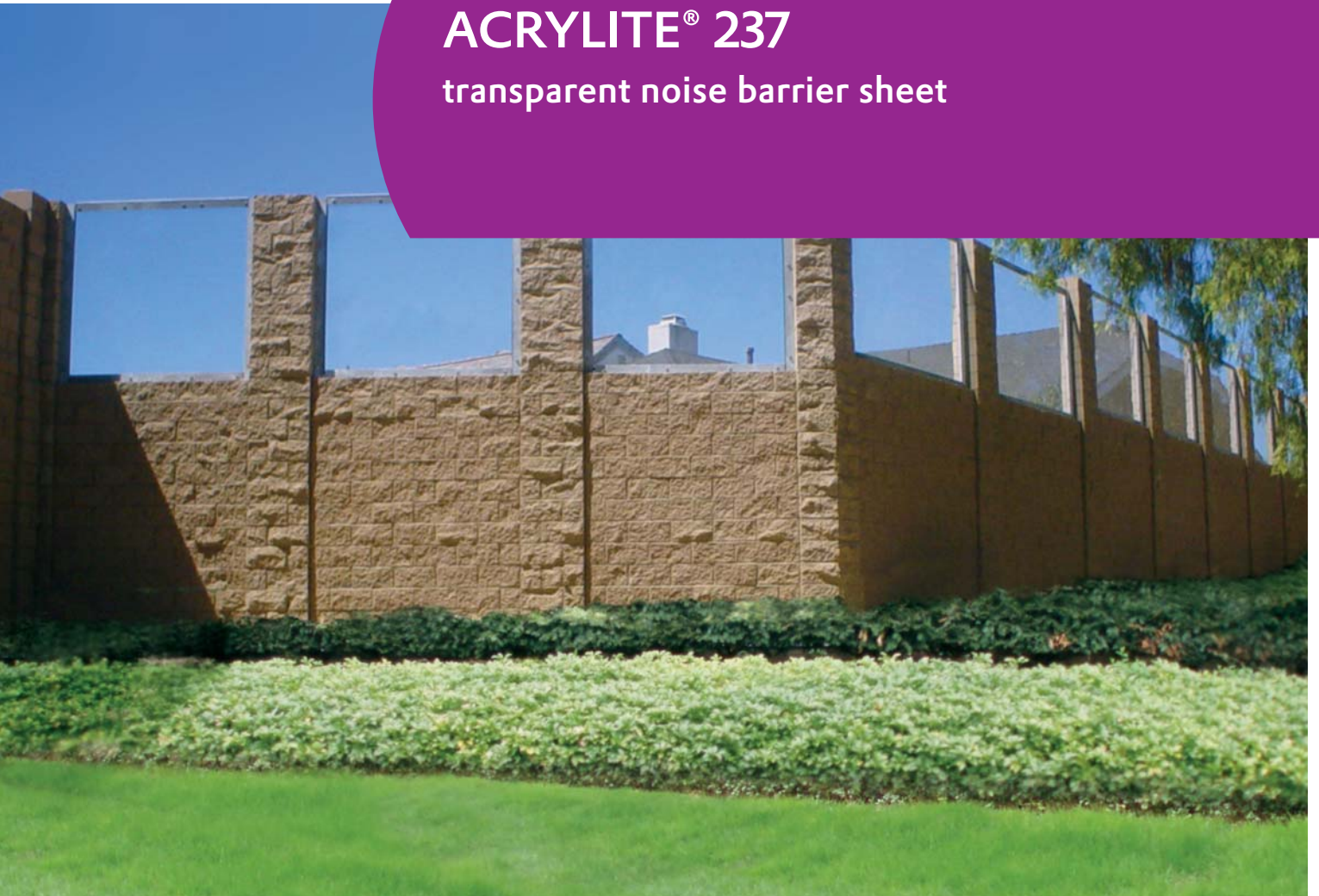


**ACRYLITE® 237**  
transparent noise barrier sheet



# ACRYLITE® 237

## transparent noise barrier sheet



Noise barrier sheet products have been successfully used in transparent noise barriers along roads and railroads around the world for almost 30 years. Easy to form and fabricate, ACRYLITE 237 sheet is extremely resistant to weathering from UV exposure and retains clarity and strength for many years.

