

# Tiling

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Guidance on applying tiling to the full range of Gyproc partition and lining systems



## Tiling

Tiles can be applied to drylined walls or to the surface of lightweight partition systems. Tiling can be carried out in any type of building, either in dry areas or in areas subject to intermittent moisture conditions. Typical applications include domestic and commercial shower areas, toilets, bathrooms and kitchens. Tiles up to 12.5mm thick with a maximum weight of 32 kg/m<sup>2</sup> (including grout and adhesive) for Gyproc Plasterboard and 60 kg/m<sup>2</sup> (including grout and adhesive) for Glasroc X and Aquaroc FC boards can be accommodated. The tiles are fixed using a suitable tile adhesive from Saint-Gobain Weber.



### Key Benefits



Suitable for domestic and commercial showers, toilets, bathrooms and kitchens



A range of board types including M2TECH and Glasroc X solutions are available



Accommodates tile weights upto 60 kg/m<sup>2</sup> depending on board lining type



Eligible for the SpecSure warranty from Gyproc

## System components

### Board products



#### Gyproc Moisture Resistant<sup>1</sup>

(12.5, 15mm)

Gypsum plasterboard with moisture resistant additives in the core and special green lining paper for easy recognition



#### Gyproc M2TECH<sup>1</sup>

(12.5, 15mm)

Gypsum plasterboard with water repellent and mold resistance additives



#### Gyproc FireStop MR<sup>1, 2</sup>

(12.5, 15mm)

Gypsum plasterboard with fire resistant and water repellent additives



#### Glasroc X<sup>1</sup>

(12.5mm)

High performance board with a glass-mat liner on both surfaces and a mold & moisture resistant (M2TECH) gypsum core



#### Gyproc SoundBloc MR<sup>1</sup>

(12.5, 15mm)

Gypsum plasterboard with a high density core and water repellent additives for enhanced sound insulation performance in wet areas



#### Aquaroc FC

(6, 9, 12, 15mm)

Fibre cement board with excellent moisture resistant characteristics and mechanical strength



#### Gyproc DuraLine<sup>1, 2</sup>

(15mm)

Gypsum plasterboard with fire resistant additives and a high density core for enhanced sound insulation and impact resistance performance

<sup>1</sup> Available with Activ'Air

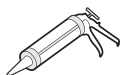
<sup>2</sup> Available with M2TECH technology

**NB** In dry conditions any paper faced Gyproc board is a suitable substrate for tiling.

**NB** Tapered edge plasterboards are normally used where part-height tiling occurs. Square edge boards can be used to suit full height and width tiling.



### Fixing and finishing products



#### Waterproof sealant

(by Saint-Gobain Weber)

Provides corner reinforcement and protection to plasterboards and plasters.



#### Tile adhesive

(by Saint-Gobain Weber)



#### Tiles (by others)

A galvanised steel channel which forms a defined edge to plasterboard areas.

Weight<sup>1</sup>

For Gyproc Plasterboards -  
32 kg/m<sup>2</sup> for tiles  
upto 12.5mm thick

For Aquaroc FC  
board - 60 kg/m<sup>2</sup>  
for tiles upto 20mm  
thick

For Glasroc X -  
60 kg/m<sup>2</sup> for tiles  
upto 20mm thick

<sup>1</sup> Maximum including adhesive and grout

## Design

### Planning - key factors

Gyproc moisture resistant (MR), mold & moisture resistant (M2TECH) grade boards or Glasroc X, Aquaroc FC boards are recommended for intermittent moisture applications, including splashbacks.

Alternatively, for splashbacks, boards may be coated with two coats of sealer (by others) to prepare for tiling. Cut edges of plasterboards must be appropriately sealed / caulked at abutments.

The tolerance on the finished tile surface quoted in BS 5385: Part 1, i.e. 3mm under a 2m straightedge with thin-bed adhesives, is such that it will reflect very accurately the standard of the background surface. Tolerance standards for drylining and partition systems are also given in BS 8212.

Two coats of 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 sealer provides additional surface water absorption resistance only when applied directly to a plasterboard, and does not meet the performance requirements for moisture resistant grade boards as defined in BS EN 520: Type H1, ASTM C1396 - Type 7, ASTM C1658. The surface water absorption of cement based products, including Aquaroc FC will vastly improve after applying two coats of sealer.

