Semi-exposed soffits

Thermal lining system for semi-exposed soffits

SoffitLine combines the benefits of Gyproc MultiBoard with thermally efficient phenolic foam insulation. It can be directly fixed to the underside of semi-exposed soffits, or it can be fixed to a framework of Gyplyner™, CasoLine MF or timber battens.

The smooth off-white surface finish of Glasroc SoffitLine makes it ideal for carports and basements where the panels can be left undecorated.
Semi-exposed soffits

Key facts

● Ideal for semi-exposed situations
● Smooth, durable surface
● High thermal efficiency
● Off-white surface can be painted or left undecorated
● Choice of fixing methods

Glasroc SoffitLine

Technical support: T 01 629 8400 E technical.enquiries@gypsum.ie

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Components

Glasroc board products

Glasroc SoffitLine
Comprises 6mm Gyproc MultiBoard with a backing of foil faced CFC and HCFC-free phenolic foam providing integral vapour control and a high level of thermal insulation.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>26, 36, 46, 56, 66, 76, 86mm</th>
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<td>Width x Length</td>
<td>1200 x 2400mm</td>
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Fixing and finishing products

Option 1 - fixing to GypLyner™

Gypframe GL1 Lining Channel
Main support section
Prime dimensions 45 x 18mm

Gypframe GL8 Track
Prime dimensions 30 x 20 x 20mm

Gypframe GL2 Bracket
Fixing to structure.

Gypframe GL9 Bracket
Fixing to structure where greater extension is required.

Gyproc Drywall Screws
For fixing Glasroc SoffitLine to metal framing.

2 86mm thick Glasroc SoffitLine should be fixed using a proprietary fixing by others, providing a minimum 10mm penetration into metal sections and 25mm penetration into timber. When fixing 76mm thick Glasroc SoffitLine to timber, use proprietary fixings by others.

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Fixing and finishing products

Option 2 - fixing to CasoLine

**Gypframe MF5 Ceiling Section**
Main support section
Prime dimensions 80 x 26mm

**Gypframe MF6 Perimeter Channel**
Perimeter support for MF5s.
Prime dimensions 20 x 27 x 30mm

**Gyproc Drywall Screws**
For fixing Glasroc SoffitLine to metal framing

Fixing and finishing products

Option 3 - fixing direct to soffit

**Proprietary concrete fixings**
(by others).

Option 4 - fixing via timber battens

**Gyproc Drywall Timber Screws**
For a positive direct fix of boards to timber battens.
Length 51, 60mm

**Gyproc Skimcoat, Gyproc Carlite Finish or Gyproc Board Finish**
To provide a plaster skim finish.

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Construction tips

- Glasroc SoffitLine is suitable for semi-exposed applications such as the underside of soffits and car-ports, where the board is exposed to the elements, but not subjected to direct exposure to weathering such as driving rain or free running water.

- The phenolic foam insulation in Glasroc SoffitLine has a closed cell structure giving it good resistance to moisture.

- Consider finishing requirements. The board surface can be left undecorated but colour matching cannot be guaranteed – there may be slight variations. The application of two coats of exterior quality paint after joint treatment will provide consistent appearance and enhanced durability.

- Consider any requirements for condensation control. Glasroc SoffitLine offers significant resistance to water vapour transmission provided that all board joints are taped and filled.

- Install Glasroc SoffitLine where there is a thermal requirement. It will reduce heat loss from the building and can reduce the risk of surface condensation occurring at cold bridges e.g. around openings.

- Consider fixing method - either to metal / timber framework or direct to the soffit.
Construction tips (cont’d)

- **Fixtures** - ensure that the fixing device selected is long enough to bridge the framing cavity and give adequate penetration into the soffit.

- **Deflection** - metal framing - normal 600mm framing centres will achieve a deflection criteria of L/360. Where deflection criteria are more stringent, framing centres will need to be reduced to 400mm.
**Installation**

1. **Fixing to concrete soffit with metal framing supports**
   - Locate Gypframe MFS Ceiling Section at 600mm centres.
   - Fix to the soffit using suitable fixings spaced at 1200mm centres, two fixings at each point, one in each leg of the Gypframe MFS Ceiling Section.

2. **Fixing to concrete soffit with timber batten supports**
   - Where boards are to be fixed to GypLyner™, locate framing as normal (refer to section 7 - GypLyner™) using channel and screw centres as for Gypframe MFS Ceiling Section previously.
   - Locate timber battens at maximum 600mm centres.
   - Battens should be fixed using suitable fixings spaced at 1200mm centres.

3. Normal 600mm framing centres will achieve deflection criteria of L/360. Where deflection criteria are more stringent, framing centres will need to be reduced to 400mm.
Fixing to metal framing
- Fix boards at right angles to the section.
- Use Gyproc Drywall Screws of a sufficient length to allow a nominal 10mm penetration into the metal.
- Insert screws at 600mm maximum centres into the field of the boards and at board ends.

Fixing to timber framing
- Position boards at right angles to the battens.
- Fix using Gyproc Drywall Timber Screws or Gyproc Drywall Screws of a sufficient length to allow a nominal 25mm penetration into the timber.
- Insert screws at 600mm centres into the field of the board and at board ends.

Fixing direct to the soffit
- Use proprietary concrete fixings, and insert at 400mm maximum centres.
- Good standards of thermal insulation can be achieved although there may be a slight risk of pattern staining where temperature, humidity, and soiling conditions are extreme.