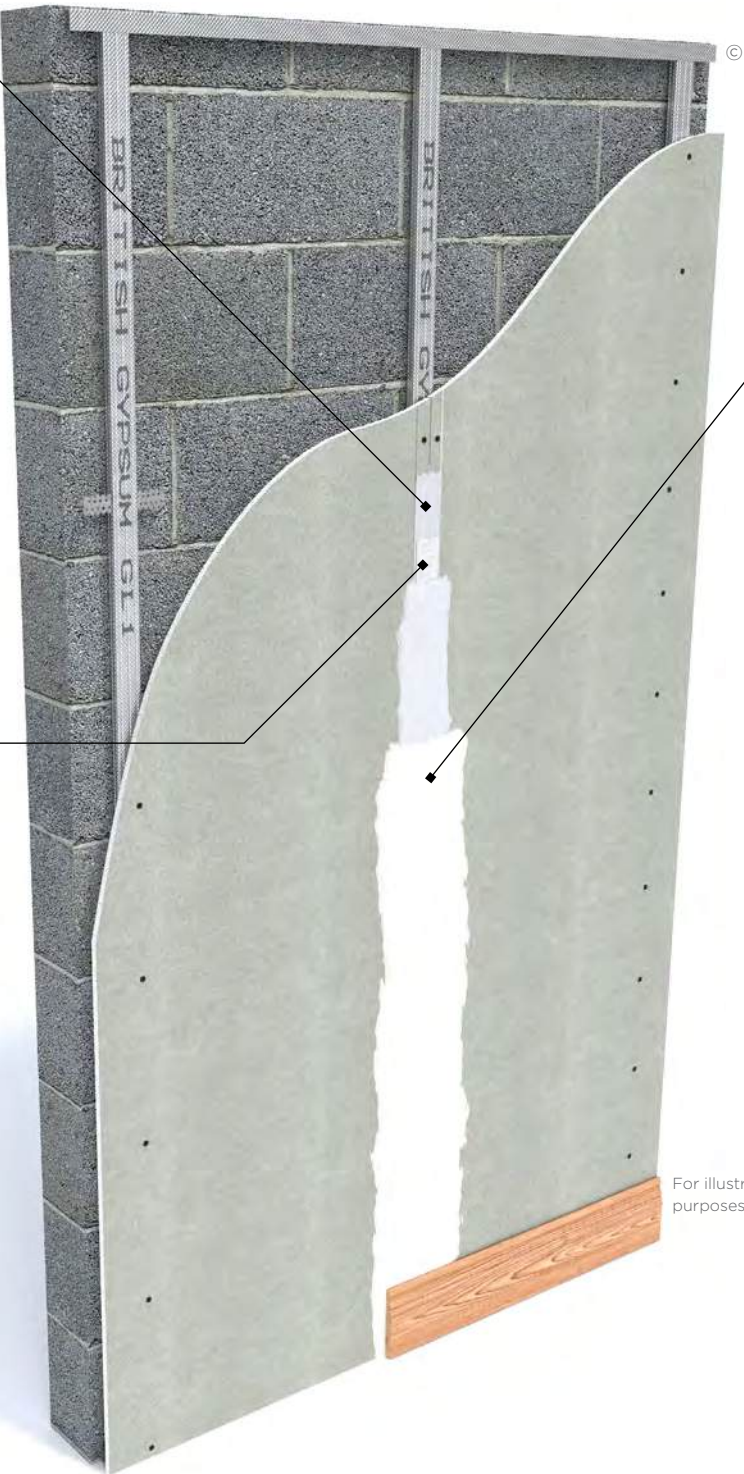
Gyproc EasiFill 60
Gyproc EasiFill 60 is a combined setting and air-drying, gypsum based material. Can be used as a plasterboard joint filler and finish.



Gyproc Joint Tape
Gyproc Joint Tape is a paper joint tape with a centre crease and spark perforations. Use it for reinforcing flat and internal angle joints in plasterboard constructions, including through autotaping machines.



