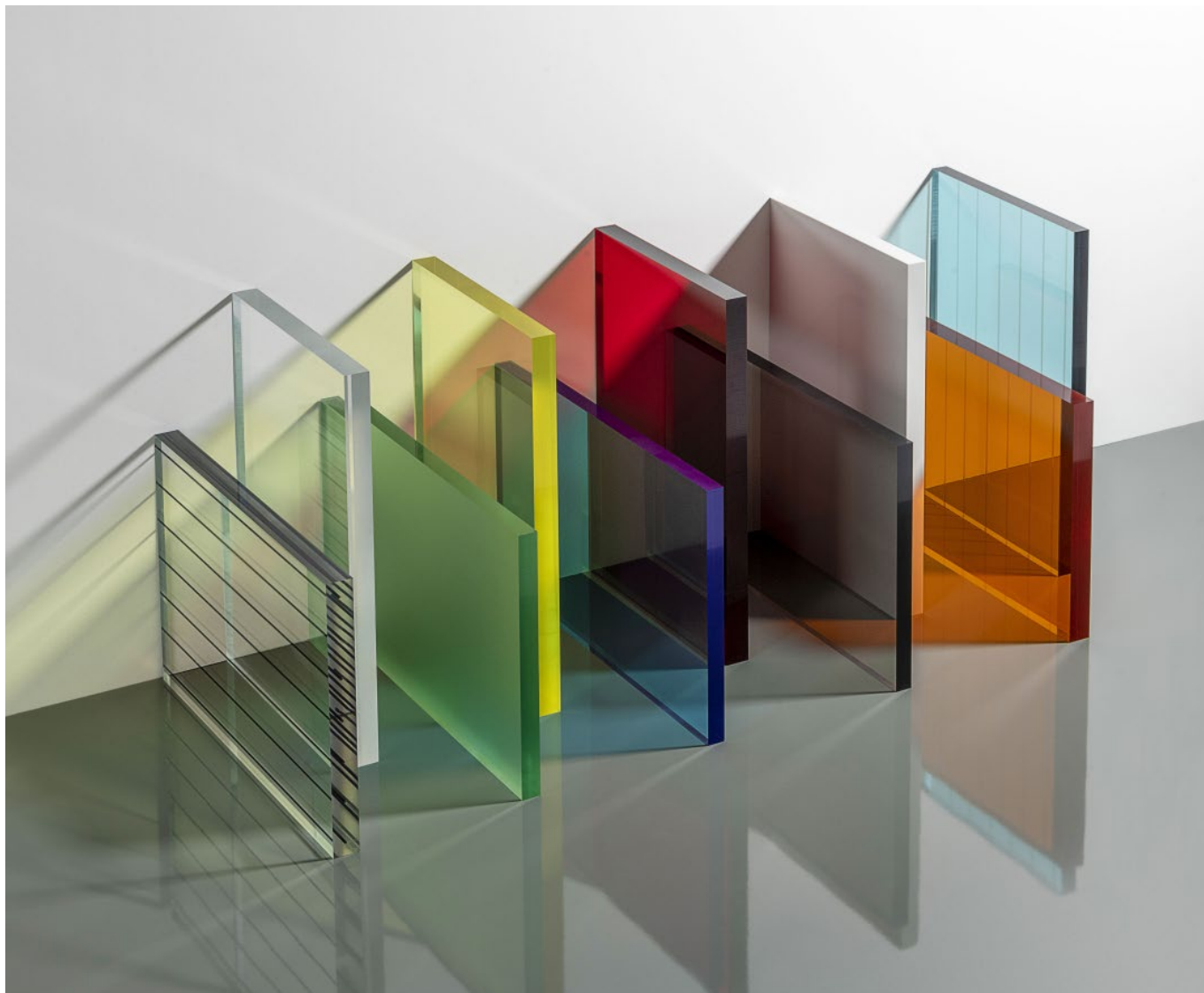


**PLEXIGLAS®**

**PLEXIGLAS®**  
Soundstop SilentView



**POLYVANTIS**



# PLEXIGLAS® Soundstop SilentView

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

This newly developed system perfectly combines the desired transparency with the absorbing properties of a noise protection element. PLEXIGLAS® 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, PLEXIGLAS® Soundstop SilentView is ideal for replacing old, unsightly, or defective elements quite easily. The existing infrastructure can be re-used without additional construction costs.



