SW580 SW580 **Acute Acoustics** The Anechoic Sound Barrier

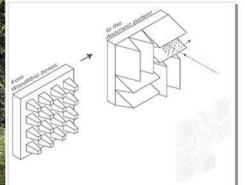
Acute Acoustics

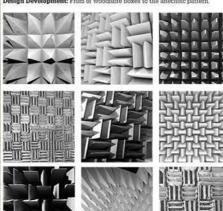
Acute acoustics is an industrial scale modular concrete sound-barrier. The gapless interlocking system with offset module rows prevents noise from travelling through and the dense concrete reflects noise. The negative effects observed when noise is reflected are counteracted by the wall geometry which, by mimicking anechoic chambers, breaks up sound waves. The wall is self-supporting and braced thanks to its undulated plan. It achieves this with a dry assembly method and no reinforcement, which enables it to be taken apart and assembled elsewhere. The modular nature of the wall enables it to adapt to a variety of site conditions and its appearance can be tailored by combining concrete colour and finish texture, and module size. This kit-of-parts approach provides an engaging urban canvas on both sides, on which text and graphics can be drawn.

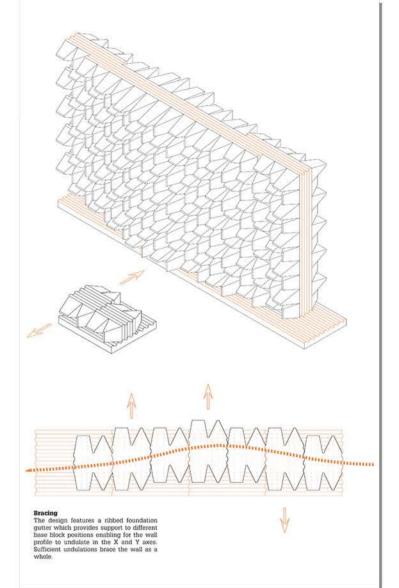
The form-work we suggest is steel, in order to optimise its lifespan. The form-work is composed of modular sections meaning that each part of the mould (wedges or undulating core) can be mixed and matched.

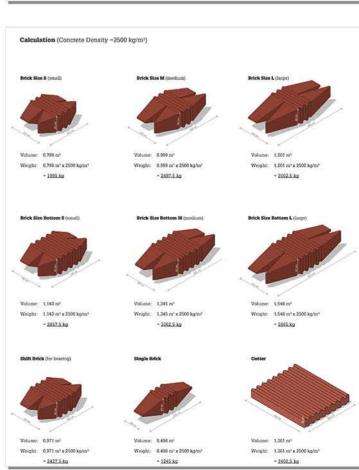
The intention for our Sound Absorbing Brick Wall was born from the idea to create a surface that is as uneven as possible, in which the sound is absorbed in the best possible way. The surface of the Woodfbre Boxes fascinated us the most and lead us to research anechoic chambers whose wedge breaks up sound waves - causing sound waves to bounce back and fourth in the gap between the wedge above or below.











TWO