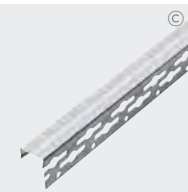
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Gyproc ProMix Lite
Gyproc ProMix Lite is a lightweight ready mixed air-drying jointing material. Use it for all stages of hand or mechanical jointing of plasterboard, Glasroc F MultiBoard, Glasroc F FireCase and Rigidur H.



Gyproc QuickSand
Gyproc QuickSand is an air-drying jointing material for all stages of plasterboard jointing. Use it for all stages of hand or mechanical jointing of plasterboard, Glasroc F MultiBoard, Glasroc F FireCase and Rigidur H.



Gyproc Drywall Metal Edge Bead
A galvanised steel angle bead with expanded wings. Use to form a defined edge to plasterboard areas.



Gyproc AquaBead
Gyproc AquaBead is a high strength water activated 90 degree external corner angle bead. Use it for external 90° plasterboard corners and uprights, reveals, bulkheads and columns.



Gyproc LevelLine
Gyproc LevelLine is a high strength 70mm wide corner tape. Use it for internal and external angles in jointed systems.

Jointing

Installation

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



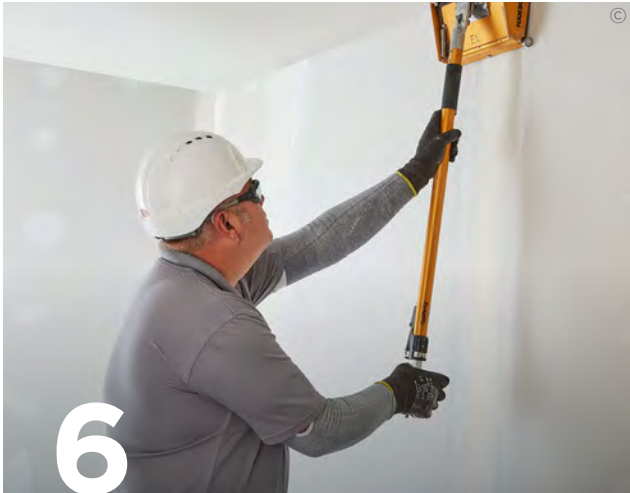
Gyproc Joint Tape is bedded into the appropriate Gyproc jointing compound to all board joints and internal corners.



For external corners use the self-adhesive Gyproc AquaBead or Gyproc Corner Tape or Gyproc LevelLine which are bedded with a Gyproc setting compound.



Gyproc Drywall Primer or Gyproc Drywall Sealer is applied to the entire board surface and jointed areas, to control suction and prepare the lining for final decorative treatment.



Mechanical jointing tools can be used as an alternative to hand jointing, to provide a fast, consistent finish using the bazooka for tape application and the 175mm, 250mm and 300mm finishing boxes as appropriate sanding and decoration preparation remains the same.



Two or three further applications of jointing compound are trowel applied, each feathered out beyond the previous application. An equal number of applications are made to spot screw heads.



Once dried, the joint treatment is sanded as necessary to achieve a smooth surface.

Cleaning equipment

All equipment should be thoroughly cleaned before and after use. Small residual amounts of set or part-set material will accelerate the hardening of freshly mixed setting jointing compounds, and residues of compounds left in a wet state will be subject to microbial attack.

Coving

Identification

Create a variety of decorative effects quickly and simply using Gyproc Cove and Cornice.

Gyproc Cove and Cornice enhance walls and ceilings and relieve flat runs of lining, joints and angles.

Sound insulation

Airtightness is essential for optimum sound insulation of plasterboard building elements. Gyproc Cove and Cornice can assist in ensuring that linings meet their stated sound performance levels, since joints will be rendered impermeable during the bonding and jointing / making good process.

