DA GLASS



DAME LASS

WE CHANGE THE PROPERTIES OF GLASS





DAGLASS PORTFOLIO

TECHNOLOGIES & PRODUCTS



DIAMOND GLASS

Hydrophobic, resistant to scratching. It is a great choice for partitions, partition walls, and shower cabinets.



DIFFUSED GLASS

It scatters the light in a controlled and steady manner. Therefore, it removes shadows and gives more transparency in contact with water. It is a perfect solution for lightning and greenhouse sector.



NANO-BARREN™ ANTISEPTIC GLASS

It is produced with the use of magnetron technology and has antifungal, self-cleaning and biostatic properties.



ANTI-REFLECTIVE GLASS

By changing the surface morphology, this glass increases the light transmittance. Consequently, it improves the efficiency of lightning and significantly advances the quality of image on screens.



NON-GLARE GLASS

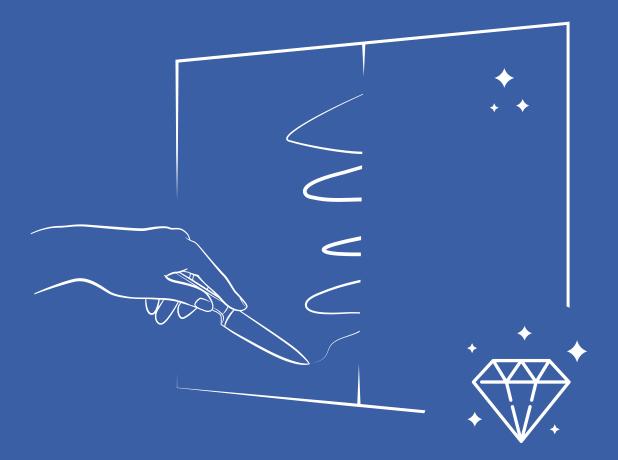
A type of glass with changed morphology in the nano scale. It is suitable for LED screens and LCD screens. The anti-finger print feature makes it an ideal solution for touch screens. It reduces light reflexes and improves the image.



THERMALLY TEMPERED, LAMINATED AND DOUBLE GLAZED GLASS

A wide range of applications in the construction industry.





Diamond Glass – anti-scratch glass is made using a high vacuum magnetron sputtering technique. In this process a high vacuum is created, then as a result of effective bombardment of the target with ions of working gas, atoms are released from target surface and are deposited on the substrate (here: glass) in the form of a nanolayer / coating.

The resulting coating, made of an amorphous carbon phase, has diamond-like properties, and when applied to a glass substrate, it exhibits the following characteristics: reduced friction coefficient, increased resistance to mechanical loads (e.g. scratches), increased hardness, chemical inercy, tightness and anti-static properties - the ability to neutralize the electric charge accumulated on the surface of the glass.



DIAMOND GLASS

PROPERTIES

- High resistance to scratches
- Easy and effective cleaning with available detergents
- Increased resistance to scale and dirt deposit
- Increased resistance to corrosion
- Increased durability during processing
- High light transmittance



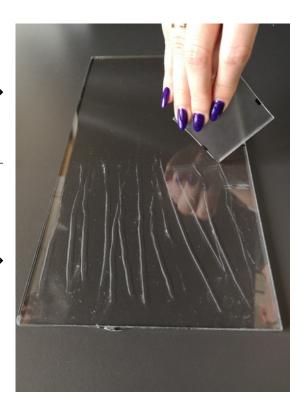


ANTISCRATCH RESISTANT TEST

COMPARATIVE TEST

Glass with antiscratch coating

Glass without -



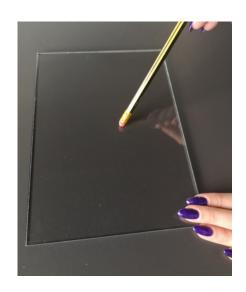
Research results

The scratch resistance test using scratch glass (5 by 5 cm) showed that **on a part of the glass with a diamond coating, scratching of the surface is impossible.**



LIMESCALE DEPOSITION

COMPARATIVE TEST



Glass with diamond coating



Glass without any coating

Research results

The picture on the left shows glass with a diamond coating, and on the right shows glass without any coating. As seen on glass with diamond coating, in opposite to glass without any coating, no water residues are observed.

In practice, this result means that the diamond coating prevents deposition of scale and can be used as protection in applications where moisture protection or water penetration into the glass structure is important.



