

Facade Splitter Silencers

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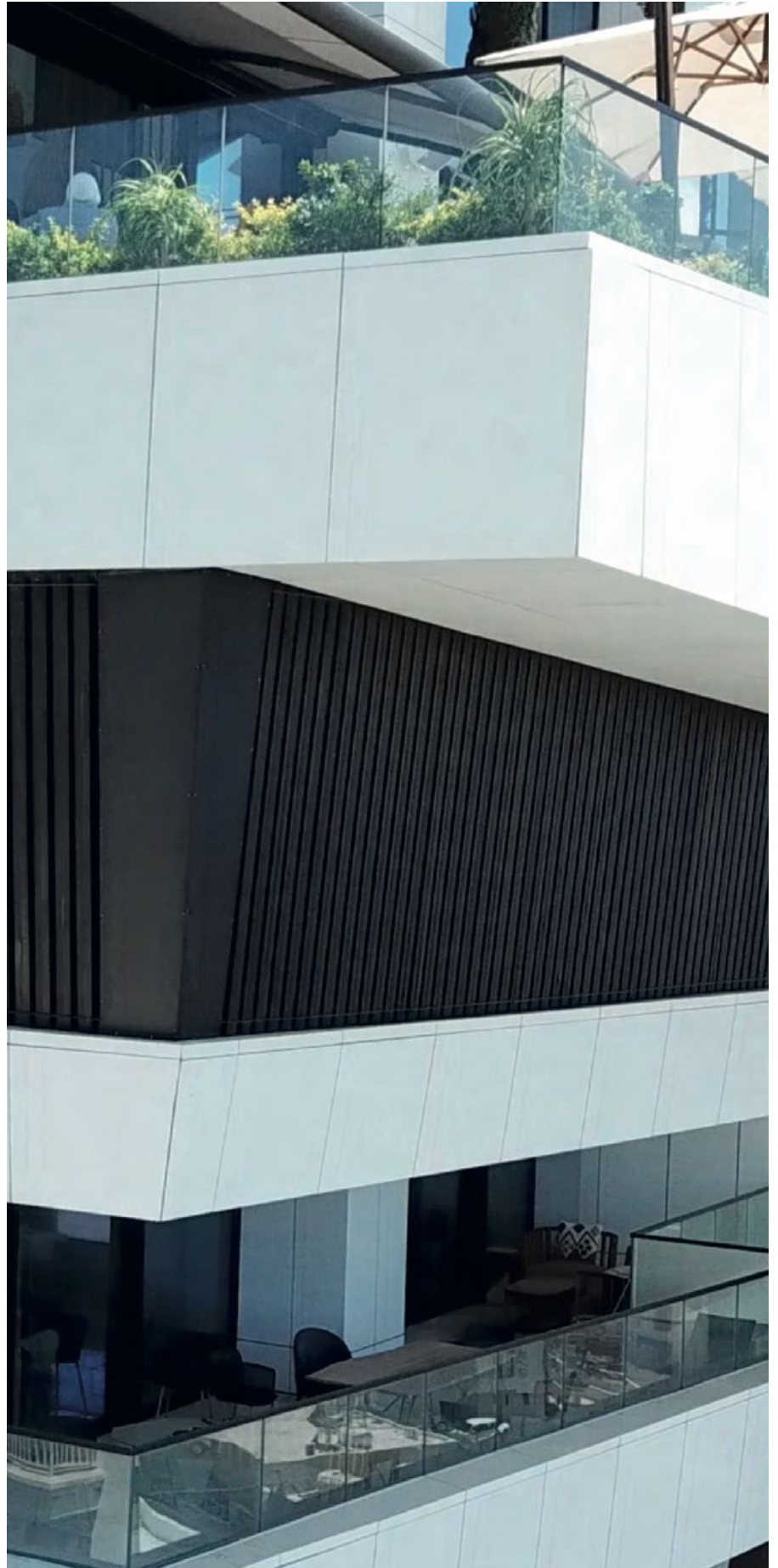
An optimal solution in order to provide both sound attenuation and natural ventilation for plant rooms, mechanical levels and equipment. It is scientifically formed to combine low pressure drop, rain protection and increased sound reduction.

Acoustic Silencer system is a modular design, consisted of custom-made splitter silencers, for all kind of industrial applications and solutions. The special laser cut bracket can be customized to be mounted on existing façade openings or pre-made steel structure.

The system can be used in several applications:

- Mechanical Rooms-Levels
- Generator Rooms
- Roof MEP
- Workshop fresh air Inlets/Outlets

The Splitter Silencer System is made out of aluminum and galvanized steel. The components/parts of the system can be coated for extra strength with electrostatic paint or wet paint, according to the project needs and area of installation. Lastly, a protective hood or wire mesh for birds and insects, can be also installed.