Decorative effects design

Backgrounds

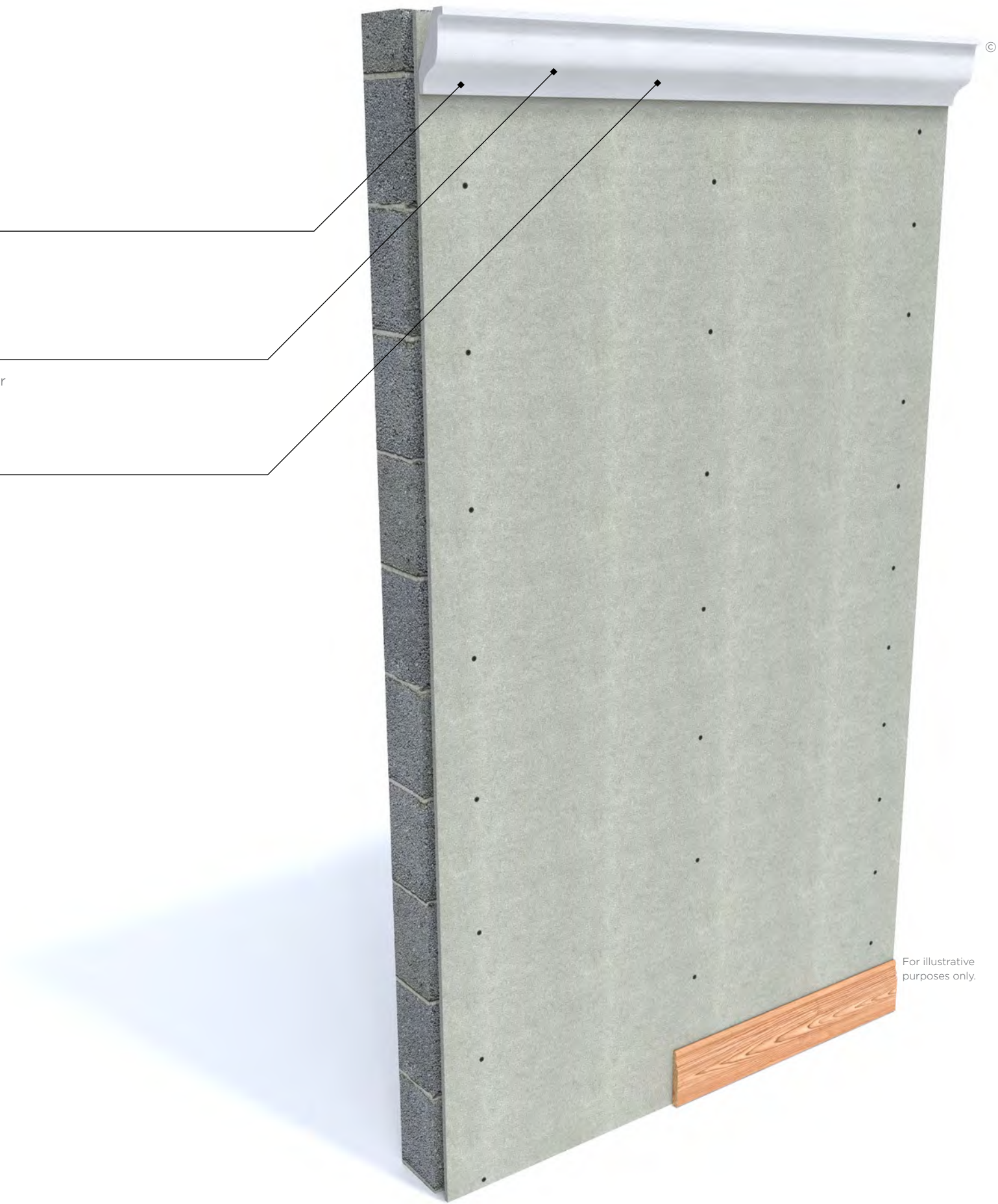
Gyproc Cove and Cornice can be installed to clean, dry and sound backgrounds using Gyproc Cove Adhesive or Gyproc EasiFill. Where the wall or ceiling has severe irregularities, the profiles can be mechanically fixed using non-rusting screws into plugs. Gaps along the wall or ceiling edge of the profile can be filled with Gyproc Cove Adhesive.

