

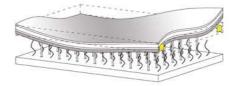
and bottom chord take over the tensile loads. Thermoplastic fibers separate the two glass fiber layers from each other. Monofilaments keep the mesh-

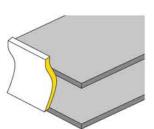




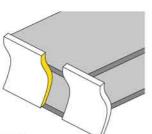
num) and self compacting ablilties assure a perfect surface and a

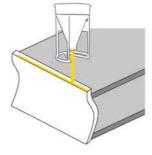


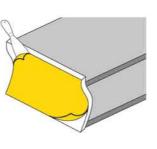




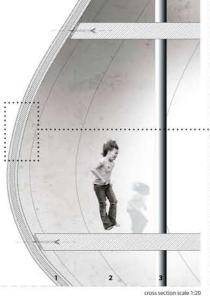
the form later, light **Thermoshape** elements are easily transported to any construction site. Once on the site they are fixed at the right place, the parts







are welded together so that the later appearance of the wall will not con-tain any joints. Now the **Thermoshape** elements are ready to be filled with concrete. Later, the thermoplastic layer is removed.

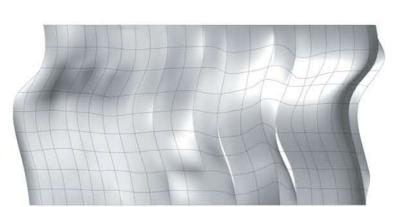


(thermoplastic layer removed) and connected with the frame construction with façade anchors









## K T 2 1 5 ■2

In today's architecture - when constructing with concrete - organic shapes are generated that ask for innovative solutions of formwork.

In combining different manufacturing processes, we created the concrete hybrid Thermoshape. Thus shiny concrete elements that are reinforced, jointless, and insulated can be

The 3D-curved shapes that are mostly computer constructed are brought into their precise form with help of a pneumatic formwork table. Using the deep drawing manufacturing technology each thermoplastic sandwich element receives its form by melting it.

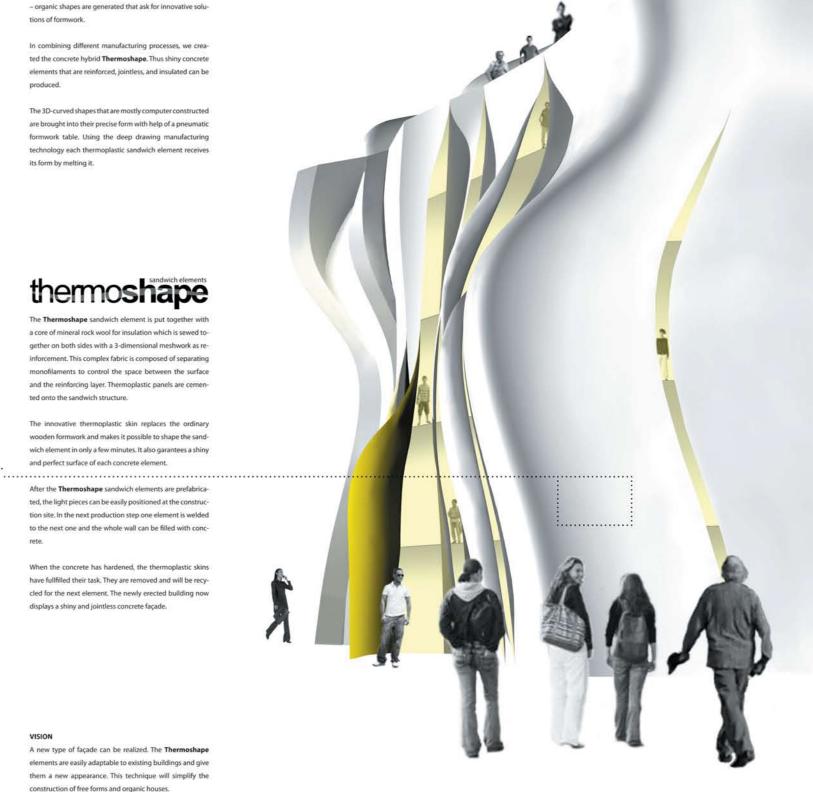


a core of mineral rock wool for insulation which is sewed together on both sides with a 3-dimensional meshwork as reinforcement. This complex fabric is composed of separating monofilaments to control the space between the surface and the reinforcing layer. Thermoplastic panels are cemented onto the sandwich structure.

The innovative thermoplastic skin replaces the ordinary wooden formwork and makes it possible to shape the sandwich element in only a few minutes. It also garantees a shiny and perfect surface of each concrete element.

After the Thermoshape sandwich elements are prefabricated, the light pieces can be easily positioned at the construction site. In the next production step one element is welded to the next one and the whole wall can be filled with conc-

When the concrete has hardened, the thermoplastic skins have fullfilled their task. They are removed and will be recycled for the next element. The newly erected building now displays a shiny and jointless concrete façade.



A new type of façade can be realized. The Thermoshape elements are easily adaptable to existing buildings and give them a new appearance. This technique will simplify the

