DESIGNING AND INSTALLATION

Apart from being suppliers and manufactures, UNC provide Designing and Installation services.

A specialised team of Acoustic Consultants and an experienced team of Acoustic Materials/systems Installers could carry out an end-to-end service for Acoustic treatment.

PRODUCT AVAILABILITY AND SAMPLES

UNC always have stock of the product and samples of each one of it. Feel free to contact us, in order to setting up a meeting in our showroom.



SPECIFICATIONS



MAINTENANCE

It can be cleaned by using a dust broom, a vacuum cleaner or a hard-wrung cloth.



STRUCTURAL DESIGN

System structural calculations and analysis, as per report, based on CYS and other standards.



TECHNICAL

Technical brochures, materials inspections and specification certificates for each component of the system.



WEATHER-COASTAL CONDITIONS

Appropriate for outdoor weather or coastal conditions.

MATERIAL

STANDARD DIMENSIONS

Height:

2600mm or 1200mm

Depth:

500mm – 600mm

Splitter's width:

100mm

Splitter to splitter gap:

50mm

Facade opening area:

33%

SUPPORTING STRUCTURE

- Supporting structure and brackets-stoppers-clips are made of galvanised steel.
- Steel structure design according to project needs and other consultants' specifications.
- Brackets, stoppers & clips for stability and removal (maintenance) purpose.

COLOUR

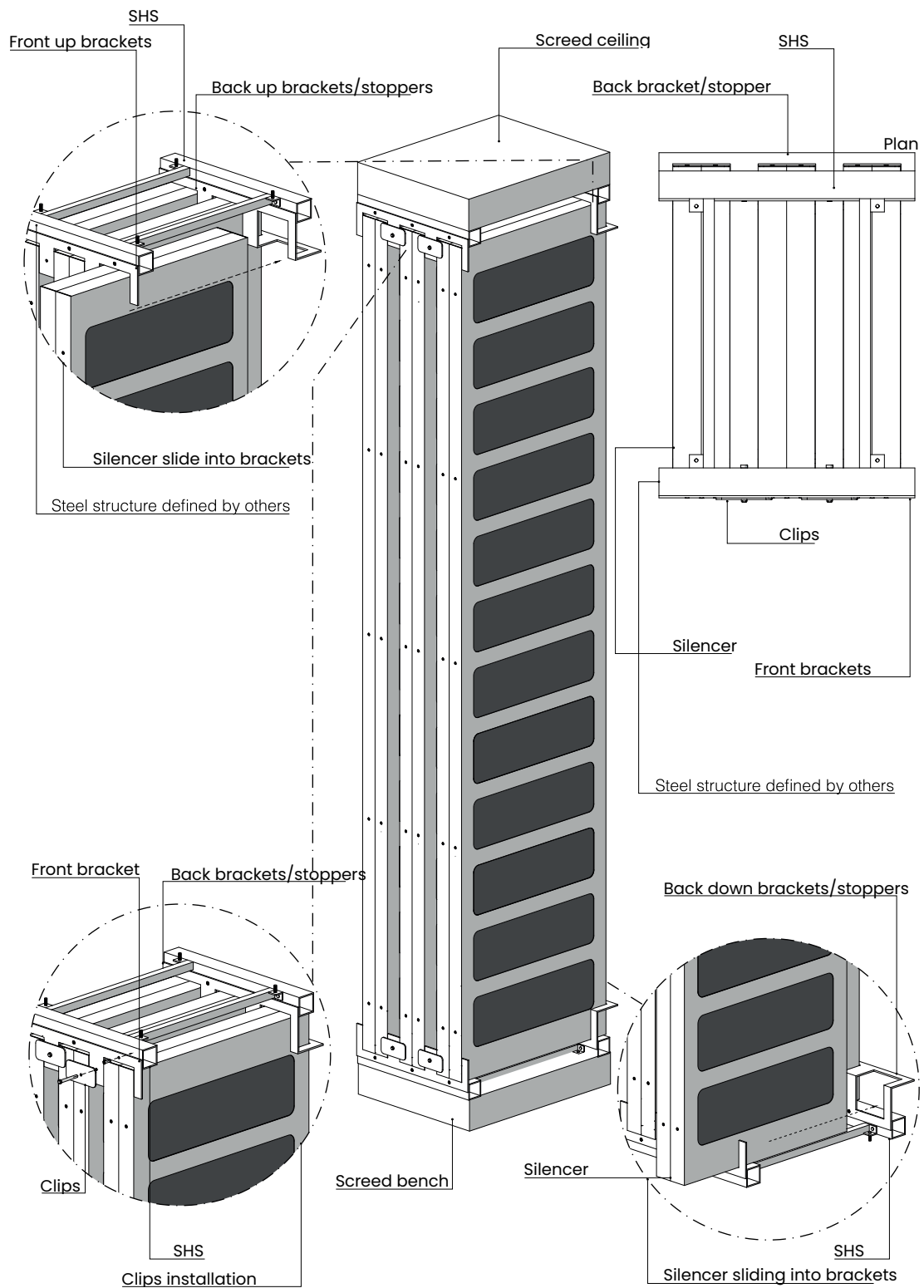
As per client and project needs.

