

GRAMM

GRAMM BARRIER SYSTEMS LTD ENVIRONMENTAL AND SECURITY BARRIER SPECIALIST

Transparent Noise Barriers made from PLEXIGLAS SOUNDSTOP®



Transparent noise barriers make an effective yet aesthetic contribution towards reducing sound emission. The reflection of sound at the **PLEXIGLAS SOUNDSTOP®**

barrier considerably reduces the noise level in the area behind the wall. As a transparent material, **PLEXIGLAS SOUNDSTOP®** offers a clear view from both sides. In short, **PLEXIGLAS SOUNDSTOP®** with its transparency, light weight and formability, fits harmoniously into our environment.

The Advantages of Transparent Noise Barriers

Freedom of Design - The simple and inexpensive mode of fabrication offered by the sheets, such as thermoforming, cutting to size and drilling or surface treatment, gives you practically unlimited creative scope.

Safety - Transparent noise barriers help to increase road safety. The light-transmitting sheets cast no harsh shadows onto the roadway. Drivers stay in touch with the environment and have a clear view of their surroundings. Noise barriers made of **PLEXIGLAS SOUNDSTOP®** prove this day in, day out.

Large Sizes - We offer up to the following sizes: **PLEXIGLAS SOUNDSTOP® XT** in 2,050 x 9,000mm; **PLEXIGLAS SOUNDSTOP® GS CC** in 2,000 x 4,200mm. These sheets can also be cut to other individual sizes.

Sliver Retention - **PLEXIGLAS SOUNDSTOP® GS CC** is the only material approved by the (German) Federal Ministry of Transport for use along bridges without an additional restraining system. The threads incorporated into the material reliably prevent fragments from falling down, eg after damage during a road accident.

Bird Protection - Although highly transparent **PLEXIGLAS SOUNDSTOP® GS CC** sheets with integrated black polyamide threads - or coloured **PLEXIGLAS SOUNDSTOP®** barriers - are easily recognised by birds.

Optical Variety - **PLEXIGLAS SOUNDSTOP®** is offered in seven standard colours. Special colours can be provided on request.

 **PLEXIGLAS®**
the original from Röhm

 **röhm**
Degussa-Hüls Group

PLEXIGLAS SOUNDSTOP®

Technical Data

Properties (Typical Values)	Unit	FLEXIBLE SOUNDSTOP®			Tested to
		XT	GS	GS CC	
Thickness	mm	15 20 25	15 20 25	15 20 25	–
Density	g/cm ³	1.19	1.19	1.19	ISO 1183
Modulus of elasticity	MPa	3,300	3,300	3,300	ISO 527
Tensile strength	MPa	70	70	70	ISO 527
Flexural strength	MPa	min. 98	min. 98	min. 98	ISO 178
Vicat softening temperature	°C	102	110	110	ISO 306
Coefficient of linear thermal expansion	mm/m °C	0.07	0.07	0.07	DIN53752-A
Weight	kg/m ²	17.8 23.7 29.7	17.8 23.7 29.7	17.8 23.7 29.7	–
Weighted sound reduction index DLB	dB	30 32 33	30 32 33	30 32 33	EN 1793-2
Sound reduction index LSTR	dB	30 32 33	30 32 33	30 32 33	ZTV - Lsw 88

Cleaning - PLEXIGLAS SOUNDSTOP® has a very smooth surface which shows no alternation for many years due to its excellent weather resistance. This means that the sheets are usually adequately cleaned by the rain. Should more intensive cleaning be necessary, the sheets can be washed with water to which some surfactant has been added. The most economical way of doing so is by using high-pressure cleaning equipment.

Graffiti - Spray paints can be removed from PLEXIGLAS SOUNDSTOP®. We recommend softening the graffiti with a water-soluble paint thinner and then washing it off with plenty of water.

Recycling - Extruded PLEXIGLAS SOUNDSTOP® can be reground, repelletised and finally reintroduced into the extrusion process. Generally speaking, all grades of PLEXIGLAS SOUNDSTOP® can be chemically broken down into the starting material, methyl methacrylate, and fed back into the production cycle.



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