



Installation Guide

Gboard[®] Deciloc

BEAM Consolidated is the leading manufacturer of finishing building materials in the region. Our expertise in manufacturing is refined by years of research and development. We provide durable finishing building materials and solutions. Our manufacturing process takes place in our facilities spread across the MENA region.

With more than 50 years of experience in the industry, we refined our manufacturing methods to produce the highest quality products. Our aptitude in the sector, our technology, and our team of experts, enable us to design and manufacture efficient construction products, systems, and solutions.

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ACOUSTIC PARAMETERS

Building acoustics are the science of controlling noise in buildings. This includes the minimization of noise transmission from one space to another and the control of the characteristics of sound within spaces. It is especially important to control noise and sound to improve the work and living quality of the building's occupants.

Building acoustics are a significant factor in the design, operation, and construction of most buildings like residential buildings, concert halls, hospitals, schools.

Noise pollution has several impacts on mental and physical health. Some solutions have been developed in construction to help reduce sound transmission through walls and ceilings therefore reducing the negative health impact that might occur as a result of neglecting the importance of sound insulation.

BEAM Consolidated offers a wide range of solutions for sound insulation in ceilings, walls, and linings. Our acoustic sound blocking boards and systems reach high attenuation ratings due to fiberglass reinforcements in addition to proprietary elements in the design mix of the plasterboards and the system components.

The acoustic parameters that mainly influence the performance of the system are the following:

Decibels (dB)

The intensity of sound is measured in Decibels (dB). An increase of 10 dB gives a detectable doubling of volume intensity.

The sound pitch is calculated in Hertz (Hz) which is the standard unit of measurement for frequency; Humans have an audible range of sound from 20 Hz to 20,000 Hz.

Sound Transmission Class (STC) / (OITC)

Originally used to evaluate transmission through interior walls only, today STC is used to assess almost all types of barriers: exterior walls, interior walls, windows, and doors.

STC (dB)	WHAT CAN BE HEARD
25	Normal speech can be understood
30	Loud speech can be understood
35	Loud speech audible but not intelligible
40	Loud speech audible as a murmur
45	Loud speech heard but not audible
50	Loud sounds faintly heard
60+	Good soundproofing: most sounds do not disturb neighboring residents

The OITC rating system was designed to measure the transmission of street sounds (such as car horns, sirens, construction, and low-flying airplanes) through exterior walls, windows, and facade elements.

Noise Criteria (NC)

Noise criteria measures background noise in empty buildings and rooms. The method consists of a set of criteria curves extending from 63 to 8000 Hz. The criteria curves characterize the limits of the octave band spectra that must not be surpassed.

SPACE TYPE	RECOMMENDED NC LEVEL NC CURVE	SPACE TYPE	RECOMMENDED NC LEVEL NC CURVE
RESIDENCES		HOSPITALS & CLINICS	
Apartments/ Houses	25 - 35	Private rooms	25 - 30
Assembly halls	25 - 30	Operating rooms	25 - 30
Churches	30 - 35	Wards	30 - 35
Courtrooms	30 - 40	Laboratories	35 - 40
Factories	40 - 65	Corridors	30 - 35
Private homes, rural and suburban	20 - 30	Public areas	35 - 40
Private homes, urban	25 - 30	SCHOOLS	
HOTELS/MODELS		Lecture & classrooms	25 - 30
Individual rooms or suites	25 - 35	Open-plan classrooms	35 - 40
Meeting or banquet rooms	25 - 35	Movie motion picture theaters	30 - 35
Service & support areas	40 - 45	Libraries	35 - 40
Halls/ Corridors/ Lobbies	35 - 40	Legitimate theaters	20 - 25
OFFICES		Private residences	25 - 35
Conference rooms	25 - 30	Restaurants	40 - 45
Private	30 - 35	TV broadcast studios	15 - 25
Open-plan areas	35 - 40	Recording studios	15 - 20
Business machines/ Computers	40 - 45	Concert and recital halls	15 - 20
		Sport coliseums	45 - 55
		Sound broadcasting	15 - 20

Ceiling Attenuation Class (CAC)

Ceiling Attenuation Class indicates the ceiling’s capacity to stop airborne sound from traveling between adjacent rooms. CAC measures the ability to block sound from one room to the next. The higher the number, the better. Ceilings with a CAC of 35 or greater in closed offices are typical.

CAC MEASUREMENTS FOR TYPICAL CEILINGS	
High CAC mineral fiberboard	40 CAC
Typical mineral fiberboard	35 CAC
Fiberglass with CAC backing	25 CAC
Non-backed fiberglass	15 CAC

Articulation Class (AC)

In situations where the walls of a room do not extend all the way to the ceiling, such as adjustable office partitions or partial height furniture, the proper measure is the articulation class (AC) rating. Just like the CAC, a higher rating means that sound is reduced and transferred less between office workspaces.

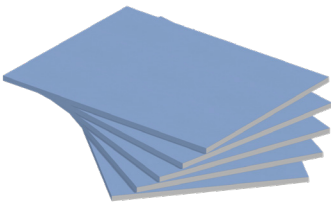
AC ≥ 200 is best for open plan areas.

AC MEASUREMENTS FOR DIFFERENT INSULATION MATERIALS	
Drywall/Glass	120 AC
Standard mineral fiber	140 - 160 AC
High-performance mineral fiber	170 - 180 AC
High-performance fiberglass	190 - 210 AC



ABOUT GBOARD® DECILOC

Gboard® Deciloc is a complete sound barrier due to its high density and high fibre content. When installed in a Gboard® partition system, ceiling, or dry lining system, sound transmission from one area to another is practically eliminated.



FEATURES

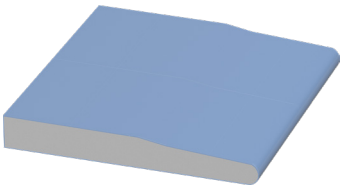
- Special gypsum core for superior sound damping and insulation.
- High STC rated assemblies and systems
- Very good performance at a low frequency range.

APPLICATION

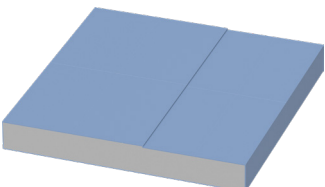
Used in loud spaces to eliminate sound transmission to neighbouring areas.
Can be installed in:

- Generator rooms
- Technical rooms
- Office spaces
- Hospitals
- Cinemas
- Libraries
- Museums
- Airports
- Educational areas
- Meeting rooms...etc.
- Large commercial areas where separation is needed
- Loud spaces in need of eliminating sound transmission to neighbouring areas

EDGE TYPES



Tapered edge



Cut square edge

DIMENSIONS

- Width:1200mm, 1220mm
- Length: 2000mm, 2400mm, 2440mm, 2500mm, 3000mm
- Thickness: 8.0mm, 9.5mm,12.5mm, 15mm, 15.9mm, 18mm



PHYSICAL SPECIFICATIONS

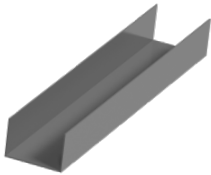
PROPERTIES	UNIT	VALUE
Thickness	mm	12.5
Density	Kg/m ³	870.2
Weight per unit area	Kg/m ²	10.71
Depth of taper	mm	1.24
Width of taper	mm	42.3
Squareness of edges	mm	1.4
Core hardness	N	321
Edges hardness	N	298
Ends hardness	N	308
Flexural breaking load long edge	N	536
Flexural breaking load short edge	N	249
Nail pull strength	N	377
Bending radius	mm	1890
Humidified deflection	mm	1.7
Thermal conductivity	W/m.K	0.1799

STANDARDS

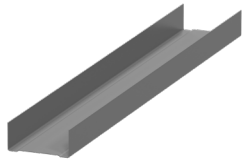
Standard Specification For Gypsum Board ASTM C1396.
Standard Test Methods For Physical Testing Of Gypsum Panel Products ASTM C 473.
Standard Test Method For Steady-State Thermal Transmission Properties By Means Of The Heat Flow Meter Apparatus ASTM C518.
standard test for laboratory measurement of airborne sound transmission, loss of building partitions and elements, is specified by ASTM E90.
Measurement for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces, such as offices, is tested with agreement of the ASTM E1414 (CAC) standards.
A measurement for rating the attenuation of reflected speech passing over the top of a wall partitions, or furniture into the adjoining workstations ASTM E1110 and E1111. (AC)



TOOLS AND ACCESSORIES



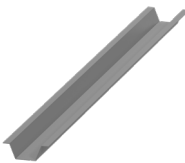
Gframe™ Track
Fixed to the floor or ceiling to support the Gframe™ C-studs forming a channel for Gboard®.



Gframe™ C-38 Channel
Carrying suspended ceiling profiles.



Gframe™ Cstud
Vertical profile for the framing system.



Gframe™ Furring Channel
Used in ceiling framework



Threaded Rod
Fixing of ceiling frames



C-clamp
Holds the C-38 channel for suspended ceilings



Drop-in Anchor
Placing bolts or threaded rod without thickness restriction



Gcoat™
All Purpose Joint Compound



Fire and Acoustic Sealant
Applied at the perimeter areas.



Fiberglass
Insulator material made of fiberglass.



Anchor Bolt
Fixing profiles and accessories to concrete walls.



Self-Tapping Phosphate Screws
Fixing boards to profiles with thicknesses up to 0.7mm.

