

## TECH DATA

### Benefits

- Design solution for concave and convex surfaces
- Economical light weight construction
- Easy to install



CurveShield can be used in residential and commercial applications.

**CurveShield** is standard plasterboard made from a core of gypsum sandwiched between two layers of heavy duty recycled paper. The face paper is coloured ivory ready for paint or wall paper finish.

### Application

**CurveShield** is designed for creating tightly curved walls and ceilings. It is an internal wall and ceiling lining suitable for residential and commercial applications.

**CurveShield** is typically installed in two layers over a timber or steel frame and can also be installed over curved masonry wall.



### Installation

**CurveShield** is usually installed using 'Fastener Only Method'. Fix on each stud. Stagger recessed edges and butt joints by 300mm between layers and on opposite sides of the wall.

### Product Information

SHEET SIZE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT* (kg/m <sup>2</sup> )
	6.5	1200	3600	4.5
<b>FIRE HAZARD PROPERTIES</b>	Group 1 material according to the requirements of BCA Section C1.10 Fire Hazard Properties. Average Specific Extinction Area of <250 m <sup>2</sup> /kg as required by BCA Specification C1.10a, Clause 3(c) Group 1S according to NZBC performance, Clause 3.4(a)			
<b>VOLATILE ORGANIC COMPOUNDS</b>	Less than 0.5mg/m <sup>3</sup> TVOC			
<b>HAZARDS IDENTIFICATION</b>	Not classified as hazardous according to the criteria of NOHSC Australia			

\* Weights indicated are nominal

 **Quality ISO 9001**  
 CurveShield is manufactured in accordance with quality systems certified as complying with AS/NZS ISO 9001:2008 and meets the requirements of AS/NZS 2588, *Gypsum Plasterboard*.



CurveShield has been independently certified by Global GreenTag to GreenRate Level A, recognised by

the GBCA for Materials and VOC credits and by ty NZGBC.

### Warranty

Knauf's products are guaranteed by a 10 Year Warranty. For details visit

[knaufplasterboard.com.au](http://knaufplasterboard.com.au)  
[knaufplasterboard.co.nz](http://knaufplasterboard.co.nz)

### Technical Advice

AU **1300 724 505**  
NZ **0800 884 326.**

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### General requirements

- Use CurveShield for applications where the radius is less than 900mm.
- Fix ceiling framing at 300mm maximum centres for installation of CurveShield.
- Ensure that the radius on the convex side is not too tight for the corresponding concave side.
- Stagger recessed edges and butt joints by 200mm minimum between layers.
- Curve plasterboard along the short edge (widthways for tighter radii and easier jointing).

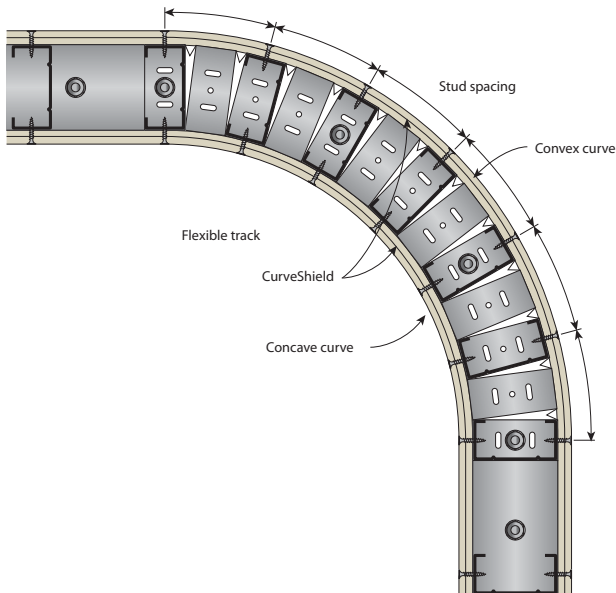
### Recommendations

- A Rondo Flexi-Track and stud system is recommended for framing curved walls or ceilings.
- Avoid joints parallel to studs in the curved section.
- Only the face layer needs to be jointed.
- The minimum curve radius is determined by the concave side.
- A minimum of two layers of CurveShield is recommended.

### MAXIMUM FRAME Spacing AND MINIMUM CURVE RADIUS FOR CURVESHIELD

	Curve Radius (mm)									
	250-450	450-650	650-900	900-1000	1000-1500	1500-2000	2000-2500	2500-3000	3000-4000	> 4000
	Maximum Framing Centres (mm)									
Concave <b>CurveShield</b> Curved along length	-	-	200	200	200	250	300	350	450	550
Convex <b>CurveShield</b> Curved along length	-	200	200	200	200	250	300	350	450	550
Concave <b>CurveShield</b> Curved along width	-	150	150	150	200	250	300	350	450	550
Convex <b>CurveShield</b> Curved along width	125	150	150	150	200	250	300	350	450	550

### Non-Fire Rated Curved Wall Detail:



### Non-Fire Rated suspended curved ceilings:

