



Noise Barriers

Effective Noise Control Solutions



Innovative Customizable & Cost Effective

Functional Designs:
Absorptive and Isolation Barrier Types

- Quality and physical durability: Made in Korea materials
- Easy and rapid installation using H beam supports
- Stack and lock panel design for durability and minimal sound leakage
- Wide range of panel types for various applications: Subways, high speed rails, highways, turbine engine housing
- Combinable panel types, customizable solutions to simultaneously provide noise control and maintain visibility and natural light
- Aesthetically pleasing designs to harmonize with the surrounding environment
- Tested performance by Korea Laboratory Accreditation Scheme
- K Standard certified - British Standard CEN 10 equivalent grades available



SHINSUNG CONTROL Co., Ltd
ISO 9001 COMPANY

Absorptive Noise Barriers

Product Features

All SSC's standard absorptive noise barriers are designed with a 0.6T -1.0T aluminum or zinc plated steel casing for optimal rust prevention. Material and sizes are available upon client specifications. Barrier structures are assembled with using rivets, allowing maximum durability and weather resistance. All SSC's noise barriers may be powder coated in any desired color, to add additional rust prevention and harmonize with the surrounding environment.

Product Specifications

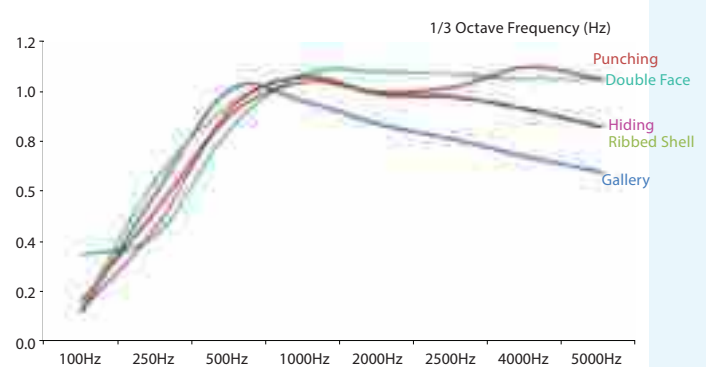
Length (mm)	Width (mm)	Thickness (mm)
1960 / 2960 / 3960 / 400-5000	500	95-125T

(Absorptive Material: Glass wool or polyester)

Tested Performance

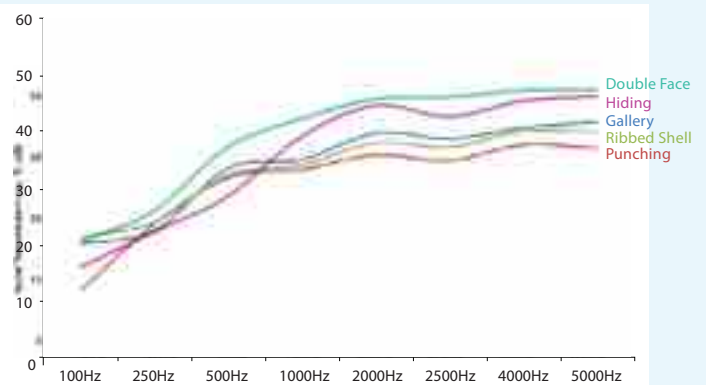
Noise Reduction coefficient

	(NRC 0.85 ↑ ,1 Grade)								
	100hz	250hz	500hz	1000hz	2000hz	2500hz	4000hz	5000hz	NRC
Gallery	0.13	0.60	1.01	0.96	0.87	0.81	0.74	0.68	0.86
Punching	0.17	0.53	0.91	1.04	1.00	1.02	1.10	1.05	0.87
Ribbed Shell	0.14	0.65	0.95	1.06	0.99	0.98	0.93	0.86	0.91
Double Face	0.35	0.43	0.85	1.07	1.08	1.07	1.05	1.05	0.86
Hiding	0.13	0.46	0.93	1.06	0.99	0.98	0.93	0.86	0.86



Transmission Loss

	(Grade: 500Hz : 25 ↑ 1000Hz : 30 ↑)							
	100hz	250hz	500hz	1000hz	2000hz	2500hz	4000hz	5000hz
Gallery	20.3	22.6	33.6	35.1	39.8	38.8	40.7	41.7
Punching	12.2	23.9	32.0	33.4	36.0	35.0	37.8	37.2
Ribbed Shell	21.6	24.2	32.5	34.2	38.1	37.3	40.1	40.0
Double Face	20.8	26.3	37.5	42.5	46.0	46.3	47.5	47.6
Hiding	16.3	22.5	28.8	39.4	44.9	42.9	45.7	46.5



Absorptive Noise Barriers

• Gallery Type



- Most commonly used panel type with gallery type holes for a sleek and uniform appearance.
- 1.0T aluminum front and zinc plated steel rear casing.

• Punching Type



- 6mm diameter holes spread 9 mm for maximum noise absorption.
- 0.6T zinc plated steel and additional powder coating to prevent rusting in holes.

• Ribbed Shell Type



- Punching type with 6mm diameter of holes spread 9 mm apart. Ribbed shell design allows for greater surface area and prevents rain entry.
- 0.6T zinc plated steel and additional powder coating to prevent rusting in holes.

• Double Face Type



- Ideal for highway medians, with dual sided holes (gallery/punching type holes available)
- 1.0T aluminum front and zinc plated steel rear casing.