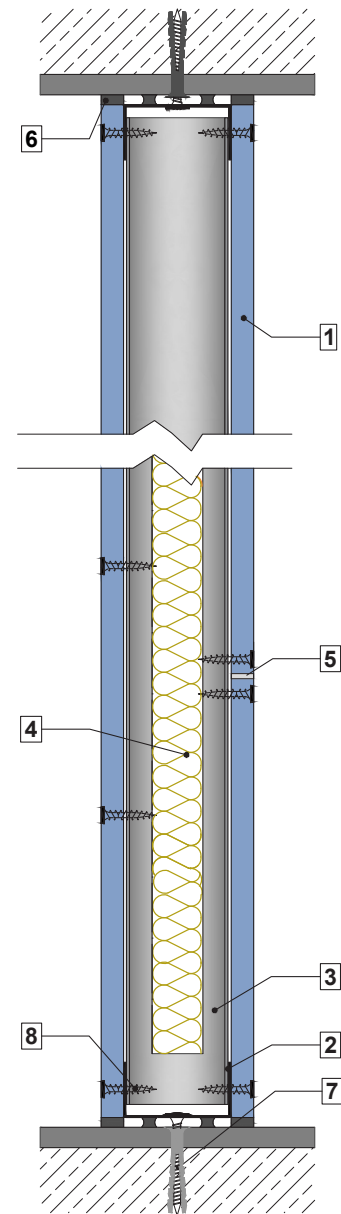


Phosphate Self Drilling Screws
Fixing boards to profile thicknesses more than 0.7 mm.

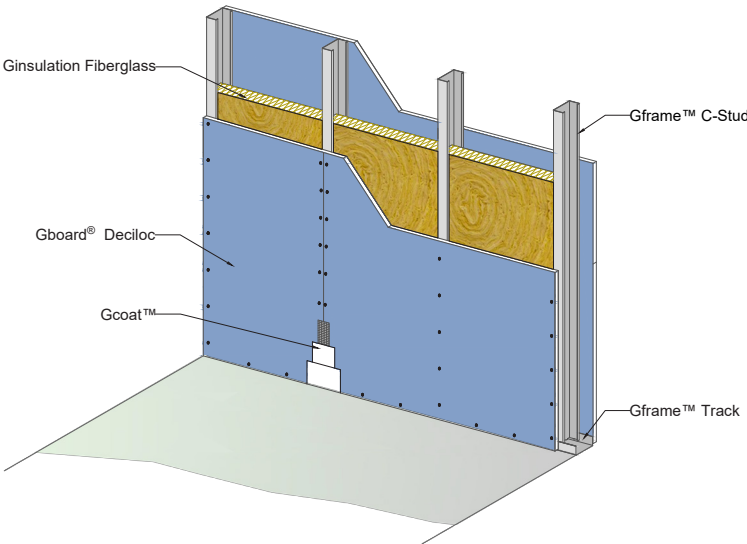
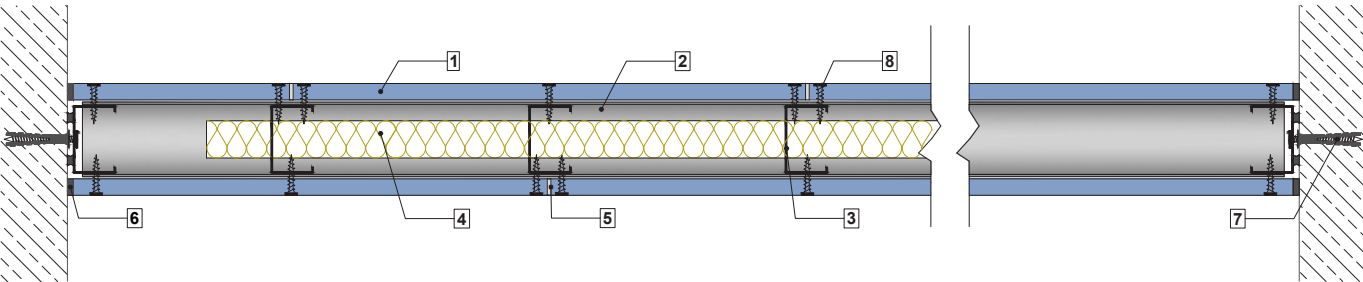
GBOARD® WALL SYSTEMS

GP11 SYSTEM

Elevation View



Top View



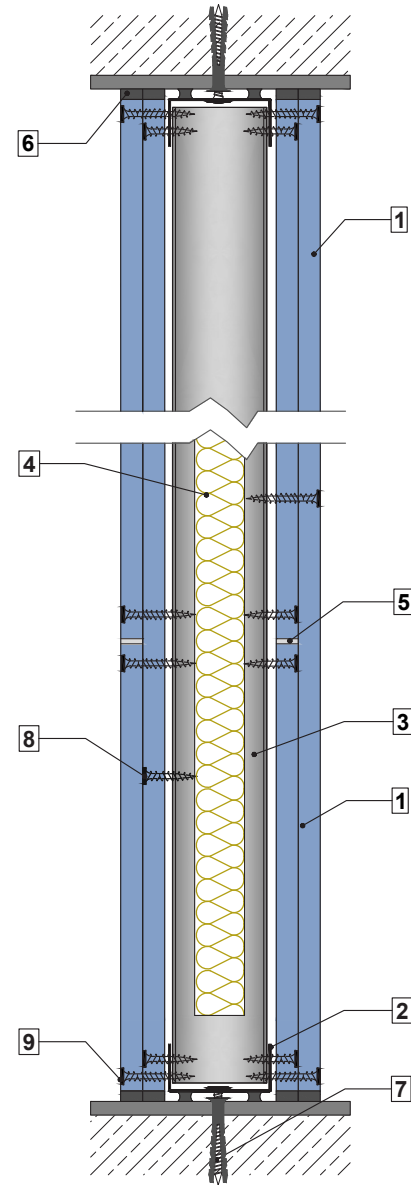
NUMBER	DESCRIPTION
1	Gboard® Deciloc 15.9 mm
2	Gframe™ Track
3	Gframe™ C-Stud
4	Fiberglass (16 kg/m³)
5	Gcoat™
6	Fire and Acoustic Sealant
7	Anchor Bolt
8	Phosphate Screw 3.5x35 mm

Performance

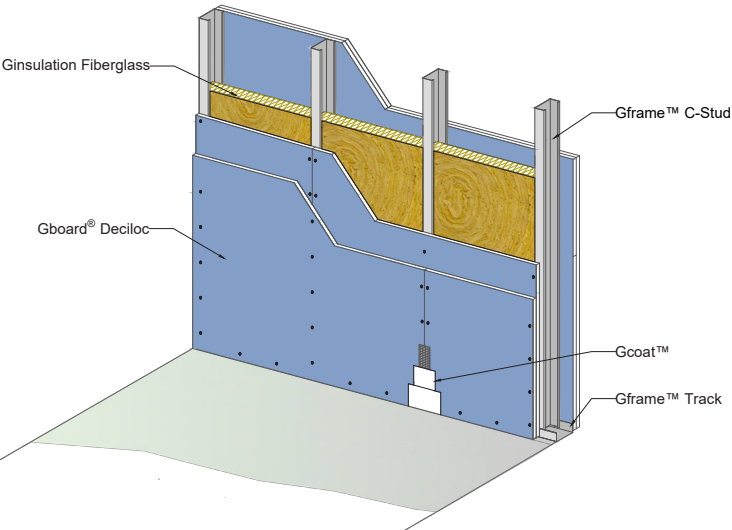
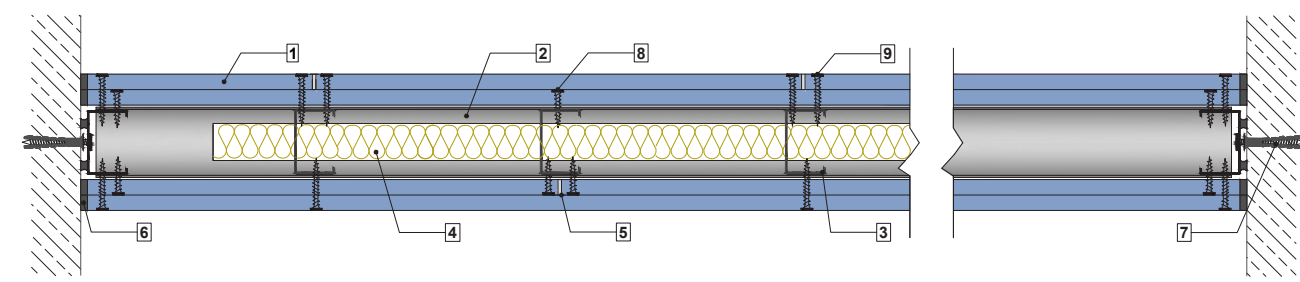
WEIGHT (Kg/m²)	STUD WIDTH (mm)	WALL THICKNESS (mm)	STC (dB)
31	50	82	46
	75	107	51
	92	124	52
	150	180	52

