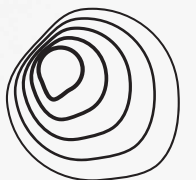
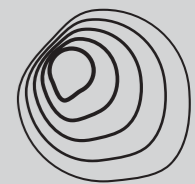




BROKISGLASS



BROKIS



BROKIS

BROKISGLASS

A new dimension in glass

ECOLOGICAL—AESTHETIC—ECONOMICAL

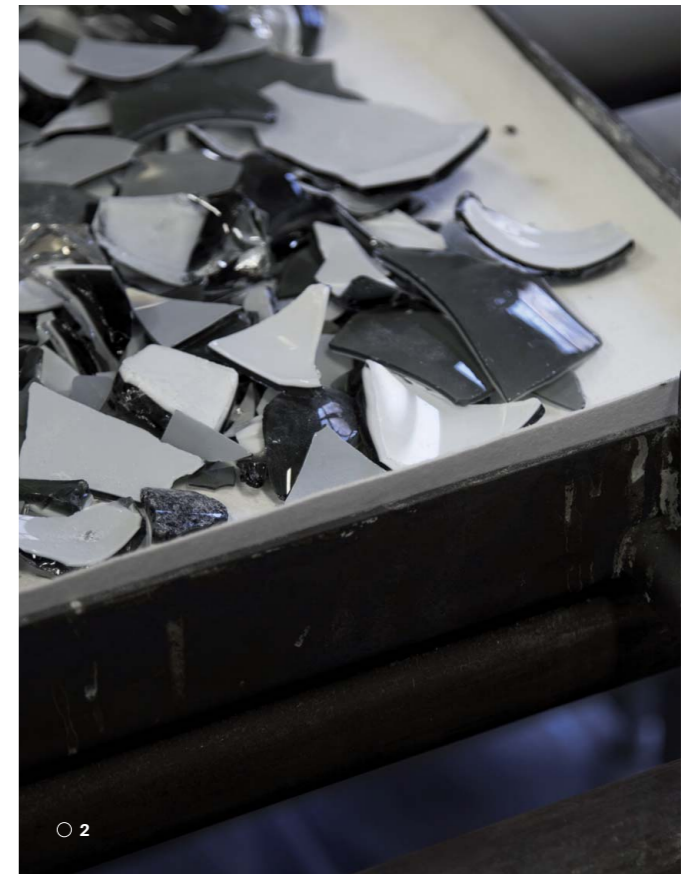
The innovative and ecological practices of the Brokis brand have led to the creation of **BROKISGLASS**, an entirely new and highly versatile material made of recycled glass shards. It brings a new dimension and aesthetic to glass and its application in architecture and construction as well as to interior and product design. Because BROKISGLASS panels comprise derivatives of glass leftover from the production of the Brokis premium lighting collections, they represent an ecological and efficient method of recycling glass shards.

The technology was developed in the Czech Republic at the Janštejn Glassworks, where the exclusive handblown glass lighting collections of the Brokis brand are crafted. By manufacturing **BROKISGLASS**, the glassworks create a strategic circular economy that helps maintain a healthy relationship between nature and human society.



Production process

Glass derivatives and shards from the initial mould are crushed to the required size and then reshaped through controlled thermal exposure into a compact and resilient material with exceptional properties. The process gives rise to an innovative product – a material in the form of decorative large glass-crystalline panels marketed under the brand name BROKISGLASS. Its unique properties place it firmly within the broader spectrum of comparable building materials such as stone, ceramic, and synthetics.



○ 1—preparation of shard size ○ 2—melting of shards in moulds ○ 3—raw material prior to final formatting
○ 4—workpieces ready for further use

Products

Introducing the broad spectrum of uses of the material **BROKISGLASS**, which gives every project unmistakable character, be it furniture, lighting, interior accessories, or expansive applications in architecture

○ **SMOKE GREY - TRANSPARENT**
glossy finish
Fragment tables PC1026 / PC1024 / PC1025
Lucie Koldová

