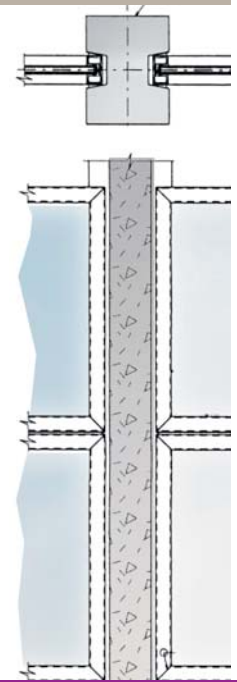




Transparent Noise Barriers



PARAGLAS SOUNDSTOP® Ready-Fit™ Panels

The adaptable transparent noise barrier

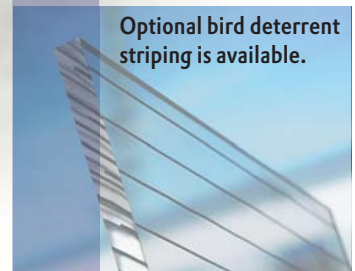
- Transparent PARAGLAS SOUNDSTOP® noise barrier sheet panels.
- Complete frame and panel assembly for an “off-the-shelf” turnkey-solution.
- Compatible with all steel and/or concrete H-posts and/or H-columns.
- Easily inserted where needed in a standard sound wall.
- Use alone or in combination with non-transparent panels.
- Industry leading 30 year warranty against yellowing.
- No cleaning required; rain will clean transparent panels of common road dirt, sand and de-icing agents.
- Light weight. Large panels can be used to reduce cost and enhance aesthetics.
- Excellent sound insulation properties.
- Meets or exceeds applicable FHWA and AASHTO guidelines.
- Graffiti is removed quickly and easily with approved cleaners.
- Wide range of options, at competitive prices, for today’s busy highways.
- Resistant to typical glass etching compounds.



Product offering

Panels are made to size up to 20 feet long and up to 8 feet high. Panels may be stacked to achieve transparent sections higher than 8’ and may be used in combination with non-transparent panels.

Optional bird deterrent striping is available.



Chemical Resistance

Chemicals	Code	Chemicals	Code
Acetone	N	Hexane	R
Ammonium Chloride	R	Hydrochloric Acid	R
Ammonium Hydroxide (Conc.)	R	Ice Ban® Ultra™ M	R
Aromatic Based Graffiti Removers	N	Isopropyl Alcohol	LR
Battery Acid	R	Kerosene	R
Benzene	N	Lacquer Thinner	N
Butyl Acetate	N	Magnesium Chloride	R
Calcium Chloride (100%)	R	Methyl Alcohol (30%)	LR
Calcium Hypochlorite	R	Methyl Alcohol (100%)	N
Calcium / Magnesium Acetate	R	Methyl Ethyl Ketone (MEK)	N
Citric acid (20%)	R	Methylene Chloride	N
CMAK (Potassium Acetate/Calcium Magnesium acetate)	R	Potassium Acetate	R
Diesel Oil	R	Sodium Acetate	R
Ethyl Alcohol (30%)	LR	Sulphuric Acid (3%)	R
Ethyl Alcohol (95%)	N	Sulphuric Acid (30%)	R
Ethylene Glycol	R	Sulphuric Acid (Conc.)	N
Gasoline	LR	Toluene	N
Heptane	R		

The table above gives an indication of the chemical resistance of PARAGLAS SOUNDSTOP sheet and PARAGLAS SOUNDSTOP GS CC sheet. Plastic materials can be attacked by chemicals in several ways. The methods of fabrication and/or conditions of exposure of PARAGLAS SOUNDSTOP sheet, as well as the manner in which the chemicals are applied, can influence the final results even for "R" coded chemicals. Some of these factors include:

Fabrication - stress generated while sawing, sanding, machining, drilling, and/or forming.

Exposure - length of exposure, stresses induced during the life of the product due to various loads, changes in temperatures, etc.

Application of Chemicals - by contact, rubbing, wiping, spraying, etc.

The table should be used as only a general guide and, in case of doubt, it should be supplemented by tests made under actual working conditions. The codes used to describe chemical resistance are as follow:

R = Resistant PARAGLAS SOUNDSTOP sheet withstands this substance for long periods and at temperatures up to 120°F (49°C).

