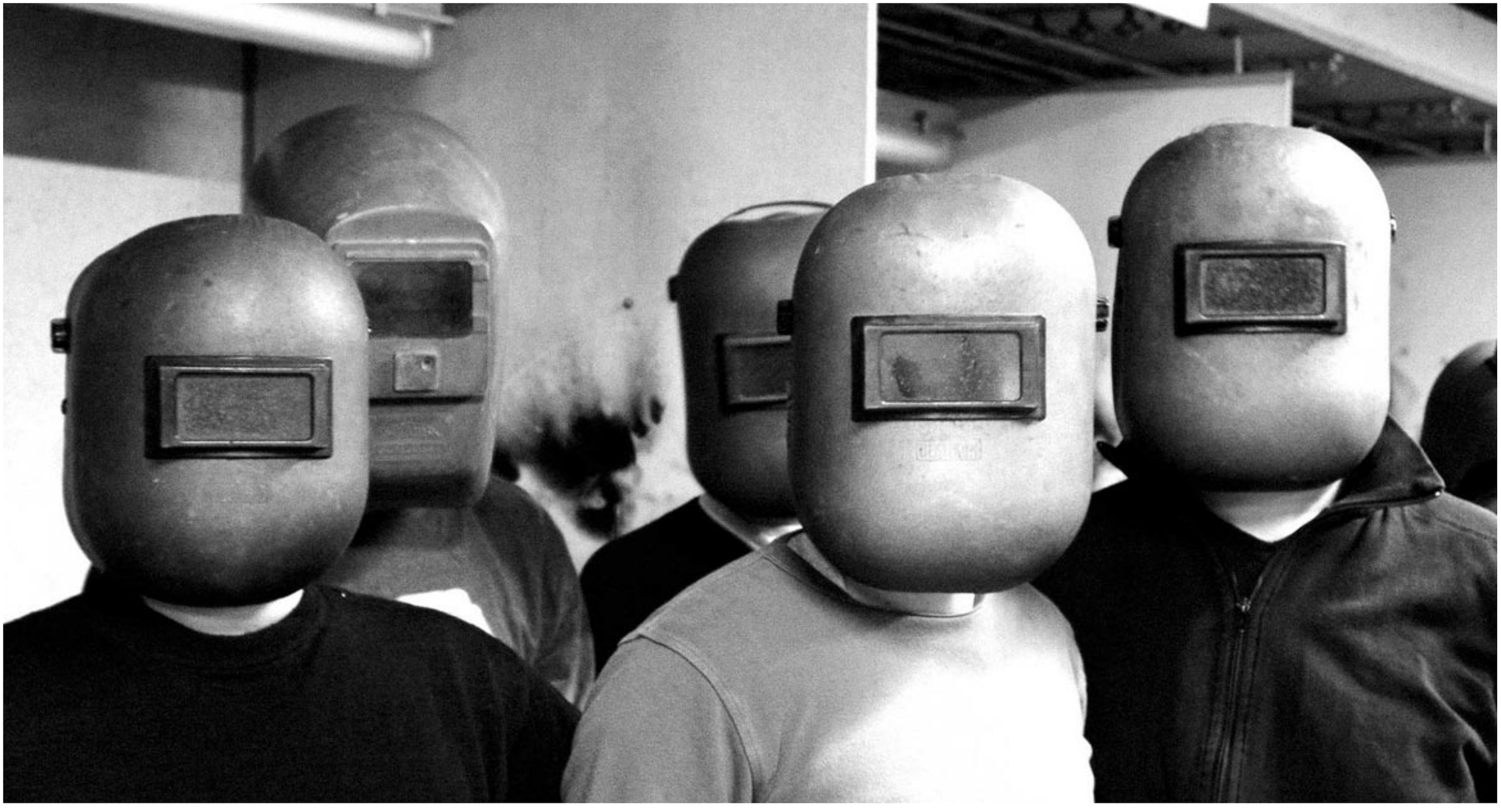
zieta

ZIETA FOR LONDON ARCHITECTURE FESTIVAL
artistic practice



The interdisciplinary endeavours of Zieta Studio seamlessly blend design, art, engineering, and bionics. Each object represents a meticulous study of the properties of metal, techniques for stabilizing it, and optimization of form. They embody the outcomes of complete processes—simultaneously controlled and unrestrained. These are enduring, monomaterial artifacts that are remarkably lightweight. In their artistic forms, they manifest a profound fascination with nature, emerging technologies, and above all, the material itself.

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INTERDISCIPLINARITY

Our technologies are the effect of specialists' work in various fields such as bionics, sociology, architecture, engineering, Each project is a lens focusing on the knowledge that comes from many sources and sheds new light on the future.

EDUCATION

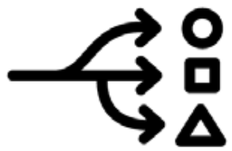
We obtain the knowledge from each stage of our work, from the material. Knowledge is one of the pillars of our business and the modern world because we share it during many lectures.

SYNERGY

Zieta Prozessdesign is an interdisciplinary team of designers, architects, technologists, engineers, a wide range of specialists in social psychology, graphics and strategy, focused on designing new products and processes, developing their own technologies and applying made-to-fit industrial solutions.

RESEARCH

What potential lies in steel? How light will be the architecture in the next century? How to transport large steel structures on Mars? In what process will society shape? These and many other questions correspond to each of our next project.



BOTTOM UP

Most inspiration provides us with the material we work - sheet metal or different metals. In our processes designed material becomes a partner, to whom we owe innovative technologies FiDU and 3+.

PROCESS

As process designers we dont endeavor to design great forms. The main objective is to create solutions that generate endless possibilities for the development and application. These are processes that inspire and lead you to achieving unprecedented results.

MODERN CRAFTS

Free deformation allows you to create unique pieces. This is a continuation of the craft, in which the material and the craftsman taking its toll on the created object giving it a uniqueness.

ULTRALIGHTNESS

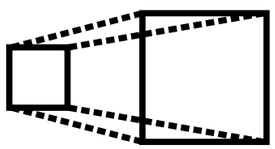
Our technologies utilize one of the most accessible materials on earth - air. With the additive method, the internal pressure stabilization structures are created with a unique ratio of weight to lift.

CONTROLLED LOSS OF CONTROL

The free deformation is the heart of FiDU. Our technology shows the true face of the material that decides itself on its final form.

VOLUMETRIC EXPANSION

Objects with the highest coefficient of expansion will be the future of design and architecture. Thanks to its small size and low weight they will help in the colonization of Mars for example.



SCALABILITY

Each object thanks to parametric design can be scaled.
It gives you posibility of resizing with accurate mapping of parameters and properties. w

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artistic practice

FiDU objects are a manifestation of Oskar Zięta's bionic fascinations expressed through shapes and the technology itself, inspired by the mechanisms of living organisms. FiDU steel profiles are inflated, akin to the wings of a dragonfly filled with bodily fluids before taking flight. Zięta's steel objects grow in volume, as well as linearly. Long, resilient, load-bearing profiles emerge from tightly coiled spirals like a growing plant. The first large-scale manifesto of the potential of FiDU profiles was the Blow & Roll installation in 2010 at the Victoria and Albert Museum in London.

