



Search for superspace



Square out of air

an urban prosthetic



Urban nod



Inclusive & accessible



Adaptable



Public space cooler



Lantern



Sound, light & wind diffuser



Reuse friendly



Easy to assemble

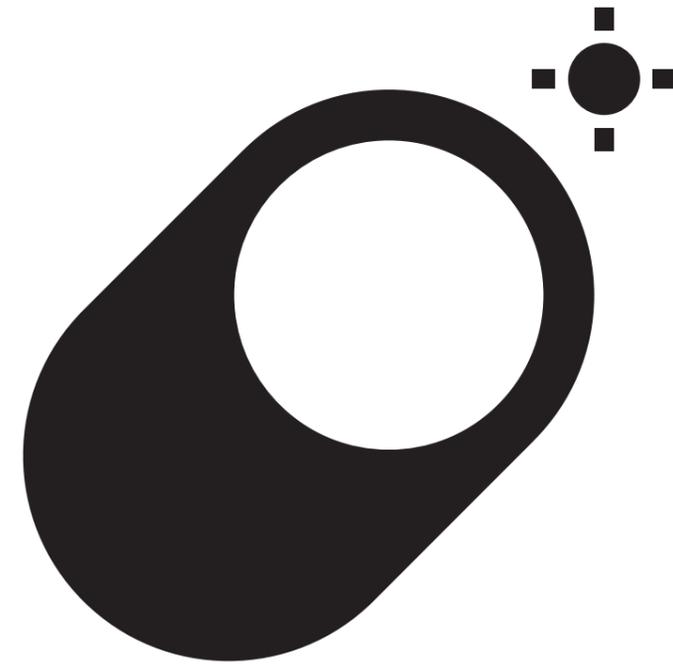
AIR SQUARE explores the underused potential of empty urban spaces and their often inadequate and barren substitute functions. It responds to the city's need for solutions that alleviate growing issues related to climate change by tackling the lack of green and livable public spaces leading to overexposed heat islands, by providing shading. The object gives purpose to neglected spaces thanks to its integrated seating, evening illumination, and circular shape that make it a stage for events and public functions, and a place to hang out, or rest.

It is a placemaker improving the quality of the urban environment in a punctuated manner and contributes to building a resilient blue-green city, consequently bringing spatial quality, living environment, health, biodiversity, and property value. Finally, it raises awareness of climate change adaptation, facilitating and accelerating the further implementation of lengthy climate adaptation measures, such as changes in spatial development, infrastructure, construction, services, public space, and residents' safety.



Plug-in park

urban proof space cooler & wind moderator



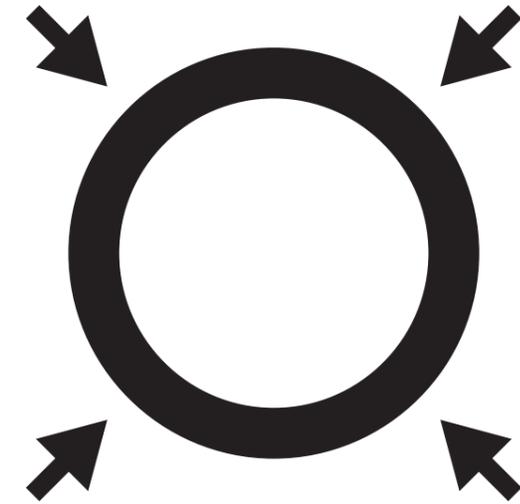
Mitigates urban heat islands and, as an alternative to trees, casts shadows that deliver refuge from heat, while enchanting well-being

Resilient to rainy and sunny days, as well as acts of vandalism. It provides a feeling of safety and security



Attractor

urban nod



As a catalyst of urban connections, AIR SQUARE's goal is to activate underused urban spaces by bringing them purpose and promoting a vibrant public life.

Use it again, and again

Reuse friendly



Sturdy materials and resistant joints are proposed to endure multiple applications, while compact design allows for confined storing space and on-site manipulation.

Mobile sanctuary

Inclusive & accessible venue

Built for diversity, inclusion, and equality, ensuring barrier-free access. Open day and night, welcomes everyone regardless of their abilities, status, and religion.