GP12 SYSTEM

Elevation View



Top View

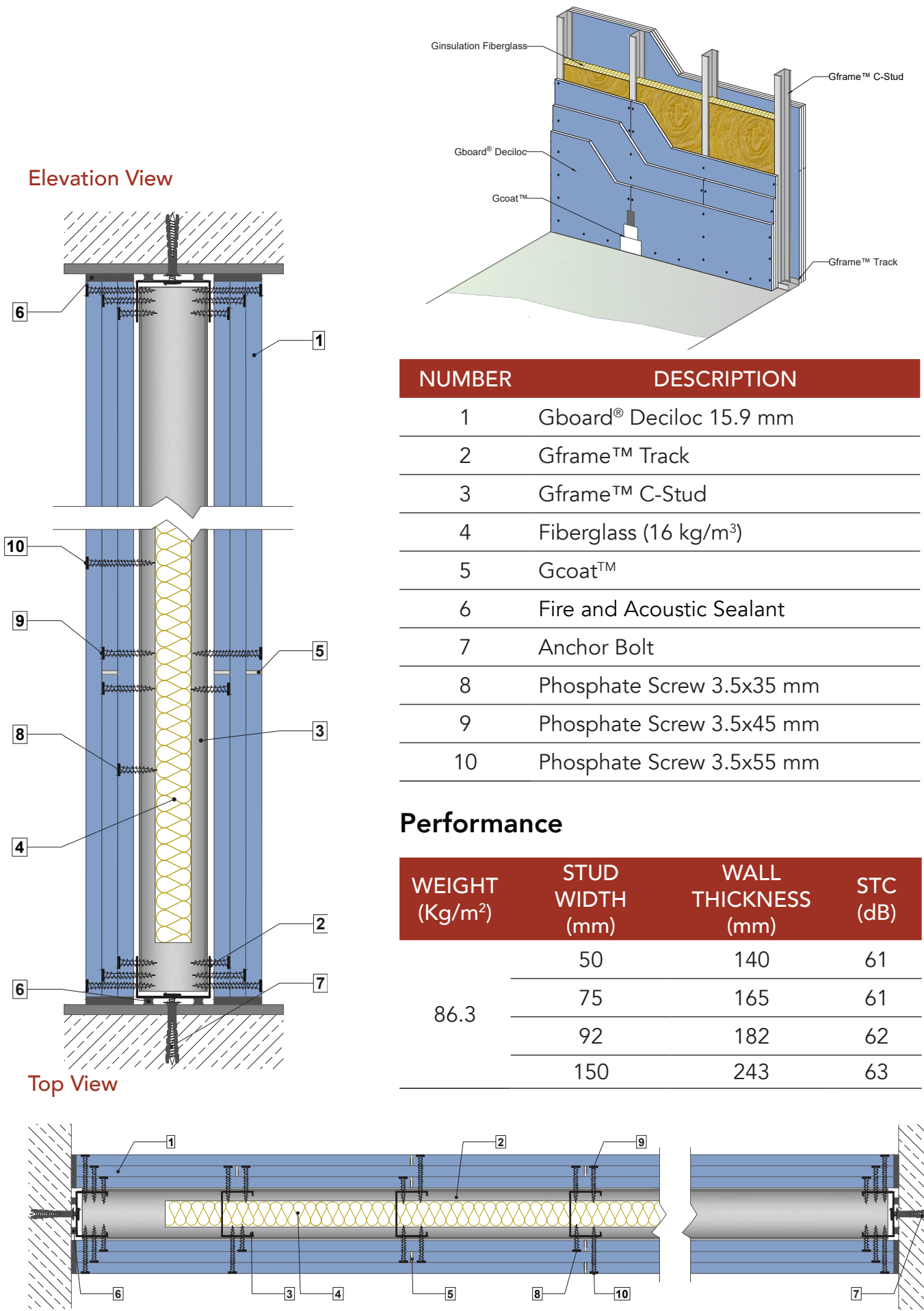


NUMBER	DESCRIPTION
1	Gboard® Deciloc 15.9 mm
2	Gframe™ Track
3	Gframe™ C-Stud
4	Fiberglass (16 kg/m³)
5	Gcoat™
6	Fire and Acoustic Sealant
7	Anchor Bolt
8	Phosphate Screw 3.5x35 mm
9	Phosphate Screw 3.5x45 mm

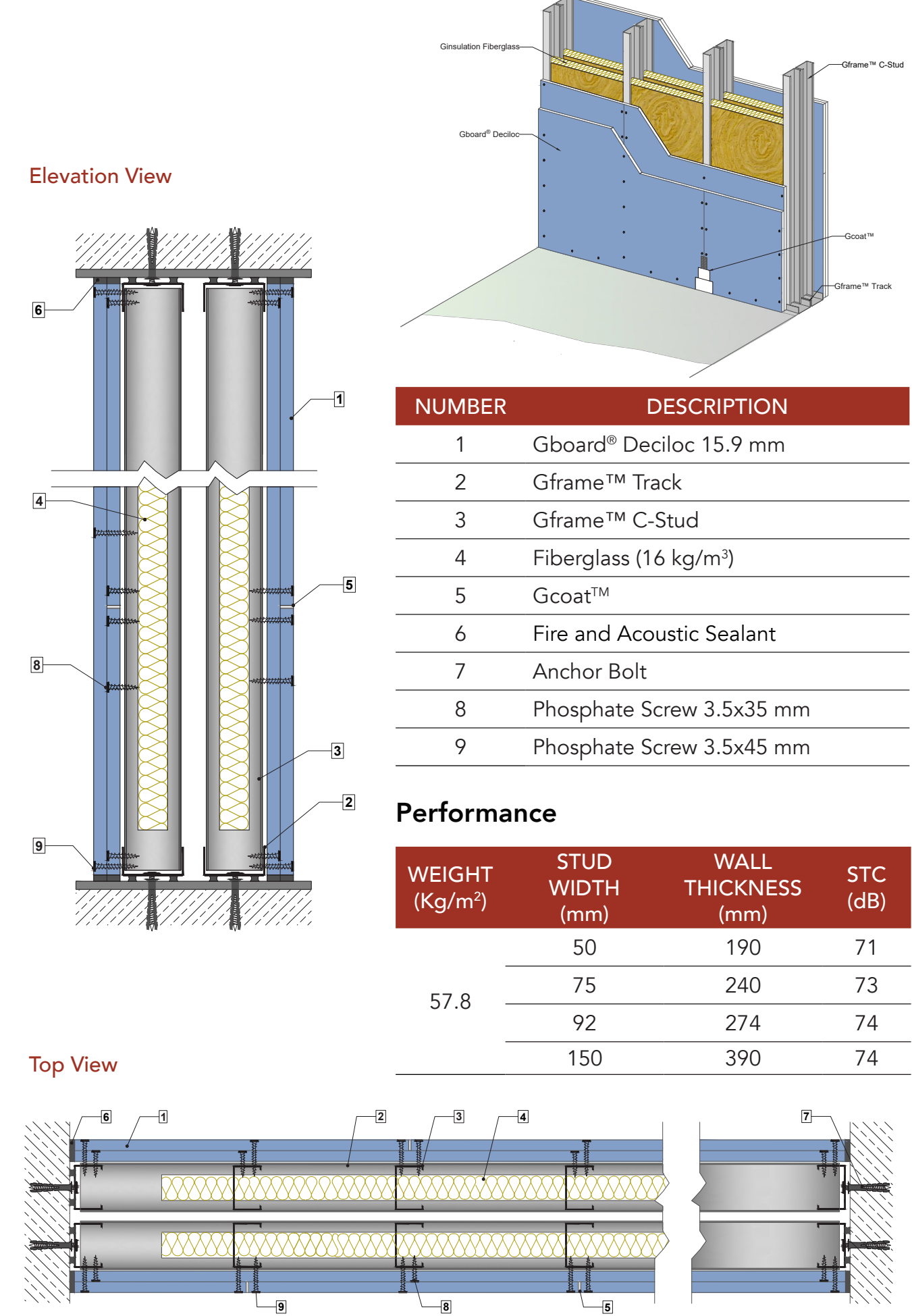
Performance

WEIGHT (Kg/m²)	STUD WIDTH (mm)	WALL THICKNESS (mm)	STC (dB)
61.2	50	114	58
	75	140	59
	92	156	59
	150	210	60

GP13 SYSTEM

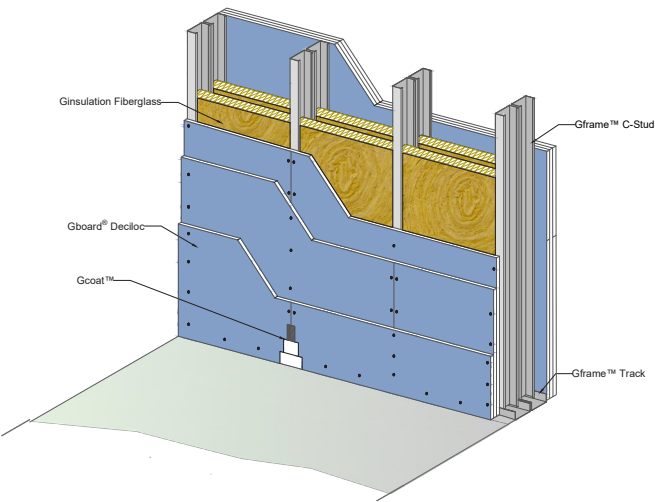
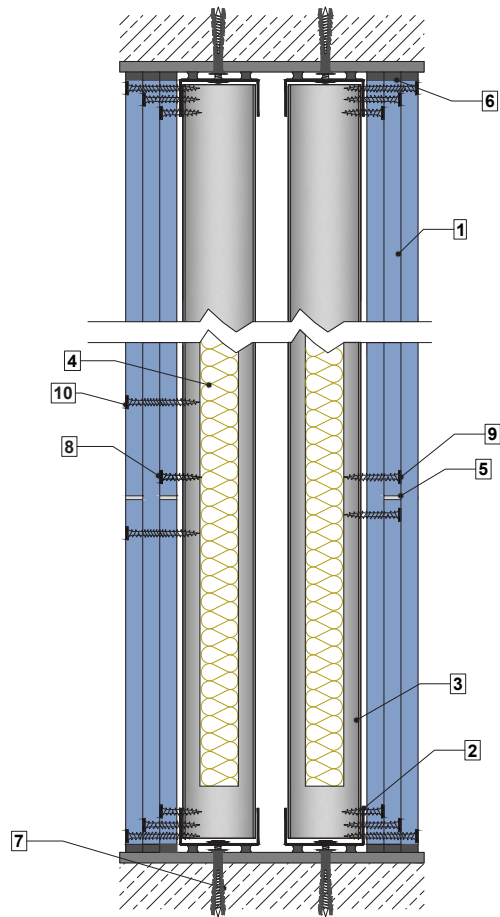


