Gyptone acoustic ceilings - BIG boards

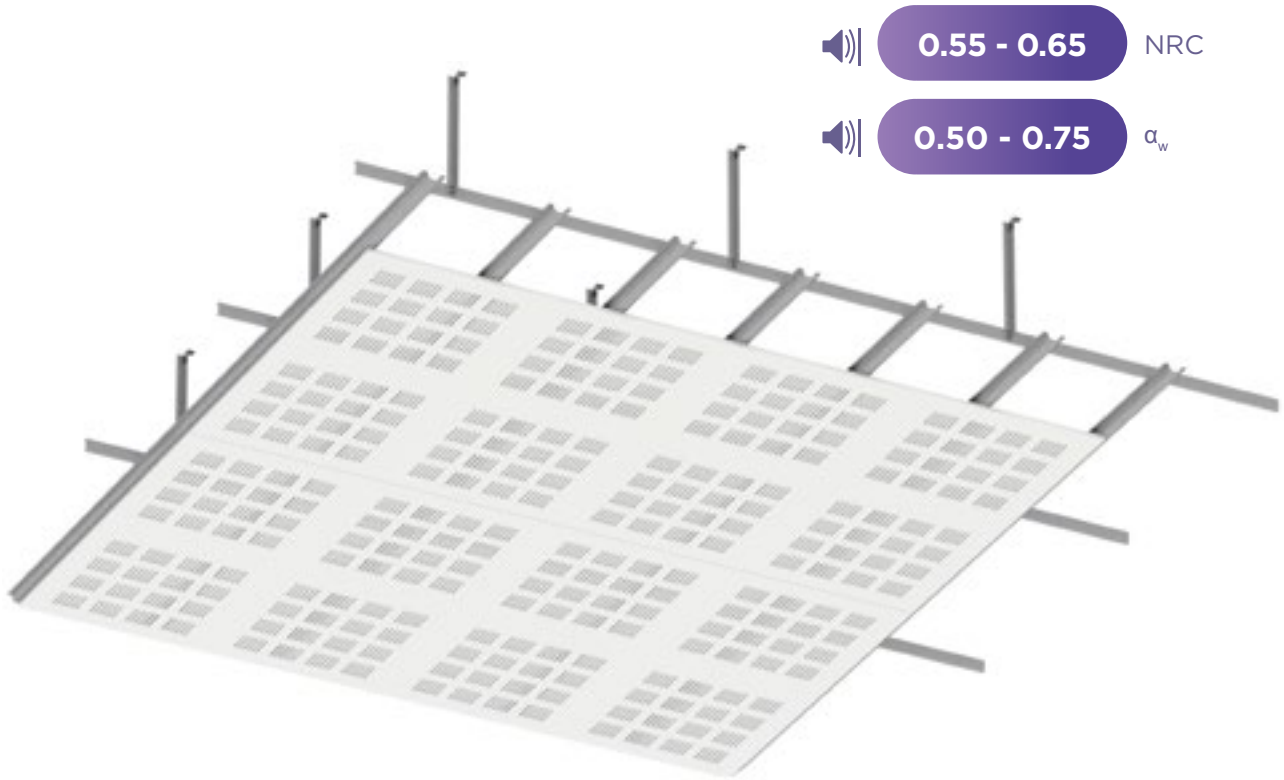
Perforated acoustic solution with geometric set pattern and Activ'Air functionality

GEMS International School
Al Khail
Dubai

Gyptone acoustic ceilings - BIG boards

Gyptone BIG Boards are the ideal solution for large rooms that need an acoustic ceiling without any visible joints between the boards. The boards have a strong surface and even stronger connections, which makes them suitable for walls as well.

With Gyptone BIG Boards, you combine attractive design with excellent documented acoustic performance, in full compliance with the most stringent requirements for reverberation and speech intelligibility.