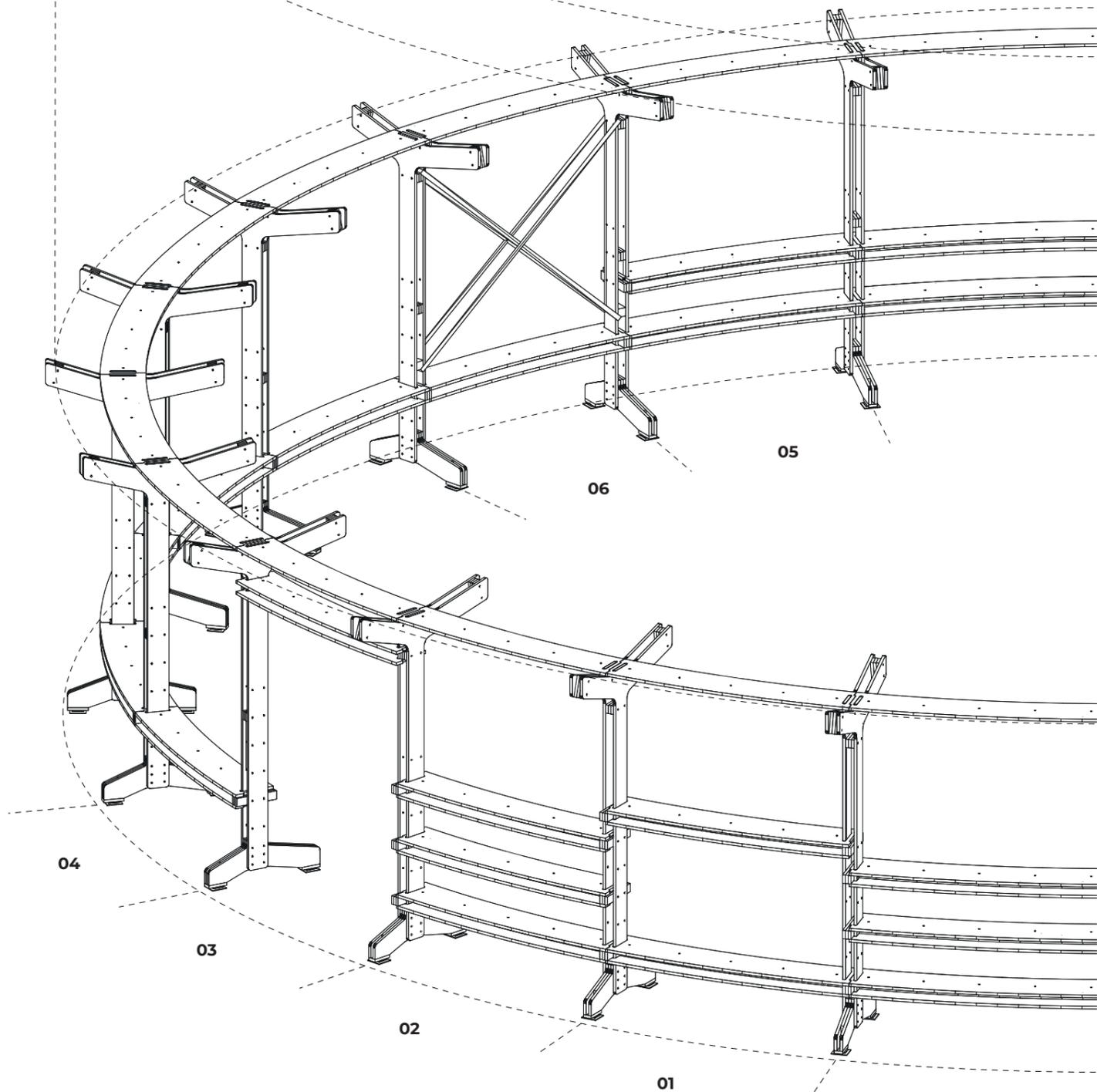
Suits multiple functions and programs such as performances, farmers markets, or serving as an all-in-one public furniture with seating, lighting, and shading systems integrated.

Absorbs sounds generated within, and softly distributes daylight through the day to improve the comfort of living in cities.