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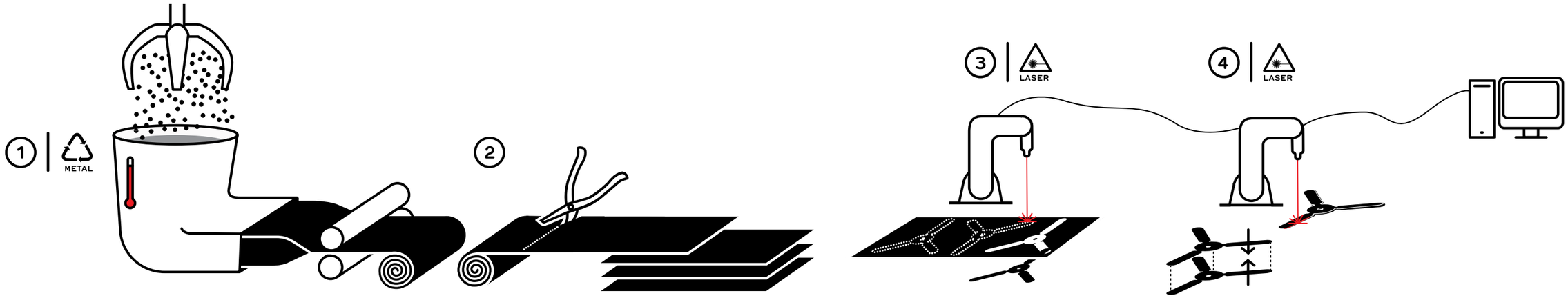
technology

FiDU
German Freie Innendruck Umformung
which translates into English as
“free inner pressure forming”



FiDU is an innovative technology for the free deformation of steel through internal pressure. Flat metal elements are edge-welded, and then, through the process of air pressing, they acquire their final three-dimensional form. Oskar Zięta refers to this process as “controlled loss of control”—parameters are defined by the creator, but during the “inflation” phase the material retains its freedom to self-deform, resulting in unique edge distortions. The outcome of this process is hollow, lightweight, and incredibly durable objects.

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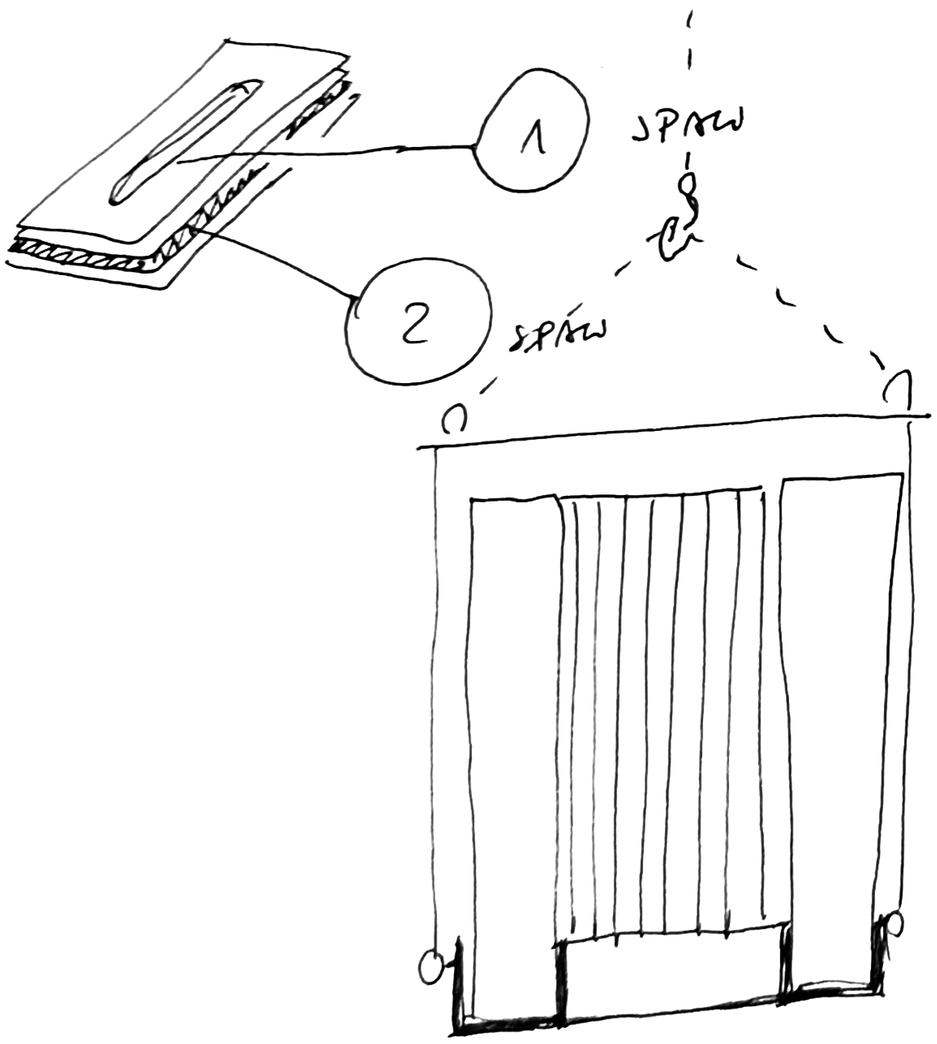
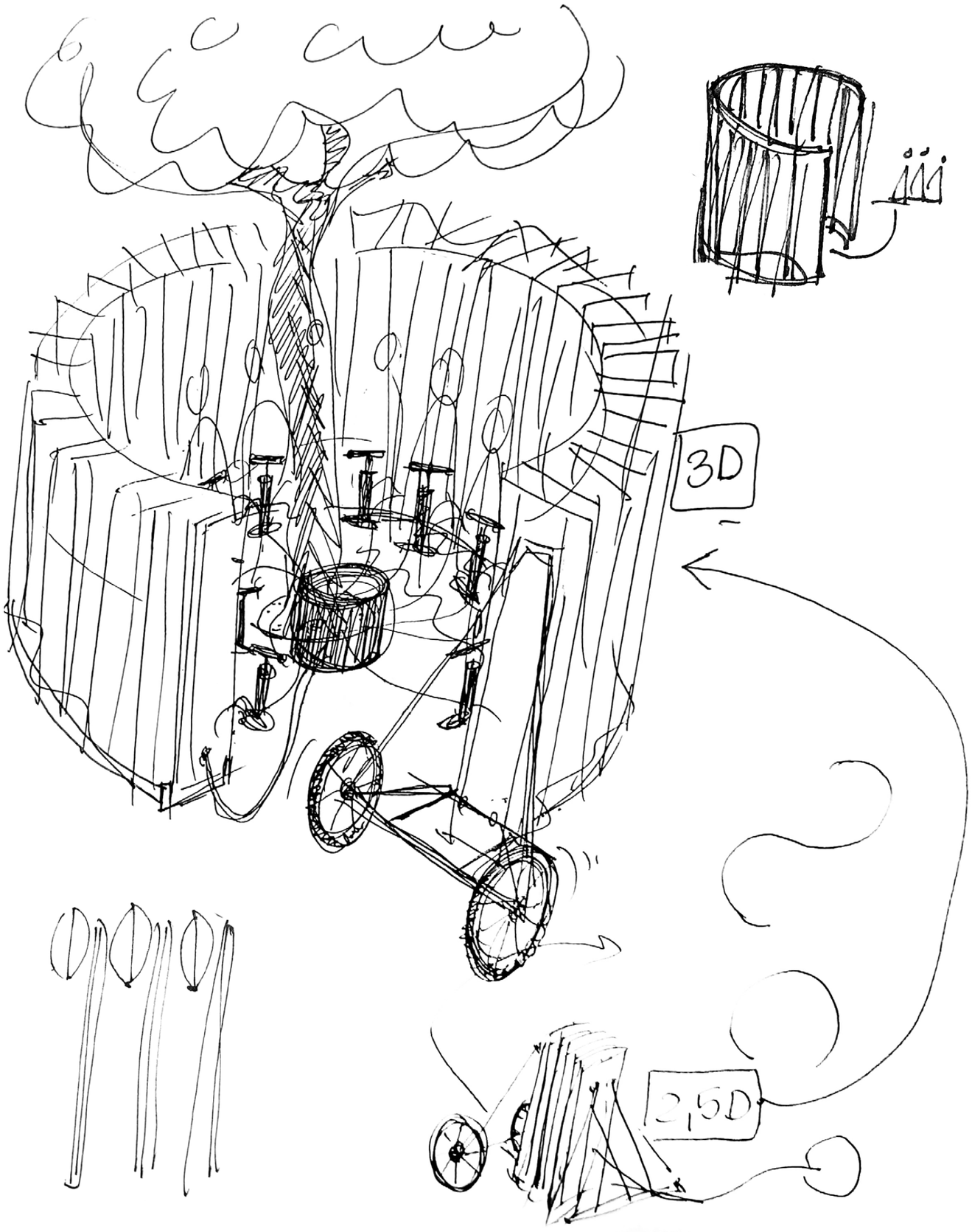
concept - sketches