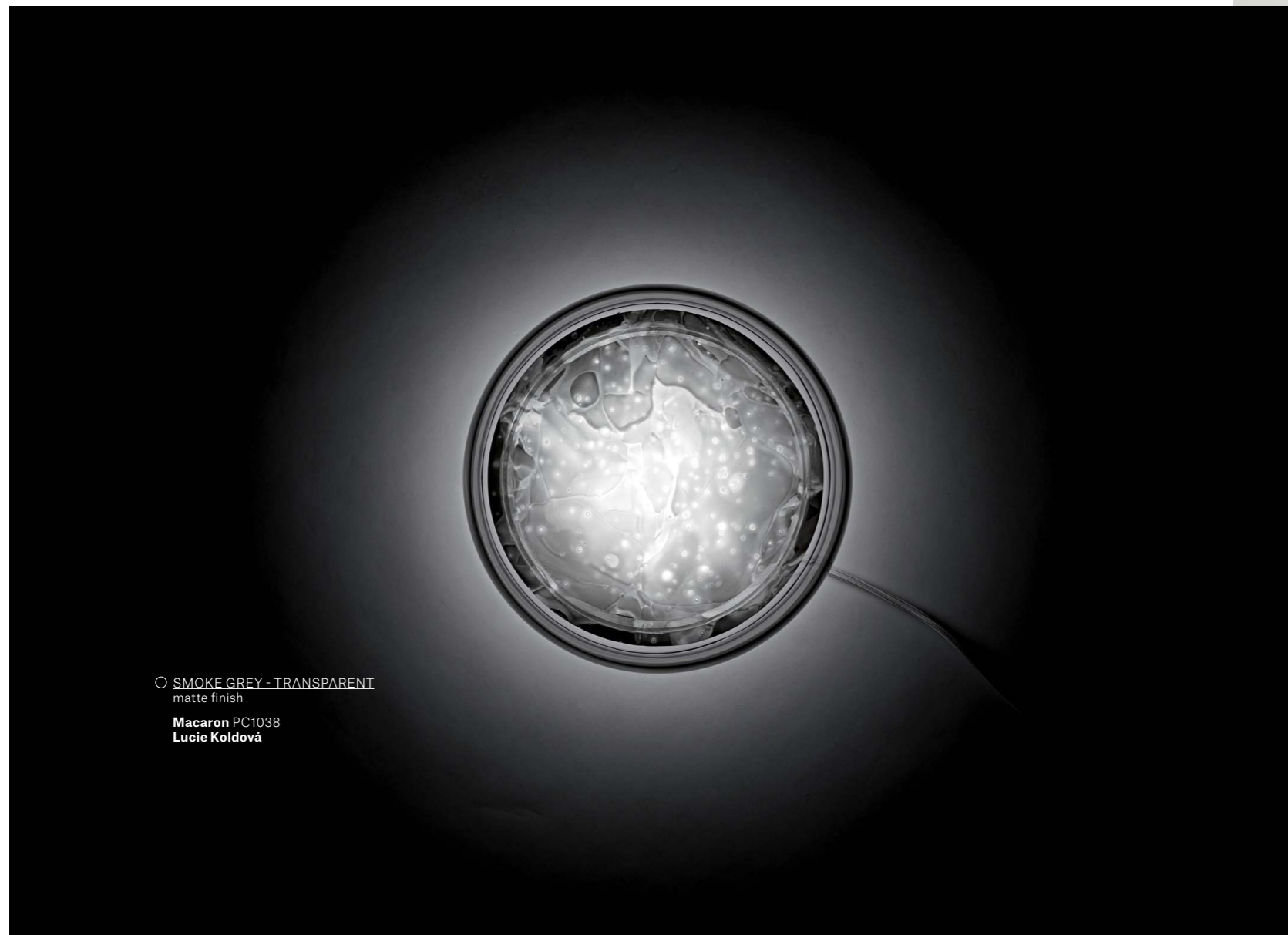




○ LIGHT PINK - TRIPLEX OPAL
glossy finish
Custom shelving system



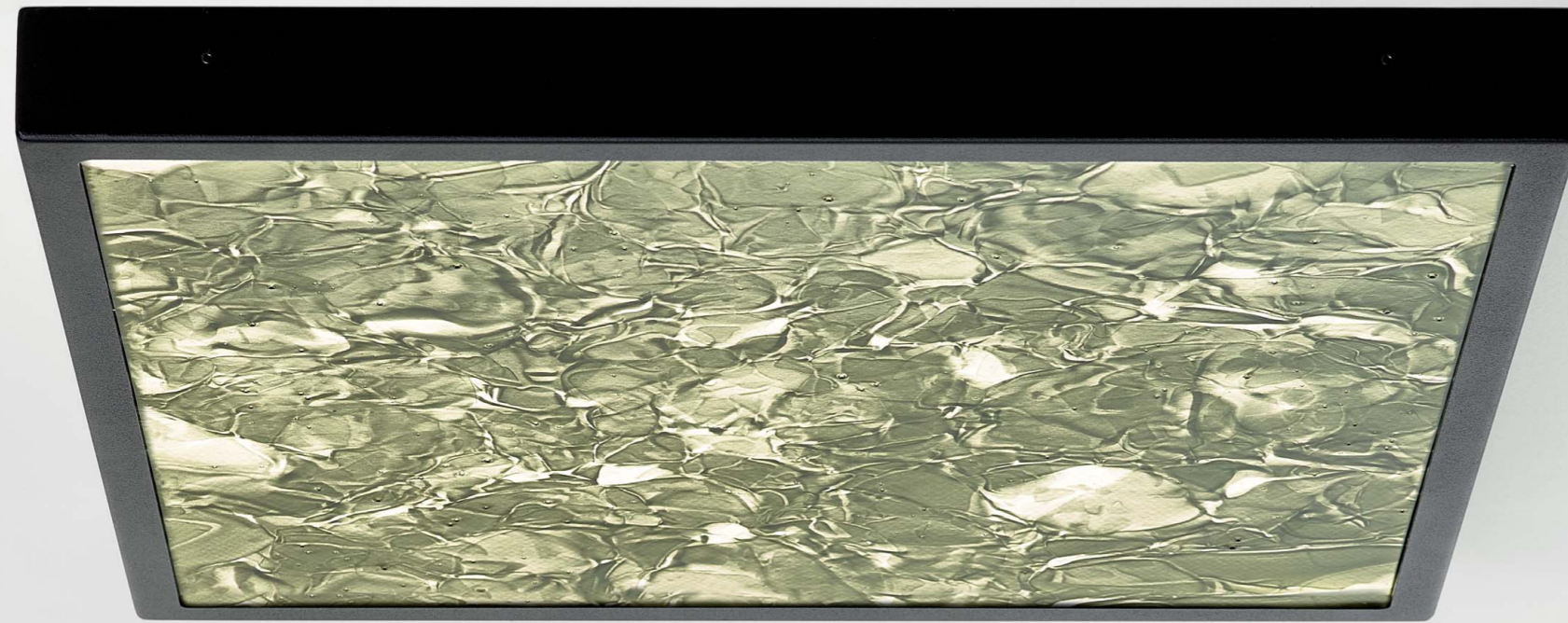
○ SMOKE GREY - TRANSPARENT
matte finish
Night Birds PC962, PC963, PC964
Boris Klimek



○ SMOKE GREY - TRANSPARENT
matte finish
Macaron PC1038
Lucie Koldová



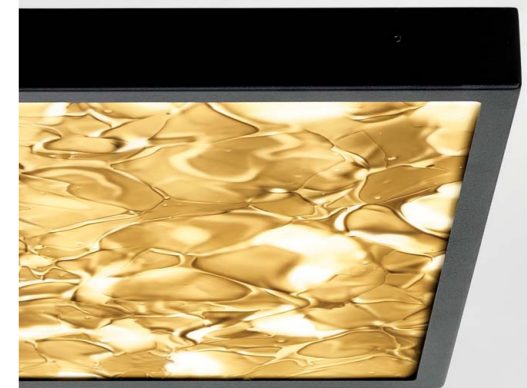
○ TRIPLEX OPAL
matte finish
Fragment table PC1026
Lucie Koldová



○ SMOKE GREY - TRANSPARENT
matte finish
Custom light fitting



○ TRIPLEX OPAL
matte finish
Custom light fitting



○ SMOKE BROWN - TRANSPARENT
matte finish
Custom light fitting



○ LIGHT PINK - TRIPLEX OPAL
glossy finish
Fragment table PC1026
Lucie Koldová



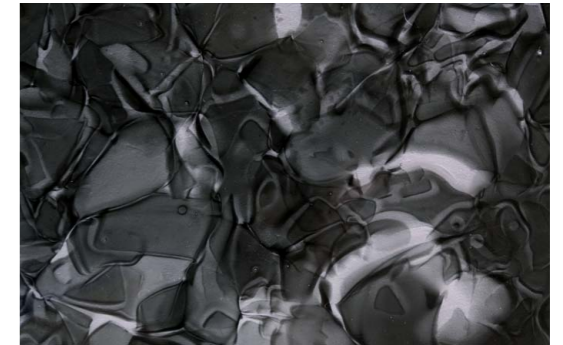
○ TRIPLEX OPAL
matte finish
Night Birds PC962, PC963, PC964
Boris Klimek

Colours

See the basic colours that BROKISGLASS comes in. Custom colour options are also available