Kit

Versatile & easy to assemble



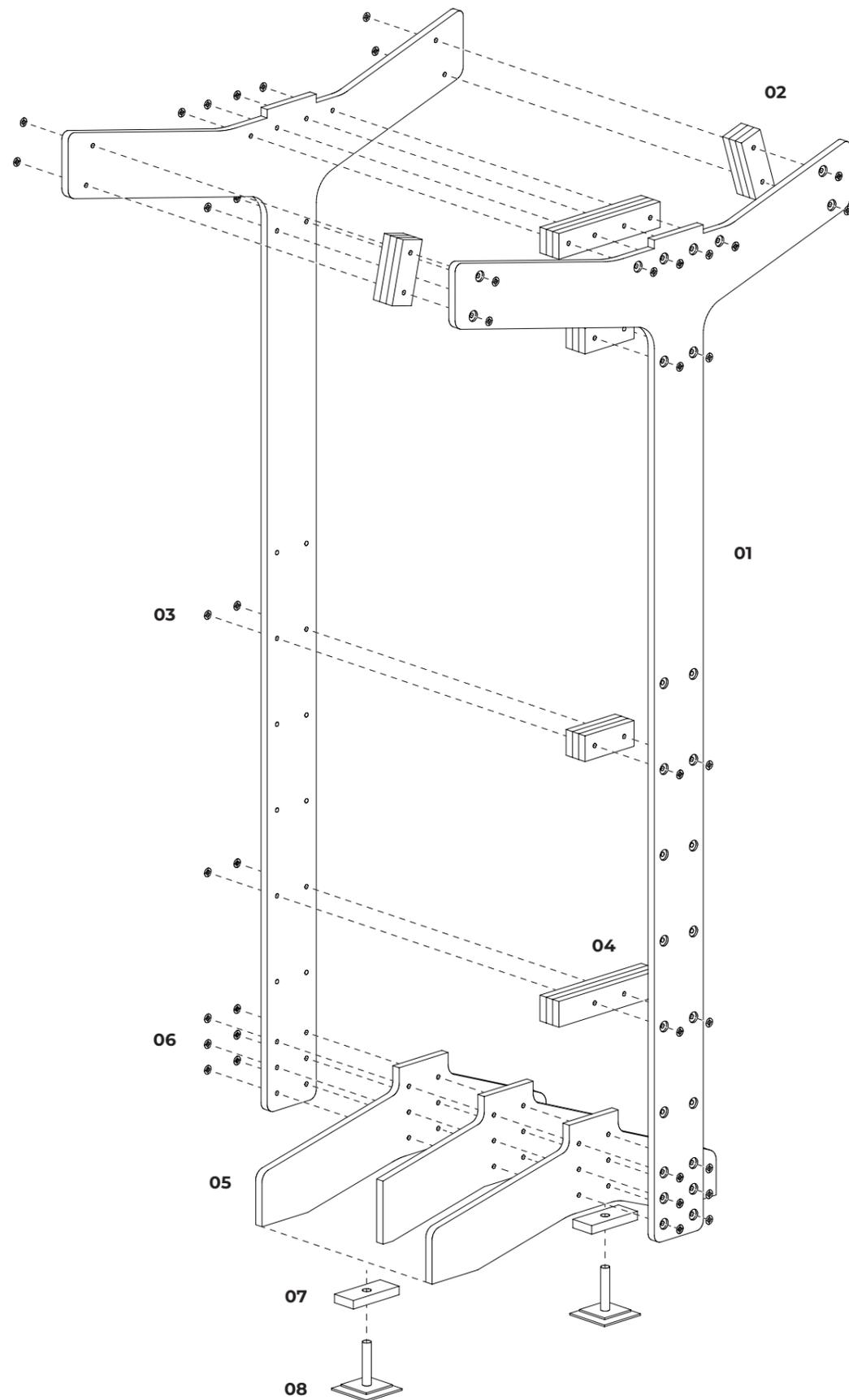
- 01** The display layout
- 02** Shell, retail display
- 03** Entry portal
- 04** Bench
- 05** Bar counter
- 06** Reinforcement field

The body combines two main parts: a structural foundation at the base, and an inflatable component at the top, measuring altogether 14mt in diameter and 6mt in height.

Separate components are packed and ready to go, together with most hardware and assembly instructions to assist the construction process.

Structure

Plywood column



Made of cnc cut plywood planks with the minimum waste in cut-outs, the foundation is designed as a modular system composed of one vertical leg element and one horizontal arm. Those two components interlock together to build the circular load bearing structure of the ring, which provides stability to the body.

The circular shape was chosen because of its intrinsic ability to regulate contrary forces within itself and therefore making it the most self-stabilising of the elementary geometric shapes. The dynamicity of the continuous circle can withstand any load and therefore only needs one contra-force to reinforce it, which is provided through the textile belt cross.

Also, the base functions as the anchor between the upper ring and the ground, through a fastening system that makes it attached during wind flutters.

Lastly, it is raised at a height for people to pass through it, making it accessible and permeable within the city flow.