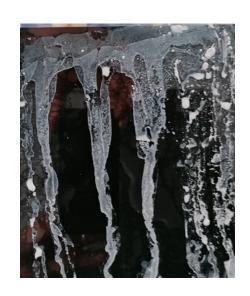


THE RATE OF WATER FLOW FROM GLASS

COMPARATIVE TEST



Glass with diamond coating



Glass without any coating

Research results

The picture on the left shows glass with a diamond coating, and on the right glass without any coating. As you can see, the speed of flowing water is much faster in the case of a glass with a coating - there are no traces of flowing water, which means that the time of contact of water with a coating is much shorter than in the case of a glass without any coating.

In practice, this result means that the diamond coating reduces the susceptibility of the glass to dirt of organic and inorganic origin.





GLASS CORROSION RESISTANT TEST

COMPARATIVE TEST

[according to PN-EN 1096]



Glass with diamond coating



Glass without any coating

Research results

Glass corrosion resistant aging test was carried out in a climatic chamber at 50 °C and 95% humidity for 14 days, showed no signs of corrosion in the form of white discoloration. Despite extreme conditions, the glass remained transparent.





OPTICAL PARAMETERS OF GLASS

COMPARATIVE TEST



Glass with diamond coating



Glass without any coating

Research results

Low-iron glass, with a direct light transmission of 91.0%, does not change significantly optical parameters after applying the diamond coating. In practice, this result means that the transparency of the glass after applying the diamond coating (for interior usage) remains at the same level as the base glass. The transmission of the glass after deposition of diamond coating for exterior usage may have a value up to 2% lower than base glass (glass without any coating).









DIAMOND GLASS

Diamond Glass can be applied in the places, where the surface is exposed to external factors such as water, organic – non-organic dirt or other mechanical factors such as scratches and it can be also used as a protection against vandalism.





