PIXELSPACE - ALUMINIUM DISCRETE ASSEMBLY PAVILION
COMMISSIONED BY 360 MALL WITH AAVS KUWAIT (KUWAIT, 2017)

Project by: Manuel Jimenez Garcia, Jeroen van Ameijde, Manja van de Worp, Christina Dahdaleh, Sulaiman AlOthman and Nada AlQallaf

The ‘PixelSpace Pavilion’ is constructed out of a custom-designed, multi-performative component system. Using pattern combinations of different types and sizes of elements, the walls of the pavilion incorporate variations in structural performance, shading and privacy filtering. A computational process was used to generate the component stacking patterns, matching the qualities of the pattern to the requirements for the different areas of the enclosure. This process incorporates specific site relationships such as blocking certain light angles or framing certain views towards the viewpoints in the direct surroundings. The project demonstrates an approach towards high-resolution construction materials, that create optimised functional and exciting environments. The use of a customized software application for these types of processes allows the role of the architect to focus on the overall qualities of space while being able to control complex material organizations indirectly and economically.