Why specify Gyproc Cove?

Gyproc Cove and Cornice enhance walls and ceilings and relieve flat runs of lining, joints and angles.

Gyproc Cove and Cornice can cover over settlement cracks improving aesthetics

Easy to install and a great alternative to finishing the joints between walls and ceilings



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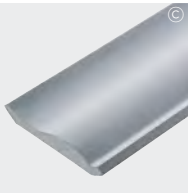
Coving

System components

Create a variety of decorative effects quickly and simply using Gyproc Cove and Cornice.



Gyproc Cove Adhesive
Gyproc Cove Adhesive is a gypsum based setting powder adhesive. Use it to fix Gyproc Cove and Cornice products to plaster or plasterboard surfaces.



Gyproc Cornice 135
Gyproc Cornice 135 is an 'S' profile cove with an extra deep profile. Use it at the angle between the wall and ceiling. It can also be used to add further decorative effect in alcoves, reveals and other areas where there is a change of surface direction.



Gyproc Cove 100
Gyproc Cove 100 is a 'C' profile gypsum plaster cove. Use it to conceal cable runs and mask settlement cracks.



Gyproc Cove 127
Gyproc Cove 127 is a 'C' profile gypsum plaster cove. Use it to upgrade the design of larger rooms or rooms with higher ceilings and to conceal cable runs and mask settlement cracks.

Coving

Installation

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



The positions of the cove or cornice are marked on to the wall and ceiling.



Profiles are cut to length using a fine-tooth saw and mitred using a suitable mitre block. Gyproc Cove Adhesive or Gyproc EasiFill is evenly applied to both surfaces that will be in contact with the wall and ceiling.



Nails are lightly applied to provide temporary support to the profile until the adhesive has set. Once set, temporary nails are removed and any excess adhesive is used to make good the mitres and any joints. After installation, surfaces are treated with Gyproc Drywall Primer prior to applying the decorative paint finish.

Tiling

Identification

Protect tiled surfaces from moisture damage.

Glasroc H TileBacker is the ideal substrate for direct tiling in areas with lots of moisture. It protects wall linings, lightweight partition systems, and floor systems in shower enclosures, bathrooms, swimming pool halls, and other wet areas.

For wall areas where intermittent moisture conditions are more common, including kitchens and bathrooms, Gyproc Moisture Resistant grade boards are suitable.

