



# Curving GIB® Plasterboard

This bulletin supersedes page 56 of 'GIB® Site Guide, 2018' and provides updated information on the topic of curving GIB® plasterboard.

GIB® plasterboard can be curved. Curvature is dependent on the thickness and whether the board is applied wet or dry.

Additional development work by the GIB® Technical Team has updated the minimum bending radii of various product and framing centres, resulting in the tables below. The radii shown are for GIB® Standard and GIB Ultraline® as well as other performance boards such as GIB Fyrelite®, GIB Aqualine®, GIB Braceline®, GIB Noiseline®, GIB X-Block® and GIB Weatherline®.

## Minimum Bending Radii of GIB® Plasterboard

Board thickness/ type	Minimum radius (wet)*	Minimum radius (dry)
10mm GIB® Plasterboard **	1000mm	1200mm
13mm GIB® Plasterboard ***	1200mm	1500mm

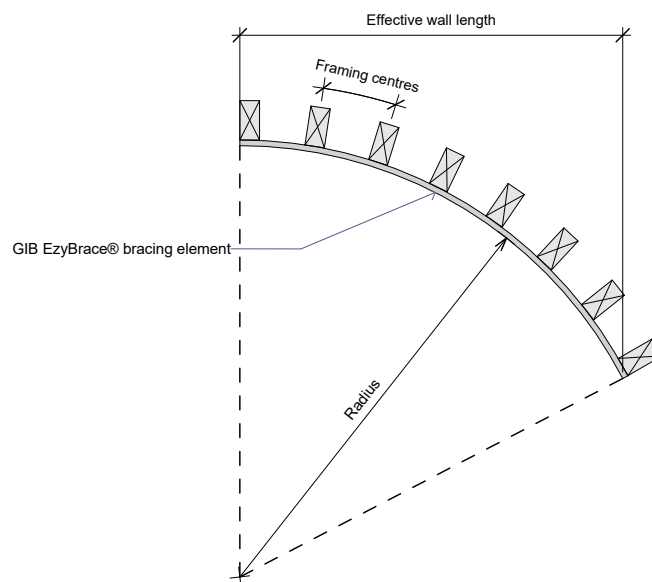
- \* Not applicable to GIB Weatherline® rigid air barrier and GIB Aqualine®
- \*\* Includes 10mm GIB Weatherline® rigid air barrier
- \*\*\* Includes 13mm GIB Weatherline® rigid air barrier but excludes 13mm GIB Toughline® and GIB Toughline® Aqua

## Framing Centres

Wall or Ceiling Radius	Maximum Stud, Batten or Joist Spacing
900mm – 1200mm	200mm
1200mm – 3000mm	300mm
3000mm – 4000mm	400mm
Over 4000mm	600mm (450mm for 10mm GIB® Plasterboard in ceiling applications)

It is not recommended to curve thicker and some high density boards such as 16mm and 19mm GIB Fyrelite®, GIB Toughline®, GIB Toughline® Aqua and GIB Barrierline® due to the risk of breakage.

Curved walls can be incorporated into performance systems provided the curving is carried out strictly in accordance with the application method in this bulletin. The curving must not weaken or crack the gypsum core. The projection of a curved GIB EzyBrace® bracing element should be used as the effective wall length, as illustrated below.