GP22 SYSTEM



GP23 System

Elevation View

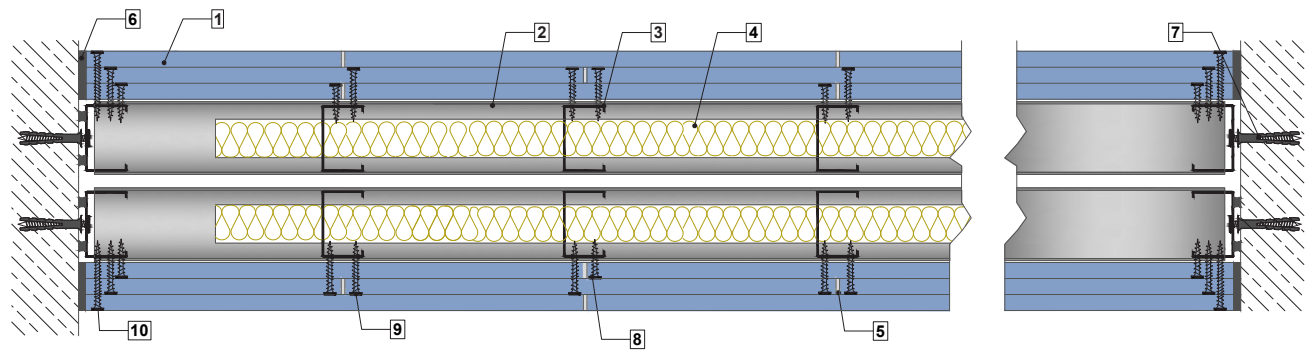


NUMBER	DESCRIPTION
1	Gboard® Deciloc 15.9 mm
2	Gframe™ Track
3	Gframe™ C-Stud
4	Fiberglass (16 kg/m³)
5	Gcoat™
6	Fire and Acoustic Sealant
7	Anchor Bolt
8	Phosphate Screw 3.5x35 mm
9	Phosphate Screw 3.5x45 mm
10	Phosphate Screw 3.5x55 mm

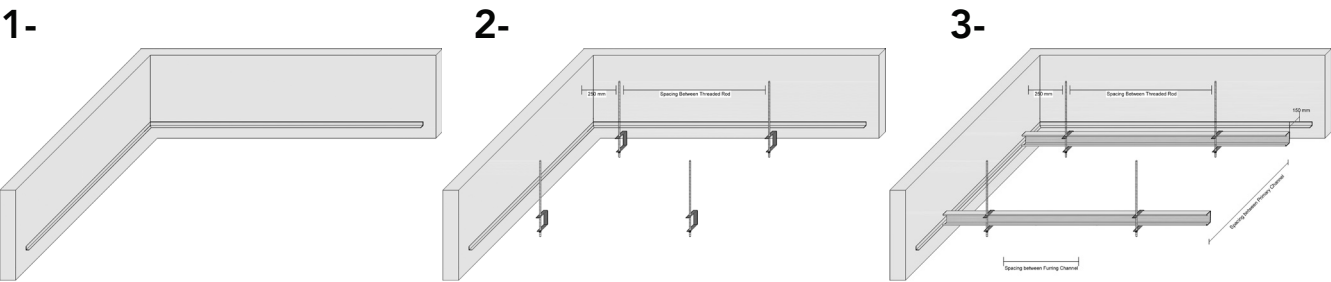
Performance

WEIGHT (Kg/m²)	STUD WIDTH (mm)	WALL THICKNESS (mm)	STC (dB)
87.4	50	225	79
	75	275	80
	92	310	81
	150	420	81

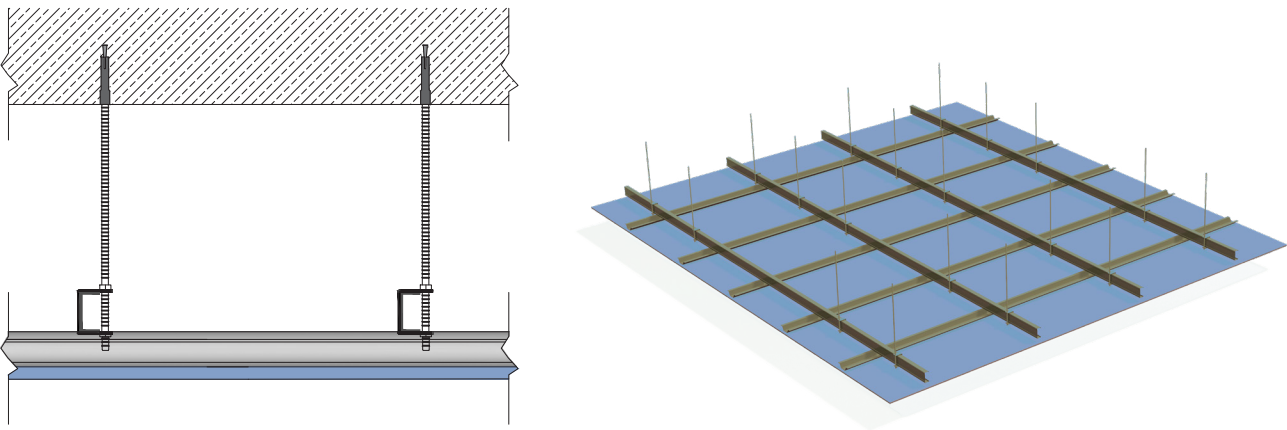
Top View



Gboard® Ceiling Systems



Standard Suspended Ceiling

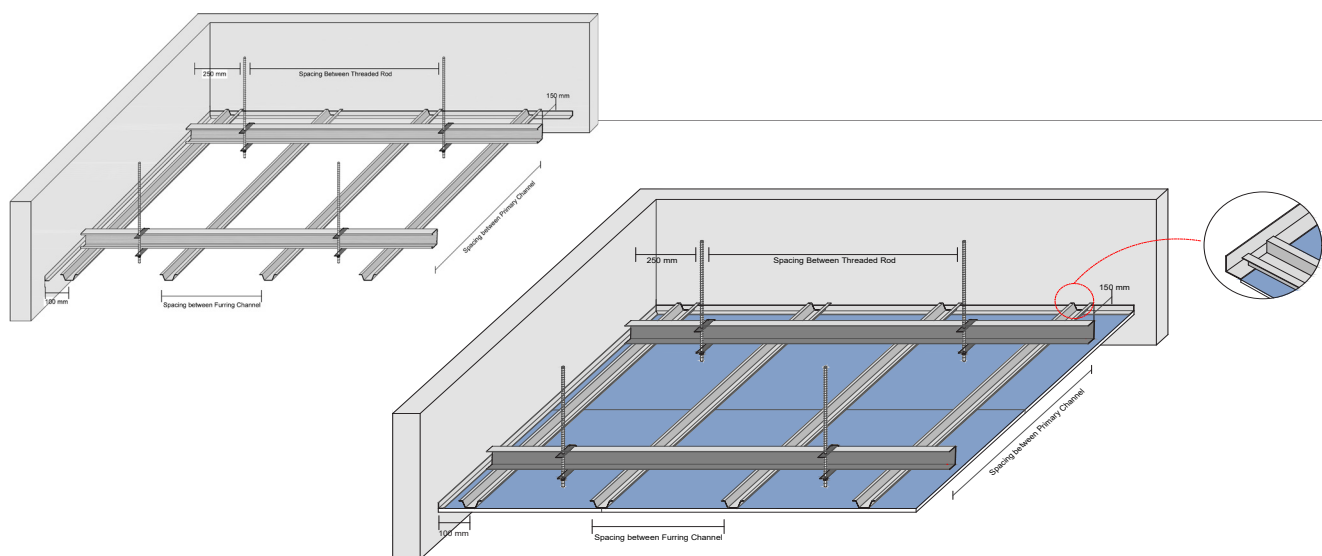


STC = 62 dB

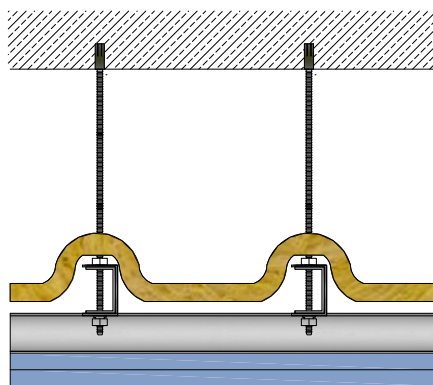
OITC = 51 dB

CONSTRUCTION DETAILS	PRODUCT DETAILS
C-clamp	38 mm C-clamp
Ceiling Channel	38 x 12 x 0.6 mm Gframe™ C- 38 channel spaced at 900 mm
Furring Channel	69 x 22 x 0.6 mm Gframe™ Furring Channel spaced at 600 mm
Threaded Rod	6 mm Threaded Rod spaced at 900 mm
Perimeter Angle	L 25 x 25x 0.6 mm
Drop-in Anchor	8 mm Galvanized Drop-in Anchor spaced at 900 mm
Joint Finishing	Gcoat™ Joint Compound + Gaccessories Jointing Tape
Sealant	Fire and Acoustic Sealant
Board to Metal Fixings	Phosphate Self-Tapping Screw 3.5x35mm

