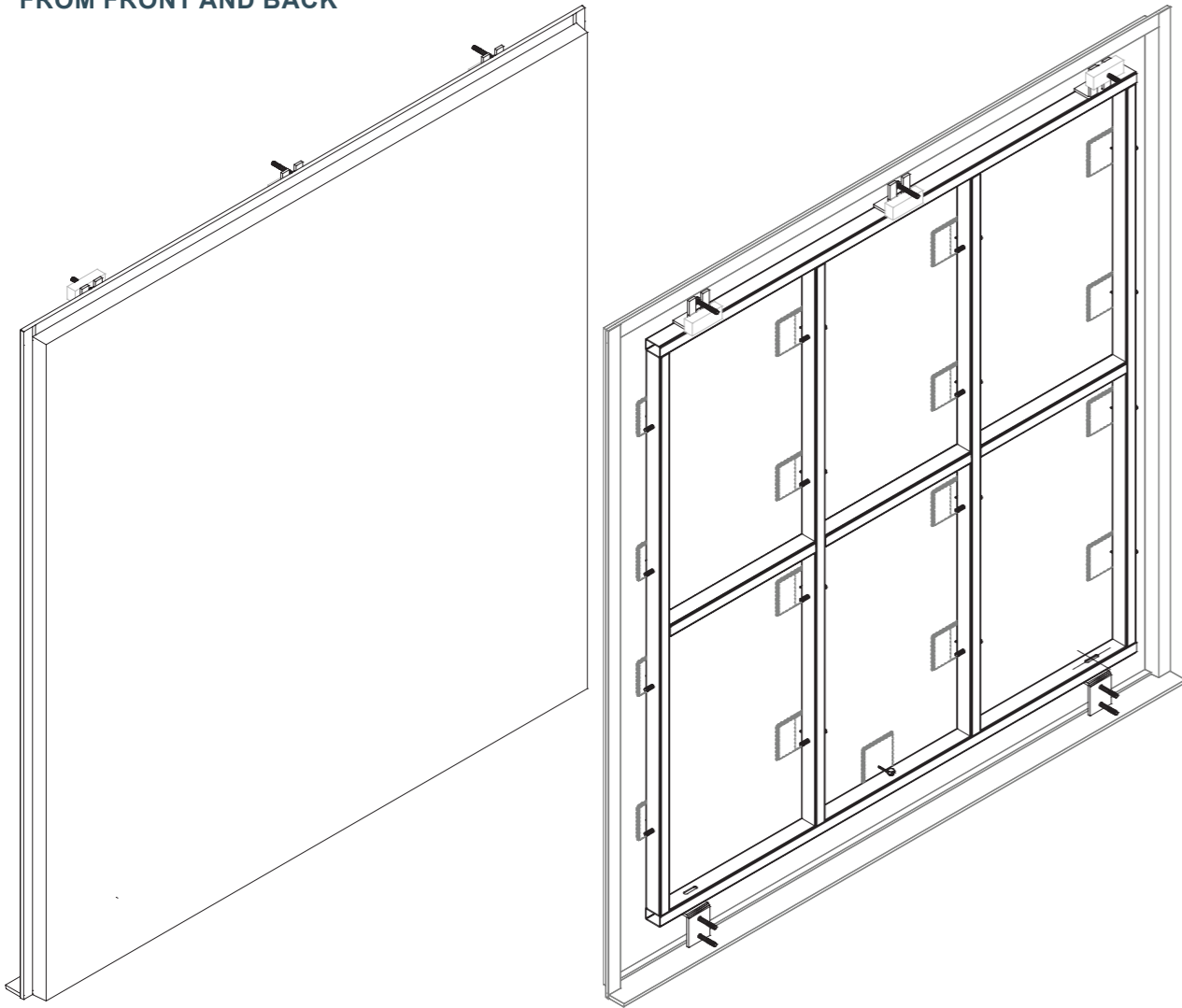
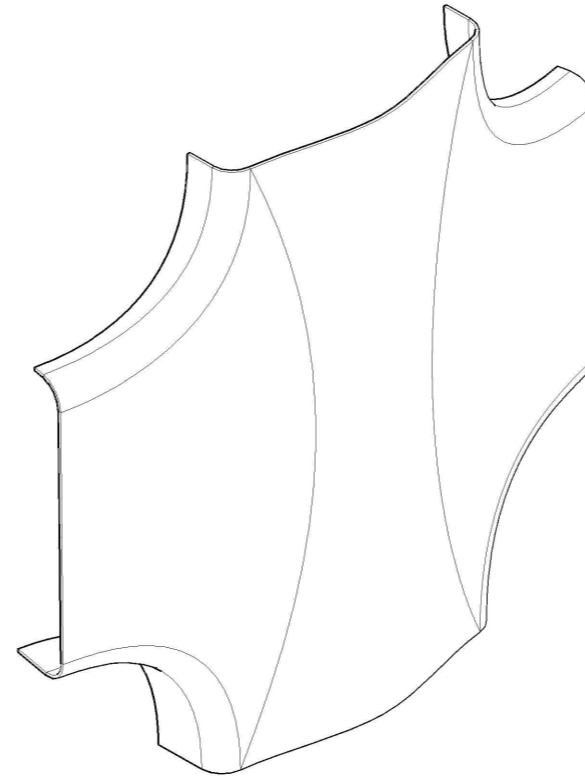