Key Benefits

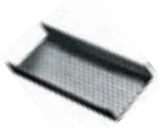
- Sound absorbing solutions with reverberation control
- Easy cleaning & maintenance
- Fast and easy installation
- Improves indoor air quality
- Sustainable & 100% recyclable
- Gyptone boards are made with tapered edges on all sides

Eligible for the SpecSure warranty from Gyproc

System components

Gypframe metal components

Gypframe MF5 Ceiling Section
Secondary section supported by Gypframe MF7, used to receive board lining



Gypframe MF7 Primary Support
Primary section to support Gypframe MF5 Ceiling Section

Gypframe Shadow Angle
A primed, pre-formed aluminium trim for design effects on Gyproc MF ceilings

Gypframe GA1 Steel Angle
Primarily used as a perimeter wall angle and ceiling hanger in the Gyproc MF Ceiling system

Gypframe Soffit Cleat with Nut & Bolt
Cleat for suspending MF ceiling Gypframe GA1 Steel Angle hangers from soffit

Board products

Gyptone BIG Quattro 41
Achieves high levels of acoustic absorption with a 12mm square cut out design giving a total perforated area of 16%

Gyptone BIG Line 6
A line cut out design of 6mm x 80mm giving a total perforated area of 13% and high levels of acoustic absorption

Gyptone BIG Sixto 63
Perforated plasterboard with hexagonal perforation that, together with acoustic backing tissue, provides good acoustic properties. Perforation area 15%

Gyptone BIG Quattro 71
Perforated plasterboard with 3x3mm small square perforations that, in combination with acoustic backing tissue, provides good acoustic properties. Perforation area 9%

ACTIV air

System components (continued)

Fixing products

Gyproc Drywall Screws
Corrosion resistant self-tapping steel screws for fixing board to metal framing less than 0.8mm thick

Gyproc Waferhead Screws
Corrosion resistant self-tapping steel screws for fixing metal to metal framing less than 0.8mm thick

Gyproc Jack-Point Screws
Corrosion resistant self-drilling steel screws for fixing boards to Gypframe metal framing 0.8mm thick or greater

Gyproc Waferhead Jack-Point Screws
Corrosion resistant self-drilling steel screws for fixing metal to metal framing 0.8mm thick or greater

Gyproc Wedge Anchor
Corrosion resistant anchor used for fixing fire rated partition and ceiling systems into masonry

Gyproc Hammer Fix
Corrosion resistant nail, screw engaged in a nylon plug, suitable for fixing non fire rated partition systems and ceiling perimeters into masonry

Corners

Gyproc Drywall Corner Bead
Provides corner reinforcement and protection to plasterboards and plasters

Levelline Flex
Adjustable corner reinforcement that flexes to any angle and gives high levels of impact protection

Gyproc Metal Corner Tape
High quality paper joint tape strengthened with two corrosion-resistant galvanised steel strips for the finishing of internal and external angles in drywall construction

Gyproc Drywall Metal Edge Bead
A galvanised steel channel used to protect plasterboard edges and to form a defined edge commonly used around window reveals

Plasterboard accessories

Gyproc Jointing Compound
Air-drying, asbestos free, ready mixed compound for filling and finishing plasterboard joints and corner beads

Gyproc Paper Tape
Designed for reinforcing flat joints when finishing plasterboard joints providing improved resistance against cracking

Insulation products

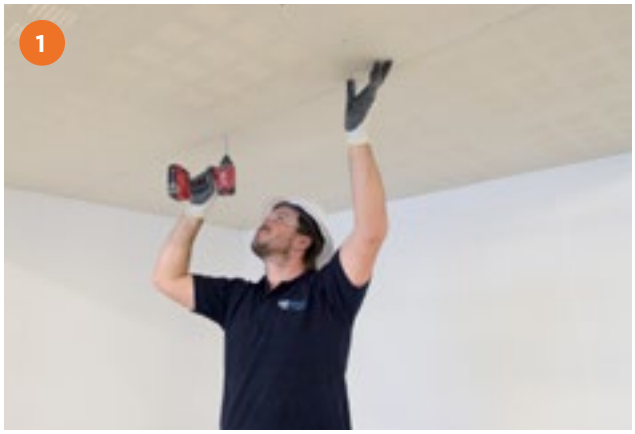
ISOVER Eco Acoustic Partition Roll (APR)
(25, 50, 75 and 100mm)*
Non-combustible glass mineral wool roll for sound insulation in partitions, linings and ceiling systems

Minimum density: 16 kg/m^3

* Available in other thickness and density

Installation overview

Please refer to Gyproc MF ceiling installation guidelines for basic framing instructions and refer to the steps below for installation instructions of Gyptone BIG boards.



