Gyptone BIG Curve™ system
Installation manual

Design and technique

Product description
Gyptone big Curve is a unique solution for combining design and acoustic performance. Gyptone Big curve is a curved ceiling built on a metal grid system and doesn’t have any visible joints. The curved ceiling can be used in many different segments, like malls, office buildings, hallways, airports and so on. The 6.5 mm Curve gypsum board is fully recyclable.

Surfaces
After installation of the boards the board surfaces need to be painted. The painting should be done using a short haired roller. Don’t spray paint the boards as the paint will spray on the acoustic tissue underneath the perforations which will decrease the acoustic absorption for the product. For a nice, smooth joint between the boards, use filler, sandpaper and paint.

Grid system
Gyptone Big Curve is built on GK system in 2 levels. The construction must be done according to this manual, the project description and drawings.

Fire
B-s1, d0.

Load
Maximum load is 1 kg. If an item is heavier than 1 kg, the item needs it’s own hanger.

Dimensional stability
Gyptone BIG Curve should be put up and used in areas where the relative humidity does not exceed 70% and temperature does not exceed 45 degrees for a longer period of time. Gyptone BIG Curve can be curved down to a radius of 2.2 meters in dry conditions and 1.2 meters in wet conditions. The board can be curve convex and concave, but only in the length of the board.

Weight
Gyptone BIG Curve Base = 6.5 kg/m²
Perforated Curve products = approx 5.5 kg/m²

Cleaning
Depends on the surface treatment.

Maintenance
Damage to the edges or surfaces can be repaired with filler and paint.

Dimensions
Gyptone BIG Curve comes in modules of 1200 x 2400 mm.
**Gyptone BIG Curve™ system**

**Installation GK-system in 2 levels and Gyptone BIG Curve boards.**

We recommend that the entire installation manual is read before commencing work.

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**A**

Fix twisted steel sheet VPB 50/50 to a wall. Use screws with a pan head and fix them to the wall with a center distance of 400 mm. See detail drawing on page 4, section A-A and B-B.

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**B**

Plan out where to place the adjustable hangers GK 26-01/GK 27.9. Fix the adjustable hangers using appropriate fasteners. Hanger center distance = 900 mm. Main channel center distance = 1200 mm.

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**C**

The first hanger should be placed with a maximum distance of no more than 200 mm from the wall. The center distance for the main channels (GK1) is 1200 mm. The first main channel (GK1) should be placed no more than 120 mm from the wall. See detail drawing on page 4, for description of section A-A and B-B.

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**D**

Lift the main channels (GK1) up and attach the GK26-01 hanger to it, by twisting the hanger into the main channel.

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**E**

Place the jointing plate GK 22 on top of the main channels. Then push the cross channels (GK 2) up into the jointing plate. Cross channels are installed with a centerdistance of 300 mm.

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**F**

Where there is a connection between the short edges of the BIG Curve, it is important to place the cross channels with a centerdistance of 150 mm. To secure a smooth curved transition between the BIG Curve boards. See also illustration I.
BIG Curve™ system

Installation GK-system in 2 levels and Gyptone BIG Curve boards.
We recommend that the entire installation manual is read before commencing work.

BIG Curve has only taped edges on the long sides. On the short sides, it is important to make a bevelled edge with a knife so more filler can be applied in the connections between the boards.

The board must be fixed to the steel system with special Gyptone QSC25. All short edges must be supported by the steel system.

Installation of the boards on the grid system, must be done with an even amount of pressure applied to the boards (push very slowly). Place the screws according to the fixing template on page 5. The board must be curved along its length.

Fill all joints with an appropriate filler along with a paper strip. When the filler is dry, use sandpaper and make a smooth surface between the boards. Do not overlap the paper strips.

Filling the screws, use appropriate filler. Keep using filler and sandpaper until surface of the board is smooth.

Painting the BIG Curve is done with a shorthair mohair roller. Avoid paint in the perforation. It is not allowed to spray paint BIG Curve, because of the risk of getting paint on the acoustic tissue. If paint is applied to the acoustic tissue, this will strongly reduce the BIG Curves acoustic performance. The BIG Curve is primed and then painted twice.
Gyptone BIG Curve™ system
1200 x 2400 mm boards

Material usage for GK system in 2 levels

<table>
<thead>
<tr>
<th>Item</th>
<th>Term</th>
<th>Dimension mm</th>
<th>Length mm</th>
<th>Cc mm</th>
<th>Usage/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main channel (rolled)</td>
<td>GK 1</td>
<td>27 x 60</td>
<td>4000</td>
<td>1200</td>
</tr>
<tr>
<td>2</td>
<td>Cross channel</td>
<td>GK 1</td>
<td>27 x 60</td>
<td>4000</td>
<td>300</td>
</tr>
<tr>
<td>3</td>
<td>Connector</td>
<td>GK 20</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>Jointing plate</td>
<td>GK 22</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>Bottom hanger</td>
<td>GK 26-01</td>
<td>-</td>
<td>-</td>
<td>900</td>
</tr>
<tr>
<td>6</td>
<td>Top hanger</td>
<td>GK 27-190 etc.</td>
<td>-</td>
<td>-</td>
<td>900</td>
</tr>
</tbody>
</table>
Gyptone BIG Curve™ system
Gyptone BIG Curve boards.

Fixing template
GK-system in 2 levels. Main channels cc. 1200 mm and cross channels cc. 300 mm
(cross channels cc. 150 mm at the short edges).
Build a template so it will be possible to curve the wet plasterboard around the template, in the specific curved radius – Radius from 2,2 meters to 1,2 meters use wet bending.

Use clean water – if possible (use also a little part of rinse aid (surfaceactive agent for a dishwasher)) – this will help the water to go into the gypsum core more quickly. Water must be applied on the side of the plasterboard closed to the centre of the radius.

Carefully lift the wet plasterboard and place it on top of the template. Apply pressure on the edges with a flat, wooden plank or steel stud and fix the stud with a clamp until the gypsum board is 100% dry.

Carefully lift up the plasterboard when it is 100% dry. The curved plasterboard must be installed maximum 2 hour after it is removed from the form. If not – it will assume its original shape.

Note: The board must be curved in the length.
Gyptone BIG Curve™ system

Gyptone BIG Curve boards, good advice.

GK - system

A 100% smooth surface

Full contact between board and grid before screwing

Screw positioning

BIG Curve must be lifted from the stack

If the board is pulled off the stack, the acoustic tissue on the backside might get rolled off the board. This might give some issues with the level between boards during the installation.
Humidity must not exceed 70% during construction or when the room is in use.

It is only allowed to use GK-system.

Attach twisted steel sheet to wall with screws, fixed with a centre distance of 400 mm.

Always measure up the room and place the hangers after the guidance of the project material as drawings and descriptions.

Always use GK 22, for connection between the main and cross channels.

Place an extra cross channel with a centre distance of 150 mm on each side of a board connection. This is for making a smoother curve.

Make a small, beveled edge on the short edge of the board to obtain a smoother joint when applying filler.

Never place a screw in a corner of a board.

Place screws with a centre distance of 100 mm, on the short sides of the board.

Never dry bend a BIG Curve, to less than a radius of 2,2 meters.

Always prime the surface of the boards, before painting it twice.

Read this guidance before commencing the work.

Gyproc BIG™ System
Checklist for installing Gyptone BIG Curve on GK-system in 2 levels.

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ISO 9001
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