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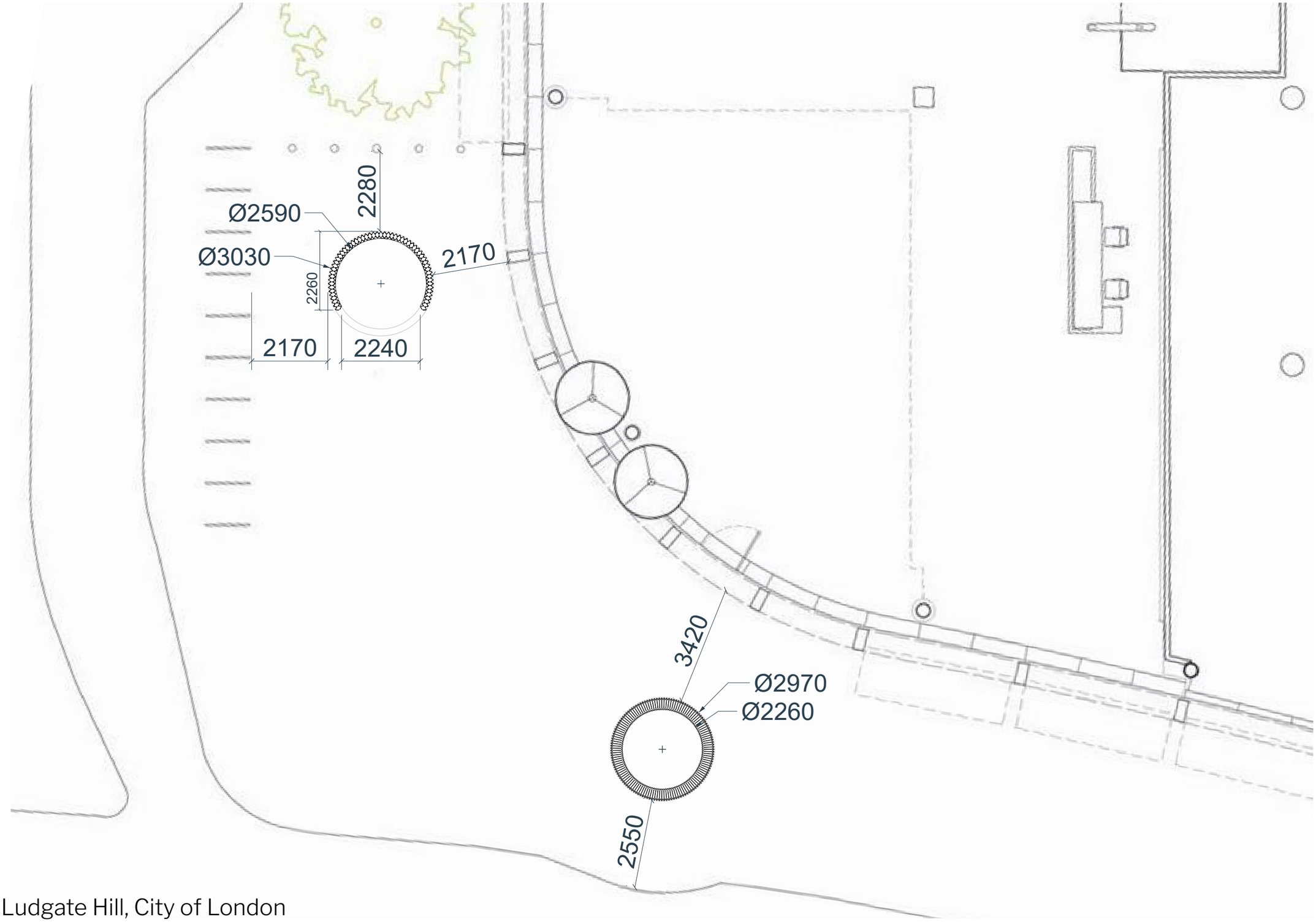
site plan



