

SASCHA PETERS

MATERIAL REVOLUTION

SUSTAINABLE AND MULTI-PURPOSE MATERIALS FOR DESIGN AND ARCHITECTURE



BIRKHÄUSER

USE AND PROCESSING

There are numerous examples of products made of recycled glass that go beyond everyday objects. Scrap glass is used in the production of partitions, lampshades, tiles and 3D glass materials. Panels made of recycled glass are just as available on the market as mosaic tiles, with a recycled proportion of between 65–80%, as well as wall coverings and flooring made from waste glass. Glass made of recycled material can be processed using all techniques known to the glass-making industry.

PRODUCTS

Bio-Glass®

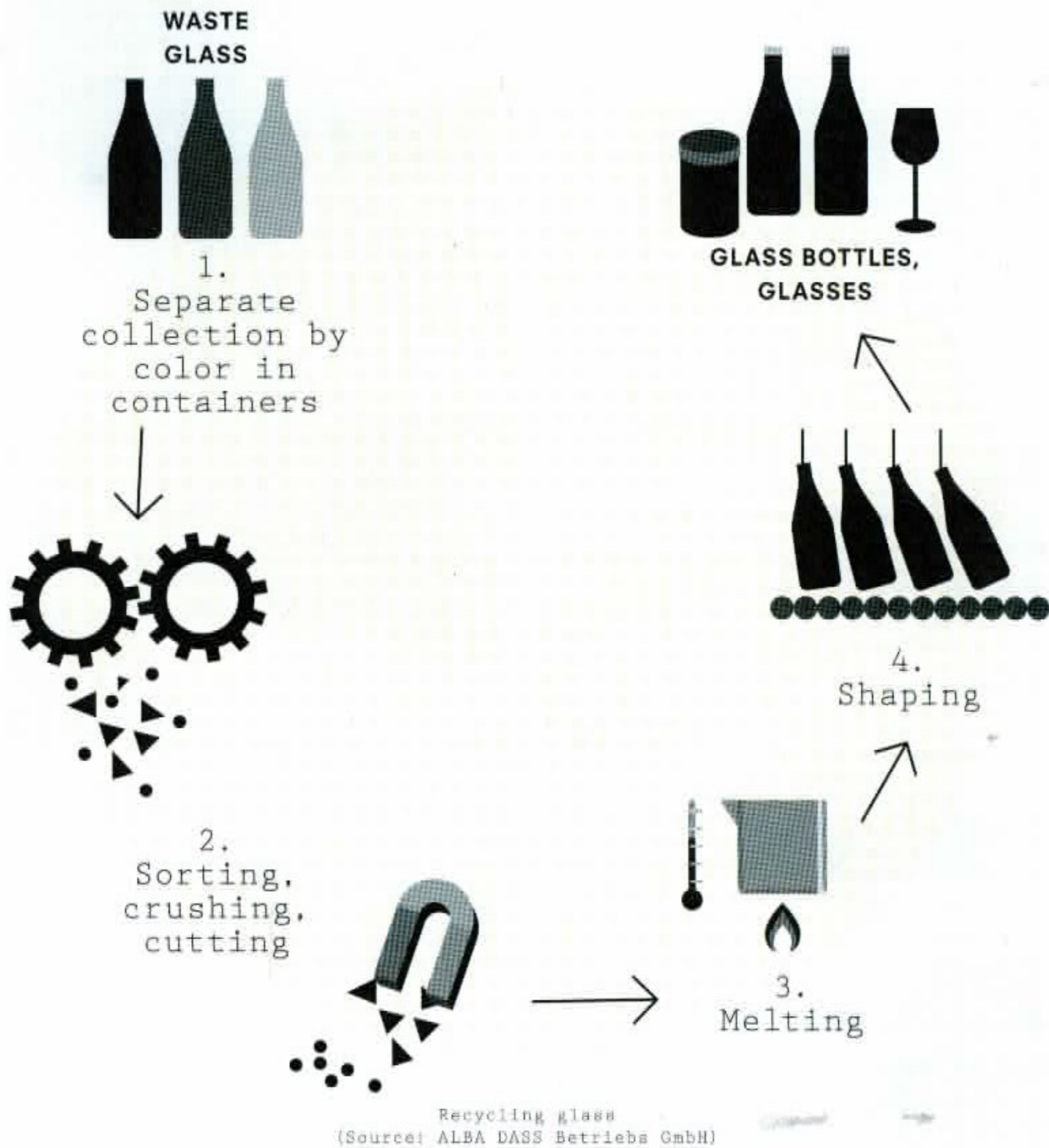
This panel material is made of 100% recycled glass. Since it contains neither additives nor coloring agents, it can be recycled in its entirety. Only a small amount of energy is required for its production. Given its special aesthetic appeal and sealed finishes, Bio Glass® is used for worktops, furniture coating, and in interior design.



Recycled glass in use in the kitchen
(Source: Coverings Etc)



Malachite structure made of recycled glass
(Source: Coverings Etc)



Stax™

Stax™ glass panels are produced from **waste glass** by melting stacked pieces of glass. The result is a material finish with a 3D look and reflecting surfaces and edges. One square meter of the glass weighs around 14.5 kg and varies in thickness between 1–1.5 mm. A reflective surface stuck on its rear side emphasizes the material's particular visual qualities and also increases its stability.

Blazestone™

Blazestone™ is produced without the addition of oxides or coloring agents and contains up to 50% waste glass from bottles and windows. It is used for ceramic tiles, crockery and decorative articles.

Trend Glasmosaïke

Mosaic tiles are produced by Trend in the tra-

ditional square format measuring 20 x 20 mm and 15 x 15 mm, using up to 80% recycled glass. They are used in flooring, as wall coverings and in sculptures. The mosaics have a waterproof and as such frost-resistant surface, making them suitable for outdoor use. A configurator is available for designers, artists and architects who wish to create an individual design.

Icestone™

Icestone™ comprises **glass particles** from waste products, which are incorporated in a cement matrix. It is available in 24 different colors, but by varying its composition can be adapted to meet clients' specific needs. This stone material is used in bathrooms and kitchens and to create special atmospheres in public and commercial buildings.