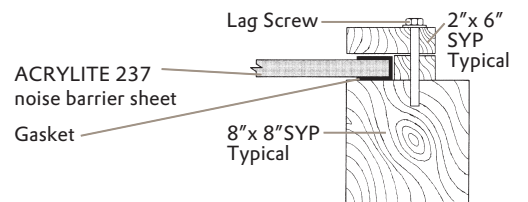
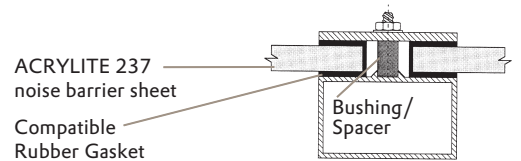
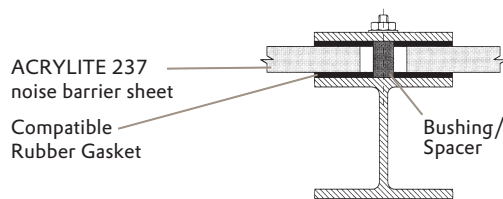
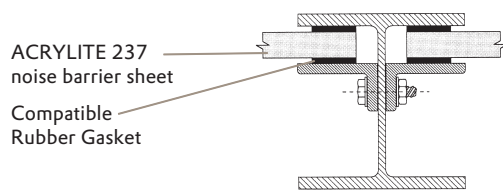
### Transparent ACRYLITE® 237 noise barrier sheet products

- extremely resistant to weathering
- retains clarity outdoors
- maintenance free
- superior light transmission
- ultralight - minimal deadload on structure
- highly resistant to wind loads
- simple to install
- compatible with other sound wall materials
- easy to form and fabricate
- aesthetically appealing
- meets FHWA and AASHTO guidelines for the design and construction of noise barriers
- can be returned to us and recycled
- complement LEED green building rating system



### Framing System Options

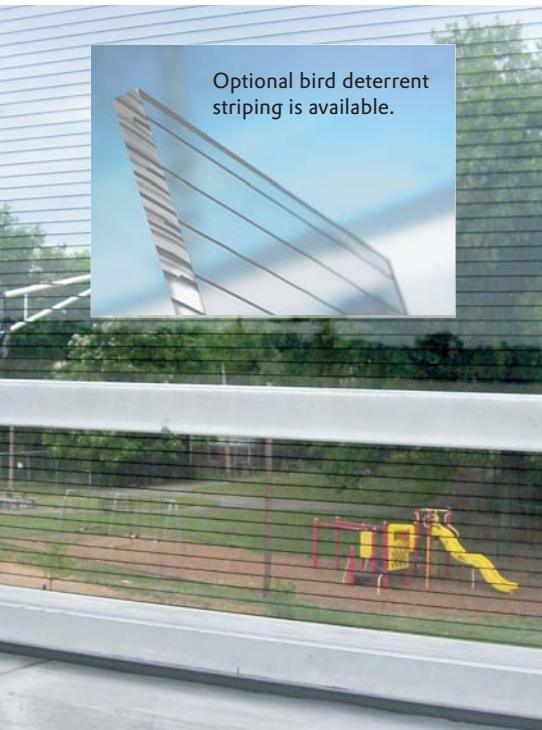
Designers can easily adapt ACRYLITE 237 sheet to almost any design. These framing system options work well with ACRYLITE 237 sheet.





