

GypCeiling Concealed Identification

Create exciting designs with excellent acoustic absorption with our demountable concealed grid ceiling system

GypCeiling Concealed hides the grid for smooth, harmonious ceilings.

The grid system is easy to install and uses Gyptone acoustic ceiling tiles to boost both aesthetics and acoustics. All Gyptone acoustic ceiling tiles contain ACTIVair® to improve indoor air quality.

Gyptone products containing ACTIVair® can be used with this system. ACTIVair® makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.



Why specify GypCeiling Concealed?

Conceals tile joints to create seamless ceilings

Provides up to Class C acoustic absorption for better sounding spaces

Comes with our **SpecSure®** lifetime warranty when you use the full system including our CasoLine Quick-Lock Grid components

Easy to install due to simple connections between main and cross tees as well as specially designed tile edges

Allows you to access services in ceilings by simply removing tiles by hand



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

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For illustrative purposes only.

GypCeiling Concealed

Design considerations

GypCeiling Concealed comprises a 24mm wide metal frame grid of CasoLine Quick-Lock Grid 24/38 Main Tees and CasoLine Quick-Lock Wall Angles. Gyptone D2 tiles are then installed.

Planning – key factors

Set out ceilings from the centre of the room to give balanced widths of tiles at perimeters. Refer to construction detail 1 on page 9.60 for configuration option. Refer also to BS EN 13964: 2014, Suspended Ceilings. Requirements and test methods.

Relative humidity

The grid components are suitable for use in heated occupied buildings in conditions up to 90% relative humidity (RH90). Gyptone tiles are suitable for conditions up to RH70.

Cavity barriers

Form cavity barriers, if needed, with Gyproc FireLine or Glasroc F MultiBoard screw-fixed to a suitable frame. Fix the framing to the structure to avoid undue loading of the ceiling suspension grid. Fix the bottom of the framework to the ceiling grid.

Fire stopping

You must provide suitable fire stopping at the junction of a cavity barrier with the structural perimeter and the ceiling. Fire stopping materials must also be installed around service penetrations through the cavity barrier.

Fixtures

For further information on boards and fixtures please refer to Technical Support on british-gypsum.com

Services

You can use the ceiling void above the suspension grid to route all service requirements including ducting, pipework, electrical cables, and conduits. Ducting, ventilation units, etc, must be independently supported from the structure.

Maintenance

Clean ceiling tiles with a damp cloth or soft brush. Most standard mild detergents can be used. You can re-decorate Gyptone tiles, if needed, using a suitable emulsion paint and a short-haired brush or roller. Spray painting will reduce acoustic performance.

Table 1: Light reflectance		
Ceiling product	Paint reference	Light reflectance
Gyptone Base 31	NCS 0500	70%
Gyptone Point 11	NCS 0500	70%
Gyptone Quattro 20	NCS 0500	70%
Gyptone Quattro 50	NCS 0500	70%
Gyptone Quattro 22	NCS 0500	70%
Gyptone Line 4	NCS 0500	70%
Gyptone Sixto 60	NCS 0500	70%

NB: Light reflectance test conducted in accordance with ASTM E1477-98.

