

Introduction

Gyprex BIO is a vinyl-faced gypsum tile used with **CasoLine QUICK-LOCK GRID** to form a demountable suspended ceiling. It has a smooth, wipeable, surface with an integral biocide providing antimicrobial properties suitable for hygienic applications.

Product description

Gyprex BIO is a vinyl faced gypsum tile used with **CasoLine QUICK-LOCK GRID** to form a demountable suspended ceiling. It contains an integral Biocide preventing the growth of fungi and bacteria, including MRSA, Ecoli 0157 and Salmonella. Available in 600mm x 600mm or 1200mm x 600mm size formats, Gyprex BIO is ideal for use in commercial ceiling installations where the highest levels of hygiene are required.

Product performance

Antimicrobial performance

Gyprex BIO contains an integral Biocide preventing the growth of fungi and bacteria, including MRSA, Ecoli 0157 and Salmonella. The biocide is an integral component of the vinyl, and will continue to offer protection for the lifespan of the tile.

Moisture resistance

Gyprex BIO is 80 times more water resistant than mineral fibre, greatly reducing the risk of unsightly staining. It is suitable for use in areas up to 90% relative humidity.

Durability

Gyprex BIO is a robust tile with greater resistance to scratches, dents and damage than equivalent non-gypsum based systems.

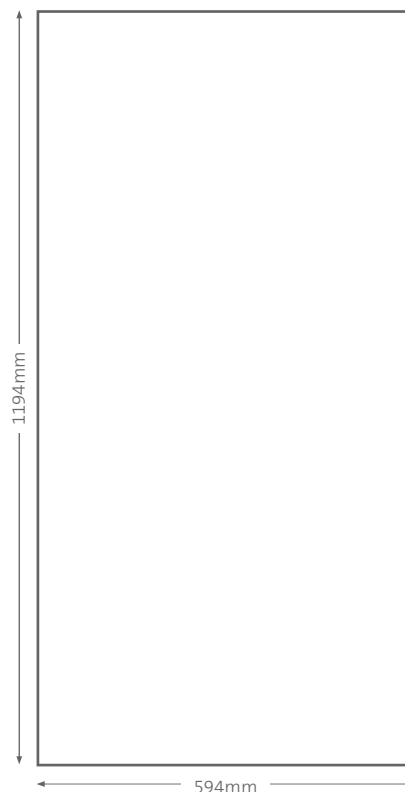
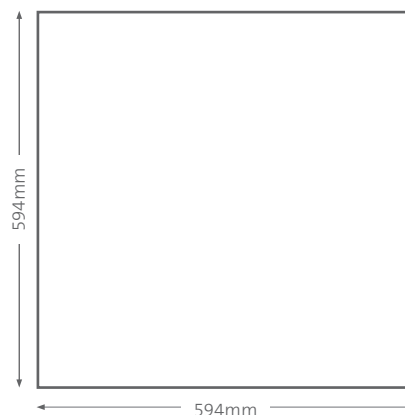
Physical properties

Tile size ¹	600mm x 600mm
	1200mm x 600mm
Thickness	8mm
Edge type	A Edge
Colour	White
Finish	Smooth, unperforated finish
Mass	6.2 kg/m ²

Product performance

Acoustic performance	D _{new} up to 37 dB in accordance with <i>BS EN 20140-9: 1994</i> and rated in accordance with <i>BS EN ISO 717-1:1987</i>
Light reflectance	88%
Reaction to fire	Class 0, Euroclass B-s1, d0
Fire resistance	30 minutes to <i>BS476 Part 23</i> when used with CasoLine QUICK-LOCK GRID grid and hangers
Moisture resistance	Max 90% relative humidity
Temp resistance	Max 49°C continuous exposure
Water vapour resistance	45 MNs/g
Loading capability	Max 3kg per tile without pattering, max 2mm deflection

¹ Gyprex tiles are designed for 600mm x 600mm or 1200mm x 600mm grid systems. Actual dimensions are 594mm x 594mm and 1194mm x 594mm (+2/-1mm tolerance).



Application and installation

Handling and storage

British Gypsum fully accepts its responsibilities as a supplier of building materials and systems as required by Section 6 of the Health and Safety at Work Act 1974. However, in designing and installing systems incorporating British Gypsum products, full consideration must be taken of the legal requirements of:

1. Manual Handling Operations Regulations.
2. Construction (Design and Management) Regulations.
3. Control of Substances Hazardous to Health Regulations (COSHH).

Installation

Products should be installed in accordance with relevant British Standards, in particular, reference should be made to *BS 8290:1991 – Suspended ceilings*, which is published in three parts: Part 1 Code of Practice for Design. Part 2 Specification for performance of components and assemblies. Part 3 Code of Practice for installation and maintenance.

Gyprex 810 ceiling tiles are marked with a directional arrow on the reverse and should always be installed with this in alignment to ensure total consistency of pattern and shade in a production batch.

Fixtures

The strength of Gyprex 810 ceiling tiles will support a point load of up to 3kg / tile for max. 2mm deflection. This will normally allow fittings such as spot lights or down-lighters to be installed without the need for a support patrix.

Environment

Gyprex 810 ceiling tiles have been tested in accordance with *BS 8290:Part 2* and are suitable for use under high humidity conditions – 90% RH at 25°C.

Gyprex 810 ceiling tiles are unsuitable for use in areas subject to continuously damp or humid conditions above 90% RH, or in elevated temperatures consistently above 49°C. They can be exposed to freezing temperatures without risk of damage.

Recyclability

The gypsum core of Gyprex tiles is 100% recyclable. **CasoLine QUICK-LOCK GRID** is also 100% recyclable.

Product standards

All British Gypsum ceiling products are manufactured under management systems which have been independently audited and certified as conforming with *ISO 9001:2000*. Gyprex 810 conforms to *BS EN 14190:2014* Gypsum plasterboard from reprocessing – definitions, requirements and test methods.

Maintenance

The vinyl surface of Gyprex 810 ceiling tiles can be cleaned using a damp cloth with water and a mild detergent. Cleaning will not affect the antimicrobial performance of Gyprex 810.

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British Gypsum reserves the right to revise product specification without notice. The information herein should not be read in isolation as it is meant only as guidance for the user, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of work. For a comprehensive and up-to-date library of information visit the British Gypsum website at: british-gypsum.com. For information about products supplied by Artex Limited or Saint-Gobain Isover please see their respective websites.

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