Physical Properties	Test Method	ACRYLITE 237 noise barrier sheet
<b>Mechanical</b>		
Specific Gravity	ASTM D-792	1.19
Tensile Strength	ASTM D-638	10,000 psi (69 MPa)
Elongation at Break (%)		4.5
Modulus of Elasticity		400,000 psi (2800 MPa)
Flexural Strength	ASTM D-790	17,000 psi (117 MPa)
Modulus of Elasticity		480,000 psi (3300 MPa)
Compressive Strength (Yield)	ASTM D-695	17,000 psi (117 MPa)
<b>Optical (Colorless)</b>		
Refractive Index	ASTM D-542	1.49
Light Transmission, Total	ASTM D-1003	92%
Weathered 5 years AZ		92%
Haze	ASTM D-1003	1%
Weathered 5 years AZ		1.5%
Yellowness Index	ASTM E-313	< 1
Weathered 5 years AZ		1.5
<b>Thermal Properties</b>		
Deflection Temperature under load, 264 psi	ASTM D-648	195 °F (91 °C)
Co-efficient of Linear Expansion	ASTM D-696	0.000040 in./in./ °F (0.072 mm/m °C)
Vicat Softening Temperature	ASTM D-1525	220 °F (105 °C)
Service Temperature (maximum)	–	160 °F (71 °C)
Sound Transmission Loss	ASTM E-90	15 mm 32 dB 20 mm 34 dB 25 mm 36 dB
Weight per Square Foot	15 mm Thickness 20 mm Thickness 25 mm Thickness	3.66 lb/ft <sup>2</sup> (17.9 Kg/m <sup>2</sup> ) 4.86 lb/ft <sup>2</sup> (23.8 Kg/m <sup>2</sup> ) 6.1 lb/ft <sup>2</sup> (29.8 Kg/m <sup>2</sup> )

Typical values: should not be used for specification purposes. Some values will change with thickness.



**ACRYLITE 237 noise barrier sheet is available in the following standard colors**

*The color impression remains the same in different thicknesses. Other colors can be manufactured upon request.*

Colorless	Clear	
Shades of blue	Midnight Blue	
	Steel Blue	
	Sky Blue	
Shades of green	Forest Green	
	Sea Green	
	Spring Green	
Shade of brown	Smoky Brown	

**Product Offering**

ACRYLITE 237 sheet is a standard, lightweight noise barrier.

**Gaskets**

We offer EPDM gaskets compatible with our material for installing ACRYLITE 237 sheet.

**Service**

- Cut-to-size sheet
- Surface-treated sheet (e.g., with matte stripes)
- Line-bent and/or thermoformed
- Hands-on technical support

<b>Size</b>	width:	up to 96"
	length:	up to 20' long
Large sheet sizes available on request		

<b>Thickness</b>	12 mm
	15 mm
	20 mm
	25 mm

<b>On Request</b>	<ul style="list-style-type: none"> <li>• other transparent colors</li> <li>• ACRYLITE 237 sheet can be provided with various functional surfaces for specific applications</li> </ul>
-------------------	---

<b>Processing</b>	<ul style="list-style-type: none"> <li>• rectangular and non-rectangular cuts, hole drilling</li> <li>• full size thermoforming and line bendings on request</li> <li>• non-rectangular cuts of oversized sheets on request</li> </ul>
-------------------	--

**Important Notice:**

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

Evonik Cyro LLC is an Evonik Degussa Corporation group company. ACRYLITE® is a registered trademark of Evonik Cyro LLC. ©2010 Evonik Cyro LLC. All Rights Reserved.



**Evonik Cyro LLC**

379 Interpace Parkway  
Parsippany, NJ 07054 USA

PHONE +1 800 631-5384  
+1 973 541-8000

[paraglas@evonik.com](mailto:paraglas@evonik.com)

[www.paraglassoundstop.com](http://www.paraglassoundstop.com)

[www.acrylite-shop.com](http://www.acrylite-shop.com)

[www.evonik.com](http://www.evonik.com)

**Evonik. Power to create.**