



ACRYLICPOOL®

TRANSPARENT QUALITY

**PMMA GLASS
VS
QUARTZ GLASS**



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PMMA GLASS VS QUARTZ GLASS

Virtually all pool projects around the world are made of acrylic (PMMA).

I know of the only single projects on quartz glass, such as, for example, in the Zoo in Bergen, but they come from the beginning of the 1980s and will be gradually replaced with acrylic.

In recent years, we have installed glass only once in the swimming pool window in the Sealarium on Hel. It lasted two years.

Submarines for which quartz glass is not used in swimming pools:

1. Glass during production has a closed stress that cannot be relaxed or measured, which means that the glass has a low toughness.

This means that the window pane is resistant to rain, but, for example, heavy hail can damage the pane quite easily.

2. Glass, even with the borosilicate tints removed (such glass is popularly called opti white), with a set of, for example, 2 x 19 mm, is already visibly blue and acrylic is perfectly transparent, regardless of the thickness,

3. The resin and foil in the insulating glass unit is not resistant to water, minimal leakage on silicone, causes water penetration and the so-called widow's hair, is damaged in the shape of twigs.

4. Minimal damage in the panel, even a few millimeters in size, does not allow its installation. With a large panel weight and steel mounting, such damage is very easy.

5. Installation of the glass must be perfect both vertically and horizontally, even a few millimeters, it exposes the panel to breakage. Acrylic has an enormous tolerance to unevenness in assembly.

In aquaristics, where I have realized hundreds of large-size aquariums, the so-called floating bottom is used. The glass panel is divided into 50 cm sections to protect against uneven surfaces.

6. In my practice, I have experienced spontaneous breakage of a large glass panel when properly stored.

7. No glass factory or glass manufacturer can guarantee the glass. We give 10 years.

8. Glazing silicone is guaranteed for 5 years. After this time, the panel or aquarium should be cut out and glued again. This applies to trained Perenator (Germany) dedicated to large aquariums.

9. Silicone after polymerization has no elasticity and the glass will be cooled and heated. With a few millimeters of glass thickness, it does not matter whether the 203 cm insulated glass is already colossal.

10. In 20 years I made several hundred aquariums with a capacity of 100 to 8500 liters. I used panels with a thickness of 24 to 57 mm. As a court expert, I write expert opinions to the court about damaged aquariums and I am faced with glass problems that are hard to guess. This applies to damage from a loud bass bull, temperature change or spontaneous inexplicable destruction of the panel.



ACRYLIC

LOW IRON
GLASS
OPTI WHITE

REGULAR
GLASS

MID-GRADE
LOW IRON
GLASS



ACRYLICPOOL®

Sp. z o.o.

TRANSPARENT QUALITY

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