Aglas SoundStop

for Noise and Wind Barriers

AKRIPOL

G4 Group

Noise Control

Noise is a daily companion. As we are all trying to make our living space as comfortable as possible, avoiding more significant noise pollution make us feel good. With a transparent noise barrier, you can reduce visible obstacles and preserve a feeling of openness.

Akripol acrylic sheets for sound barriers reduce the effect of higher levels of noise on the one hand, and on the other, offers a more aesthetic product. It can be a suitable design for ordinary noise barrier projects.

They are the right solution for effective protection against noise caused by traffic and industry.

The main advantages of using Aglas SoundStop cast acrylic sheets:

- Excellent resistance to weather and aging
- Exceptional light transmission
- Transparency that ensures an open space
- Functionality and aesthetics
- Compliance with the standards

Noise Protection | Natural Daylight | Energy Efficiency | Engineering | Spatial Solutions

Product Description

Aglas SoundStop cast acrylic sheets are solid acrylic sheets mainly made of methyl methacrylate (MMA). They are specially developed for noise barriers along roads and railways, as well as wind barriers on bridges. They can also be used in other applications, such as decoration panels, facade systems, balcony guards and staircase balustrades, etc. The sheets are available in several different grades, in clear versions and in transparent or non-transparent colours.

Features & Benefits

- Sound reflecting
- Available in clear and seven standard transparent colours
- Also with embedded polyamide threads for sliver retention
- Various additional treatments available
- Highly UV protected
- Extremely high resistance to weathering and aging
- Easy to form
- A 10-year guarantee
- Simple to assemble and maintain
- Lightweight
- Recyclable

GUARANTEE

NO YELLOWING

HIGH LIGHT TRANSMISSION

UV STABILITY

GUARANTEE 30 year

Product Range

Aglas SoundStop Standard

Cast acrylic sheets available in several different transparent colours. A perfect choice for noise barriers in residential areas. They can combine functionality and good appearance. There is no tunnel affect for drivers and they give residents a wider view.

Aglas SoundStop Premium 30

Transparent cast acrylic sheets for sound barriers with embedded polyamide threads. Due to the polyamide reinforcement system, the sheets prevent fragmentation caused by a vehicle crashing into the sound barrier. Sound barriers equipped with Premium 30 sheets are the perfect solution for installation on flyovers, bridges and in city centres and do not need an additional restraining system.

Aglas SoundStop F+

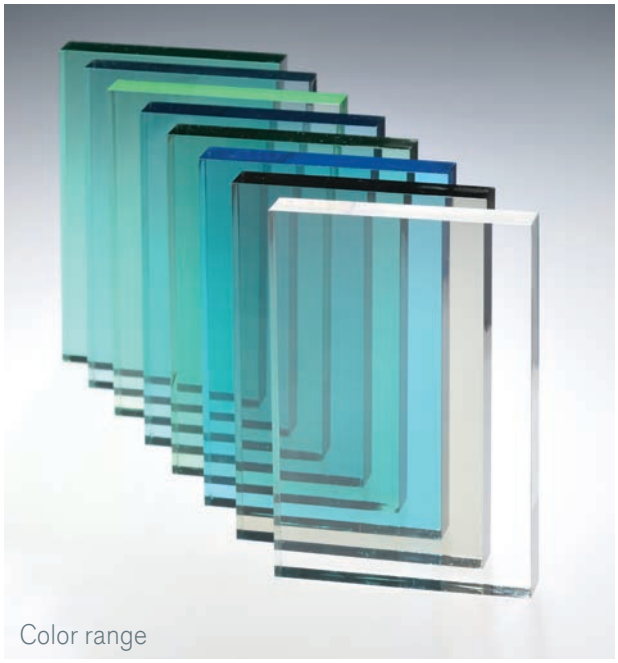
A new enhanced type of cast acrylic sheets – fluoro-acrylic co-polymer sheets for SoundStop barriers. The fluoro additives make the sheets highly resistant to solvents, dirt, weather, etc. Noise barrier projects with installed Aglas SoundStop F+ cast acrylic sheets brings increased value to the end customers. Available in both options - Standard and Premium 30.