AIRPORTS



PUBLIC TRANSPORT



WET ZONES









EXTERIOR ARCHITECTURE



SANITARY FACILITIES



HIGH TECHNOLOGY INDUSTRY





GLASS ROOFS



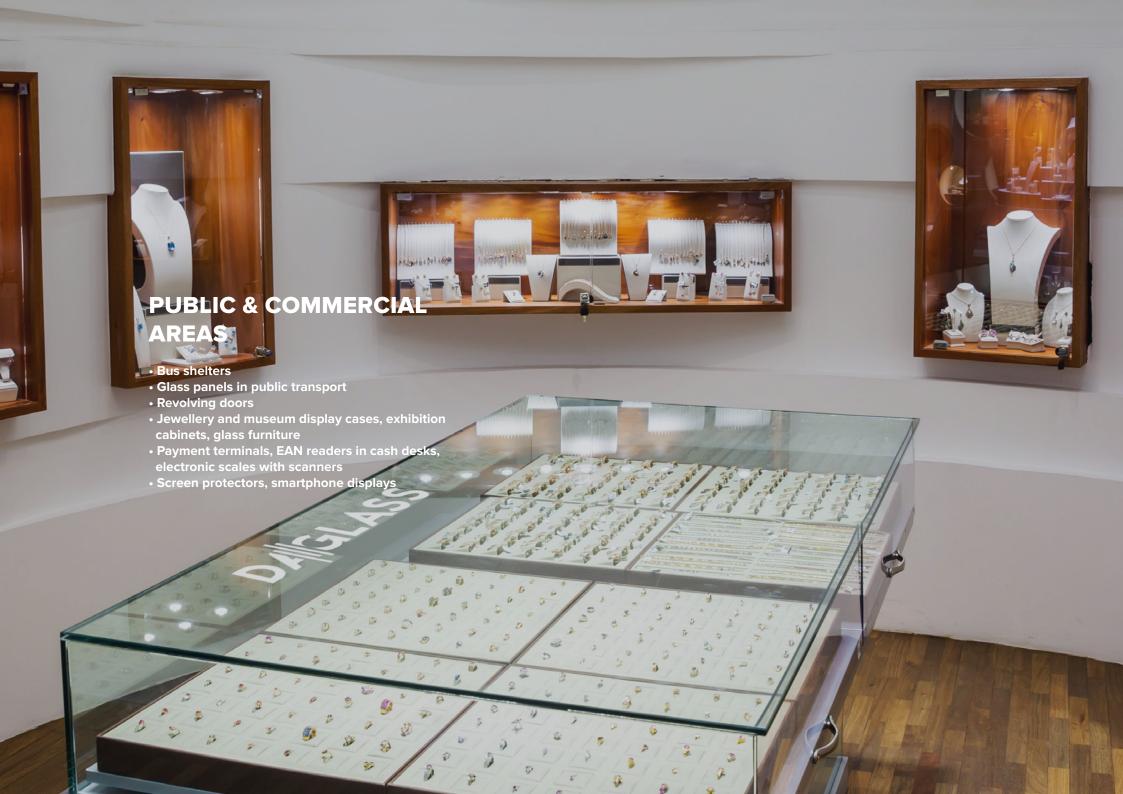
GLASS FLOORS



WALL PANELS



DISPLAY WINDOWS





BUS SHELTERS



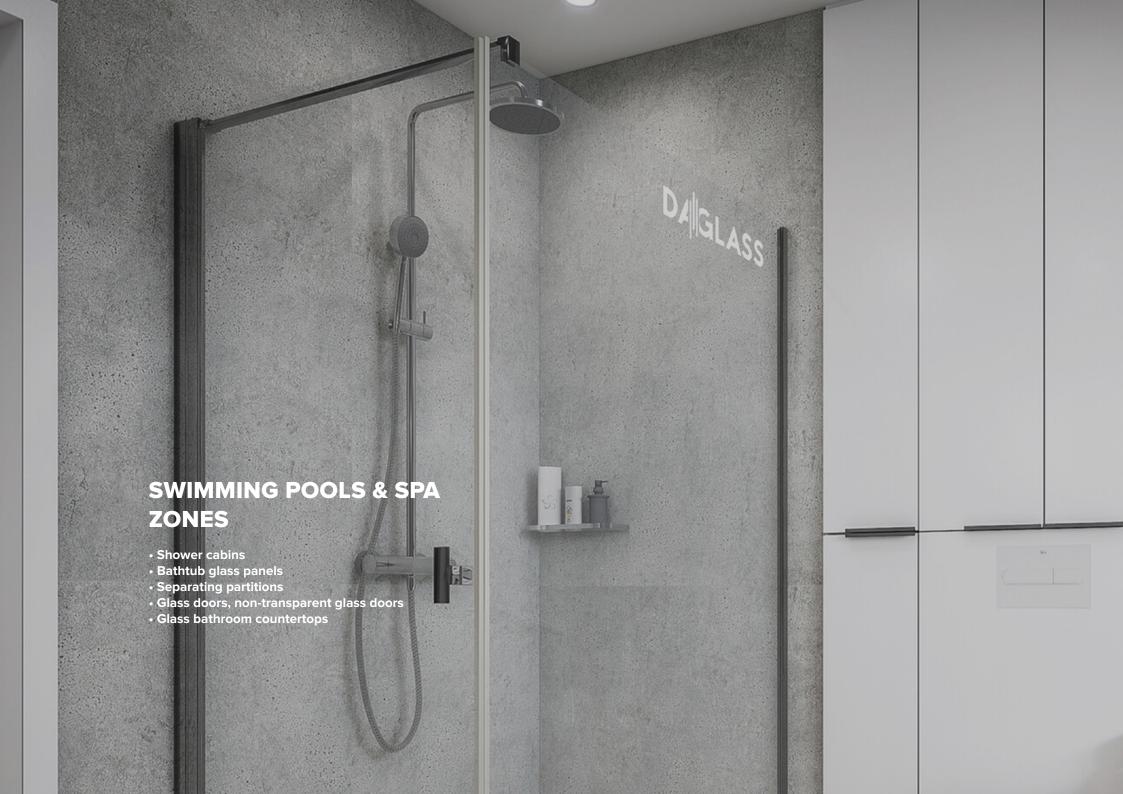
PUBLIC TRANSPORT



REVOLVING DOORS



PAYMENT TERMINALS

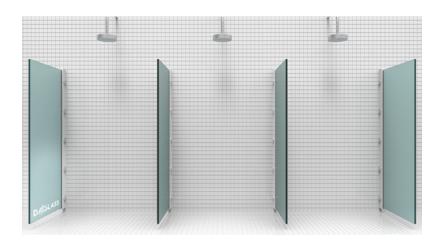




BATHTUB GLASS PANELS



SEPARATING DOORS



SEPARATING PARTITIONS



GLASS BATHROOM COUNTERTOPS



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