

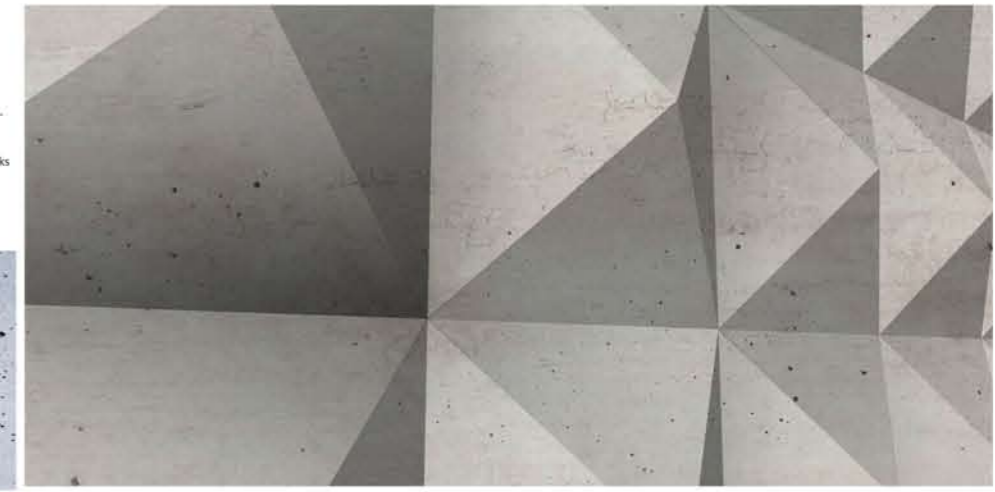
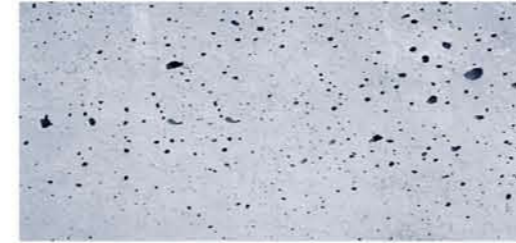
Concept

Acoustics applied in metropolitan design is the main point of the project. A barrier is built in order to isolate noise. The geometry of the final shape works alongside the concrete itself to ensure the successful isolation of the noise. A metro station would be used as an example of an urban design where the theory would be put into practice.

