

## TECHNICAL INFORMATION

# ACRYLITE® Soundstop SilentView

## Transparent Noise Absorbing System

### Product

ACRYLITE® Soundstop SilentView is a transparent noise absorbing system consisting of an aluminum frame and a 30° angled transparent ACRYLITE® Soundstop sheet. This innovative design allows incoming noise to be reflected upward towards the horizontal noise absorbing part of the element. ACRYLITE® Soundstop SilentView is suitable for highways, high speed railways, and any other noise barrier installation.



This newly developed system perfectly combines the desired transparency with the absorbing properties of a noise protection element. ACRYLITE® Soundstop SilentView is the only element worldwide which also complies with the new acoustic standards outlined in EN 1793-5 and EN 1793-6 “Road Traffic Noise reducing devices – test method for determining the acoustic performance using in situ values of sound reflection (1793-5) and airborne sound insulation (1793-6) under direct sound field conditions.”

While focused on new Noise Barrier installations, ACRYLITE® Soundstop SilentView is ideal for replacing old, unsightly, or defective elements quite easily. The existing infrastructure, including posts, can be re-used in various dimensions and distances so that no additional construction costs are incurred.

### Benefits

- Transparent and absorptive
- Can be combined with other traditional noise barrier systems
- Easily used to retrofit an existing noise barrier system
- Mounted flush with the noise barrier wall on the absorption side
- No special equipment required for installation, simple drop-in panel design

### Possible Installation Locations

- Highway noise barrier
- Alongside railways
- As a full noise wall or a complement to open up “windows” in a standard opaque absorbing wall

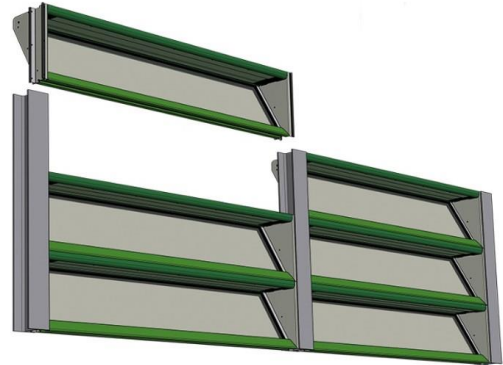
### Product Offering

Both aluminum components and acrylic sheet are available in numerous standard colors. Custom colors are available upon request.



## Specifications

- Fixed panel segment height of 500mm (20")
- Panel lengths / post distance up to 5m (16.5 ft) possible
- Max height of 8m (26ft)
- NRC of 0.70 as tested in accordance with ASTM C423
- Complies with the new acoustical standards outlined in EN 1793-5
- The overhang (angled section) is always opposite the absorption side
- Installation is made easy due to a tongue and groove design
- Can be used with existing barriers by simply removing existing elements and utilizing existing posts
- Easily adaptable to post profiles from W5 to W8
- ACRYLITE® Soundstop sheet used
  - Thickness of 12mm, 15mm, or 20mm
  - Various product choices: GS, GS CC, XT, or XT w/ Bird Guard
- Total system weight is approximately 35-45 kg/m<sup>2</sup> (7-9 lb/ft<sup>2</sup>)



## Sound Absorption Properties

## Test Standard

## ACRYLITE® Soundstop SilentView

Sound Absorption, DL <sub>α</sub> Under Diffuse Sound Field Conditions in a Reverberant Room	EN 1793-1	4 dB – Category A2
Sound Insulation, DL <sub>R</sub> Under Diffuse Sound Field Conditions in a Reverberant Room	EN 1793-2	27 dB – Category B3
Sound Reflection, DL <sub>RI</sub> Under Direct Sound Field Conditions	EN 1793-5	3 dB
Sound Insulation, DL <sub>SI</sub> Under Direct Sound Field Conditions	EN 1793-6	29 dB
NRC Value	ASTM C423	0.70

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.

Röhm is a worldwide manufacturer of PMMA products sold under the ACRYLITE® trademark in the Americas and under the PLEXIGLAS® trademark in the European, Asian, African, and Australian continents. ©Roehm America, LLC. All rights reserved.

Printed in the USA.

Roehm America, LLC  
1796 Main Street, Sanford, ME 04037 US  
Phone +1 855 202 7467  
www.acrylite.co