

The background is a complex, abstract composition. It features numerous overlapping, irregular shapes that resemble shards of broken glass or pieces of translucent material. These shapes are in various shades of dark blue, black, and deep red. Scattered across these shards are many small, clear, spherical droplets, similar to water droplets on a surface. The lighting is dramatic, with bright highlights on the edges of the shards and the droplets, creating a sense of depth and texture. The overall effect is one of fragmentation and organic growth.

Fragmentglass

loommo

upcycled glass shards

BOMMA introduces the **Fragmentglass**, an innovative new material utilising waste shards upcycled from BOMMA's previous production.

BOMMA's lighting undergoes strict quality control. Pieces with imperfections inevitably end up as glass shards, despite the many hours glassmakers spent creating them. However, glass is a material that can be remelted and repurposed.

This unconventional process inspired the designers from DECHEM Studio to create the material Fragmentglass, which upcycles waste shards and breathes new life into them.



curated colours by DECHEMA Studio

Michaela Tomišková and Jakub Jand'ourek, designers from **DECHEMA Studio**, have extensive experience in producing this material. However, the shortage of quality shards and their need to create a new glass material naturally led to collaboration with the BOMMA glassworks.



DECHEMA Studio curators and designers of Fragmentglass

”

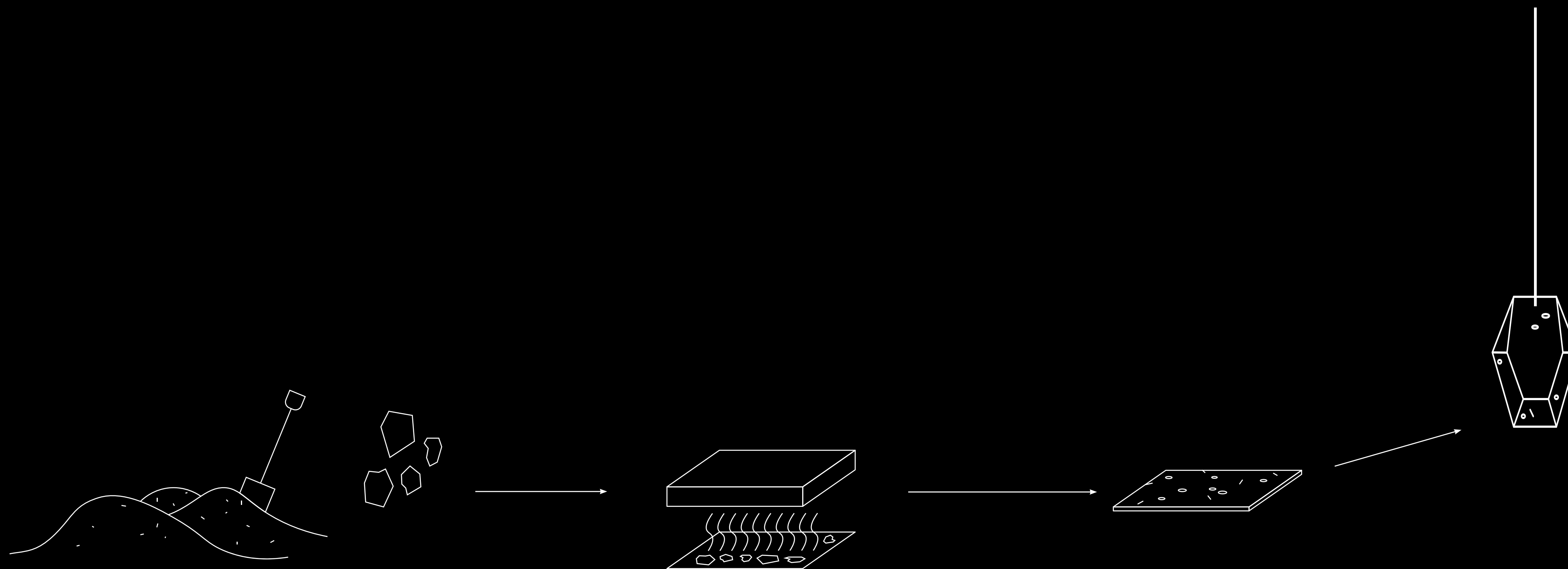
“The development of individual colors of the panels was a complex and lengthy process, where you continuously observe and evaluate how the pattern and structure of the shards arranged in the glass furnace will turn out after melting. After many trials, we have come up with three colors that can be beautifully combined, yet each is visually strong on its own.”