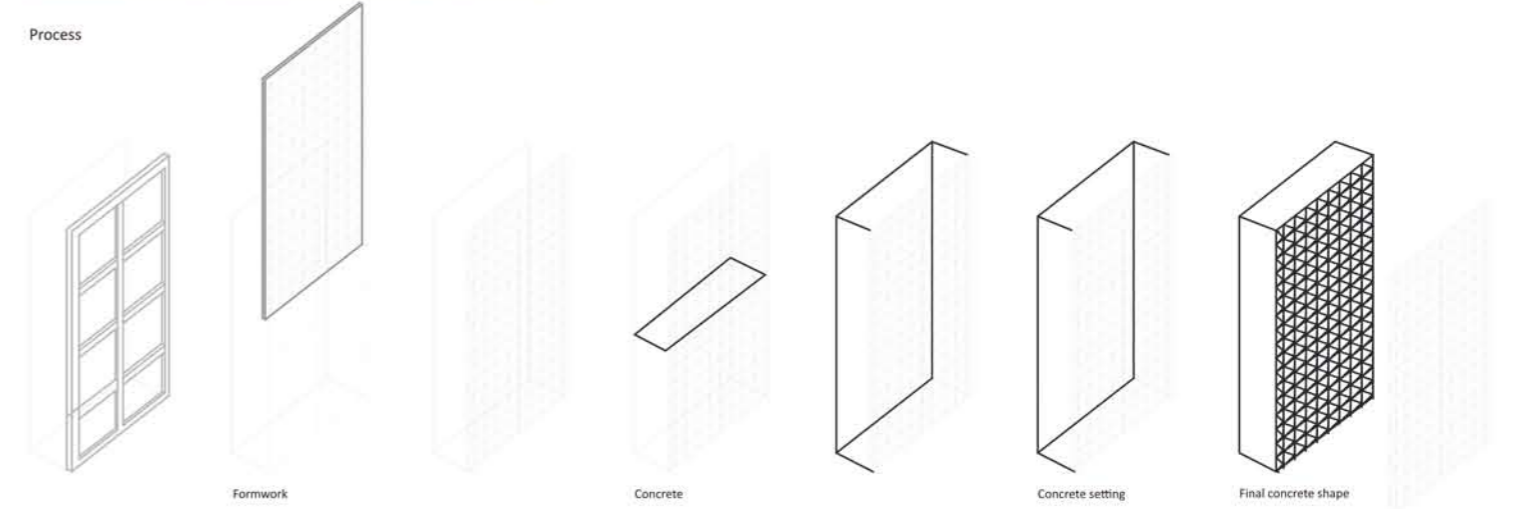


Material

Celular concrete is a very light material with a alveolar structure which makes it even light-weighter, but at the same time solid and resistant. Due to this features it works perfectly as an acoustic insulator. The concrete avoids the expansion of the noise by absorbing it through the cells. This absorption transforms the sound waves in not audible oscillating waves of energy. This waves are able to traverse small holes. When they hit agents a barrier they go through those little apertures as they curve themselves and then displace in orbits. The aperture works as a new focal point.



Process

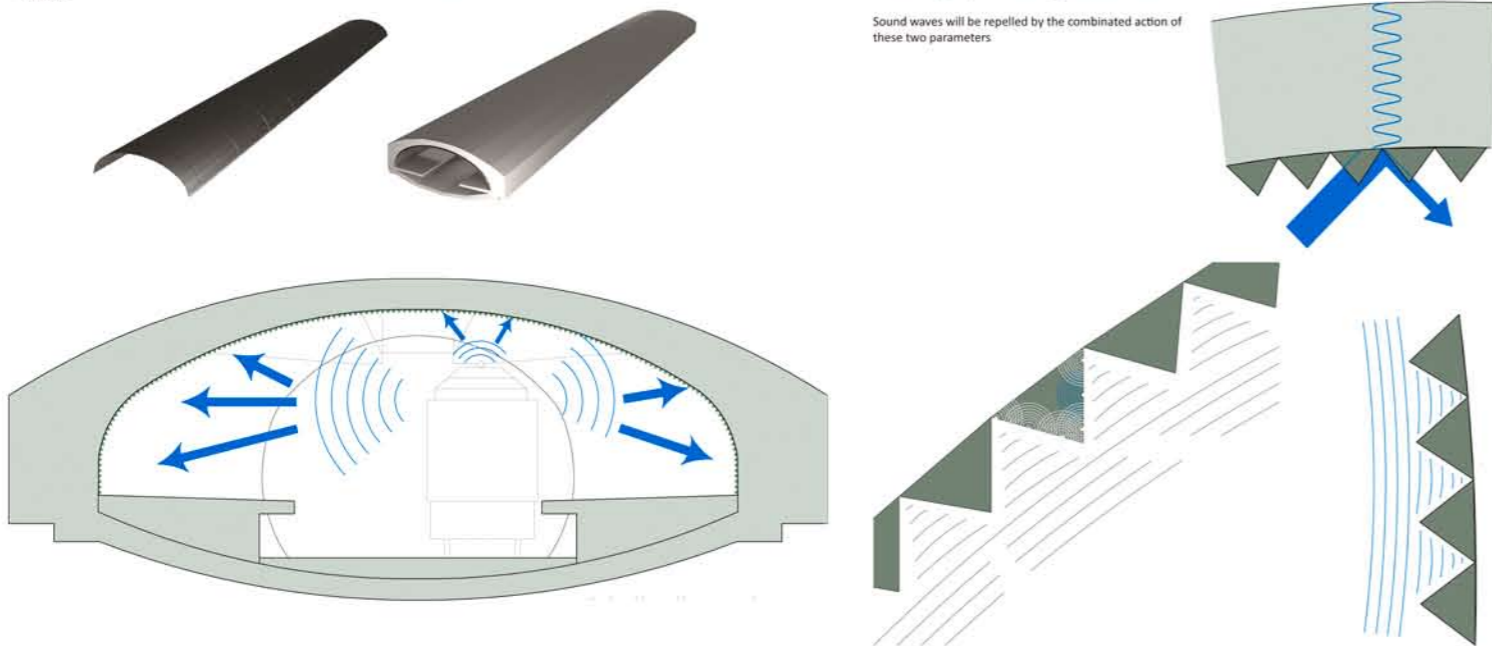


Casing

Station

Geometry properties alongside the concrete

Sound waves will be repelled by the combined action of these two parameters.



Pattern development