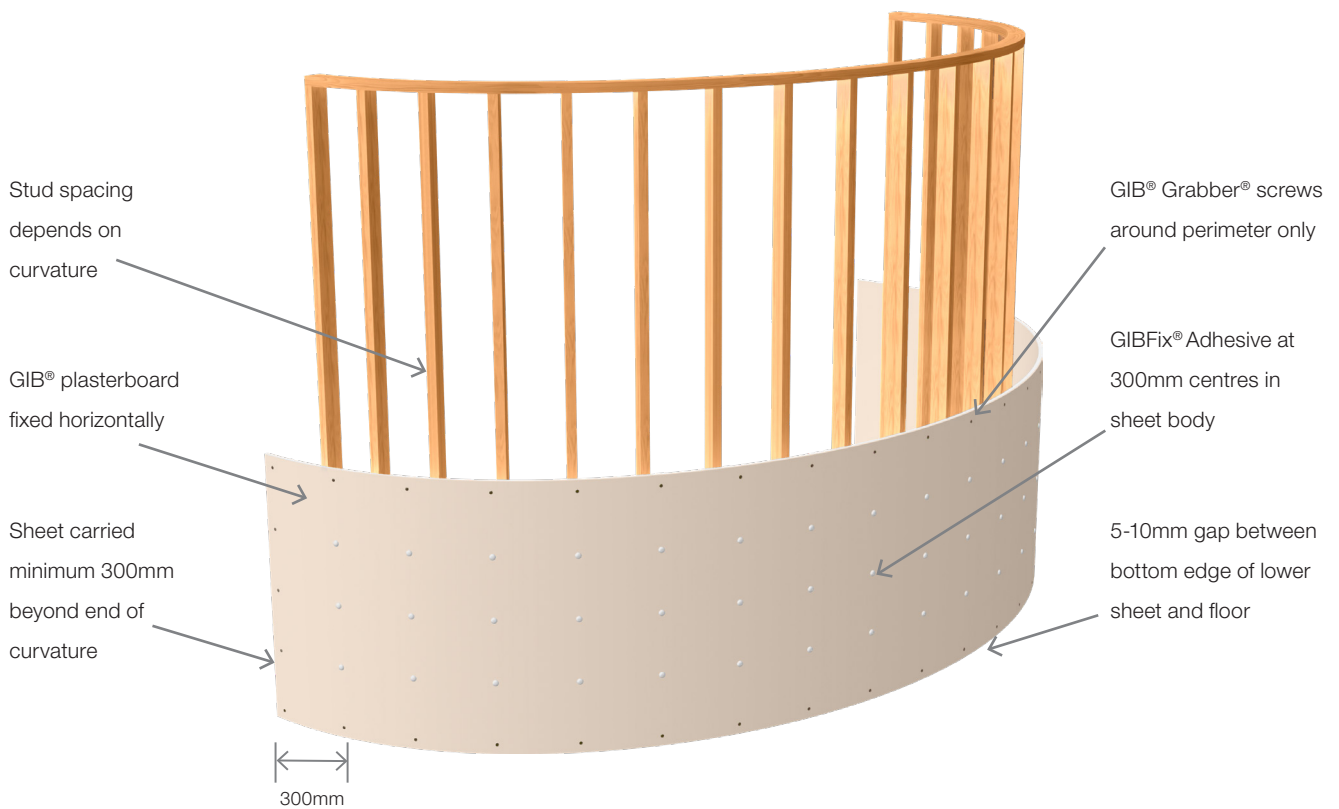
**Application Method**

- Ensure that framing spacings in the table above are correct.
- Sheets must be fixed horizontally to walls.
- If possible, select board length to allow for one unbroken panel to cover the entire curve with enough extra length to extend 300mm beyond each end.
- When curving ‘wet’, apply water with a paint roller to both sides. Approximately 40 mL/m<sup>2</sup> of water and 10 minutes set time are required.
- When creating an outside curve, begin installation at one end and fasten the sheet as it is wrapped around the curve.
- When creating an inside curve, start fastening the sheet at the centre of the curve and work outwards to the end of the sheet.

The development work found that curving GIB® plasterboard requires patience. Rushing the curving process can result in board breakages. Taking your time and allowing the board to take the curve is the best approach. The typical time taken to successfully fit a board to a curve is 30 - 40 minutes.

**Note** Lining the inside of the curve will be more difficult than lining the outside. This will require additional labour and the GIB® plasterboard must be curved prior to installation.

**For more information call the GIB® Helpline on 0800 100 442.**



**Note** For performance systems, refer to relevant specification sheet for the fastener and nog requirements.