———— Michaela Tomišková
The designer from DECHEM Studio



Michaela Tomišková

the lifecycle of upcycled glass



fragmentglass step by step

glassmaking batch

The glassmaking batch is a mixture of silica sand, minerals, and raw materials that, when heated to high temperatures, transform into transparent crystal beauty. Each glassworks has its unique blend, reflecting its tradition and craftsmanship, producing distinctive glass products. Within its grains lies the potential for endless purity and shapes.



shards

Once considered waste, colored shards now await a new purpose. These fragments, from rejected light fixtures that didn't meet BOMMA's exacting standards, cannot be reused like clear glass. Yet, we've found a way to give them new life.



stacking shards

Each Fragmentglass panel is carefully assembled by stacking glass shards into a melting mold following DECHEMA Studio's precise recipe. The final result of each Fragmentglass plates is always carries an element of surprise as the melting process itself cannot be controlled.



fragmentglass

Elements such as bubbles or bits of iron, which would otherwise depreciate premium glass production, enliven the texture during the melting process in the furnace. In this case, these are aesthetically desirable details, making each panel a unique original.

The surface of Fragmentglass is beautifully smooth and naturally glossy, resembling a water surface. The underside of the panel shows a rougher texture that candidly reflects the intricacies of its production technology.



melted fragmentglass panel

18 kilograms of shards are arranged in a mold in three distinct layers.



fragmentglass options



flamingo pink



black

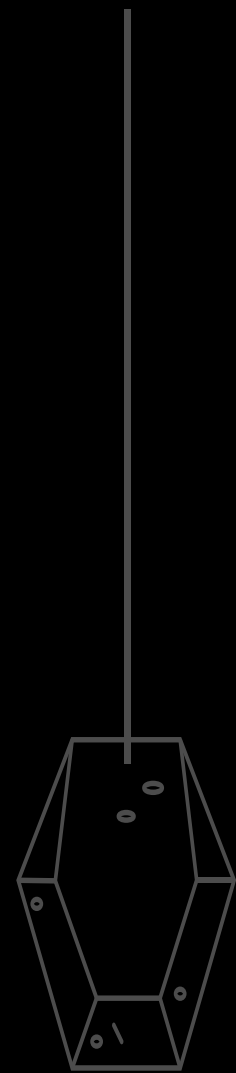


white

fragments

from waste to original gemstone

The first lighting collection using fragmentglass.