### Detailing at junctions

Designers must give consideration to the precautions necessary at junctions to ensure that moisture is not allowed to penetrate or collect, e.g. at the base of walls where showers are specified with tiling to plasterboard, and at other junctions such as bath edges.

### Services

The cavity above the metal framework facilitates the incorporation of services. Pipes and conduits should be fixed in position before installing the framing. Where light fittings, access panels and similar components are incorporated as part of the design requirements, consideration must be given to maintaining the integrity of the ceiling to meet fire resistance and sound insulation requirements. Refer to Service installations - section 3.4

### Fixtures

Fixtures with a maximum weight of 3kg, e.g. single lights, can be fixed into the channels. For other fixtures, independent suspension should be provided from the structure.

### Board finishing

Refer to Finishing systems.

Table 1 - Tiling on partition systems

Partition system	Board type	Stud centres mm	Additional support / comments
<b>GypWall CLASSIC</b>	1 x 12.5mm Glasroc X	600	-
	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 6mm (minimum) Aquaroc FC board each side	400	-
	1 x 15mm Gyproc plasterboard each side or 2 x 12.5mm (minimum) Gyproc plasterboard each side	400	If using Gypframe 150mm studs, they can be located at 600mm centres to full partition height with extra studs to give 300mm centres up to tiling height
<b>GypWall ROBUST and GypWall HABITO</b>	1 x 15mm Gyproc plasterboard each side or 2 x 12.5mm (minimum) Gyproc plasterboard each side	400	If using Gypframe 150mm studs, they can be located at 600mm centres to full partition height with extra studs to give 300mm centres up to tiling height
<b>GypWall QUIET and GypWall AUDIO</b>	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 12.5mm Glasroc X board each side	600	-
	2 x 12.5mm (minimum) Gyproc plasterboard each side or 2 x 12mm (minimum) Aquaroc FC each side	400	-
<b>GypWall QUIET SF</b>	Tiles over double layer lining board fixed on Gypframe RB1 Resilient Bar side	600 <sup>1</sup>	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 <sup>1</sup>	-
<b>ShaftWall</b>	1 x 15mm Gyproc FireStop	300	-
	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 6mm (minimum) Aquaroc FC board each side	300	-
	2 x 12.5mm (minimum) Gyproc FireStop	600	Gyproc Sealant applied in a full height continuous vertical bead midway between studs

<sup>1</sup>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.

<sup>2</sup>Moisture Resistant variant should be used unless in a totally dry area.

**NB** An outer layer of Glasroc X 12.5mm can be added if appropriate to the system.

**NB** Reducing the centres of the metal studs within GypWall partition systems can have a detrimental effect on the sound insulation performance of the system.

**NB** 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

Partition system	Board type	Stud centres mm	Additional support / comments
<b>DriLyner BASIC</b> <sup>1</sup>	12.5mm (minimum) Gyproc plasterboard or 12mm or 15mm Aquaroc FC board	400	Horizontal dabs of Gyproc Plasterboard Adhesive at mid-storey height
	12.5mm Glasroc X board	600	Horizontal dabs of Gyproc Plasterboard Adhesive at mid-storey height
<b>GypLyner UNIVERSAL</b>	12.5mm Glasroc X board	600	Fixing brackets at 600mm vertical centres
	12mm (minimum) Aquaroc FC board	400	Fixing brackets at 600mm vertical centres
	12.5mm or 15mm Gyproc plasterboard (single or double layer)	400	Fixing brackets at 600mm vertical centres
<b>GypLyner IWL</b>	1 x 12.5mm Glasroc X board	600	Mid-height support from background structure to framework
	Inner layer 12.5mm (minimum) Gyproc plasterboard and outer layer 6mm (minimum) Aquaroc FC board each side	400	Mid-height support from background structure to framework
	1 x 15mm Gyproc plasterboard	400	Mid-height support from background structure to framework
	2 x 12.5mm (minimum) Gyproc plasterboard or 2 x 12mm (minimum) Aquaroc FC board	400	-

<sup>1</sup> Should be left to stand for seven days before tiling begins.

<sup>2</sup> Moisture Resistant variant should be used unless in a totally dry area..

**NB** 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.