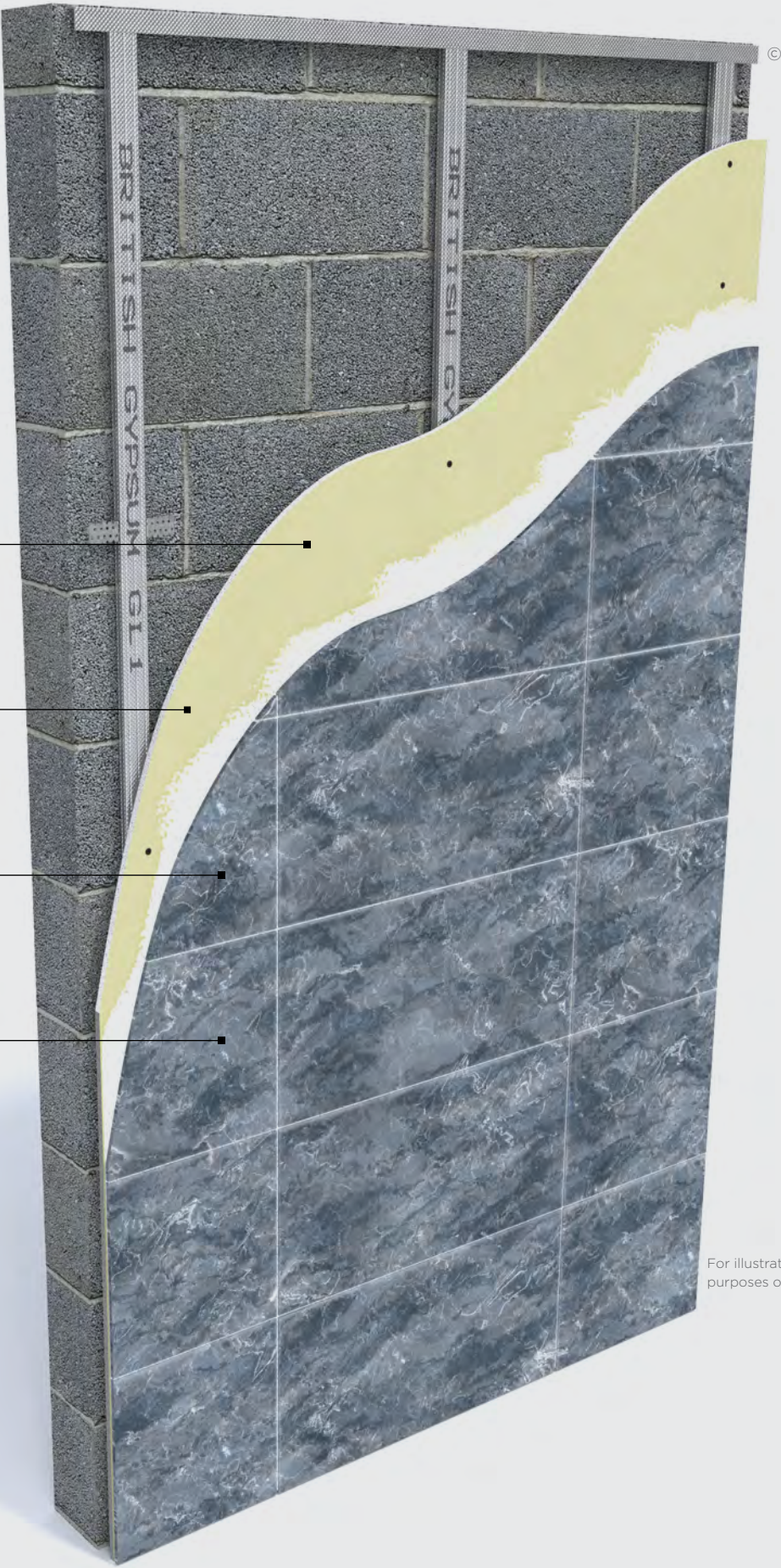
Why specify Glasroc H TileBacker?

Glasroc H TileBacker resists moisture to prevent mould and other damage

Glasroc H TileBacker holds tiling systems up to 32kg/m² on walls and 50kg/m² on floors

Gyproc Moisture Resistant grade boards are suitable for walls in intermittent moisture conditions

Gives you flexibility when it comes to design



For illustrative purposes only.

Tiling
Performance

Table 1 – Tiling on partition systems			
Partition system	Board type ³	Stud centres (mm)	Additional support/ comments
GypWall Single Frame	1 x 12.5mm Glasroc H TileBacker each side	600	–
	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 1 x 12.5 Glasroc H TileBacker each side	600	–
	1 x 15mm Gyproc plasterboard each side or 2 x 12.5mm (minimum) Gyproc plasterboard each side	400	If using Gypframe 146mm studs, they can be located at 600mm centres to full partition height with extra studs to give 300mm centres up to tiling height
GypWall Single Frame Enhanced	1 x 15mm Gyproc plasterboard (or 15mm Rigidur H where appropriate) each side or 2 x 12.5mm (minimum) Gyproc plasterboard each side (including outer layer Rigidur H where appropriate)	400	If using Gypframe 146mm studs, they can be located at 600mm centres to full partition height with extra studs to give 300mm centres up to tiling height
GypWall Twin Frame Braced, GypWall Twin Frame Independent, GypWall Twin Frame Audio	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 1 x 12.5 Glasroc H TileBacker each side	600	–
	2 x 12.5mm (minimum) Gyproc plasterboard each side	400	–
GypWall Resilient	Tiles over double layer lining board fixed on Gypframe RB1 Resilient Bar side	600 ¹	Horizontal Gypframe RB1 Resilient Bar at 400mm vertical centres
	Tiles over double layer lining board fixed to studs (non Gypframe RB1 Resilient Bar side)	400 ¹	–
GypWall Staggered	1 x 15mm Gyproc SoundBloc each side 2 x 12.5mm (minimum) Gyproc SoundBloc each side	400	–
Timber stud partitions and separating walls	12.5mm Gyproc plasterboard each side (single or double layer)	400	Timber noggings 50 x 38mm minimum at 600mm vertical centres
	15mm Gyproc plasterboard each side (single or double layer)	600	Timber noggings 50 x 38mm min. at 600mm vertical c/c
GypWall Shaft	1 x 15mm Gyproc FireLine	300	–
	2 x 12.5mm (minimum) Gyproc FireLine	600	Gyproc Sealant applied in a full height continuous vertical bead midway between studs
GypWall Single Frame	2 x 15mm Gyproc plasterboard ²	400	–