76 Ludgate Hill, City of London

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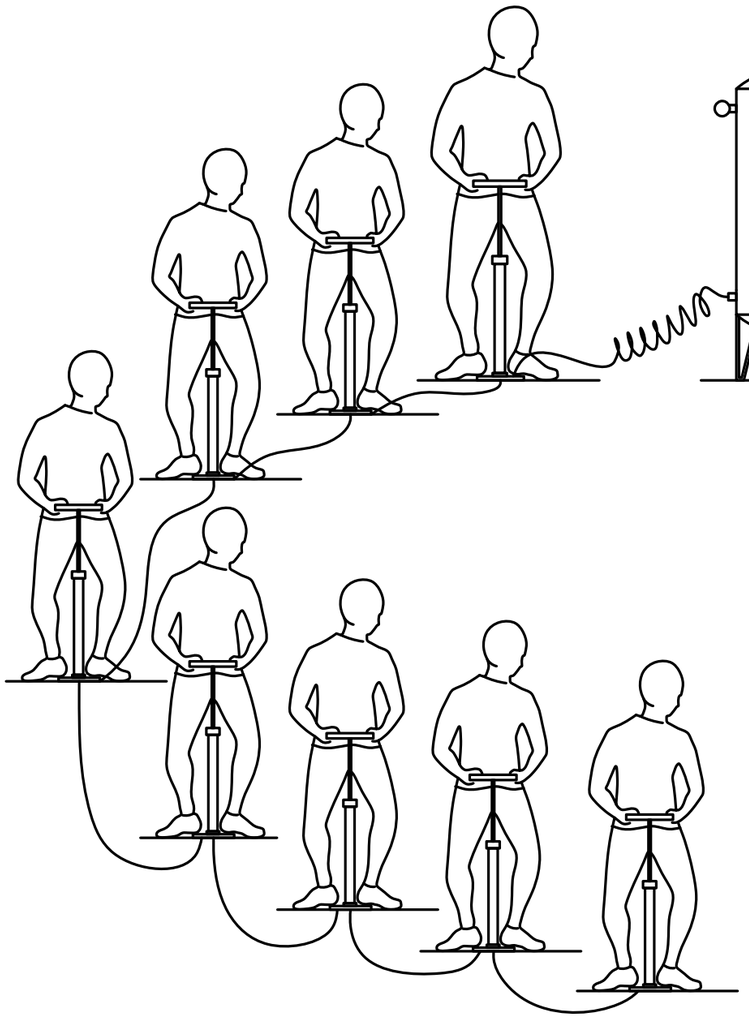
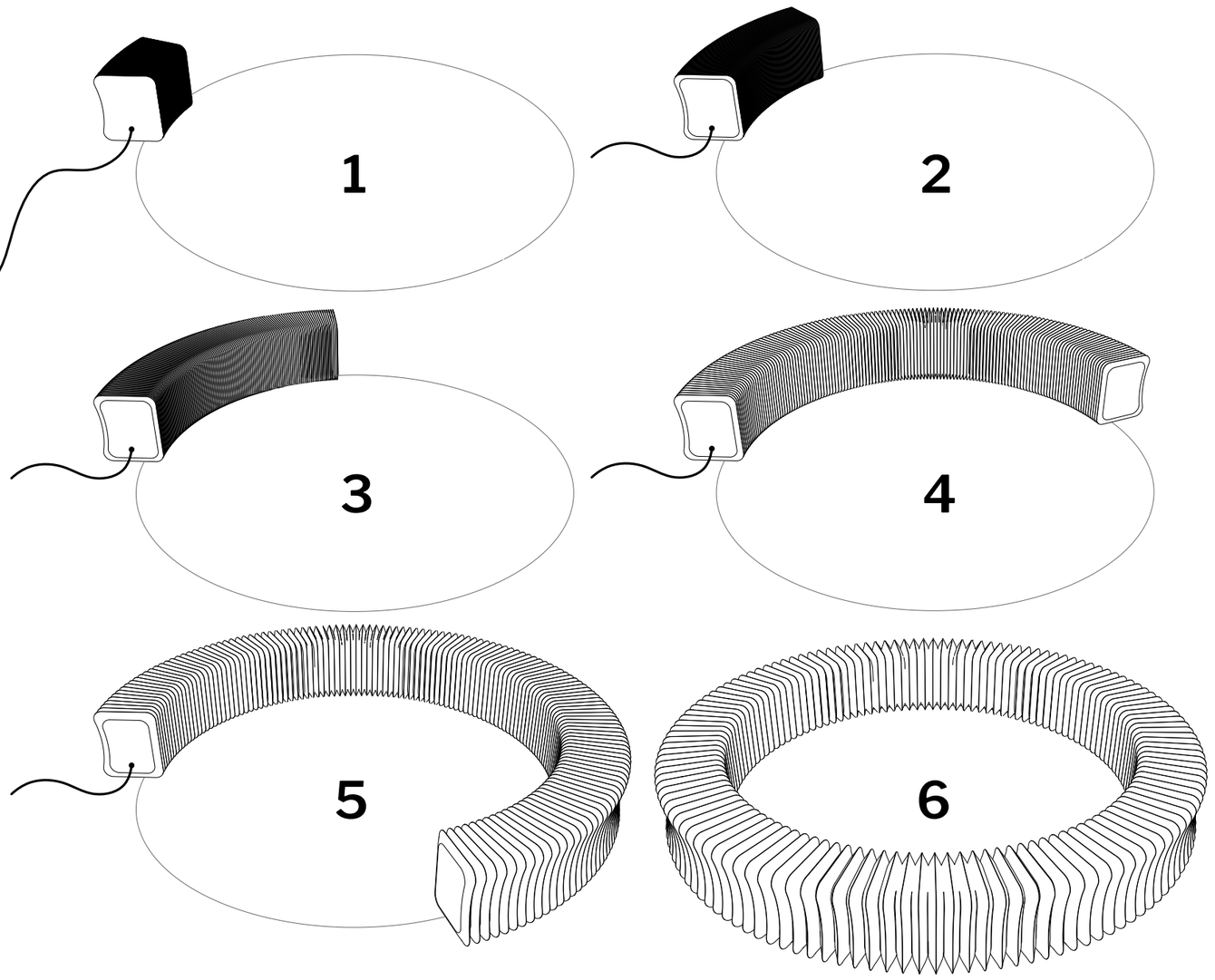
performance on the opening day





“Whispers” will amplify the public engagement and manifest Zieta’s collaborative approach through performative inflation of the bench on the opening day. The object will be delivered to the location in a flat 2,5D form, and several hand pumps and a compressed air tank will be connected to it. Guests and members of the public will inflate the FiDU structure together, thus taking part in its creation.

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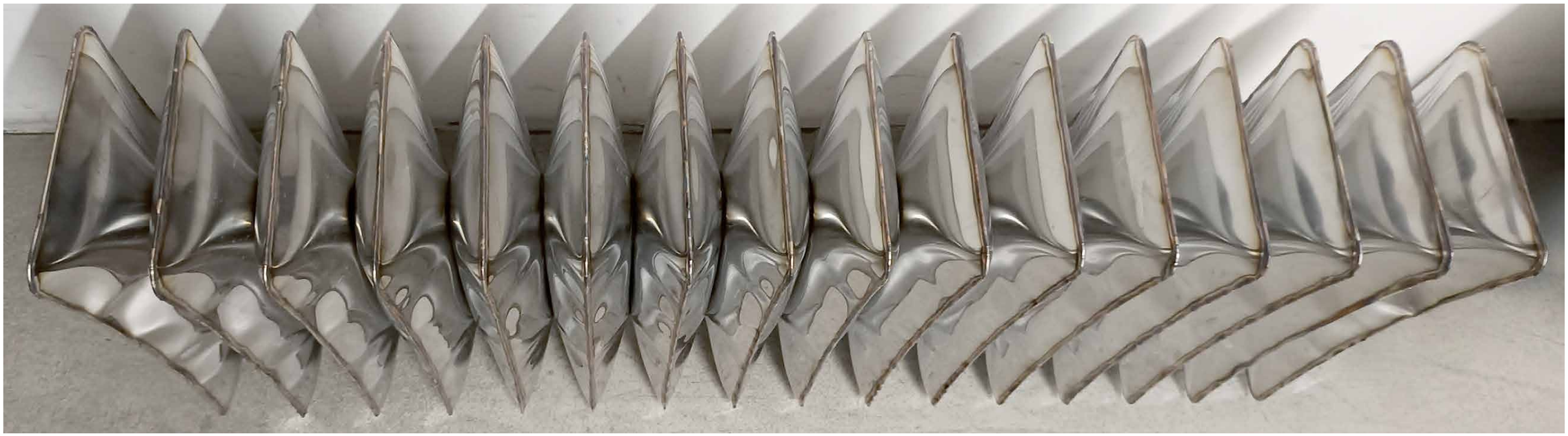
concept - prototyping



