

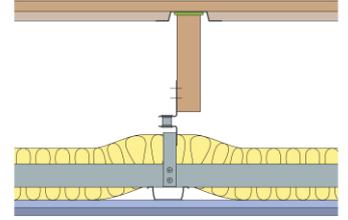
# Technical Specification

This document provides guidance on how to achieve performance and warranty requirements by exclusively using British Gypsum products or system specifications.

GypCeiling MF

## C106026 MR1 (EN)

21mm T&G wood chipboard flooring on GypFloor Silent on 45 x 195mm solid timber joists at 600mm centres. GypCeiling MF suspended ceiling installed beneath joists using Gyframe GAH2 Acoustic Hanger to give a 277mm cavity and lined with an inner layer of Gyproc SoundBloc 15mm and an outer layer of Gyproc SoundBloc MR 15mm with 100mm Isover Spacesaver Ready-Cut in the cavity.



## Background

|                       |  |
|-----------------------|--|
| Structural background | 21mm T & G Floor Boarding, on GypFloor Silent on 45 x 195mm Solid Joists @ 600mm centres |
|-----------------------|--|

## Framework

|                               |   |                               |      |
|-------------------------------|---|-------------------------------|------|
| Soffit connection             | <b>Gyframe MF12 Soffit Cleat</b><br><b>Gyframe GAH2 Acoustic Hanger</b> |                               |      |
| Suspension type               | <b>Gyframe MF8 Strap Hanger</b>   | Suspension centres - Max (mm) | 1200 |
| Suspension type (alternative) | <b>Gyframe FEA1 Steel Angle</b>   |                               |      |

Steel angle section is the preferred suspension option when a plaster finish is specified; it can be used up to 5600mm, alternatively Strap hanger can be used for suspension up to 1000mm.

|                   |  |  |  |
|-------------------|--|--|--|
| Suspension fixing | <b>British Gypsum Wafer Head Jack-Point Screws 13mm</b><br><b>British Gypsum Drywall Screws 35mm</b> |  |  |
|-------------------|--|--|--|

Lower end of suspension fixed to primary framework using two wafer head screws and upper end of suspension secured to soffit cleat using a nut and bolt. Soffit cleat secured to acoustic hanger using M6 bolt (nominal 40mm length) and locking nut (by others). Acoustic hanger fixed to side of joists (35mm overlap) using two British Gypsum Drywall Screws 35mm. If plenum depth greater than 2900mm use two angle sections overlapped by 200mm and fixed together using three British Gypsum Wafer Head Drywall Screws 13mm.

|                                |   |  |      |
|--------------------------------|---|--|------|
| Primary framework              | <b>Gyframe MF7 Primary Support Channel</b>              | Primary framework centres - Max (mm)   | 1200 |
| Secondary framework            | <b>Gyframe MF5 Ceiling Section</b>                      | Secondary framework centres - Max (mm) | 450  |
| Framework fixing               | <b>British Gypsum Wafer Head Jack-Point Screws 13mm</b> |  |      |
| Framework fixing (alternative) | <b>Gyframe MF9 Connecting Clip</b>                      |  |      |

Ceiling sections fixed to primary framework using wafer head screws or clips.

|                   |                                      |  |  |
|-------------------|--------------------------------------|--|--|
| Perimeter framing | <b>Gyframe MF6 Perimeter Channel</b> |  |  |
|-------------------|--------------------------------------|--|--|

Perimeter channel suitably fixed to background at 600mm centres.

## Insulation

|                     |  |  |  |
|---------------------|--|--|--|
| Insulation, Layer 1 | <b>100mm Isover Spacesaver Ready-Cut</b> |  |  |
|---------------------|--|--|--|

## Board and fixings

|                        |                                 |                         |   |
|------------------------|---------------------------------|-------------------------|---|
| Ceiling board, Layer 1 | <b>Gyproc SoundBloc 15mm</b>    | Ceiling screws, Layer 1 | <b>British Gypsum Drywall Screws 25mm</b> |
| Ceiling board, Layer 2 | <b>Gyproc SoundBloc MR 15mm</b> | Ceiling screws, Layer 2 | <b>British Gypsum Drywall Screws 40mm</b> |

Fix ceiling boards securely to all supports at maximum 230mm centres (reduced to 150mm at board ends and at ceiling perimeters). All joints staggered between layers. Fix working from the centre of each board. Position screws not less than 13mm from cut edges and 10mm from bound edges of boards. Set screw heads flush with plasterboard surface; do not break paper or gypsum core.

|         |                       |  |  |
|---------|-----------------------|--|--|
| Sealant | <b>Gyproc Sealant</b> |  |  |
|---------|-----------------------|--|--|

Locate sealant at junctions with adjoining structure and other air paths. Apply as a continuous bead to clean, dry, dust-free surfaces, leaving no gaps.

## Finish coat

To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information. For further guidance on skimming moisture resistant grade boards see the White Book - Finishes section.

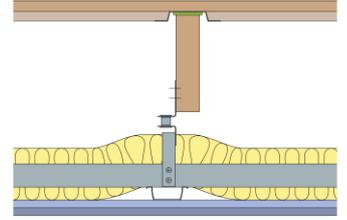
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## System performance

Please read performance data with any associated standards.

|   |            |
|---|------------|
| Fire integrity (mins)                     | <b>60</b>  |
| Sound insulation (Airborne) Rw (dB)       | <b>63</b>  |
| Sound insulation (Impact) Lnw (dB)        | <b>51</b>  |
| Minimum cavity / plenum (mm)              | <b>277</b> |
| Maximum ceiling load (kg/m <sup>2</sup> ) | <b>30</b>  |
| Approx. weight (kg/m <sup>2</sup> )       | <b>27</b>  |

|   |           |
|---|-----------|
| Fire insulation (mins)                    | <b>60</b> |
| Sound insulation (Airborne) Rw + Ctr (dB) | <b>55</b> |

|                              |             |
|------------------------------|-------------|
| Maximum cavity / plenum (mm) | <b>5600</b> |
|------------------------------|-------------|

## Standards

These standards relate to the above performance data.

BS EN ISO 140-6, Acoustics - Measurement of sound insulation in buildings and of building elements. Laboratory measurements of impact sound insulation of floors.

BS EN ISO 140-3, Acoustics - Measurement of sound insulation in buildings and of building elements. Laboratory measurement of airborne sound insulation of building elements.

BS EN 1365-2, Fire resistance tests for loadbearing elements - Floors and roofs.

## Further information

**SpecSure®** system performance warranty confirms that British Gypsum proprietary systems will perform as specified for the lifetime of the building. The **SpecSure®** warranty requires that all components are specified in full and constructed in accordance with British Gypsum's installation guidance. For more details see the British Gypsum website. Always check with the design team before making any changes to the chosen specification, ensuring appropriate substantiation is sought to confirm that the solution still meets all required project performances.