¹ If the tiling side is unknown, or tiling is to both sides, the studs should be at 400mm centres and the horizontal Gypframe RB1 Resilient Bars at 400mm vertical centres
² FireWall specifications incorporating outer layer 6mm Glasroc F MultiBoard are suitable for tiling
³ Moisture Resistant variant should be used unless in a totally dry area, refer to table 3
An outer layer of Glasroc H TileBacker 12.5mm can be added if appropriate to the system. Reducing the centres of the metal studs within GypWall partition systems can have a detrimental effect on the sound insulation performance of the system. Refer to Robustness on page 2.25. The recommendations given are based on experience and laboratory / site testing. In practice, performance will be dependent on factors such as workmanship and site conditions.

Table 2 – Tiling on wall lining systems			
Wall lining system	Board type ³	Support centres (mm)	Additional support/ comments
DriLyner Dab ¹ Dabs of Gyproc DriWall Adhesive in rows	9.5mm Gyproc WallBoard (1200mm wide)	400	For 9.5mm Gyproc WallBoard (900mm wide) support centres can be at 450mm Horizontal dabs of Gyproc DriWall Adhesive at mid-storey height
	12.5mm or 15mm Gyproc plasterboard	600	Horizontal dabs of Gyproc DriWall Adhesive at mid-storey height
DriLyner Dab ¹ Dabs of Gyproc DriWall Adhesive in rows	Gyproc ThermaLine	600	Horizontal dabs of Gyproc DriWall Adhesive at mid-storey height Nine British Gypsum Nailable Plugs through each board
DriLyner Fix ¹ Metal furring on dabs of adhesive in rows	12.5mm Glasroc H TileBacker 12.5mm or 15mm Gyproc plasterboard Gyproc ThermaLine	400	British Gypsum Drywall Screw at 300mm centres into each MF support
DriLyner Dab ¹ Blobs of Gyproc Sealant at nominal 300mm centres	12.5mm Glasroc H TileBacker Gyproc ThermaLine	300	Nine British Gypsum Nailable Plugs through each board
GypLyner Single	12.5mm Glasroc H TileBacker 12.5mm or 15mm Gyproc plasterboard (single or double layer) Gyproc ThermaLine	400	Fixing brackets at 600mm vertical centres
GypLyner Independent	1 x 12.5mm Glasroc H TileBacker	600	Mid-height support from background structure to framework
	1 x 15mm Gyproc plasterboard or Gyproc ThermaLine	400	Mid-height support from background structure to framework
	2 x 12.5mm (minimum) Gyproc plasterboard/ Gyproc ThermaLine	400	–
Timber battens	12.5mm Glasroc H TileBacker 12.5mm or 15mm Gyproc plasterboard (single or double layer) Gyproc ThermaLine	300	Horizontal battens at head, base and intermediate positions not exceeding 1200mm centres

¹ These lining systems should be left to stand for seven days before tiling begins.
² Moisture Resistant variant should be used unless in a totally dry area, refer to table 3.
The recommendations given are based on experience and laboratory/site testing.
In practice, performance will be dependent on factors such as workmanship and site conditions.

