



DA||GLASS



Diffused Glass

**Over 30 years
of experience in
craftsmanship of
highly advanced
glass technology**

DAGLASS PORTFOLIO

DAGLASS

TECHNOLOGIES & PRODUCTS



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.



DIAMOND GLASS

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



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.





Highly-advanced technological capabilities enable us to change glass properties, including making the matt surface in the etching process. Such structure scatters the light in a controlled manner, proportionally to the percent of the glass haze, without losing light transmittance.

The manufacturers appreciate diffused glass as it reduces the light point effect emitted by LEDs. In addition, diffused glass has self-cleaning properties and higher mechanical and load resistance compared to prismatic glass commonly used.

THEORETICAL BACKGROUND

DIFFUSED GLASS

The maximum size of diffused glass sheet reaches 3210 mm x 2250 mm. It is produced with the use of float glass, low-iron and stained in mass for most thicknesses available on the market. In our product portfolio there are also thermally tempered, laminated and double-glazed glass panels available. It is possible to adjust the degree of haze (Fig. 1 below) and cover the diffused glass with an anti-reflective coating.



Haze 0%



Haze 30%



Haze 60%



Haze 90%

Fig. 1 Different haze values on diffused glass



THEORETICAL BACKGROUND

DIFFUSED GLASS

DAGLASS DIFFUSED glass is valued in different economic sectors thanks to the use of chemical treatment, which makes glass matte. As a result, the glass scatters the light in a controlled manner, proportionally to the percent of the glass haze. Diffused glass has lots of advantages, including:

- Reducing the point effect of the light emitted by LEDs - very important in the lighting industry,
- Self-cleaning properties,
- Increased mechanical and load resistance compared to prismatic glass commonly used on the market.

The figures below show glass canopies exposed to weather conditions.



Fig. 2 Traditionally laminated flat glass



Fig. 3 DAGLASS diffused laminated glass



THEORETICAL BACKGROUND

DIFFUSED GLASS

The haze measurement is used for the opacity / haze percent.

Additionally, a spectrophotometer with 1 m Ulbricht sphere is used to measure the direct and hemispherical transmittance in the range of 400 to 700 nm.

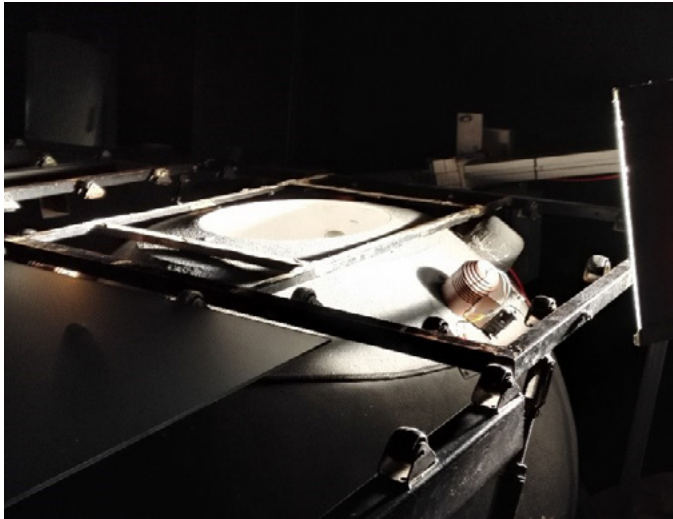


Fig. 4 Spectrophotometer with an Ulbricht sphere, 1 m in diameter, with a movable arm enabling angular measurement





Diffused Glass applications



DIFFUSED GLASS

Diffused glass has a wide range of applications. When applied as the greenhouse glass it enhances plant growth and yield per m². As the light is scattered evenly and in a controlled way this glass guarantees zero-loss in light transmission, which is meaningful in the lighting industry. Additionally, its self-cleaning properties make it easy to keep the glass clean, especially in places exposed to increased dirt.



**LIGHTING
INDUSTRY**



**GREENHOUSE
INDUSTRY**



**EXTERIOR & INTERIOR
ARCHITECTURE**



**PHOTOVOLTAICS & GLASS
FOR SOLAR COLLECTORS**



A photograph of a tomato plant growing in a greenhouse. The plant is in a small white pot, which is placed on a white cloth-covered stand. A black sensor cable is connected to the base of the plant. The greenhouse has a metal frame and translucent blue panels. The text "GREENHOUSE INDUSTRY" is overlaid on the left side of the image.

GREENHOUSE INDUSTRY

A low-angle, wide shot of a modern interior space, likely a museum or gallery. The ceiling is a white grid with several rectangular recessed light fixtures. Track lighting with multiple adjustable spotlights is mounted on the ceiling. A large, dark gray vertical pillar stands in the center. The walls are dark gray, and the shelves are white, displaying a large collection of white ceramic dishes, including plates, bowls, and teapots. The lighting is bright and even, highlighting the ceramic items.

LIGHTING INDUSTRY

INTERIOR DESIGN





RENEWABLE ENERGY

- PV panels
- Solar collectors

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