4-



Suspended Ceiling With Insulation



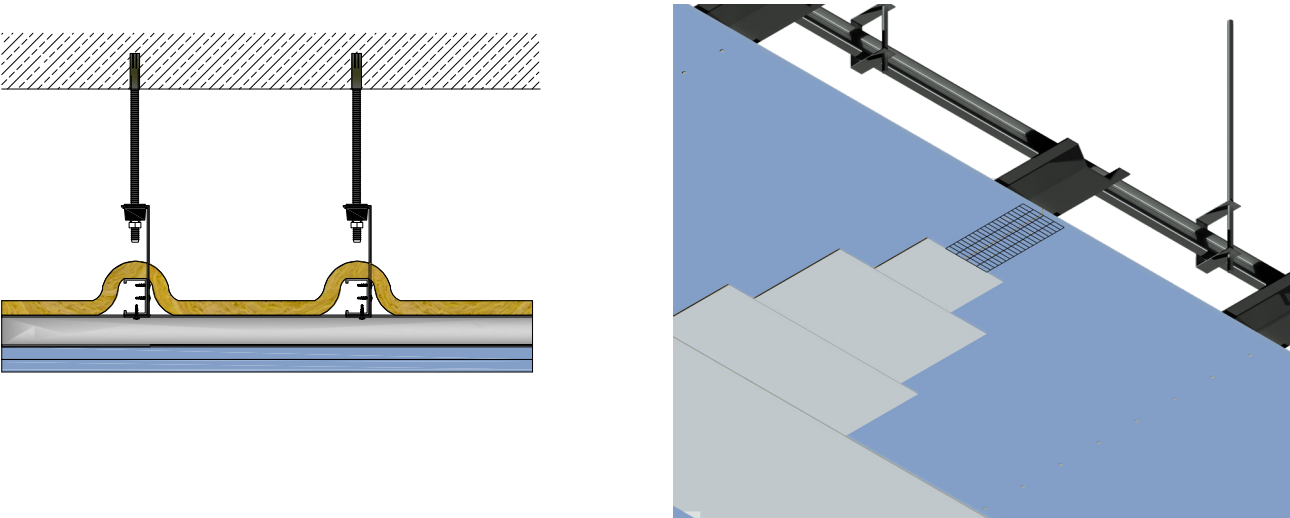
STC = 66 dB

OITC = 61 dB

CONSTRUCTION DETAILS		PRODUCT DETAILS	
C-clamp	38 mm C-clamp		
Ceiling Channel	38 x 12 x 0.6 mm Gframe™ C- 38 channel spaced ay 900 mm		
Furring Channel	69 x 22 x 0.6 mm Gframe™ Furring Channel spaced at 600 mm		
Threaded Rod	6 mm Threaded Rod spaced at 900 mm		
Perimeter Angle	L 25 x 25x 0.6 mm		
Drop-in Anchor	8 mm Galvanized Drop-in Anchor spaced at 900 mm		
Insulation	Fiberglass (16 Kg/m³)		
Joint Finishing	Gcoat™ Joint Compound + Gaccessories Jointing Tape		
Sealant	Fire and Acoustic Sealant		
Board to Metal Fixings	Phosphate Self-Tapping Screw 3.5x35mm		

Fiberglass and Rockwool Insulation usage will increase the sound and fire performance. The STC performance will increase due to the absorption of the waves.

Suspended Ceiling With Insulation & Silent Hanger



STC = 68 dB

OITC = 63 dB

CONSTRUCTION DETAILS		PRODUCT DETAILS	
C-clamp	Silent Hanger		
Ceiling Channel	38 x 12 x 0.6 mm Gframe™ C- 38 channel spaced ay 900 mm		
Furring Channel	69 x 22 x 0.6 mm Gframe™ Furring Channel spaced at 600 mm		
Threaded Rod	6 mm Threaded Rod spaced at 900 mm		
Perimeter Angle	L 25 x 25x 0.6 mm		
Drop-in Anchor	8 mm Galvanized Drop-in Anchor spaced at 900 mm		
Insulation	Fiberglass (16 Kg/m³)		
Joint Finishing	Gcoat™ Joint Compound + Gaccessories Jointing Tape		
Sealant	Fire and Acoustic Sealant		
Board to Metal Fixings	Phosphate Self-Tapping Screw 3.5x35mm		

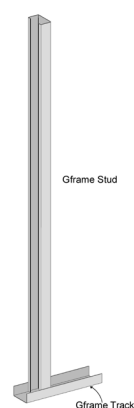
Silent Hangers are fixed by a Threaded Rod and they hold the main channel in ceiling systems. They increase the sound insulation performance because of the rubber that is located on top of the silent hanger. This rubber will decrease the vibrations created by the sound waves.

DRYWALL PARTITIONS

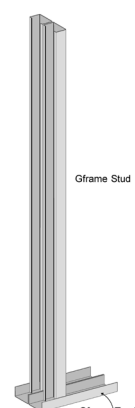
Installation

1- Metal Framing Assembly

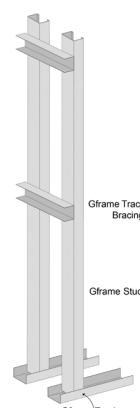
- Mark the location of the partitions on the floor and ceiling to fix the top and bottom Gframe™ Tracks according to plans by using the appropriate measurement tapes and marking tools.
- Snip the Gframe™ Tracks according to the required length.
- Apply a fire and acoustic sealant under the GFrame™ Tracks and C-studs, forming the perimeter of the frame.
- Align the bottom and top Gframe™ Tracks by using a laser then fix them using anchor bolts with a spacing of 600 mm center to center and a maximum of 100 mm from each end.
- Snip the vertical Gframe™ C-stud shorter than the wall by 5 - 10 mm.
- Push the Gframe™ C-stud completely inside the bottom Gframe™ track and position it vertically between the top and bottom tracks.
- The Gframe™ C-stud spacing should not exceed 600 mm center to center or according to the partition performance.
- Attach the metal profiles by using either stamp Pliers or wafer head screws (4.2*13 mm metal to metal screw).



Single Profile



Double Profile



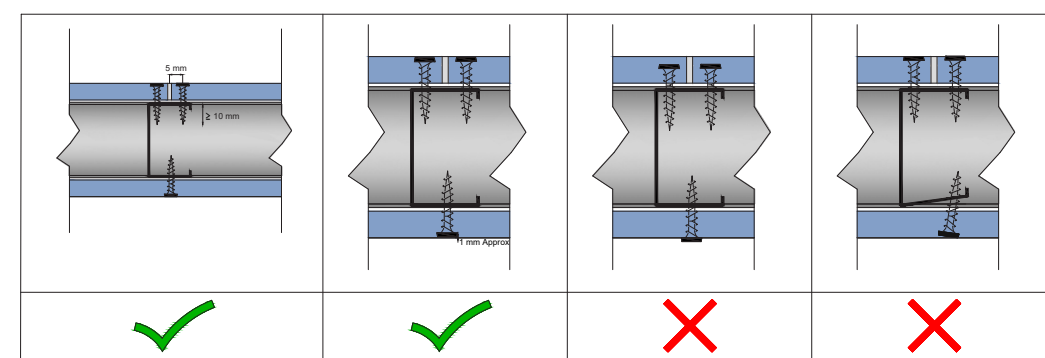
Double Profile
with Gap

2- Board Cutting

- Score the board from its face using a sharp knife simple tool (Utility Knife).
- Break Gboard® Deciloc by snapping it from the other side of the scored area and cut the other side of the paper. Pass the cutter from the bottom to the top to avoid damaging the board.
- Chamfer the cut edge of Gboard® Deciloc in 45 degrees by using a Rasp Tool to obtain neat joints.
- Chamfer the short edges using a Beveled Tool to soften them.

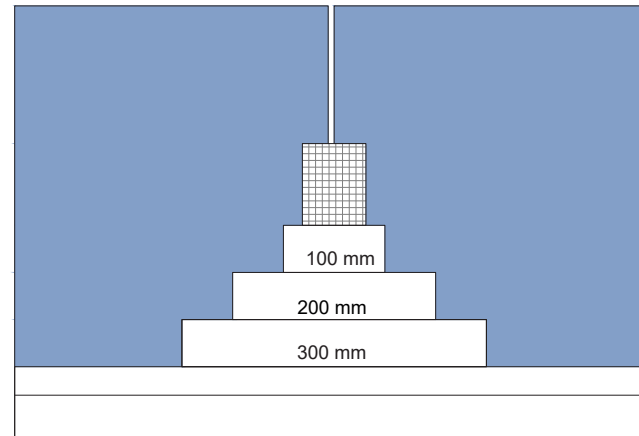
3- Board Fixing

- Attach Gboard® Deciloc on the Gframe™ C-stud by staggering the board from both sides of the wall with a minimum extension of 450 mm on one side, making sure the joints do not interlock.
- Cut Gboard® Deciloc 15mm less than the height of the wall and lift it off the ground using a lift footer tool. Or, put a small piece of gypsum under the board, to avoid the cracks that are caused by expansion or moisture exposure.
- Use phosphate plated screws to fix Gboard® Deciloc, depending on the number of layers to be installed. The horizontal screw spacing ranges from 200 to 300 mm center to center.



4- Jointing

- Clean the surfaces from dust and other impurities.
- Cover the head of the screws with a thin layer of Gcoat™.
- Apply the self-adhesive mesh tape along the joints.
- Apply the first layer of Gcoat™ All-Purpose Joint Compound (100 mm width) to extend 50 mm beyond both sides of the jointing area.
- Embed the mesh tape in the jointing compound to reinforce the joints between the boards.
- Sand the first layer once it dries, two hours later, by using an appropriate sanding paper then, apply a second layer of the compound with a width of 200 mm.
- Sand the second layer once it dries by using a sanding paper then apply a third thin layer of compound with a width of 300 mm.