Choosing tiling boards

When designing wall linings and lightweight partition systems, the following guidance details the recommended board, application and details to use.

Guidance for high to extreme moisture environments

Planning - key factors

Glasroc H TileBacker is recommended for use as a tile backing substrate in environments subjected to moisture. The board can be used on both wall linings, lightweight partition systems and existing timber floors. Glasroc H TileBacker is not a structural grade flooring board and cannot be used as a walking surface.

Tiling

Design considerations

Moisture resistance

Glasroc H TileBacker should not be exposed to running water. Care should be taken not to over tighten screws when fixing boards and all screw heads should be fully filled with adhesive.

In areas of high and extreme moisture and humidity, extra care should be given to detailing at junctions, perimeter sealing and tiling.

Perimeter and junction sealing

Designers must give consideration to the precautions necessary at junctions to ensure that moisture is not allowed to penetrate or collect. Cut edges of boards must be appropriately sealed and waterproofed at abutments.

Waterproof sealant should be used around baths or shower trays, between the wall surface and the floor at the base of partition or wall lining, to prevent any possible moisture being absorbed by the board core.

Tanking systems

In extreme moisture environments, the exposed surfaces of Glasroc H TileBacker should be treated with a suitable tanking system.

Continuity of linings

All partitions and wall linings should be complete. There should be no omissions to board linings, e.g. behind baths.

Tiling

Before tiling commences, fully fill all edge joints included in the tiling area with tile adhesive. Install tiles following the manufacturer’s guidance, using a waterproof tile adhesive. Tiles can be applied directly to the pre-primed surface of Glasroc H TileBacker, ensuring the board is dust free prior to tiling. Ensure tiles are sealed using a waterproof grout and sealant at perimeters.

Timber stud external walls or partitions

Where tiling is specified, designers should ensure that the timber is of sufficient dimensions to give a stable base for the additional loading.

The moisture resistance of the timber should be within the limits given in BS 5268:Structural use of timber - Part 2.

Underfloor heating systems

Glasroc H TileBacker is suitable for use in conjunction with electric underfloor heating systems. Glasroc H TileBacker is installed as per standard installation, electric underfloor heating systems should be installed in accordance with manufacturers installation details. The operating temperature of the heating system should not exceed 40°C.

Guidance for low to medium moisture environments

Planning – key factors

Glasroc H TileBacker, Gyproc Moisture Resistant grade boards, Glasroc F MultiBoard or Rigidur H are recommended for intermittent moisture applications, including splashbacks. The tolerance on the finished tile surface quoted in BS 5385: Part 1, i.e. 3mm under a 2m straight edge with thin-bed adhesives, is such that it will reflect very accurately the standard of the background surface.

Perimeter and junction sealing

Designers must give consideration to the precautions necessary at junctions to ensure that moisture is not allowed to penetrate or collect. Cut edges of boards must be appropriately sealed/waterproofed at abutments.

Waterproof sealant should be used around baths or shower trays, between the wall surface and the floor at the base of partition or wall lining, to prevent any possible moisture being absorbed by the board core.

Once boards are installed, the perimeter of the wall, e.g. base, head and wall abutments, should be sealed with a waterproof sealant.

Continuity of linings

All partitions and wall linings should be complete. There should be no omissions to board linings, e.g. behind baths.

Timber stud external walls or partitions

Where tiling is specified, designers should ensure that the timber is of sufficient dimensions to give a stable base for the additional loading. The moisture resistance of the timber should be within the limits given in BS 5268: Structural use of timber - Part 2.

Tiling directly onto plasterboard

Before tiling commences, joints and taper recesses included within the tiling area should be filled with tile adhesive.

Only boards that are dimensionally stable in changing moisture conditions, such as MR grade and Glasroc H TileBacker boards should be used when tiling onto surfaces that will be subject to occasional wetting (e.g. domestic sinks and baths).