Gyptone tiles with ACTIVair®

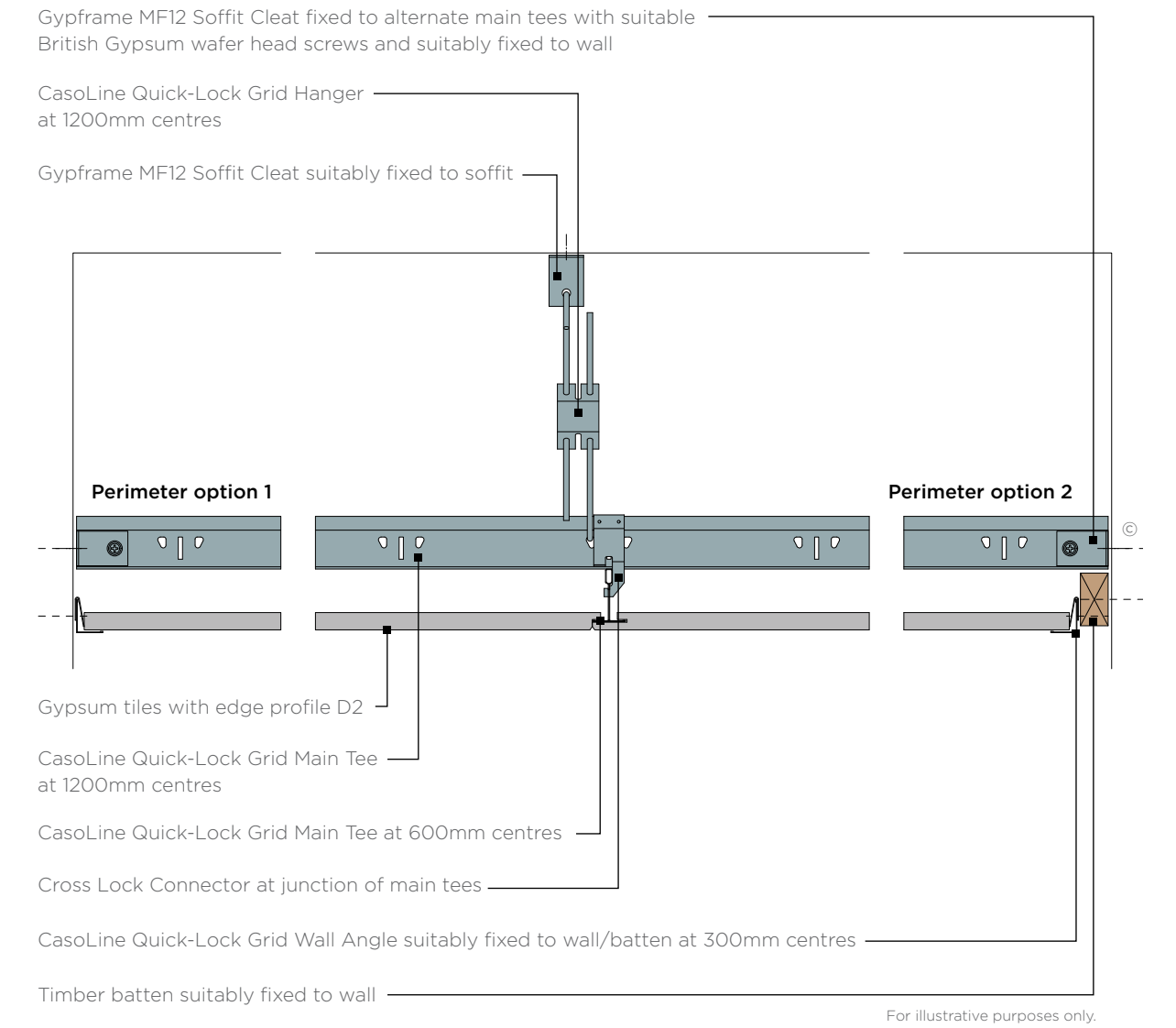
Volatile Organic Compounds (VOCs), including formaldehyde are invisible, yet are often present in the air we breathe. They are emitted from furniture, carpets and building materials. Long-term exposure can potentially cause health problems and reduce general wellbeing. Studies show that clean air can 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.

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Construction details

1. Perimeter options 1 and 2 for D2 tile



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.

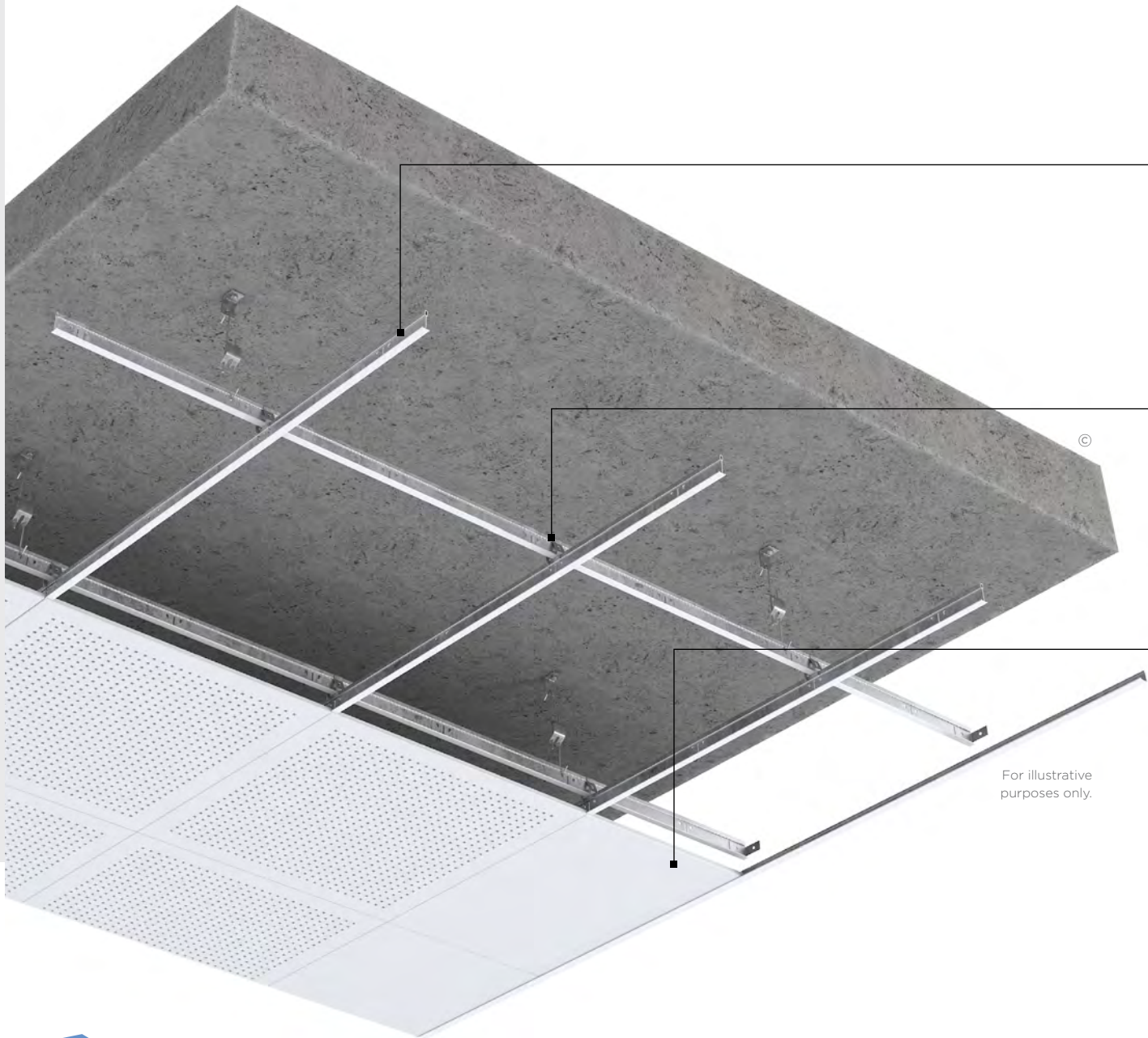
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GypCeiling Concealed