Watch the video PLEXIGLAS® Soundstop SilentView on YouTube:  
<https://www.youtube.com/watch?v=fD95wdyiPsY>

## Benefits

- Transparent and sound absorptive at the same time
- 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

## Installation

- Highway Noise Barrier
- Alongside railways
- As a full noise wall or as a complement to open up “windows” in a standard opaque absorbing wall
- Up to 32 elements can be transported in a typical truck cross section

## Design details

- Fixed panel segment height of 500 mm
- Post distance up to 5 m possible
- 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 HE 160 up to HE 240
- PLEXIGLAS® Soundstop sheet with a thickness of 15 mm or 20 mm
- Various sheet choices:  
 PLEXIGLAS® GS CC for secondary safety,  
 PLEXIGLAS® XT BirdGuard for bird protection
- Total system weight of approximately 42-48 kg/m<sup>2</sup>
- Compliant to EN 14388

## Properties of PLEXIGLAS® Soundstop SilentView

Technical Data			
Element height	500 mm		
Element length	up to 5000 mm		
Sheet thickness	15 mm or 20mm		
Acoustic properties	XT Bird Guard	GS CC	Test method
Sound absorption $DL_a$	4 dB (A2)	4 dB (A2)	EN 1793-1
Sound reflection $DL_{Rl}$	3 dB	3 dB	EN 1793-5
Sound reflection $DL_{Rl}$	3 dB	3 dB	EN 16272-5
Sound insulation $DL_R$	27 dB (B3)	27 dB (B3)	EN 1793-2
Sound insulation $DL_{si,G}$	32 dB (D3)	32 dB (D3)	EN 1793-6
Sound insulation $DL_{si,G}$	35 dB	35 dB	EN 16272-6
Nonacoustic properties	XT Bird Guard	GS CC	Test method
Fire resistance	Class 3	Class 3	EN 1794-2:2011
Secondary safety	Class 2	Class 4	EN 1794-2:2011
Stone impact	Fulfilled	Fulfilled	EN 1794-1:2011





**Picture above:**  
PLEXIGLAS® Soundstop  
SilentView for rail road  
applications.



**Pictures left:**  
PLEXIGLAS® Soundstop  
SilentView for road  
applications, easy to  
install and retrofit.



### Various colors within PLEXIGLAS® Soundstop acrylic sheets

Colorange of PLEXIGLAS® Soundstop			
Transparent	Transparent Blue	Transparent Green	Transparent Brown
Clear	Midnight Blue	Danish Green	Smoky Brown
	Steel Blue	Forest Green	
	Sky Blue	Sea Green	
	Sapphire	Spring Green	
		Emerald	
Transparent Orange	Transparent Red	Transparent Violet	Transparent Yellow
Topaz	Ruby	Amethyst	Citrine
Opaque	Opaque Grey		
	Light Grey		
	Stone Grey		

### Diverse colors available for the frame

Colorange for the frame									
RAL 1000	RAL 3007	RAL 5000	RAL 5012	RAL 6000	RAL 6016	RAL 7000	RAL 7024	RAL 8000	RAL 8022
RAL 1001	RAL 3009	RAL 5001	RAL 5013	RAL 6003	RAL 6019	RAL 7001	RAL 7026	RAL 8001	RAL 8023
RAL 1002	RAL 3012	RAL 5002	RAL 5014	RAL 6004	RAL 6020	RAL 7002	RAL 7030	RAL 8002	RAL 8024
RAL 1011	RAL 3014	RAL 5003	RAL 5015	RAL 6005	RAL 6021	RAL 7003	RAL 7031	RAL 8003	RAL 8025
RAL 1013	RAL 3015	RAL 5004	RAL 5017	RAL 6006	RAL 6022	RAL 7004	RAL 7032	RAL 8004	RAL 8028
RAL 1014	RAL 3017	RAL 5005	RAL 5018	RAL 6007	RAL 6024	RAL 7005	RAL 7033	RAL 8007	RAL 9001
RAL 1015	RAL 4001	RAL 5007	RAL 5019	RAL 6008	RAL 6025	RAL 7006	RAL 7034	RAL 8008	RAL 9002
RAL 1019	RAL 4002	RAL 5008	RAL 5020	RAL 6011	RAL 6026	RAL 7008	RAL 7035	RAL 8011	RAL 9003
RAL 1020	RAL 4003	RAL 5009	RAL 5021	RAL 6012	RAL 6027	RAL 7009	RAL 7036	RAL 8012	RAL 9004
RAL 1024	RAL 4005	RAL 5010	RAL 5023	RAL 6013	RAL 6028	RAL 7010	RAL 7037	RAL 8014	RAL 9005
	RAL 4009	RAL 5011	RAL 5024	RAL 6014	RAL 6032	RAL 7011	RAL 7038	RAL 8015	RAL 9010
				RAL 6015	RAL 6033	RAL 7012	RAL 7039	RAL 8016	RAL 9011
					RAL 6034	RAL 7013	RAL 7040	RAL 8017	RAL 9016
						RAL 7015	RAL 7042	RAL 8019	RAL 9017
						RAL 7016	RAL 7043		RAL 9018
						RAL 7021	RAL 7044		
						RAL 7022	RAL 7045		

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® = registered trademark

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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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**Ref. no. 612-1** 04/24 (en)