ZIETA FOR LONDON ARCHITECTURE FESTIVAL
visualizations on site

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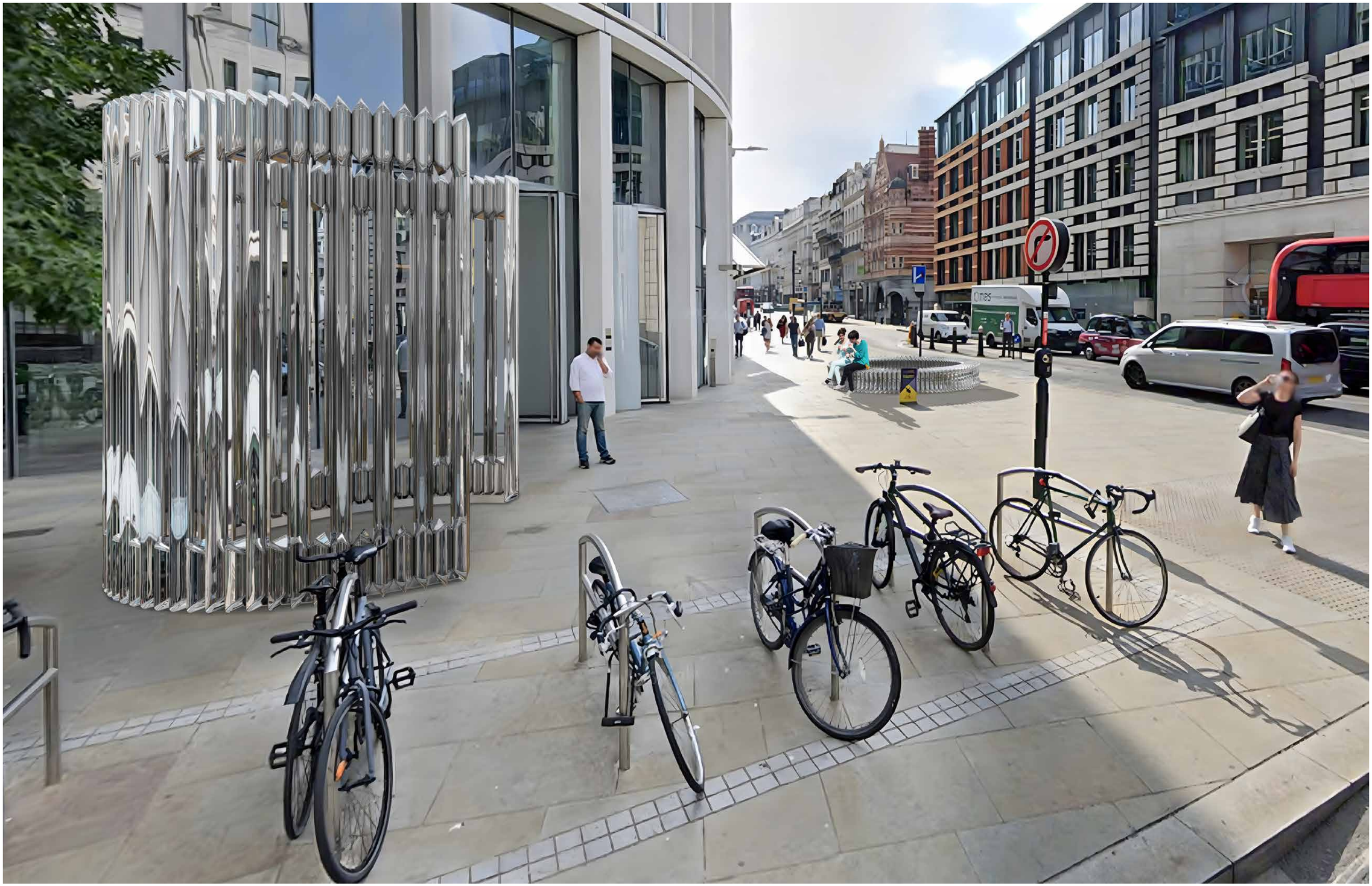
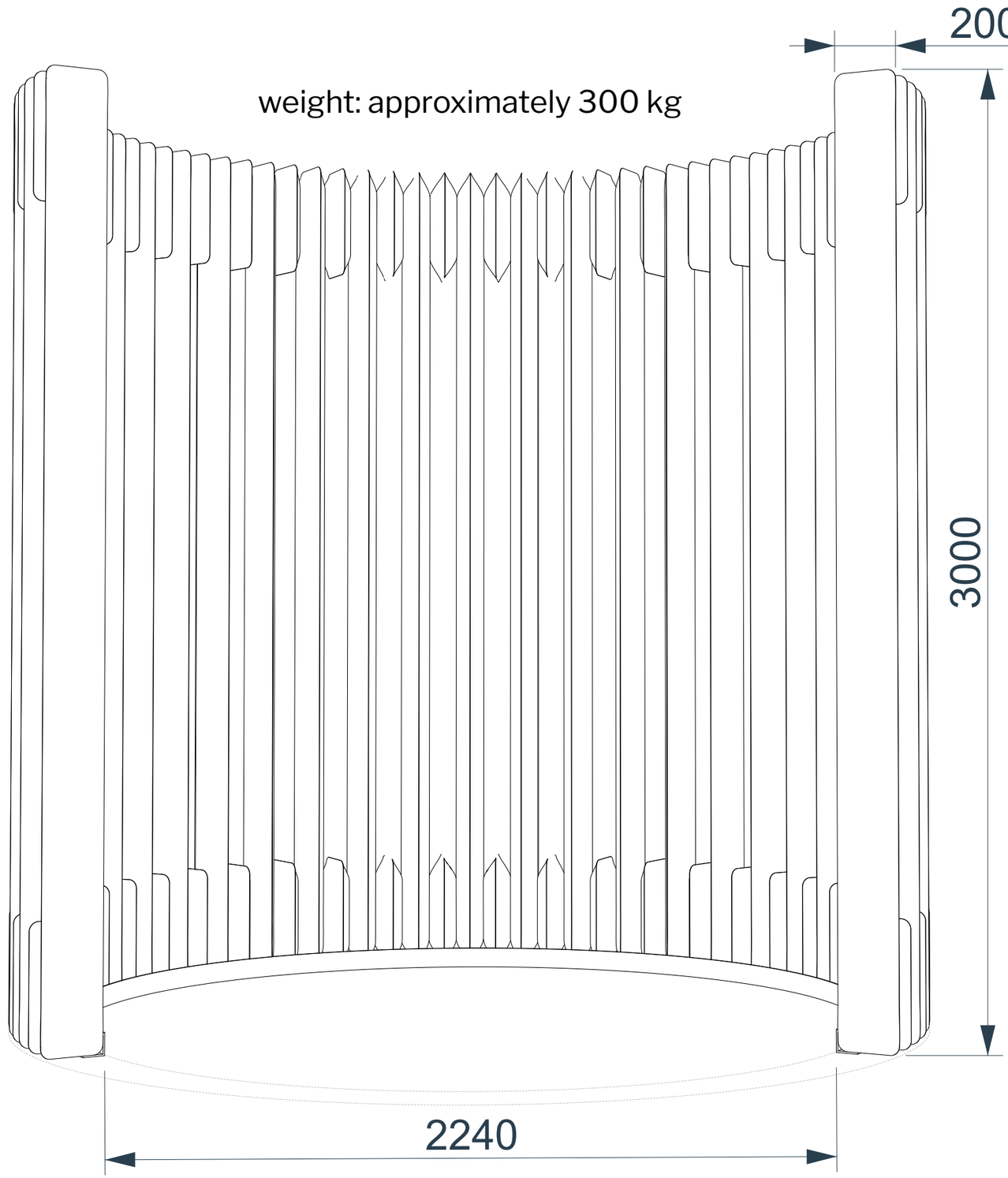