FEATURES

- A LONGER LIFESPAN
- ENHANCED WEATHERABILITY
- EASY TO CLEAN SURFACE

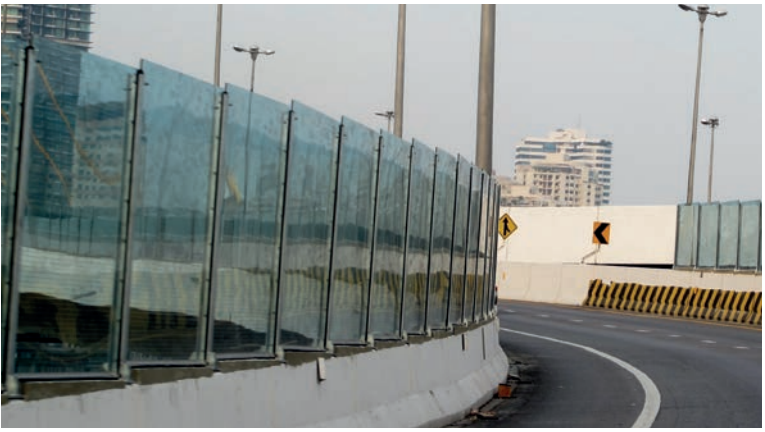
Standard Colours

000	Clear
685	Spring green
686	Forest green
687	Sea green
591	Smoky brown
793	Steel blue
794	Midnight blue
795	Sky blue



Color range

On request we can also develop special colours, according to your needs and wishes. You can choose between transparent, non-transparent and translucent colours. For better illustration, translucent colours diminish the visual element but still keep the feeling of an open space.



Standard Thickness

Product type / Thickness in mm	12	15	20	25
Aglas SoundStop Standard	•	•	•	•
Aglas SoundStop Premium 30	•	•	•	•

Standard Sizes

Size in mm	Aglas SoundStop Standard	Aglas SoundStop Premium 30
4000 x 2000	•	•
3000 x 2000	•	•
2500 x 2000	•	•

Bird safety

We have more solutions available to keep birds safe:

- The use of coloured transparent sheets
- Bird stickers
- The creation of visible stripes by sanding or silk-screen printing
- Aglas SoundStop Premium 30 with embedded black fibres

Additional Treatments – All in one place

- Cut-to size (oblique, rectangular, round etc.)
- Thermoforming/bending
- Sand-blasting
- Silk-screen printing
- Laser and CNC cutting / hole drilling
- Polishing and milling of the edges

A wide range of irregular shapes

The specific characteristics of cast acrylic enables the formation of a more aesthetic look. This gives architects greater freedom of design and allows sound barrier panels to fit perfectly into the environment.

Proof of Adequacy

Property	Value	Unit	Standard
Weighted sound reduction index DLR:			
12 mm	29	dB	EN 1793-2
15 mm	30	dB	EN 1793-2
20 mm	32	dB	EN 1793-2
25 mm	33	dB	EN 1793-2
Impact of Stones	✓	/	EN 1794-1:C
Light reflection	Class 1	/	EN 1794-2:E
Resistance to brushwood fire*	Class 3	/	EN 1794-2:A
Dangerous of falling debris	Class 4 (Premium 30)	/	EN 1794-2:B
Snow clearance	✓	/	EN 1794-1:E
Wind load	✓	/	EN 1794-1:A

✓ meet the requirements of the standard; *12 mm sheets: Class 2

The Lifespan of Aglas SoundStop sheets

Characteristics	Aglas SoundStop		Requirements
	today	after 1 year	
Tensile strength	85,7 MPa	77,2 MPa	min. 70 MPa
Modulus of elasticity in tension	3110 MPa	3280 MPa	min. 3000 MPa
Elongation p.p.	4.3 %	4.9 %	min. 4 %
Impact resistance (Charpy method, unnotched)	17,8	21,0	min.13 kJ/m^2
Deflection strength	118 MPa	126 MPa	min. 110 MPa
Light transmission	91 %	91 %	/

High UV stability / yellowing index: < 1 in 5 years

Compliance with the standards:

Aglas SoundStop acrylic sheets meet the requirements of the European standards EN ISO 7823, EN 1793, EN 1794 and the German Standard ZTV-Lsw 06. For usage along railway tracks of the German Rail complies with RiL 804.5501.

More info:

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