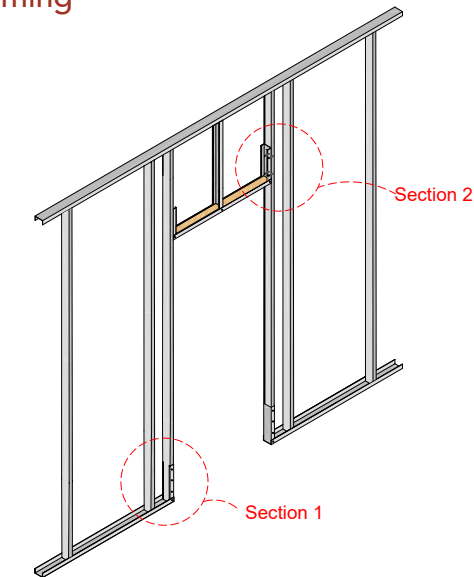
5- Finishing

- Skim the whole surface using Gcoat™ All Purpose Joint Compound with a maximum thickness of 3 mm.
- Coat the surface with a primer using a brush to reduce the board's paint absorption.
- Use emulsion-based paints and emulsion-based silicate paints for final coatings.
- Use ceramic tiles (for toilets/kitchen...) or wallpapers for further finishing options.



6- Door Installation

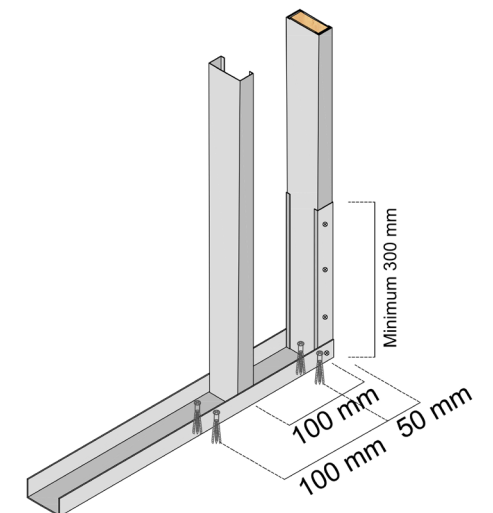
a) Door Framing



WALL WEIGHT	FRAMING METHOD
< 55 kg	Double box of Gframe™ C-stud.
> 55 kg	Double box of Gframe™ C-stud and wood or hollow steel square.

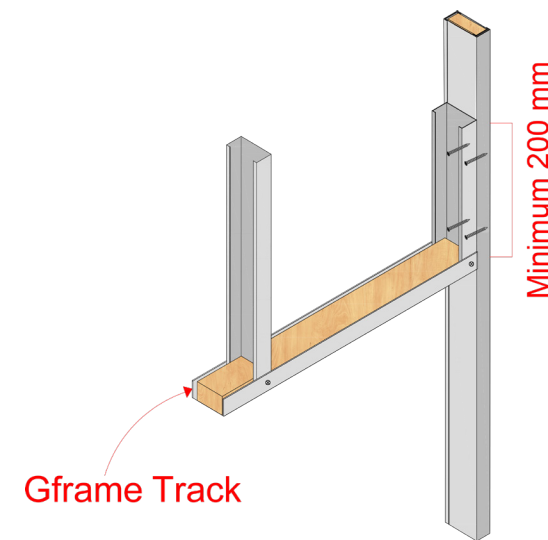
Section 1

- Add additional Gframe™ C-stud at 100 mm away from the center of the supporting frame.
- The first Anchor bolt supports the Gframe™ track on the ground and is distanced 50 mm away from the edge of the door opening.
- The second Anchor bolt will be 150 mm away from the edge of the door opening.
- The Gframe™ track on the ground should be extended and bent towards the door stud by 300 mm.



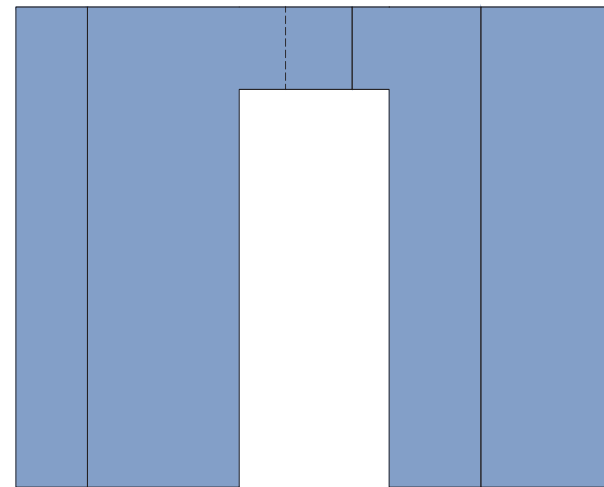
Section 2

- Prepare a 1400 mm Gframe™ Track with 1000 mm for the door width.
- Cut 200 mm from both ends of the track and bend it in 90 degrees.
- Place the Gframe™ Track horizontally to the relevant height and attach it to the web of the Gframe™ C-stud using suitable screws.
- Cut Gframe™ C-stud at a suitable height and place it between the head of the door and the ceiling tracks.
- This section will be movable until Gboard® Deciloc is fixed to the frame.



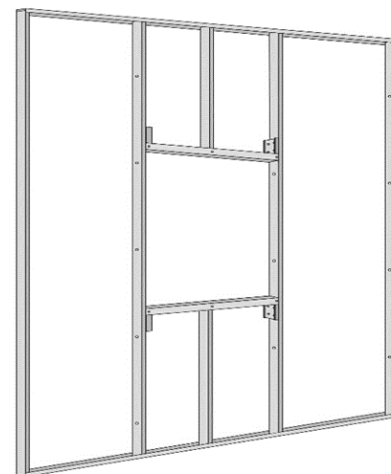
b) Door Cladding

- Stagger the cladding of the door openings.
- Cut Gboard® Deciloc into L-shaped panels to avoid weak points at the edges of the door frame.
- The joint should be 200 mm away (minimum) from the edge of the door.
- Stagger Gboard® Deciloc from both ends of the wall.



7- Window Installation

- The installation of the window frame follows the same steps as the installation of the door frames.
- The Gframe™ C-studs are always reinforced with a wood or hollow steel square regarding the weight of the window.
- Cut Gboard® Deciloc into L-shaped boards and stagger them from both ends of the wall.



DRYWALL LINING

A. Lining With Gframe™ C-studs

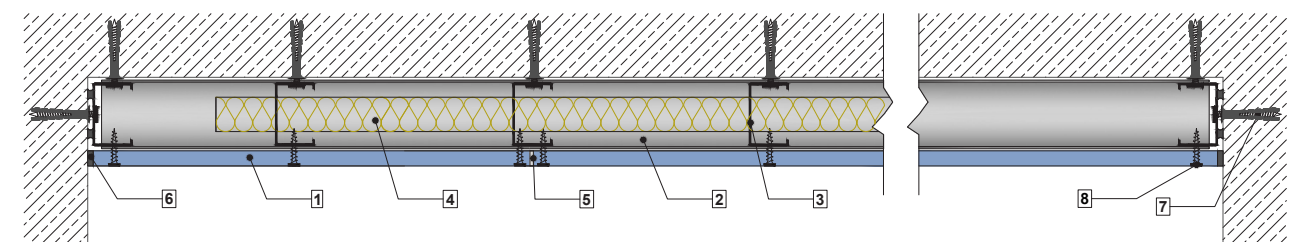
Installation

- Mark the boundaries of the Gframe™ Tracks to be installed by using the appropriate measurement tape and marking tools.
- Snip the Gframe™ Tracks according to the required length.
- Apply a fire and acoustic sealant (or insulation tape) under the Gframe™ Tracks and Gframe™ C-Stud forming the perimeter of the frame.
- Fix the bottom and top of Gframe™ Track, and Gframe™ C-Stud on the edges using anchor bolts spaced at 600mm center to center (or as provided by calculation).
- Snip the Gframe™ C-Studs 5mm shorter than the clear height between the top and bottom Gframe™ tracks.
- Attach the Gframe™ C-Studs vertically and fit them into the top and bottom Gframe™ Tracks. The standard distance between Gframe™ C-studs is 600 mm. It may vary based on design requirements.
- Fix the Gframe™ C-Stud on the wall using an anchor bolt, if needed (based on design requirements.)
- Fasten Gboard® Deciloc using phosphate screws spaced at 300 mm centers in the board's field and 200 mm centers at the board's edges.

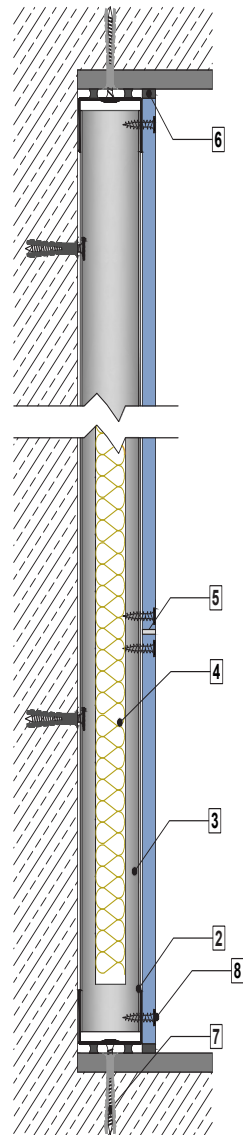
* Gframe™ profiles and methods of installation should meet the building regulations and requirements. Profile thicknesses and spacings are designed to have deflection values below the allowable limits.