ZIETA FOR LONDON ARCHITECTURE FESTIVAL
visualizations

ZIETA FOR LONDON ARCHITECTURE FESTIVAL
dimensions



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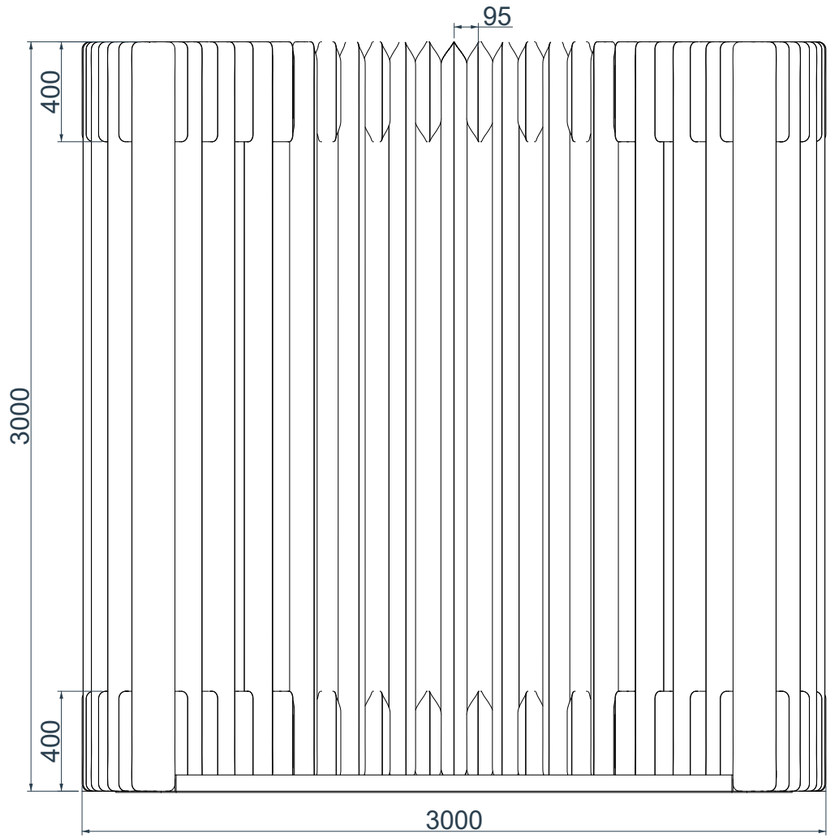
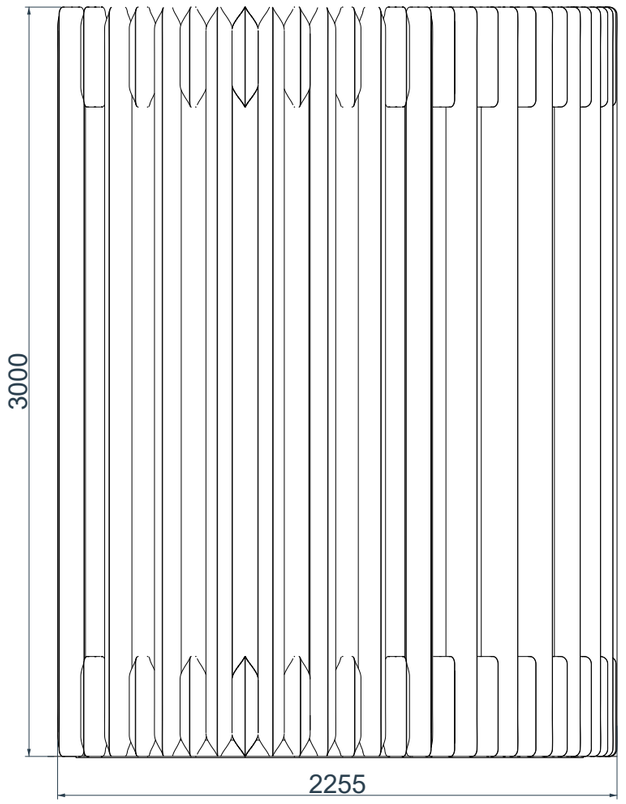
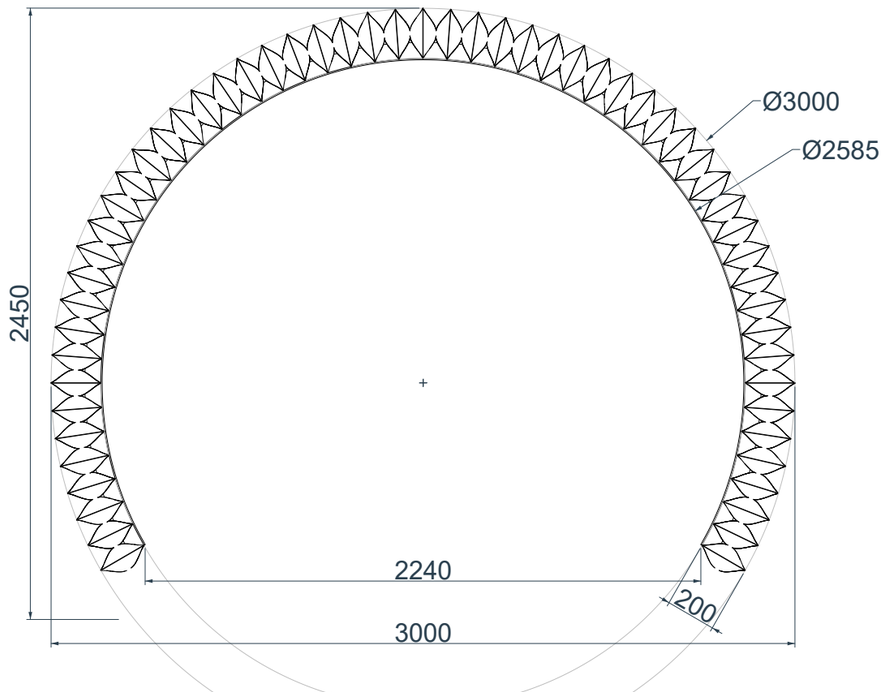
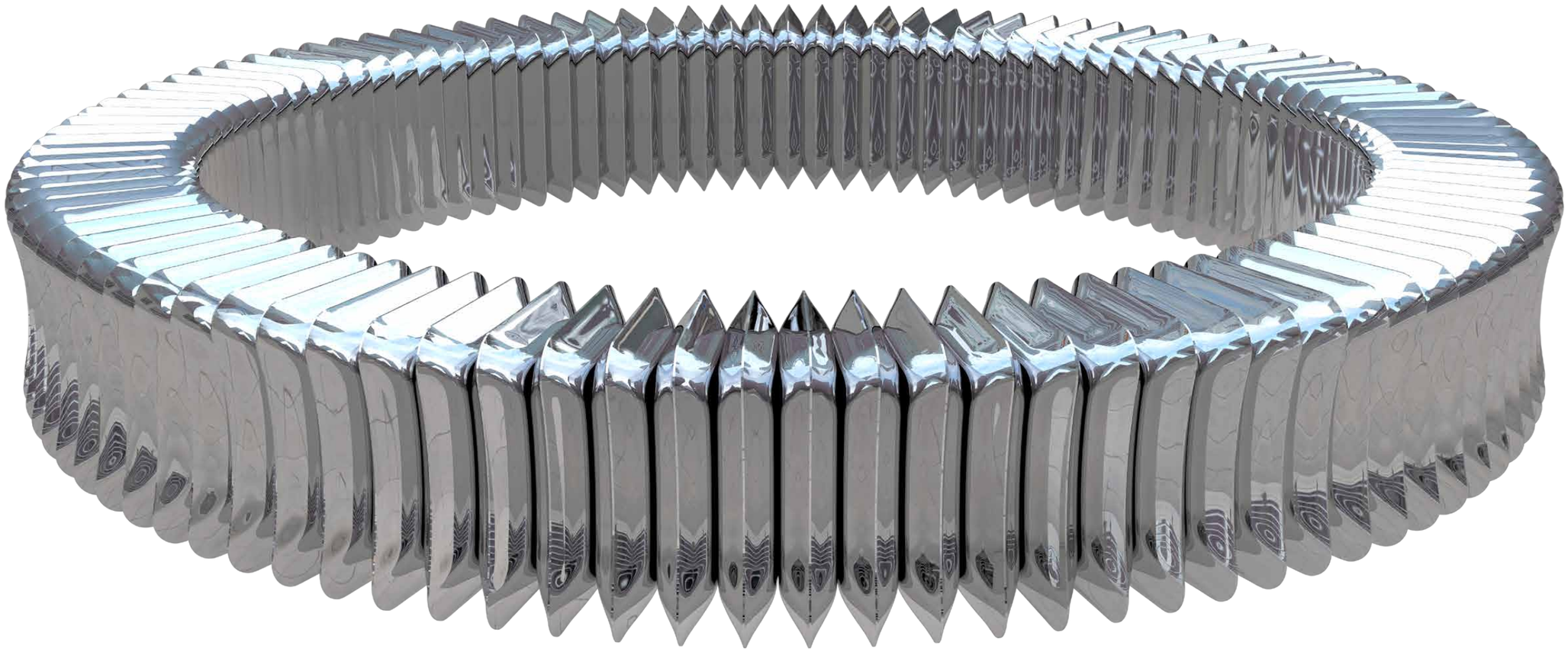
dimensions