Important information

Two coats of Gyproc Drywall Sealer applied to the face of standard grade plasterboards, with the edges adequately protected from moisture may also be suitable to receive a tile finish. The application of Gyproc Drywall Sealer provides surface water absorption resistance only, and does not meet the performance requirements for moisture resistant grade boards as defined in BS EN 520, type H1.

When tiling onto surfaces in high moisture areas (but are not immersed in water) e.g. communal changing rooms, showers and pool hall areas, Glasroc H TileBacker should be used.

Where designs include part-tiled areas, e.g. low moisture environments, apply a layer of Thistle Bond-it when using moisture resistant variant boards prior to the board being plaster skimmed above the line of the tiles. Alternatively skim with ThistlePro DuraFinish on moisture resistant grade boards.

Tiling onto plastered surfaces

Skimming to plasterboards (including Gyproc Moisture Resistant boards) which are to receive tiles, is not recommended. Tiles up to 20kg/m² (including adhesive and grout) can be applied directly to Thistle finish plasters, except where the system includes a bonding agent. In this situation the total weight of tiles and plaster applied over a bonding agent is limited to 20kg/m², therefore consideration should be given to tiling directly to the background. If plastering is to provide a background for tiles, avoid polishing the surface. Polished plaster surfaces should be roughened and a suitable primer used. Consult the tile adhesive manufacturer for guidance.

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/thistle-plaster-systems



Gypsum undercoats and finish coats are designed to work together to achieve full strength and therefore tiles should not be applied directly to Thistle undercoats, with the exception of Thistle DriCoat.

Tiles should not be applied until the background and plaster are dry.

Glasroc H TileBacker on existing timber floors

Glasroc H TileBacker is designed as a tiling substrate for use on an existing timber floor, it is not suitable as a walking surface and is not a structural flooring grade board. On existing timber floors ensure the floor is structurally sound and is not subject to excessive movement or flexing as this could cause a tiled floor to crack. Place a bed of tile adhesive directly onto the floor surface. Bed the board into the tile adhesive to create a level surface. Make sure the yellow pre-primed finish faces outwards for tiling. Boards are fixed through to timber sub floor using British Gypsum Drywall Screws at 200mm centres. The length of fixing used should be selected to avoid penetrating through the floor surface into the cavity to prevent damage to any services that may be within the floor cavity.

Table 4 – Tiling weight limitations on plaster backgrounds

Background finish	Total weight supported
Thistle plaster	20kg/m² including adhesive, grout and tiles
Bonding agent plus Thistle plaster	20kg/m² including plaster, adhesive, grout and tiles

¹ In extreme moisture environments, Glasroc H TileBacker should be treated with a suitable tanking system.

Tiling

System components

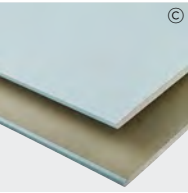
Protect tiled surfaces from moisture damage.



For illustrative purposes only.



Glasroc H TileBacker
Glasroc H TileBacker is a water resistant, glass reinforced gypsum board. Suitable as a tile backing board in areas subject to high levels of moisture.

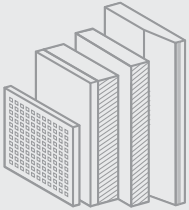


Gyproc Moisture Resistant
Gyproc Moisture Resistant is a plasterboard with water repellent additives in the core. Use it in intermittent moisture applications such as kitchens, bathrooms and sheltered external soffits.

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...**

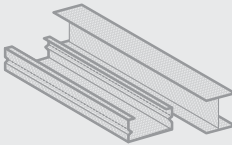
What are you fixing?

Our market leading range of plasterboard linings for walls, ceilings, floors, partitions and encasements for any building type. See **british-gypsum.com** for more details.



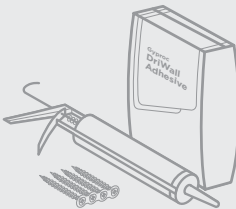
What are you fixing to?

Our Gypframe metal profiles provide a strong and versatile structure for fixing our partition lining, floor and ceiling systems. See **british-gypsum.com** for more details.



What are you fixing with?

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



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