Typical sections

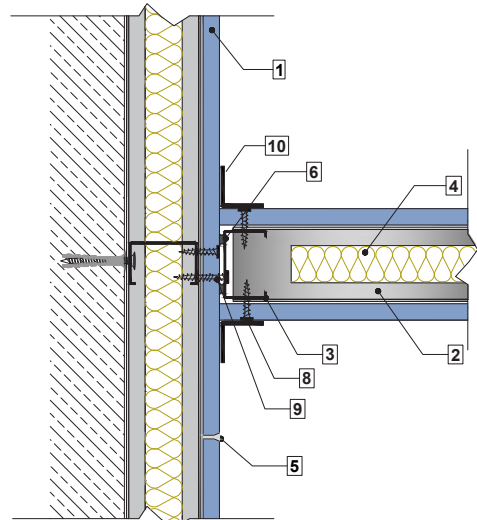
01- Plan Section



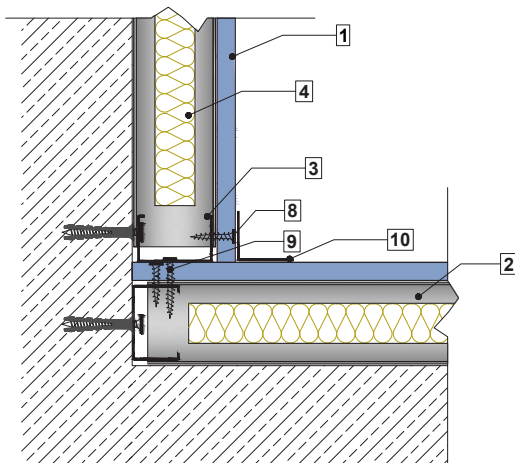
02- Floor/Ceiling Connection



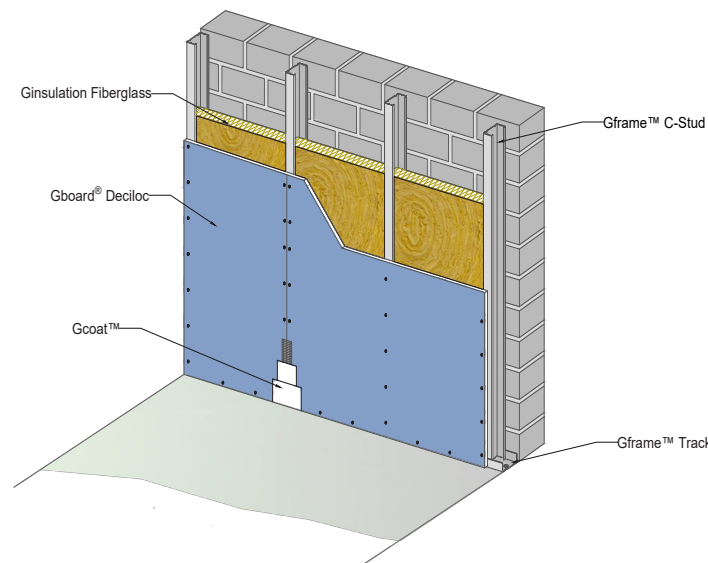
03- T junction



04- Corner Details



NUMBER	DESCRIPTION
1	Gboard® Deciloc
2	Gframe™ Track
3	Gframe™ C-stud
4	Fiberglass
5	Gcoat™
6	Fire and Acoustic sealant
7	Anchor bolt
8	Phosphate screw 35mm
9	Phosphate screw 45mm
10	Metal Corner Tape



B. Lining With Universal Brackets

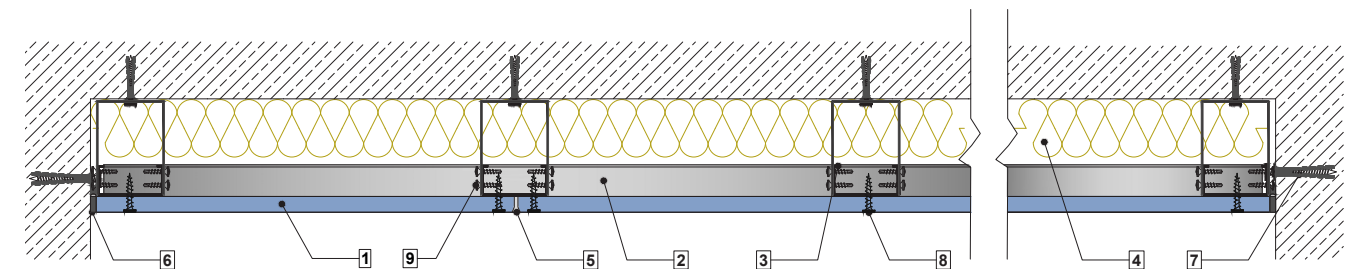
Installation

- Mark the boundaries of the Gframe™ Tracks to be installed by using the appropriate measurement tapes and marking tools.
- Snip the Gframe™ Tracks according to the required length.
- Apply a fire and acoustic sealant (or insulation tape) under the Gframe™ Tracks and Gframe™ C-Stud forming the perimeter of the frame.
- Fix the bottom and top Gframe™ Tracks, and Gframe™ C-Stud on the edges using anchor bolts spaced at 600mm center to center (or as provided by calculation).
- Fix the universal brackets to the wall using anchor bolts spaced at 800 mm centers (vertically).
- Add insulation if required.
- Snip the Gframe™ C-Studs 5 cm shorter than the clear height between the top and bottom tracks.
- Attach the Gframe™ C-Studs vertically to the universal bracket using Wafer head Screws and fit them into the top and bottom Gframe™ Tracks. The standard distance between Gframe™ C-studs is 600 mm. It may vary based on design requirements.
- Fasten Gboard® Deciloc using phosphate screws spaced at 300 mm centers in the board's field and 200 mm centers at the board's edges.
- Leave a 4 mm gap at the joints between the board's edges.

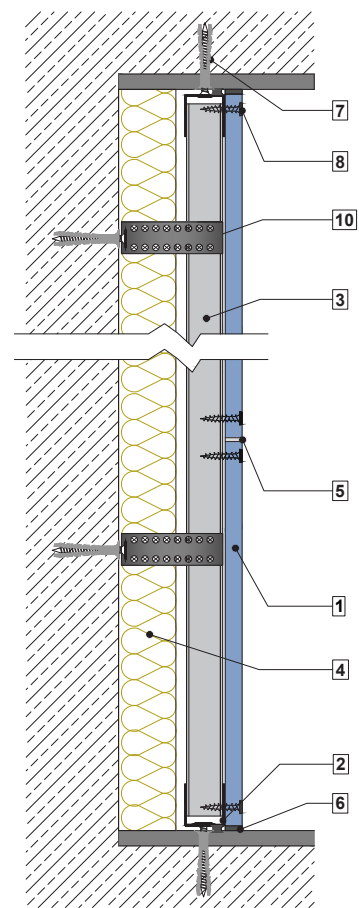
* Gframe™ profiles and methods of installation should meet the building regulations and requirements. Profile thicknesses and spacings are designed to have deflection values below the allowable limits.

Typical sections

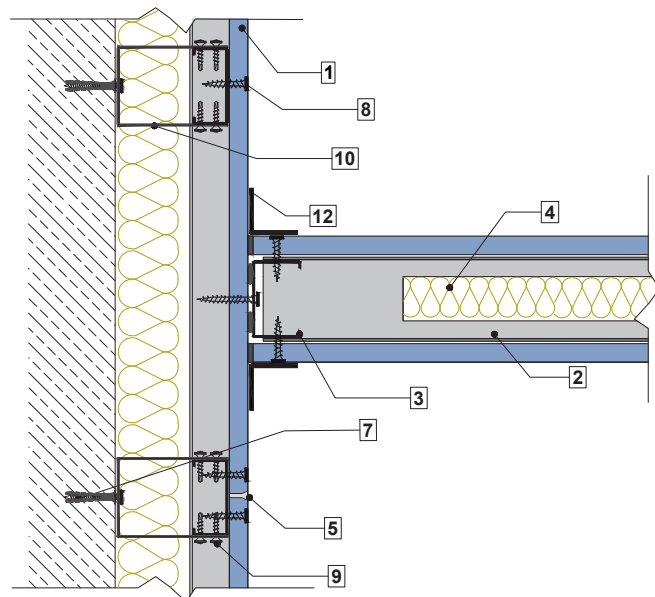
01- Plan Section



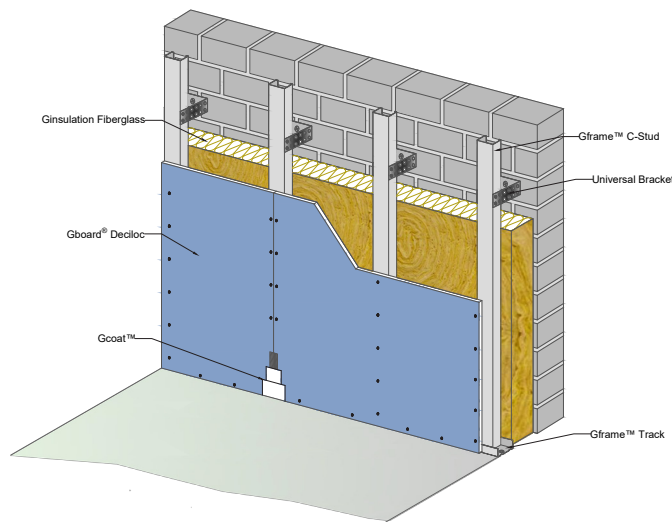
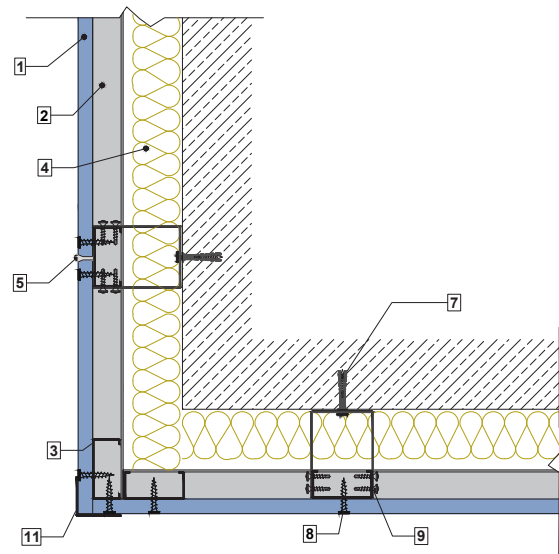
02- Floor/Ceiling connection