• Hiding Type



- Winged shaped panel end design to completely hide H beam supports for an aesthetically pleasing exterior.
- 1.0T aluminum front and zinc plated steel rear casing.

Absorptive Noise Barriers

• High Speed Railway Noise Barrier CEN10

Product Features

Shinsung Control's High Speed Railway Noise Barrier offers the highest grade of noise control and has performance tested results equivalent to the British Standard CEN 10 criteria. Absorptive material is glass wool 100T. The panels has 6mm diameter holes, 8mm apart, for maximum surface area of sound entry. (10% more holes than SSC's regular punching type panel) Barrier structures are assembled using rivets, allowing maximum durability and weather resistance. 1.0T aluminum front panel and zinc plated steel rear casing. The entire product is covered with an anti oxidizing film, to prevent arsenate iron dust found near railroads.



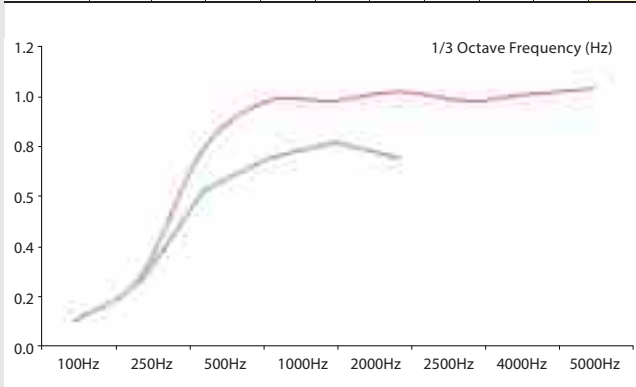
Product Specifications

Length (mm)	Width (mm)	Thickness (mm)
1960 / 2960 / 3960 / 400-5000	500	125T

Tested Performance

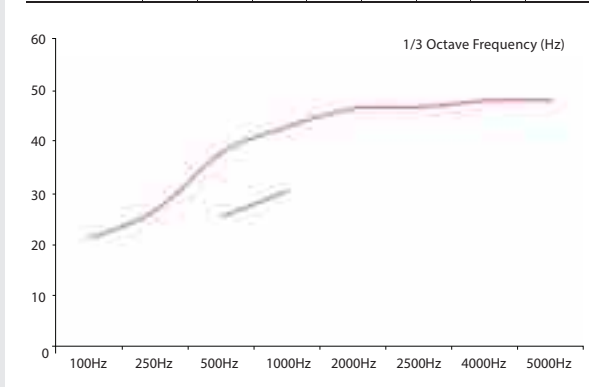
Noise Reduction coefficient

(Grade: High Performance)										
	100hz	125hz	250hz	500hz	1000hz	2000hz	2500hz	4000hz	5000hz	NRC
CEN 10 Spec		0.50	0.80	0.90	0.95	0.90		0.70		
as(dB)	0.38	0.52	0.93	1.08	1.08	1.11	1.08	1.10	1.12	1.05



Transmission Loss

(Grade: High Performance)								
	100hz	250hz	500hz	1000hz	2000hz	2500hz	4000hz	5000hz
CEN 10 Spec			25	30				
TL(dB)	20.8	26.3	37.5	42.5	46.0	46.3	47.5	47.6



Isolation Noise Barrier

Product Features

Shinsung Control's steel isolation noise barriers have been developed as an alternative to noise isolation barriers made from extrusion molding concrete. They are highly recyclable and environmentally friendly. Steel isolation barriers allow for rapid and easy installation, while offering the comparable strength to concrete. Barrier structures are assembled using rivets, allowing maximum durability and weather resistance. SSC's Steel and transparent isolation barriers are almost always used in conjunction, to provide effective sound control without compromising visibility and scenery.

• Steel



- Highly effective and cost competitive alternative to concrete barriers. Absorptive material is paper honey comb which prevents resonance occurring in the air layers.
- 0.6 Zinc plated steel front and rear casing, often powder coated for design and extra rust prevention.

• Transparent



- Aluminum frame and the choice of glass, polycarbonate or PMMA for inner panel.
- Each transparent material offers its own unique advantage. Whether your concerns are weight, strength, discoloration or cost, we have the solution for you.

Product Specifications

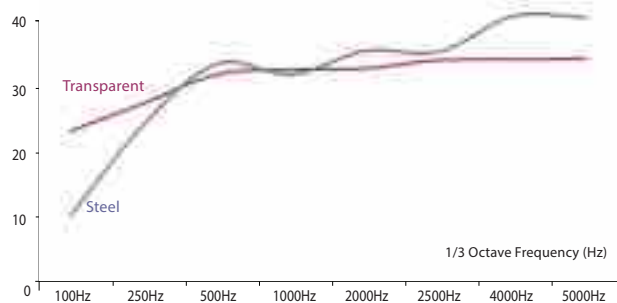
	Length (mm)	Width (mm)	Thickness (mm)
Steel	1960 / 2960 / 3960 / 400-5000	500	95T
Transparent	1960 / 2960 / 3960 / 400-5000	500	60-95T

Tested Performance

Transmission Loss

	100hz	250hz	500hz	1000hz	2000hz	2500hz	4000hz	5000hz
Steel(95t)	9.9	23.6	32.7	31.1	34.6	34.5	39.8	39.6
Transparent(95t)	22.6	26.8	31.1	31.8	32.0	33.2	33.0	35.5

(Grade: 500Hz : 25 ↑ 1000Hz : 30 ↑)



Shinsung Control's Installation Cases



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LH Corporation Busan,
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