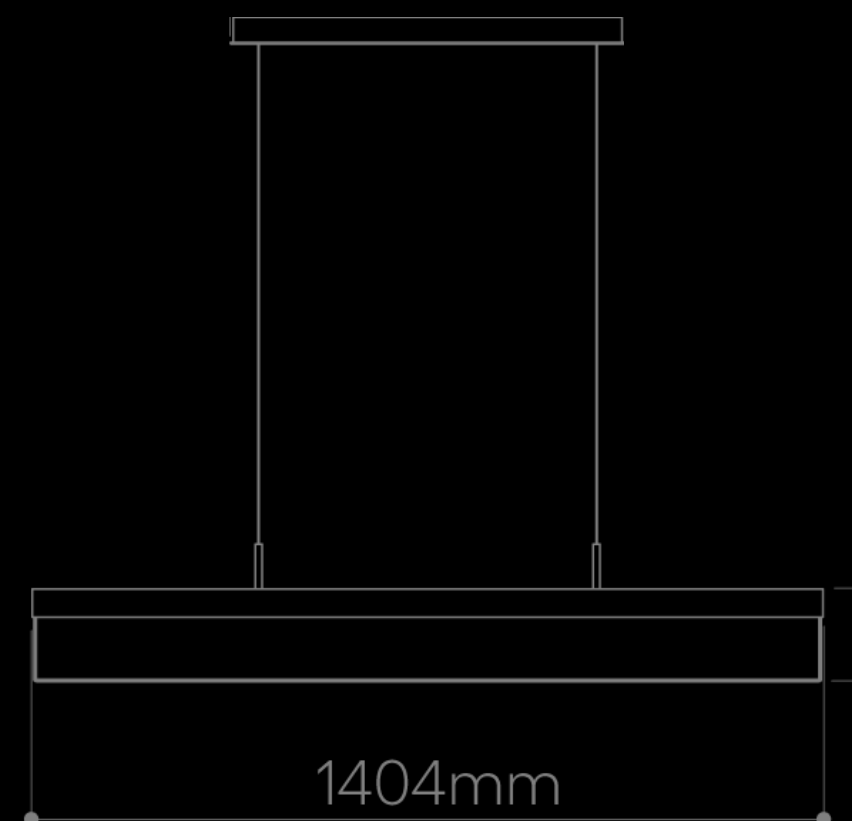


Each piece is designed with discreet shapes that allow the unique glass panels to take center stage. The new collection carries BOMMA's signature combination of innovation, craft, technology and distinctive design. The shapes resemble gemstones created under pressure to reveal inner beauty.



fragment line

from fraction to refraction



fragment line options



black

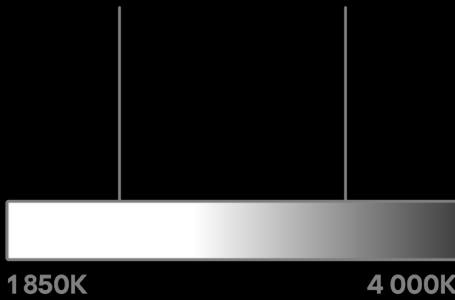


white

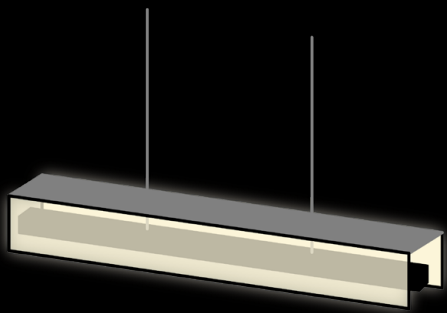
Fragment Line is designed as the ideal lighting for dining, worktables, or kitchen islands, where functionality comes together with minimalist design.



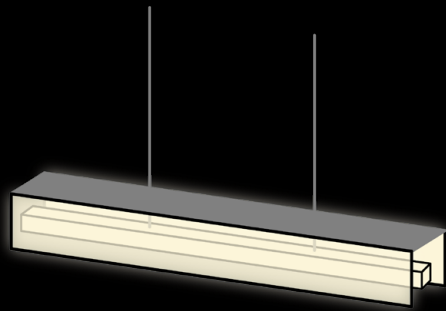
The design allows adjusting its lighting to current needs – from warm white, ideal for relaxation, to cool white, that supports both concentration and alertness.



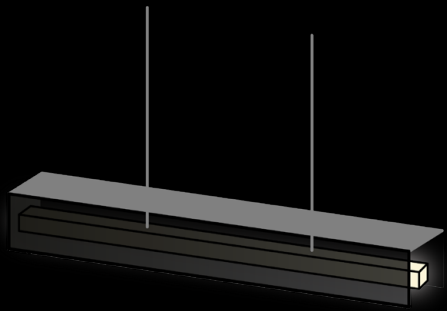
tunable white LED source



**two separate circuits
ambient lighting**



**two separate circuits
ambient + task lighting**



**two separate circuits
task lighting**







loommo