Glass Tubes & Profiles – Architecture, Art & Design

Projects & Applications
Glass Tubing for Architecture, Art & Design

SCHOTT specialist glass tubing and rods offer inspiring and fascinating solutions for a wide range of architectural applications.

CONTURAX®, CONTURAX® Pro, DURAN® and DURATAN® allow high transparency and thermal shock resistance as well as hard and smooth surfaces that are scratch resistant. Furthermore, their geometrical accuracy enables precise processing.

The high standard of quality in combination with an exceptional range of shapes and dimensions provides unlimited possibilities. Whether it is for interior design, lighting concepts or product presentation open your imagination and explore these creative applications using glass tubing and rods.

www.schott.com/tubing/design

Art Installation in Assen / Netherlands / DURATAN®
The limited edition SCHOTT sample case

with Glass tubes, rods & profiles inside
Types of glass tubes, rods and profiles

- Circular tubing & rods – DURAN®
- Profiled glass tubing & rods – CONTURAX®
- Precision drawn profiled tubing – CONTURAX® Pro
- Thermally pre-stressed tubing – DURATAN®

- All these glass tubing types are made of Borosilicate glass 3.3
- High optical and cosmetic quality, therefore no unwanted reflections of refractions.
- Tight geometric tolerances.
DURAN® glass tubes and rods
Glass tubes for product presentation

Boodles Jeweler / Great Britain / DURAN®

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Glass tubes for a window cladding system

For the project on the left both straight and bended tubes were used for the window cladding.

Window Cladding for S.C. Johnson Building / USA / DURAN®
Glass tube for a fountain display

Fountain / Federal Ministry of Health / Germany / DURAN®
Glass tubes for interior design

Arquia – Caja de Arquitectos / Bilbao / Spain / DURAN®
Glass tubes for an art installation

Art installation with 2000 glass tubes / Groningen / Netherlands / DURAN®
Photo: F. van der Veen
Glass tubes for an art installation

There is water inside, the tubes are closed with a plate on either side.

The plate has a hole which is closed with a rubber in order to avoid the growth of algae.
Glass rods for an art installation

Sculpture Aurora / London / Great Britain / DURAN®

© SCHOTT AG
Glass rods for interior decoration

Tarnowski division, Łukasz Zandeck, Hotel Aries Zakopane, Club Le Scandale, Poland / DURAN®
Glass rods for interior decoration

The Savoy Hotel / London / Great Britain / Copyright Nero Glass Designs / DURAN®
Glass tubes for a bar

Tarnowski division, Łukasz Zandeck, Hotel Aries Zakopane, Club Le Scandale, Poland / DURAN®
Glass tubes and profiles in combination with light

Different light sources inside

© SCHOTT AG
Coated glass tubes with polymer – inside and outside

Polymer coating inside – with colour

Polymer coating inside - clear

Courtesy of Höweler and Yoon Architecture / AVIARY / Village Dubai Mall / DURAN®
Sandblasted glass tubes

© MBM-Techglas

© SCHOTT AG
Coated glass tubes – laquer coating

Dimension range
- OD: 50.00 – 100.00 mm
- Wall: 2.50 – 9.00 mm
- Length: 500 – 1,500 mm

This kind of coating can be applied for interior applications. (UV)
Coated glass tubes with a UV resistant liquid film

Liquid film on the outside of a tube

Trial to break a tube, which is coated with a liquid film (dimension 32 x 4 mm)
Comparison glass vs. acrylic

- Glass has a higher UV-resistance and is more durable under different environmental conditions than acrylic.
- The chemical resistance of glass is higher than acrylic.
- Glass has a higher scratch resistance / harder than acrylic.
- For glass a higher temperature region is possible.
- It is easier to clean glass than acrylic.
- The weight of glass is heavier than acrylic.
- Glass has a significantly lower coefficient of thermal expansion compared to PMMA → for polymer a compensation has to be allowed to avoid permanent deformation.
- Glass is not flammable different to polymers. Burning polymers can in addition cause a spread of the fire by dropping molten parts.
CONTURAX® and CONTURAX® Pro profiles
Interior design – Combination of tubes and profiles

For this project we have used a DURAN® tube as outer tube and CONTURAX® profile 006 as inner tube.
Decoration - Combination of flat glass and profiles

Half rod fixed on flat glass with a UV glue.
Projects with CONTURAX® Pro profiles

Partly sandblasted.

Glass Wall and Glass Bar / CONTURAX®, CONTURAX® Pro and DURAN®
CONTURAX® profile for a glass wall

Hikare / Japan / CONTURAX®
CONTURAX® profile for a chandelier

Hotel Hiltl in Zurich / Switzerland / CONTURAX®
CONTURAX® Pro – example for a lamp

Lamp & Photo: DT GLASS s.r.o. / Czech Republic / CONTURAX® Pro
Tubes and profiles with holes

Holes are possible in a diameter between 5 mm and 8 mm.
Profiles – create your own profile: Examples

Three examples of special profiles.
Create your ideas and we check the technical production possibilities.
DURATAN® – toughened glass

The image below shows how a toughened glass tube will break. The tube will break in small pieces, they are not sharp. There is a foil around the left tube, the right tube is a complete and not broken.
DURATAN® – toughened glass tubes for product presentation
DURATAN® – toughened glass tubes for product presentation
DURATAN® – toughened glass tubes for art installation
Contact details

Please contact us for any further questions

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Thank you for your attention