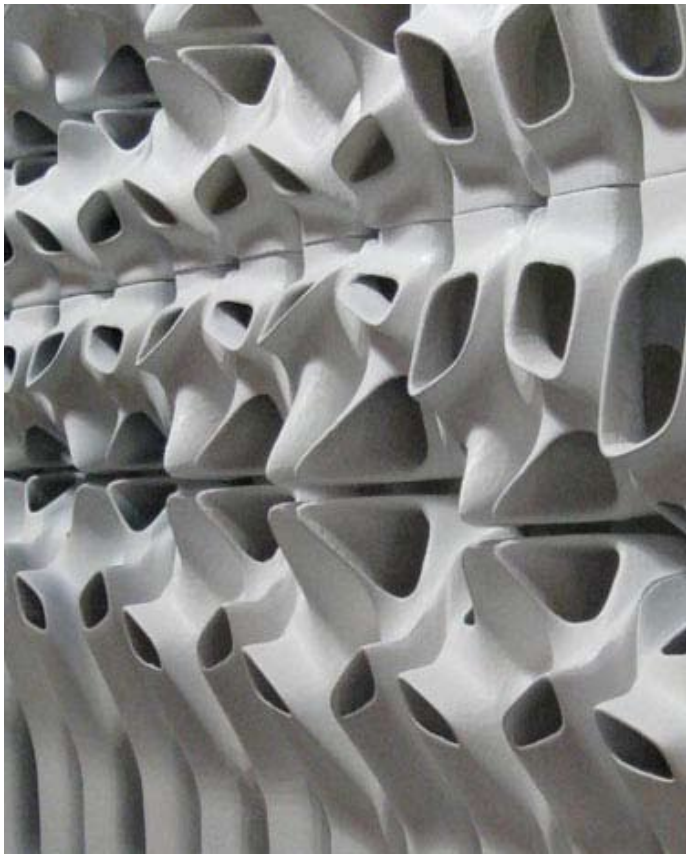
Virgin Atlantic International Lounge, New York, SHOP Architects



The Wall of the Future, MOMA, New York, Contemporary Architecture Practice

Visitors bench, World Company building, Tokyo, Frank Gehry

Research Synopsis

Stacking

Stacking is one of the most ancient and primal form of assemble and construction. The way components – equal or different – are put together in a simple manner result in an easily understandable system where to achieve success – stability – one needs to control balance. Normally this is achieved by robustness, perceived to be directly linked to density, or compactness of the mass.

In the architectural context stacking is translated in walls, space enclosure systems used to create and define shapes and spaces, both at material and psychological level. Such systems are usually characterized by the use of pieces of reasonable/hand-able size that obey to an industrial/serialized production methods that obligates to a formatted/fixed shape with no or little variation leading to some sort of pattern.

My interest lays in how to use this system and aim this research to the application of the new production logics on the parametric tools that assist design.

With the advances of technology in the field of parametric modelling, computer aided manufacturing and changes in the construction process, constrains that dictated this systems in the past are no longer present. We can now manipulate larger/bigger elements, and industrial production is no more the standardized serialized manufacture but the multi uniquely elements realization.

By using parametric tools it will allow the system properties to be explored and pushed beyond. Keeping its natural stability and structural performance, search to make the system respond to other architectural demands and assess implications in the visual forms, from total density to the point it dissolves and is no more.