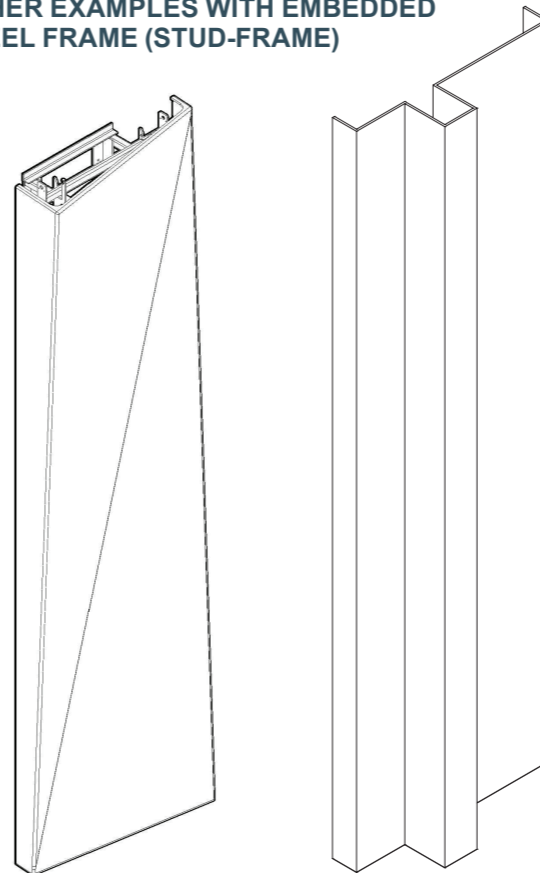
STUD-FRAME ELEMENT SEEN FROM FRONT AND BACK



EXAMPLE OF CURVED ELEMENT WITH STEEL FRAME



OTHER EXAMPLES WITH EMBEDDED STEEL FRAME (STUD-FRAME)



## FACADE ELEMENTS WITH EMBEDDED STEEL FRAME (STUD-FRAME)

With the stud-frame system it is possible to be able to mount large elements at few mounting points. The system is designed to ensure that the underlying construction can receive the loads. The thin facade GRC of typically 12 mm transfers wind and weight load via a number of small hinges to the steel frame, which then again distributes the forces to the assembly mounting points. With this construction it is ensured that no tension occurs between the steel and the GRC caused by changes in temperature and humidity conditions.

The stud-frame system is large elements. We have experience with elements that span more than 6 meters and facade areas of more than 20 m<sup>2</sup>.

The examples shown are a large "facade cross" which measures of approx. 3.5 x 3.5 meters and 1.0 meter in depth and elements with spans from top to bottom of more than 4 meters.

### • GEOMETRY

Elements with stud-frame system can be shaped into almost any imaginable geometry.

Static calculation of both GRC and steel-frame is done by BB fiberbeton.

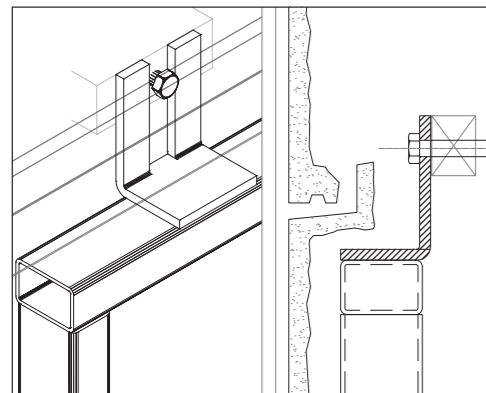
The formability is great and the technique can be applied to all geometric shapes.

### • COLOR AND SURFACE

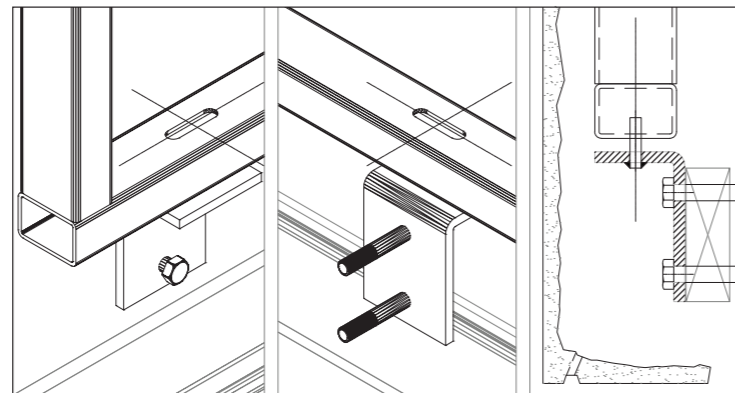
Surface, structure, color etc. can be varied as on all our other products.

### • MOUNTING

Assembly is fast and easy. Elements are handled in the steel frame and typically weight is taken in the bottom using mandrels in long holes, - see the example. When the element is attached to the mandrels, the element is then locked at the top.



Typical mounting detail (top)



Typical mounting detail (bottom)