System components

Create exciting designs with excellent acoustic absorption with our demountable concealed grid ceiling system



CasoLine Quick-Lock 24/38 Main Tees
A 24mm Main Tee profile used to span the room as the primary component within the GypCeiling Concealed systems.



Cross Lock Connector
The Cross Lock Connector allows the primary and secondary T24 main tees to be connected.

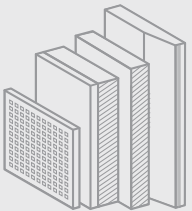


Gyptone tiles
Gypsum ceiling tile that combines good looks and acoustic performance. Modern appearance combine with an acoustic fleece backing to absorb unwanted noise and make sounds like speech much clearer. At the same time, ACTIVair® makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air. Gyptone Edge D2 tiles are specifically designed for GypCeiling Concealed.

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

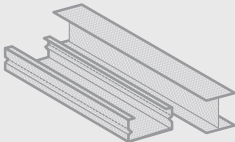
What are you fixing?

Our high-performance ceilings range includes stylish plain and perforated gypsum boards and tiles, that provide up to Class C sound absorption. See **british-gypsum.com** for more details.



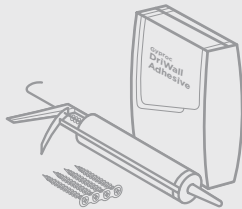
What are you fixing to?

Versatile metal framing and grid structures that provide strong and adaptable solutions for our 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



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

GypCeiling Concealed Installation

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



Place the CasoLine Quick-Lock Grid Wall Angle against the wall and ensure it's level, fix with suitable fixings at maximum 300mm centres.

Important note - The first screw should be no more than 50mm from a corner. The wall angle should not be shorter than 300mm. If the foundation is uneven mount a thin wooden list behind the wall angle.



Place CasoLine Quick-Lock Grid Hangers for the CasoLine Quick-Lock Main Tee 24/38 at 1200mm rows. Squeeze the hook of the hanger together with a pair of pliers. The hangers should be adjusted, so the CasoLine Quick-Lock Main Tee 24/38 is elevated 44mm above the wall angle.

Important note - Check the main beam is a maximum of 300mm from the wall. Check the first hanger in the main beam is a maximum of 300mm from the wall. If connecting CasoLine Quick-Lock Main Tee 24/38s the couplings should be pushed together until they click.



When installing D2 tiles place Cross Lock connectors a centre distance of 600mm on the CasoLine Quick-Lock Main Tee 24/38 (maximum 600mm from the wall).

Important point - For safety and for a stabile connection between the CasoLine Quick-Lock Main Tee 24/38 and the cross profile, fold the locking mechanism on the Cross Lock connector with a pair of pliers. The cross profiles and CasoLine Quick-Lock Main Tee 24/38s are located above the wall angle. Once the grid system is adjusted, every second CasoLine Quick-Lock Main Tee 24/38 should be connected to the wall with a connecting bracket.



When installing the Gyptone edge D2, lift the E edge side of the tile, the E edge up above the cross profile. Then slide the opposite side of the tile, the D2 edge, into the opposite cross profile. When the tile is mounted in the grid system, it can be slide into place.

When mounting the last tile against the wall, place two wall springs for each tile. The short side of the spring is squeezed down between the wall angle and the wall. Wall springs are installed before the last tiles are laid into the grid system.

Important information - All installations should be finished before mounting the D2 tiles. Always start in the centre of the room, when laying the tiles into the grid system.