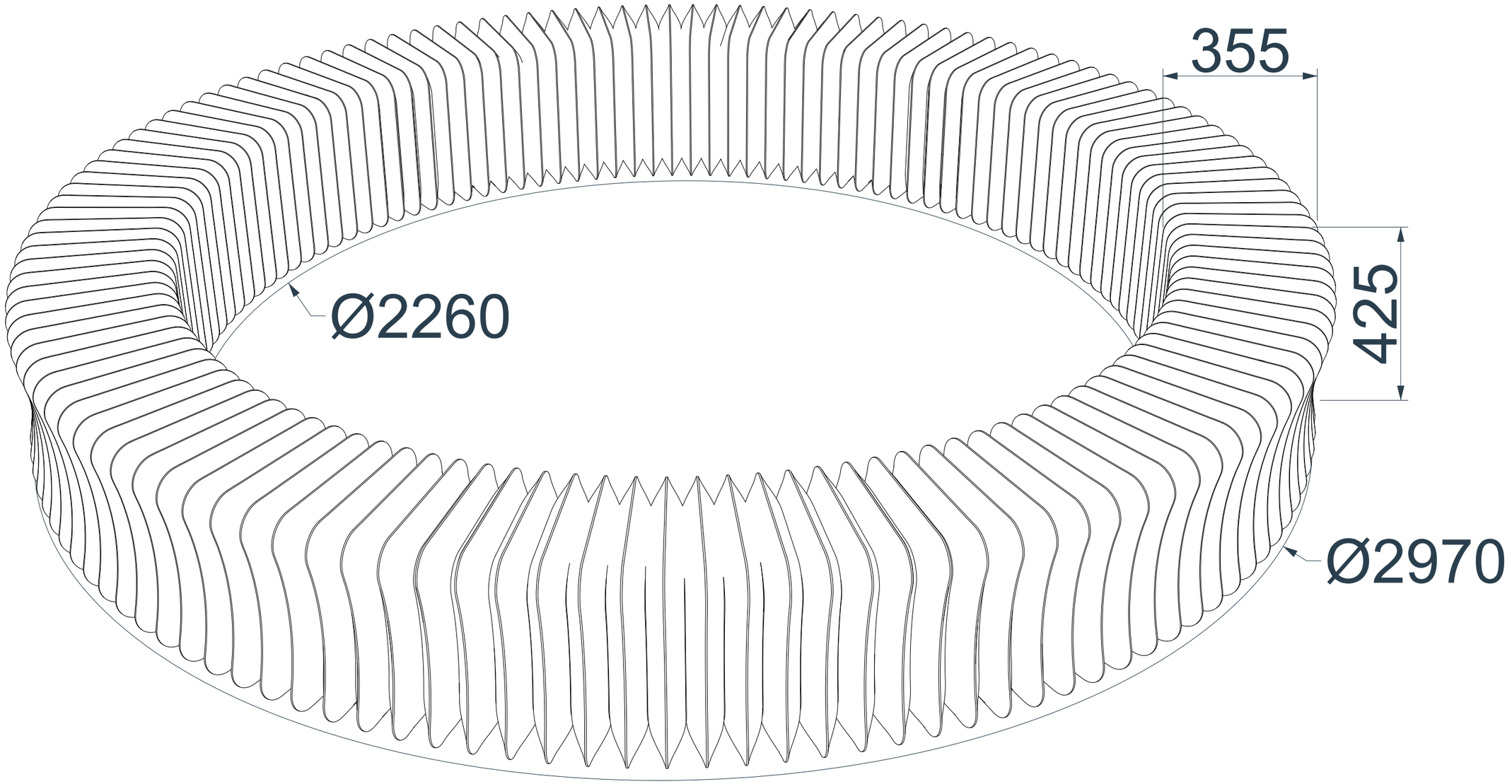


ZIETA FOR LONDON ARCHITECTURE FESTIVAL
visualization



ZIETA FOR LONDON ARCHITECTURE FESTIVAL
dimensions

weight: approximately 140 kg



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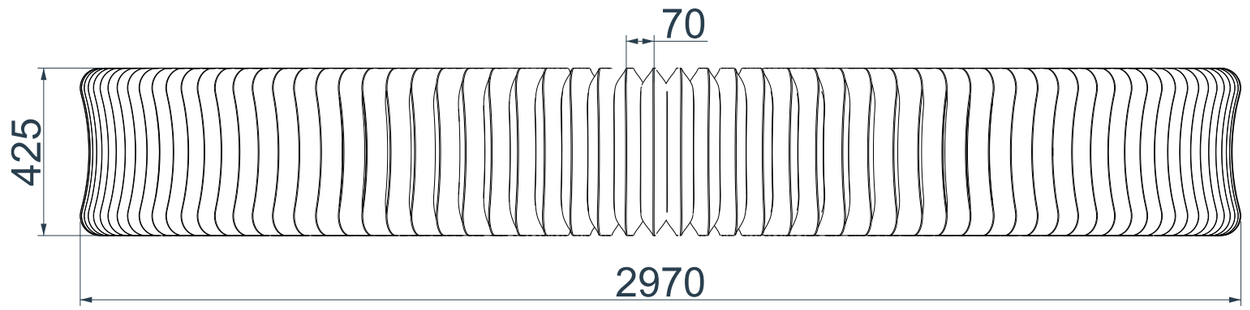
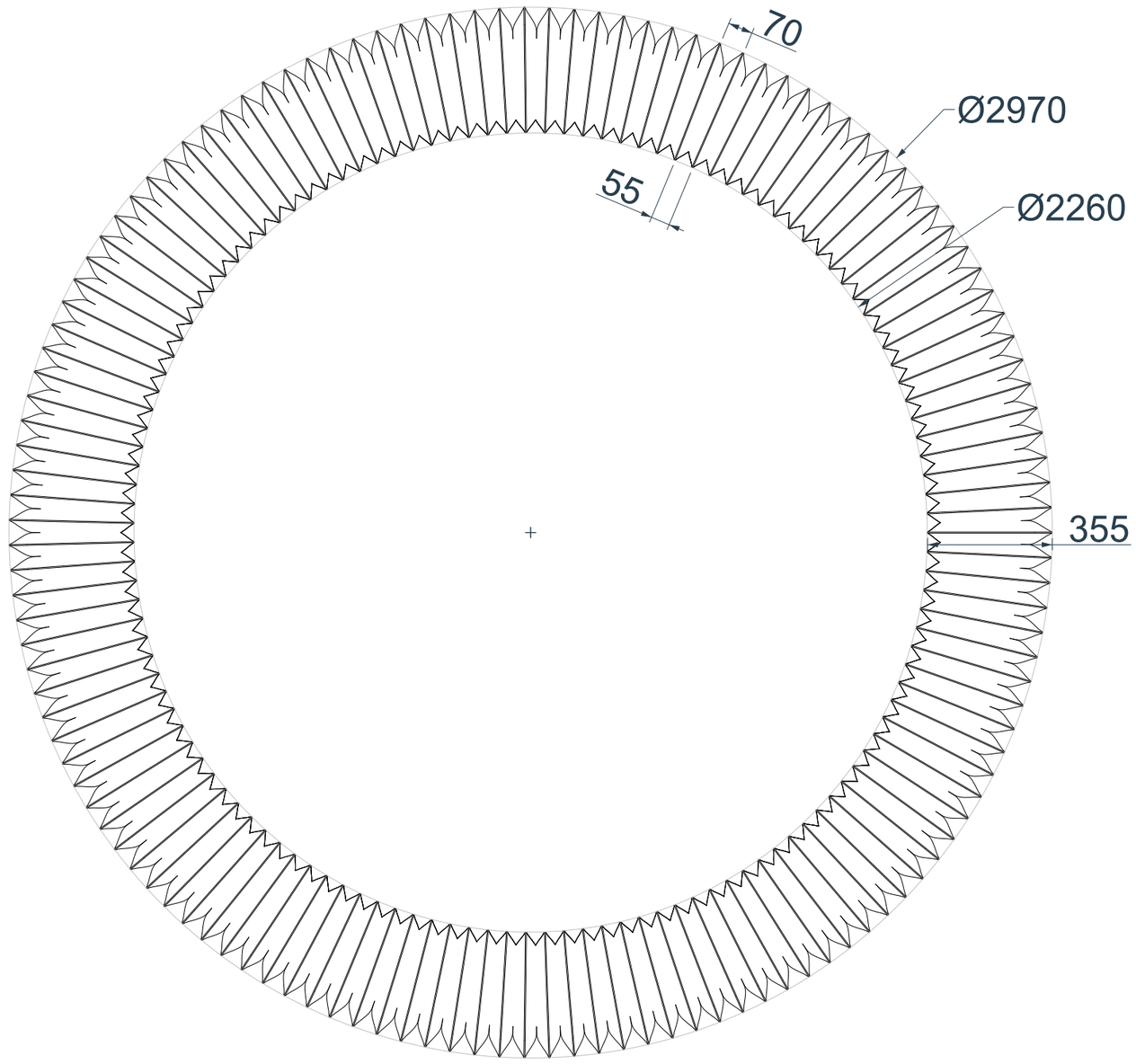
dimensions





ZIETA FOR LONDON ARCHITECTURE FESTIVAL

alternative locations

other locations could be considered

ZIETA FOR LONDON ARCHITECTURE FESTIVAL
artist's bio

OSKAR ZIĘTA

Architect, process designer, and artist. Oskar Zięta pursued his initial exploration of steel properties at ETH Zurich. Fascinated by constructivism, Zięta posed the question of what the world of bionic metal structures could look like, harnessing the potential of new technologies. Through consistent work and dedication, nearly two decades after his first inquiries into steel he is now hailed as a sculptor 4.0, with Wired magazine proclaiming his creations as "furniture of the future."

At the core of Zięta's achievements lies his proprietary method if internal pressure forming of steel, known as FiDU (Free Inner Pressure Forming from German, Freie Innendruck Umformung). It is thanks to this technique that iconic objects such as the PLOPP stool, ULTRALEGGERA, as well as architectural public sculptures like WIR (2017) in Warsaw's Galeria Północna and NAWA, an urban pavilion on Daliowa Island in Wrocław (2017), have come into existence.

Oskar Zięta's design and artistic endeavours have received numerous prestigious accolades, including the German Design Award, Red Dot Award, Audi Mentor Preis, Must Have, and the Swiss Design Preis. In 2019, the NAWA pavilion was nominated for the EU's esteemed Mies van der Rohe Award. Zięta has also collaborated with renowned brands such as Audi, Architonic, Rado, and Pirelli. His works can be found in dozens of museums worldwide, including the collections of the Museum für Gestaltung in Zurich, the Pinakothek in Munich, Museum Jerke in Recklinghausen, and the Centre Pompidou in Paris.

Oskar Zięta resides in Wrocław, where he runs Zieta Studio.

THANK YOU

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sculpture catalogue