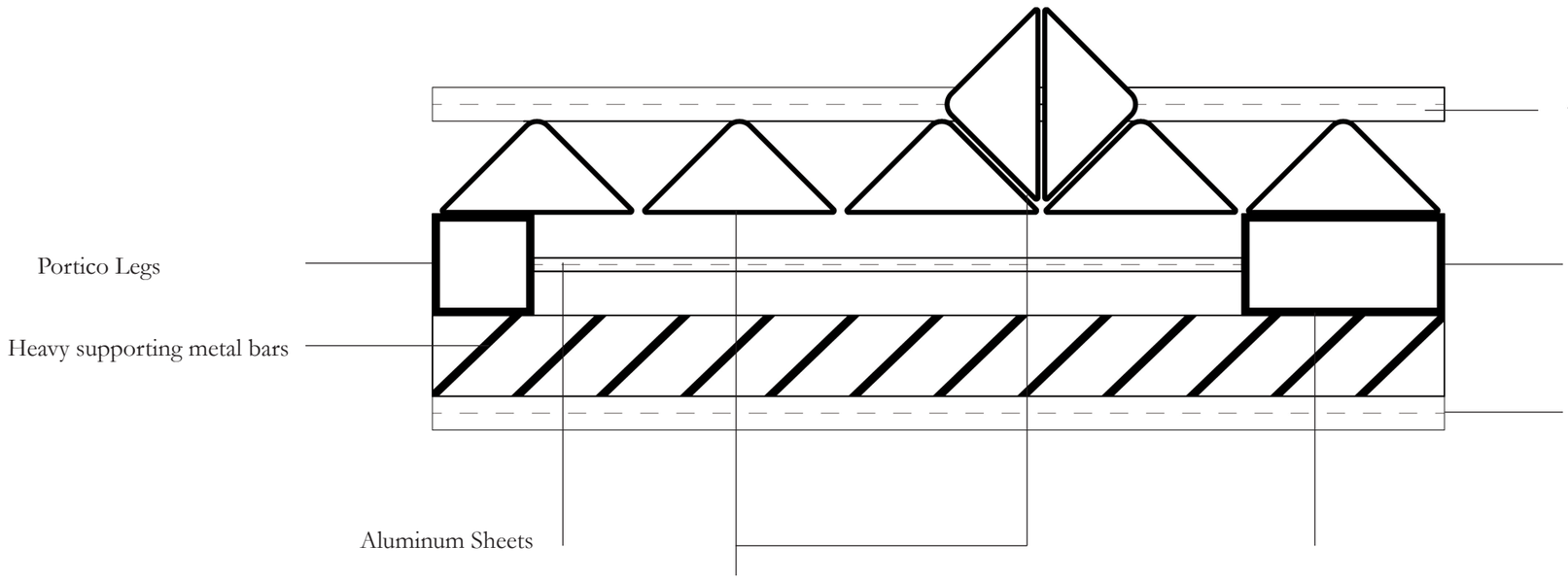
Yoav Caspi

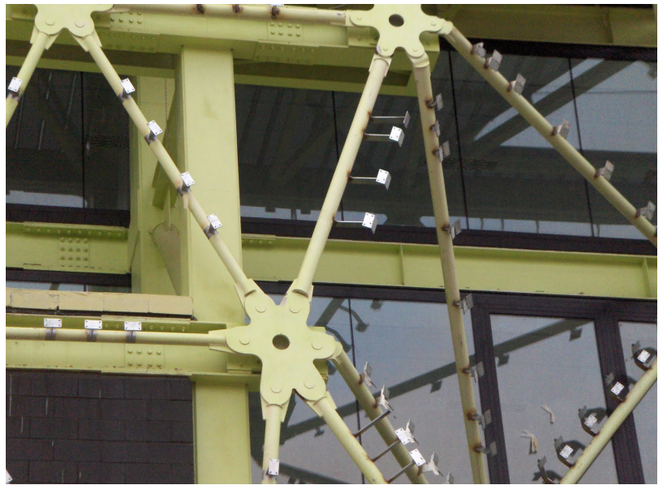
Media TIC Building - Facade Study
Cloud 9 Architects | Enric Ruiz Gelli
Barcelona, Spain

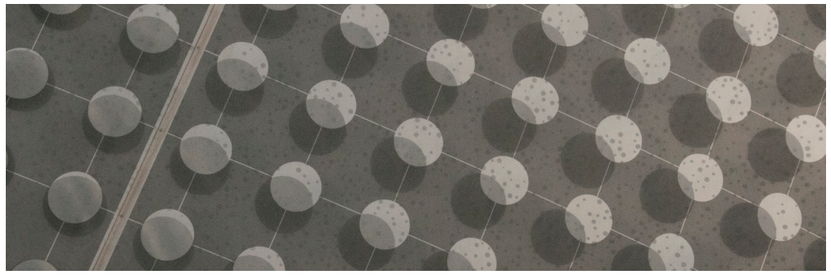
During a unit trip in Barcelona we visited the Media ITC building. Its environmental properties intrigued me.