01 The “Y” piece defines the volume of the column and provides insertion matrix for all movable parts of the set-up.

02 Fix joints connects the two “Y” pieces and combine them into stiff structural column.

03 Insertion nut and bolts allows the structure to be re-used or adapted for other set-up (positioning of benches or heels).

04 Positionable joint sets the height of a bench.

05 Base heel.

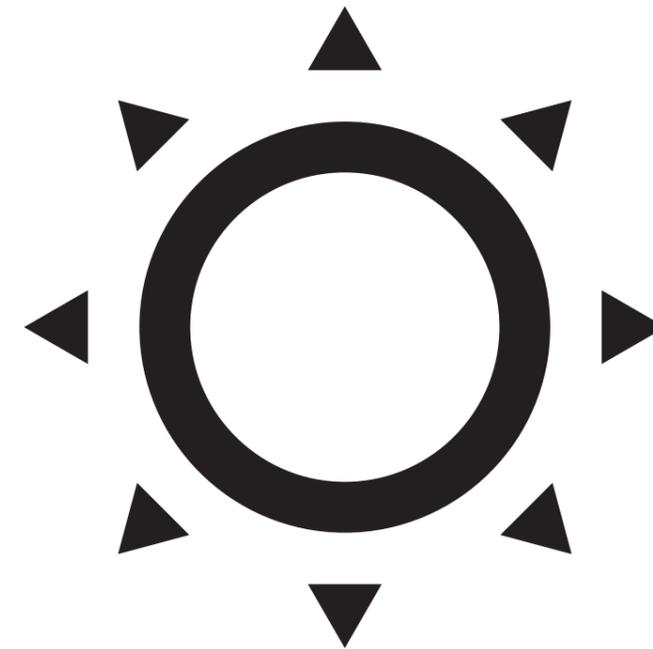
06 The cluster of 3x2 inserts provides 3 levels for the heel positioning (at least 4 bolts inserted).

07 Underheel piece is changable silent block preventing the potential damage to the heel.

08 Positionable platform for fine nivelation.

Structure

Inflatable ring



Base fabric	Polyester 550 Dtex
Coating/lamination	FR PU coating
Special treatment	Water Repellent
Total weight	ISO 3801 240 g/m2 (± 6%)
Hydrostatic head	ISO 811 >800 mm
Flame retardancy	BS 7837 / PASS NF P92-503 / M2 DIN 4102 / B1
Colour fastness to light	ISO 105 B02 / 4-6
Tensile strength	ISO 5081 >1700 / >1200 N/5cm
Tear resistance	ISO 4674 >60 / >60 N

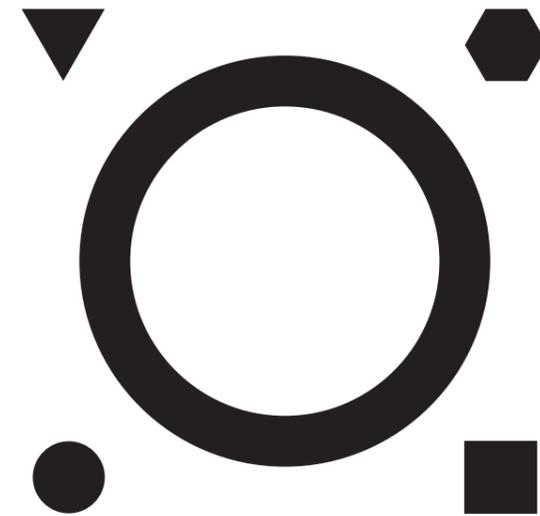
The upper ring is designed as a shading system for public spaces. In response to the issue of overheating cities around the globe, the ring generates a large surface to hide from the sun, cooling down urban areas. The vertical and open shader avoids issues related with having a roof (underblow, heat accumulation, structural issues), and in order to create a large urban surface to shade, a light material was used that can be easy to build and unbuild, its light, it can resist strong weather condi-

tions. Also, the circular shape allows for a bigger reach of shading compared to a straight wall, making it a sun-protected space. Through the dark hours the inflatable switches function and become a light diffuser, providing illumination to dark areas of the city which often feel unsafe to walk through. This generates a sense of care and belonging to the space, leading to improved security on the location.



The people

...of air & square



Cutting-edge architecture practice KOGAA together with hot air balloon makers KUBICEK teamed up to design a new public space that invites in, embraces, surprises, and challenges visitors. The singular synergy between the two companies brings innovative urban solutions on one hand and new technologies and research on the other. The combination of expertise brings to the market a unique product never seen before.



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