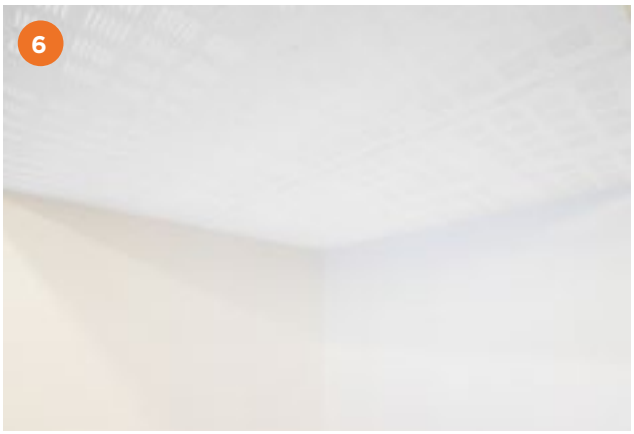
Install Gypframe ceiling framework as described in the Gyproc mf ceiling section ensuring that Gypframe MF5's are installed at 600mm centres. Set out the ceiling ensuring Gyptone boards are installed perpendicular to the MF5's and Gyptone patterns are aligned.

Fix Gyptone BIG boards using 25mm Gyproc Drywall Screws. Screws are inserted at 200mm centres, 15mm from board edges and 50mm from corners.

Gyptone BIG boards have all four edges tapered to allow for true flat joints to be created at each board interface to give a perfectly flat finished ceiling. Bed Gyproc Paper Tape firmly into Gyproc Jointing Compound and bulk fill the taper edge joints.

When set, sand if necessary and apply a further coat of Gyproc Jointing Compound and trowel flat taking care not to fill the perforations in the board. Lightly sand to a flat finish and dust off.

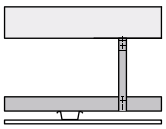
Screw heads are then filled with Gyproc Joint Compound and sanded back to a smooth finish.



Painting of Gyptone BIG boards is to be done with a short haired mohair roller. Boards should not be spray painted as this affects the sound absorption performance.

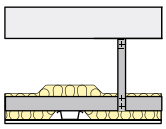
Table 1 - Gyptone sound absorption performance based on ISO 354

1



Gyptone ceiling beneath basic floor. Ceiling linings as in table.

2



Gyptone ceiling suspended beneath basic floor, with Insulation in the cavity. Ceiling linings as in table.

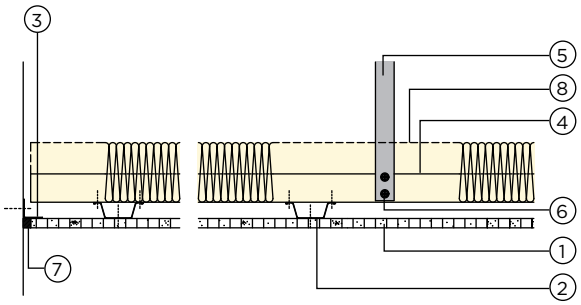
Suspension frame work:

- Gypframe MF7 Primary Support Channel: 1200mm centres
- Gypframe GA1 Hangers fixed to soffit using Gypframe Soffit Cleat: 1200mm centers
- Gypframe MF5 Ceiling Section: 600mm centres

Detail	BIG Board type	Insulation	Plenum depth	Sound absorption	
			mm	NRC	α_w
1	Quattro 41	-	200	0.65	0.65
2	Quattro 41	50	400	0.65	0.75
1	Line 6	-	200	0.55	0.50
2	Line 6	50	400	0.55	0.60
2	Line 6	100	400	0.65	0.65
1	Sixto 63	-	200	0.60	0.60
2	Sixto 63	25	200	0.60	0.65
2	Sixto 63	75	300	0.65	0.70
1	Quattro 71	-	200	0.55	0.55
2	Quattro 71	75	300	0.55	0.55