LR = Limited Resistance PARAGLAS SOUNDSTOP sheet only resists the action of this substances for short periods at room temperatures. The resistance for a particular application must be determined.

N = Not Resistant PARAGLAS SOUNDSTOP sheet is not resistant to this substance. It is either swelled, attacked, dissolved or damaged in some manner.

Physical Properties

Property	Test Method	PARAGLAS SOUNDSTOP sheet (a)	PARAGLAS SOUNDSTOP GS CC sheet (b)
Mechanical			
Specific Gravity	ASTM D-792	1.19	1.19
Tensile Strength	ASTM D-638	10,000 psi (69 MPa)	10,000 psi (69 MPa)
Elongation at Break (%)		4.5	4.8
Modulus of Elasticity		400,000 psi (2800 MPa)	400,000 psi (2800 MPa)
Flexural Strength	ASTM D-790	17,000 psi (117 MPa)	16,500 psi (114 MPa)
Modulus of Elasticity		480,000 psi (3300 MPa)	475,000 psi (3300 MPa)
Compressive Strength (Yield)	ASTM D-695	17,000 psi (117 MPa)	18,000 psi (124 MPa)
Resistance Against Stone Projectiles (15 mm thickness)	EN 1794-1	Pass	Pass
Unnotched Charpy Impact	ASTM D-4812	6.5 ft-lbs/in ²	6.5 ft-lbs/in ²
Weathered 5 years AZ		6.5 ft-lbs/in ²	6.5 ft-lbs/in ²
-5°F		6.5 ft-lbs/in ²	6.5 ft-lbs/in ²
Optical (Colorless)			
Refractive Index	ASTM D-542	1.49	1.49
Light Transmission, Total	ASTM D-1003	92%	92%
Weathered 5 years AZ		92%	92%
Haze	ASTM D-1003	1%	1%
Weathered 5 years AZ		1.5%	1.5%
Yellowness Index	ASTM E-313	< 1	< 1
Weathered 5 years AZ		1.5	1.5
Thermal Properties			
Resistance to Brushfire (15 mm thickness)	EN 1794-2	Class 2	Class 2
Deflection Temperature under load, 264 psi	ASTM D-648	195 °F (91 °C)	210 °F (99 °C)
Co-efficient of Linear Expansion	ASTM D-696	0.000040 in/in/°F (0.072 mm/m °C)	0.000040 in/in/°F (0.072 mm/m °C)
Vicat Softening Temperature	ASTM D-1525	220 °F (105 °C)	239 °F (115 °C)
Flammability, Burning Rate (15 mm thickness)	ASTM D-635	0.6 in/min (14 mm/min)	0.8 in/min (20 mm/min)
Self Ignition Temperature	ASTM D-1929	850 °F (455 °C)	910 °F (490 °C)
Smoke Density Rating (15 mm thickness)	ASTM D- 2843	20%	20%
Service Temperature		>160 °F (71 °C)	>180 °F (82 °C)
Sound Transmission Loss			
	ASTM E-90	15 mm 32 dB	15 mm 32 dB
		20 mm 34 dB	20 mm 34 dB
		25 mm 36 dB	25 mm 36 dB
Weight per Square Foot			
	15 mm Thickness	3.66 lb/ft ² (17.9 Kg/m ²)	3.66 lb/ft ² (17.9 Kg/m ²)
	20 mm Thickness	4.86 lb/ft ² (23.8 Kg/m ²)	4.86 lb/ft ² (23.8 Kg/m ²)
	25 mm Thickness	6.1 lb/ft ² (29.8 Kg/m ²)	6.1 lb/ft ² (29.8 Kg/m ²)

(a) Typical values; should not be used for specification purposes. (b) Values shown are for 0.250" (6 mm) thickness unless noted otherwise. Some values will change with thickness.

This information and all further technical advice are based on Evonik Degussa's present knowledge and experience. However, Evonik Degussa assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, Evonik Degussa disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. EVONIK DEGUSSA SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. Evonik Degussa reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

© 2008 CYRO Industries. All rights reserved. Printed in USA.