○ TRIPLEX OPAL
glossy finish



○ SMOKE GREY - TRANSPARENT
glossy finish



○ SMOKE GREY - TRIPLEX OPAL
glossy finish



○ LIGHT PINK - TRIPLEX OPAL
glossy finish



○ SMOKE BROWN - TRANSPARENT
glossy finish



○ TURQUOISE - TRIPLEX OPAL
glossy finish

Product info

ARCHITECTONIC APPOINTMENTS

Some of the most interesting spaces for **BROKISGLASS** are living and technical interiors featuring decorative or utility elements. The natural characteristics of the glass panels are particularly apparent in combinations with materials such as metal or wood. The panels make it easy to maintain surfaces subjected to intensive wear. Because they don't absorb odours, they are especially beneficial in common interior spaces. Another important architectonic aspect and advantage is the ability to create various background lighting compositions and patterns.

PANEL SIZES

The recommended thickness of the panels is **8-17 mm**. The technology allows for the production of panels in **500 x 800 mm** and **850 x 850 mm** sizes. Other dimensions are achieved by cutting individual panels either horizontally or vertically with a diamond saw. Using diamond drill bits, holes of various sizes can be drilled anywhere in the panels according to customer requirements.

CHARACTERISTICS

- *flat (panel) format*
- *minimal absorptiveness (practically none on the surface)*
- *highly resistant to water and aggressive chemicals*
- *easy to clean, including removal of surface stains and graffiti*
- *durable with no odour absorption*
- *unmistakable glass structure in various colour*
- *compositions as well as in imitation of natural materials*
- *inert characteristics ensure absolute hygienic and environmental safety*
- *waste material from the panels can be fully recycled back into normal production processes*

COLOUR VARIABILITY

The variety of colours depends on the possibilities and composition of the molten glass being used in the glassworks. The customer can request:

- The customer can request:
- *unconventional colour tones*
 - *nonuniform surface decor, plain, or a combination of multiple colours*
 - *custom production*

MODIFICATIONS AND SURFACE FINISHES

- *smooth surface after thermal exposure (no grinding or polishing)*
- *coarse surface, anti-slip*
- *finishing of cut edges*
- *bevelled edges to 2-3 mm*
- *pencil grind edges ("C" shape)*
- *non-right cuts and cutouts using unconventional methods (laser, waterjet)*
- *grinding various ornaments according to customer requirements using diamond instruments*
- *sandblasting*
- *matte finishes*

The panels can be easily cleaned using plain water or water with ordinary detergent. Graffiti can be removed with a solvent suited to the particular type of paint. Abrasive scouring powders are not recommended.

BROKISGLASS APPLICATIONS

- *exterior and interior cladding for various types of buildings*
- *illuminated exterior and interior cladding for various types of buildings*
- *interior fittings and garden architecture*
- *large-format artistic mosaics*
- *various decorative appointments*

INTERIOR APPLICATIONS

- *can be used as general interior cladding in common and technical spaces, offices, and flats*
- *illuminated interior cladding in living spaces (kitchens, bathrooms, hallways, etc.)*
- *interior cladding for industrial buildings (laboratories, spaces with exposure to aggressive chemicals, food production facilities, veterinarian clinics, hospitals)*
- *common spaces requiring indirect lighting (hotels, lobbies, passages)*

INTERIOR INSTALLATION METHODS

- *prefabricated systems (supporting structures with invisible anchors, mirror-style installation in frames using screw fasteners)*
- *gluing onto flat surfaces (random positioning)*
- *tiling on flexible anti-slip surfaces*
- *other techniques used in interiors*

EXTERIOR APPLICATIONS

- *exterior large-format building cladding using ventilated (and insulated) hanging systems or by gluing onto a solid base*
- *glassed-in outdoor spaces (atriums, pergolas, etc.)*
- *garden and cemetery architecture (garden tables, translucent dividing walls, grave markers)*

EXTERIOR INSTALLATION METHODS

- *prefabricated systems with mechanical anchors on supporting structures (with invisible and visible fasteners)*
- *installation in frames*
- *gluing onto flat surfaces*
- *anchoring vertically and horizontally*
- *installation on insulated and ventilated cladding systems*

FINAL WORD

I'm pleased that after eight years of hard work in research and testing we can finally introduce our new product, BROKISGLASS, which has been created thanks to the joint efforts of the employees at the Janštejn Glassworks and Brokis. The primary goal was to find another use for leftover glass shards and thus help the environment through real and substantive recycling. A positive relationship with the environment is one of the top priorities of our company.

I'd like to thank all the employees of both companies who contributed to the development and testing of the new product. Special thanks go to Irena Czepcová, who, from the very beginning, has played a key role in the development of the new product.

Jan Rabell



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