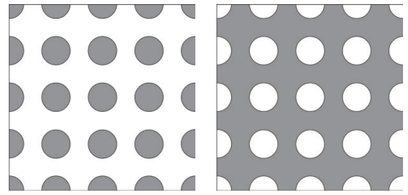
Painted Platic Surfaces

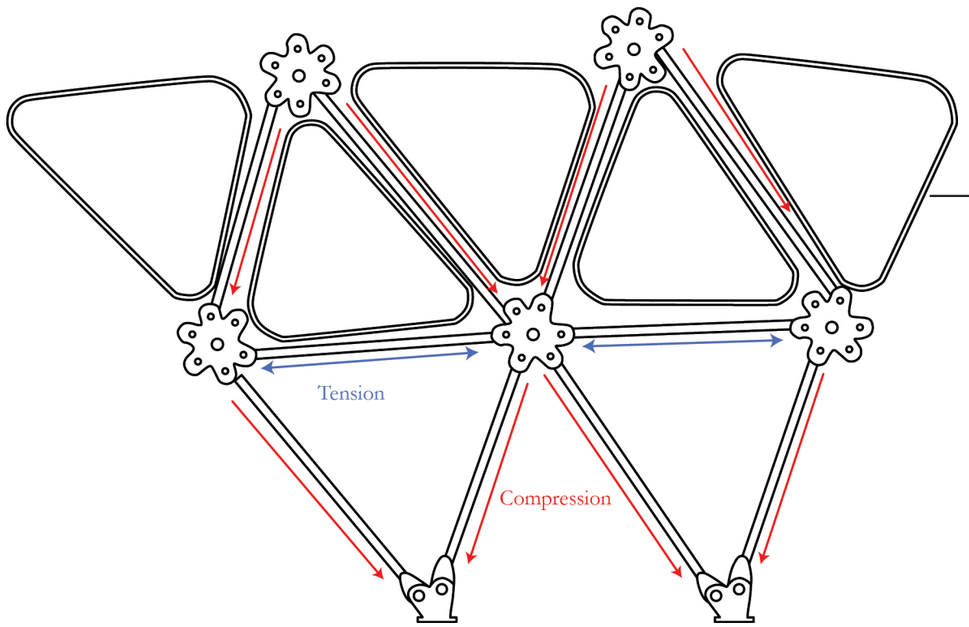
The building introduce a system regulating the amount of light coming into the building by two set of plastic layers demonstrating inverse pattern. When the building is warm the sheets close into one another and entrance of light is minimized. When heating is required entrance of light is maximized by seperating these sheets apart.

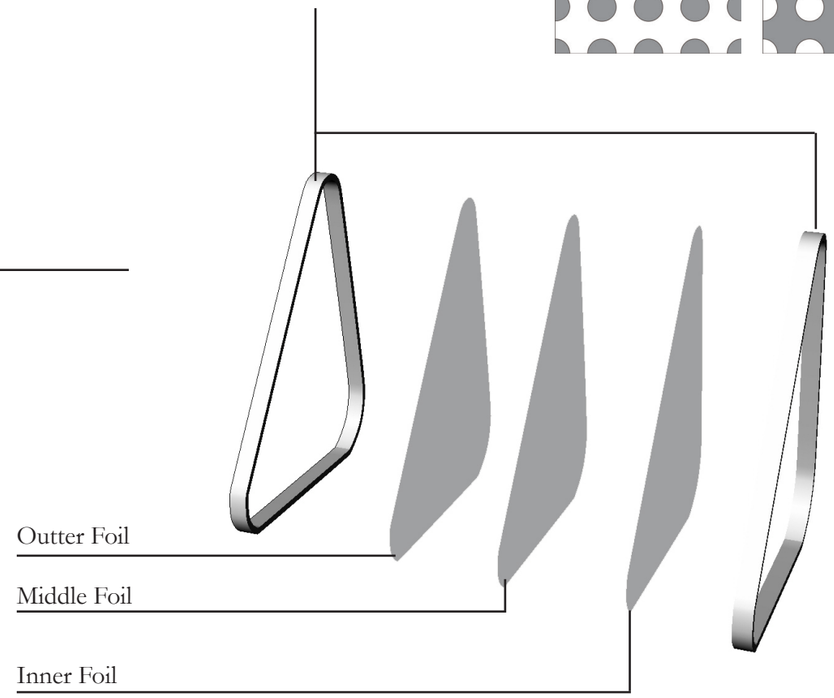




Aluminum frame sealing cushion.
These are also accompanied by aluminum bolting sheets and anchors that join the two frames together







The façade works in a moment fixed connection where forces travel efficiently in a triangular geometry. As an efficient geometry to transfer forces, two metal bars work in compression where another horizontal works in tension.

The TIC Media façade is equipped with a electronic system connected to the aluminum frames. Between the two frames there are three layers of foil. The two outer layers demonstrate a pattern and its inverse. This system regulates the heat within the building while bringing the foil together to minimize penetrating sunlight and drifting them apart in case of lack of heat.