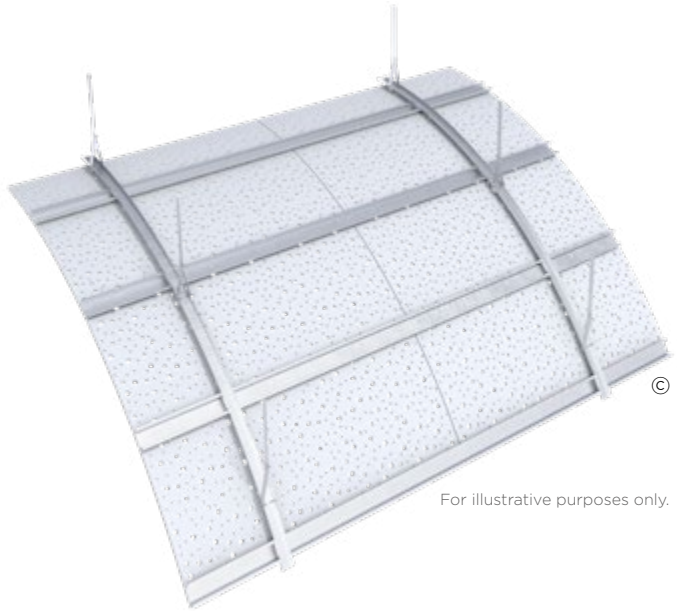
# Technical Guidance Notes
## to common issues
Forming non-fire rated curved ceilings

GypCeiling MF is a suspended ceiling system suitable for most internal drylining applications.

Our GypCeiling MF system has a high degree of design flexibility to create a unique, creative ceiling design without specialist tools or equipment. The fully concealed grid and ceiling lining can be used with Gyproc plasterboards, Gyptone and Rigitone acoustic ceiling boards to create a curved, seamless, monolithic appearance. The system is suitable for a full range of specifications, from simple plasterboard ceilings through to perforated gypsum acoustic suspended ceilings.



For illustrative purposes only.

### Key benefits
- GypCeiling MF system gives your building the protection of our **SpecSure®** lifetime warranty.
- Can be used to create a unique, creative ceiling design using concave or convex curves down to a minimum radius of 600mm depending on board used.
- Compatible with a wide range of British Gypsum boards from the Gyproc®, Glasroc®, Gyptone® and Rigitone® ranges.
- Pre-formed components and standard fixings make on-site installation straightforward, requiring no specialist tools or equipment.

### Building design
Use the standard ceiling products Gypframe MF5 Ceiling Sections and Gypframe MF8 Strap Hanger, along with our bespoke Gypframe MF7C Curved Support Channels.

### Planning – key factors
Gypframe MF7C Curved Support Channel is supplied pre-formed to the radius required. Board joints should be avoided on the apex of the curve for the exposed layer of board. Gypframe MF5 Ceiling Section positions should therefore be pre-determined at the design stage.

### Degree of curvature
In common with other sheet materials, board-ends have a tendency to remain straight, and so the minimum achievable radius will be influenced by the board characteristics, the length of curve, the support centres, and the occurrence of board joints.

| Minimum radii and framing centres | | | | | |
|---|---|---|---|---|---|
| BOARD TYPE | THICKNESS (MM) | MINIMUM RADIUS (MM)* | MF5 CENTRES (MM)** | SPAN (SUSPENSION POINTS) OF MF7C (MM)† | MF7C CENTRES (MM)† |
| Glasroc F MultiBoard | 6<br>12(2X6) | 600<br>600 | 300<br>300 | 900<br>600 | 1200<br>1200 |
| Gyptone boards | 12.5 | 6000 | 300 | 900 | 1200 |
| Rigitone boards | 12.5 | 5000 | 330 | 900 | 1000 |
| Gyproc WallBoard | 9.5<br>12.5<br>15 | 1800<br>3600<br>4800 | 300<br>300<br>300 | 750<br>600<br>600 | 1200<br>1200<br>1200 |
| Gyproc SoundBloc | 12.5<br>15 | 2900<br>3600 | 300<br>300 | 600<br>600 | 1200<br>1200 |

* Concave or convex

** Gypframe MF5 Ceiling Sections

† Gypframe MF7C Curved Support Channel

NB It is not recommended to bend Rigidur H board

## Board finishing

Whilst a good quality finish can be achieved using normal jointing techniques, a plaster skim finish may be considered (with the exception of Gyptone and Rigitone boards), particularly where there are a number of butt-end joints on the curve.

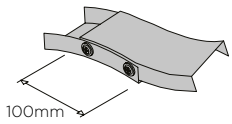
## Installation

Refer to our standard details ST-324-CTL1-01 and ST-324-CTL1-02 – avaiable via the technical support team.

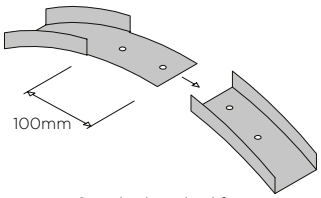
## Splicing

If required, Gypframe MF7C Curved Support Channels can be extended by following the splicing details below.

**Methods of joining**
**Gypframe MF7C Curved Support Channels**




Method: where curvature changes from convex to concave an additional hanger is required.




Standard method for simple curves