03- T junction



04- Corner Details



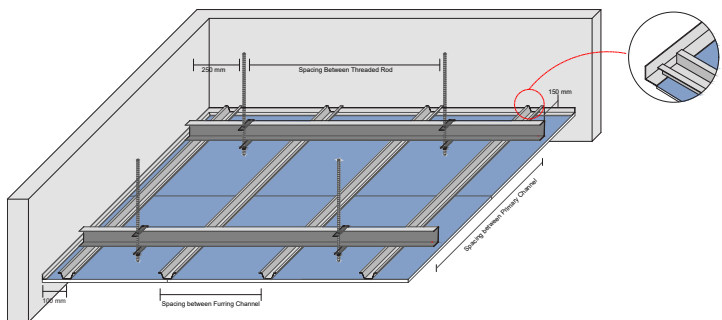
NUMBER	DESCRIPTION
1	Gboard® Deciloc
2	Gframe™ Track
3	Gframe™ C-stud
4	Fiberglass
5	Gcoat™
6	Fire and Acoustic sealant
7	Anchor bolt
8	Phosphate screw 35mm
9	Wafer Head screw
10	Universal bracket
11	Corner bead
12	Metal corner tape

SUSPENDED CEILING

Installation

1- Framing System

- Determine the ceiling level and mark the height of the L angle perimeter, as per design drawings.
- Fasten L-angles to the walls along the perimeter using anchor bolts spaced at 600 mm centers.
- Fix the threaded rod (6 mm) to the soffit ceiling using drop-in anchors with a maximum spacing of 1200 mm center to center (spacing varies based on design loads). The first hanger should be 250 mm away from the wall.
- Suspend the Gframe™ C-38 Channel (in longitudinal direction) from the soffit ceiling by threaded rods. The Gframe™ C-38 Channel is connected to the threaded rod using C-clamps. The C-clamps fit around the Gframe™ C-38 Channel and are fastened to the threaded rods from the top and bottom ends.
- The first Gframe™ C-38 Channel should be 150 mm away from the wall; spacing between the Gframe™ C-38 Channel is 1200 mm maximum and varies based on the design load.
- Place the Gframe™ Furring Channels on the primary grid (from the lower flange of the main channel C-38) in a transverse direction using wafer head screws. The first Gframe™ Furring Channel should be 100 mm away from the wall; with a spacing of 400 or 600 mm center to center, depending on the design loads.



P.S: The framing elements should not be attached to the L-angles along perimeters (channels around the walls) to allow a free movement of structures.

LOAD CLASS (kg/m ²)	GFRAME™ C-38 CHANNEL SPACING (mm)	HANGER SPACING (mm)	GFRAME™ FURRING CHANNEL SPACING (mm)
>15	1200	1200	600
>20	1100	1100	600
>25	1000	1000	600
>35	900	900	400
50< Load Class <65	800	800	400

2- Gboard® Deciloc Installation

- Score the boards from the paper face side using a utility knife from bottom to top.
- Break Gboard® Deciloc by snapping it in a reverse direction and cut the other side of the paper by passing the cutter from the bottom to the top to avoid damaging the paper.
- Chamfer the cut and short edges using beveled/rasp tools for neat joints and edges.
- Install ducts and MEP piping before fixing Gboard® Deciloc .
- Screw Gboard® Deciloc to the Gframe™ furring channels in a longitudinal direction using phosphate self-taping or self-drilling screws. Keep a 3mm gap between the boards for jointing.
- Check all the levels of the boards using levelling tools and ensure that the screws are well fixed and embedded inside the panel.
- Cut out holes for MEP fixtures then install them.

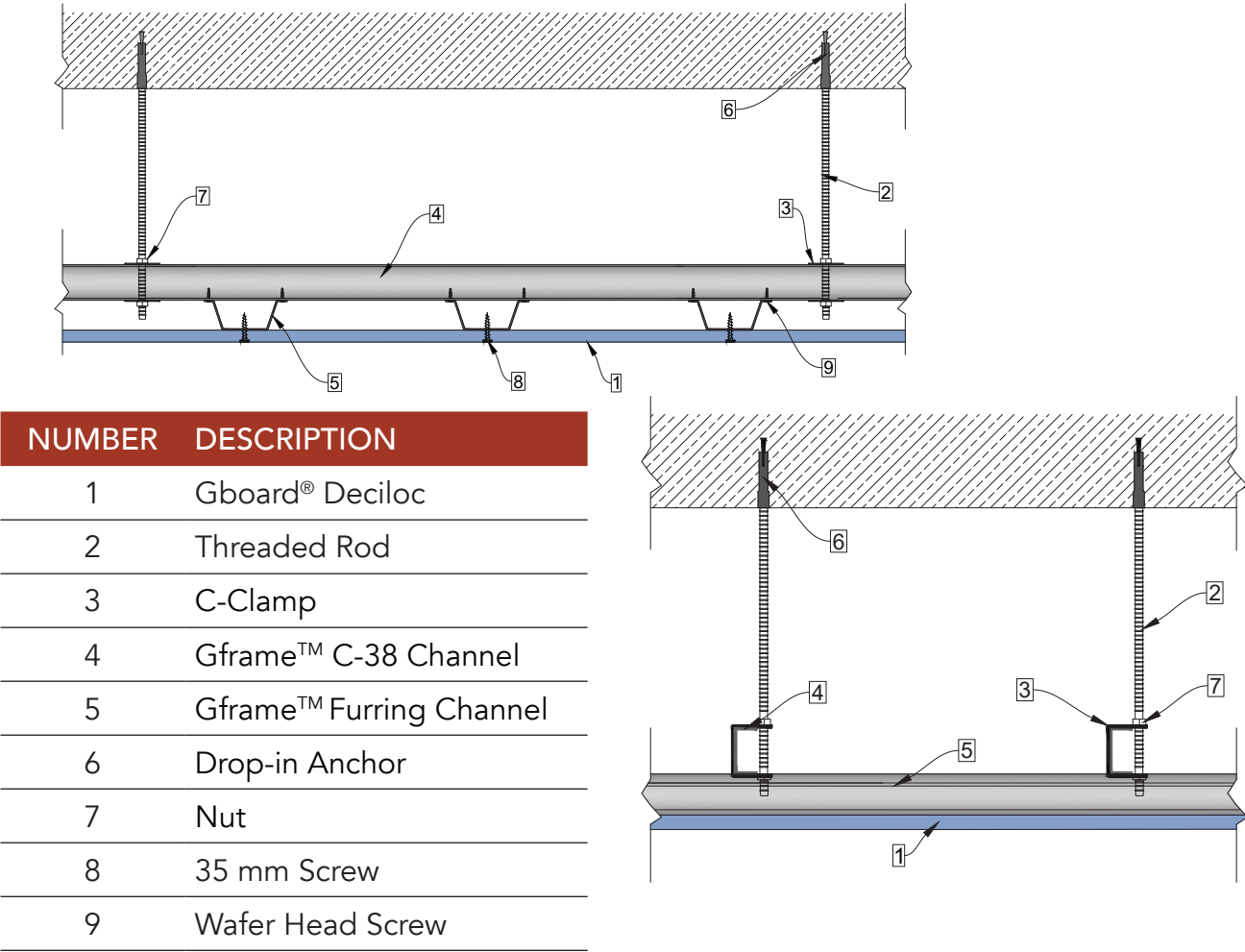
3- Jointing

- Clean the surfaces from dust and other impurities.
- Cover the head of the screws with a thin layer of Gcoat™ All Purpose Joint Compound.
- Apply the self-adhesive fiberglass mesh tape along the joints. then apply the first layer of Gcoat™ All Purpose Joint Compound (100 mm width) to extend 50 mm beyond both sides of the jointing area.
- Embed the mesh tape in the joint compound to reinforce the joints between the boards.
- Sand the first layer once it dries, two hours later, by using the appropriate sanding paper. Then, apply a second layer of the compound with a width of 200 mm.
- Sand the second layer after it dries by using a sanding paper then apply a third thin layer of the compound with a width of 300 mm.
- Skim the whole surface with one coat of Gcoat™ All-Purpose Joint Compound with a maximum thickness of 3 mm.

4- Paint Coating

- Coat the surface with a primer using a brush.
- Use emulsion-based paints, alkyd paint, or any other type of paint for final coatings.

Typical sections



RECOMMENDATIONS

- Cutting and scoring happen from the front face side of the board.
- Use phosphate self-tapping screws with a metal frame lower than 0.7 mm for board fixing.
- Use phosphate self-drilling screws with a metal frame greater than 0.7 mm for board fixing.
- Vertical screw spacing for the first layer of gypsum is 25 cm, 50 cm for the second, and 75 cm for the third.
- It is recommended to use Gcoat™ All Purpose Joint Compound for joint treatments or skim coating.
- Use paper tape for the jointing of the square edges.

STORAGE AND HANDLING

- Store in dry/ventilated areas above ground level (not in direct contact with the ground).
- Cover boards with plastic sheets and do not expose them to direct rain or sunlight.
- Lift each board from its corners and place it vertically along the long edge that is parallel to the ground.
- Do not lift the boards from the short edges nor carry them horizontally. Hold the boards vertically keeping the long edge parallel to the ground level.
- Carry each board by supporting one long edge and gripping the upper edge to avoid flexing and consequently breaking. Two people should hold and carry every board in a balanced manner.

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