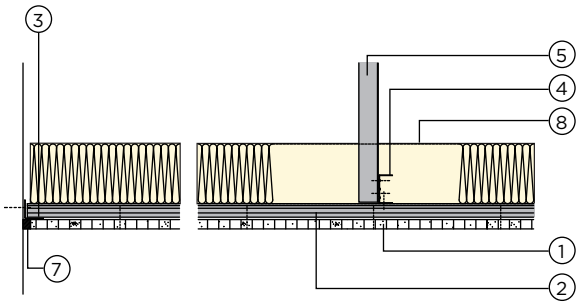
Construction details

1



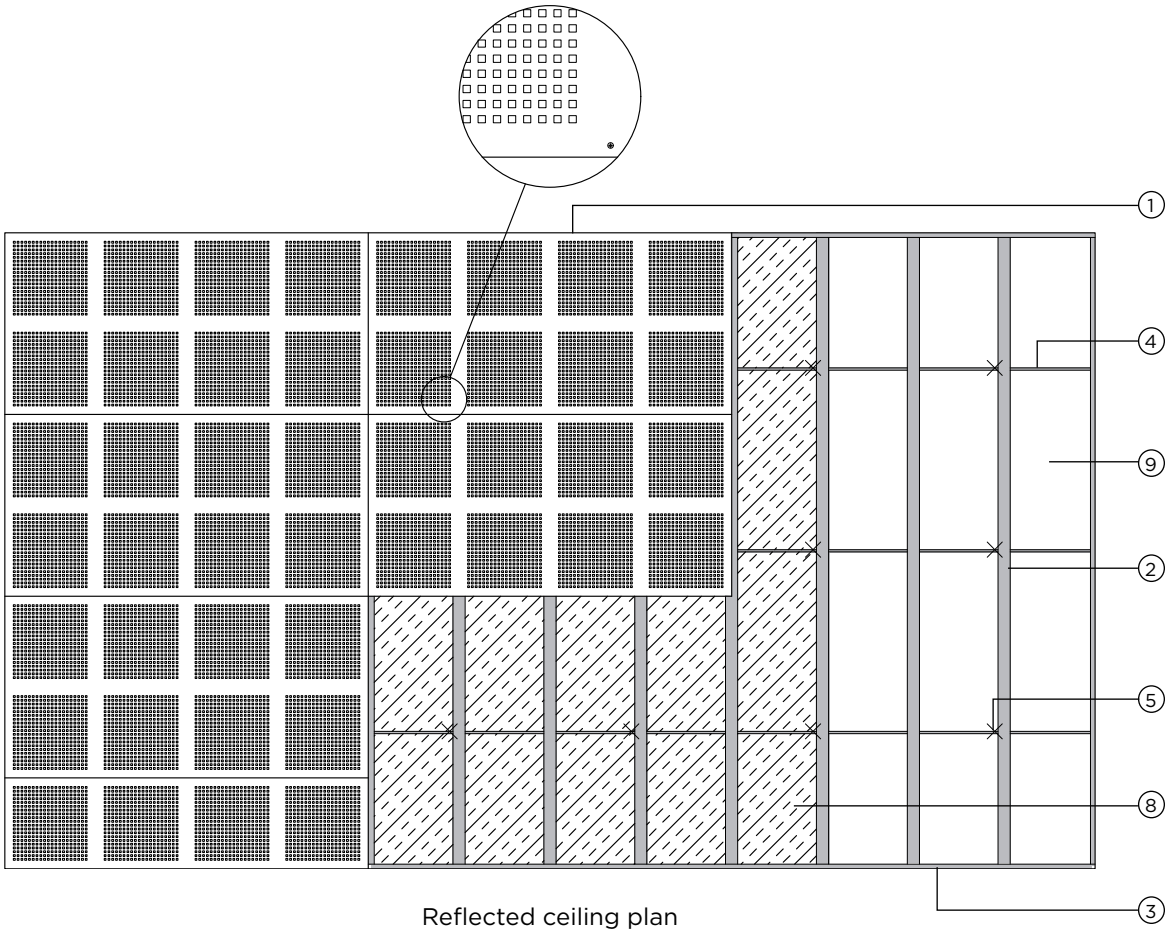
Perimeter detail parallel to Gypframe MF5

2



Perimeter detail perpendicular to Gypframe MF5

3



Reflected ceiling plan

1. Gyptone BIG board
2. Gypframe MF5 Ceiling Section
3. Gypframe GA1 Perimeter Angle
4. Gypframe MF7 Primary Support Channel
5. Gypframe GA1 Steel Angle hanger
6. Gyproc Waferhead Jack-Point Screw
7. Gyproc Jointing Compound
8. ISOVER Eco APR
9. Concrete soffit

Notes