PRESSURE DROP – DIFFERENTIAL PRESSURE

Calculations will be conducted for each case-project,
according to airflow, opening area and other factors/properties.

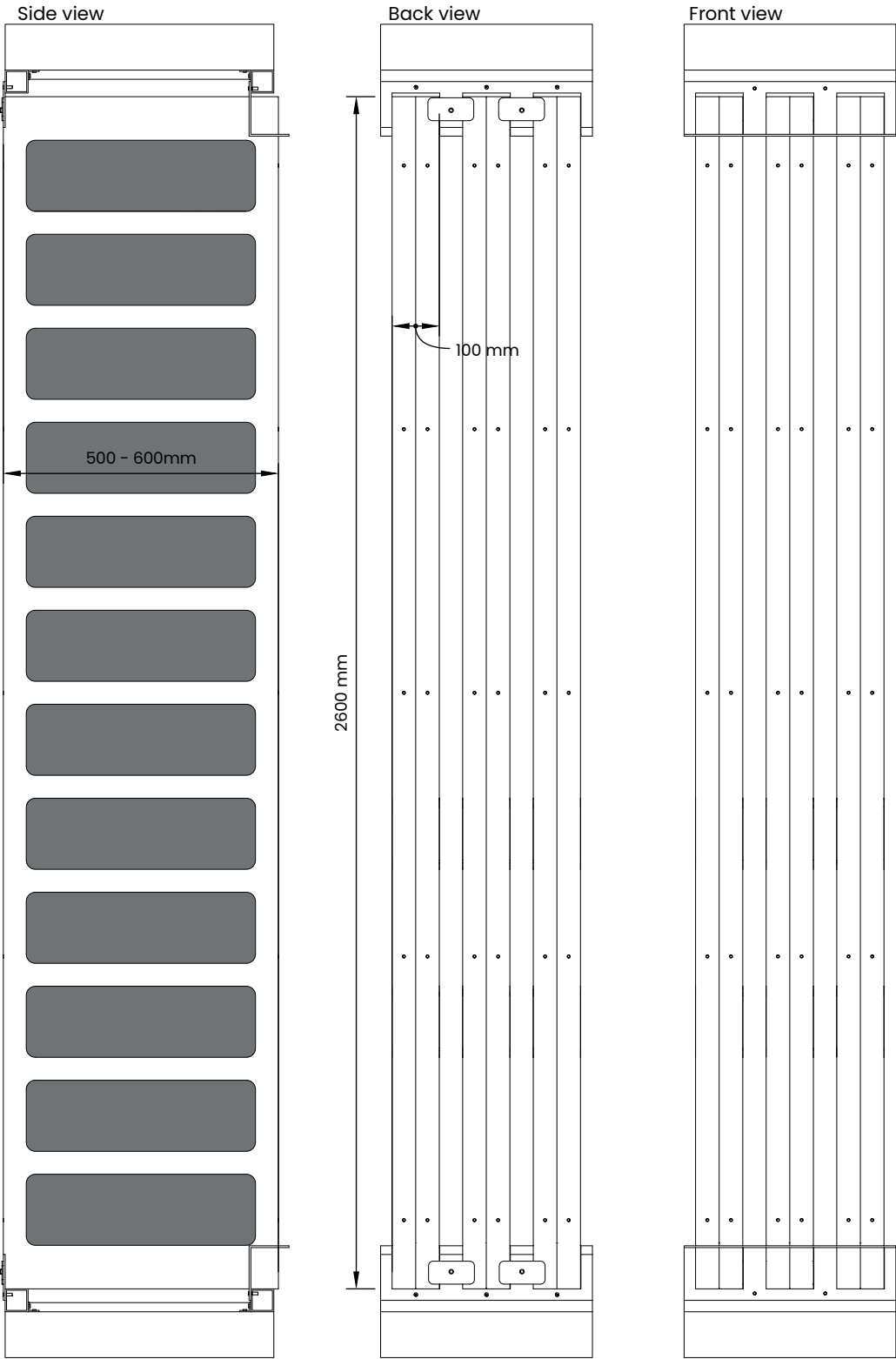


STANDARD
DIMENSIONS
AND TYPES

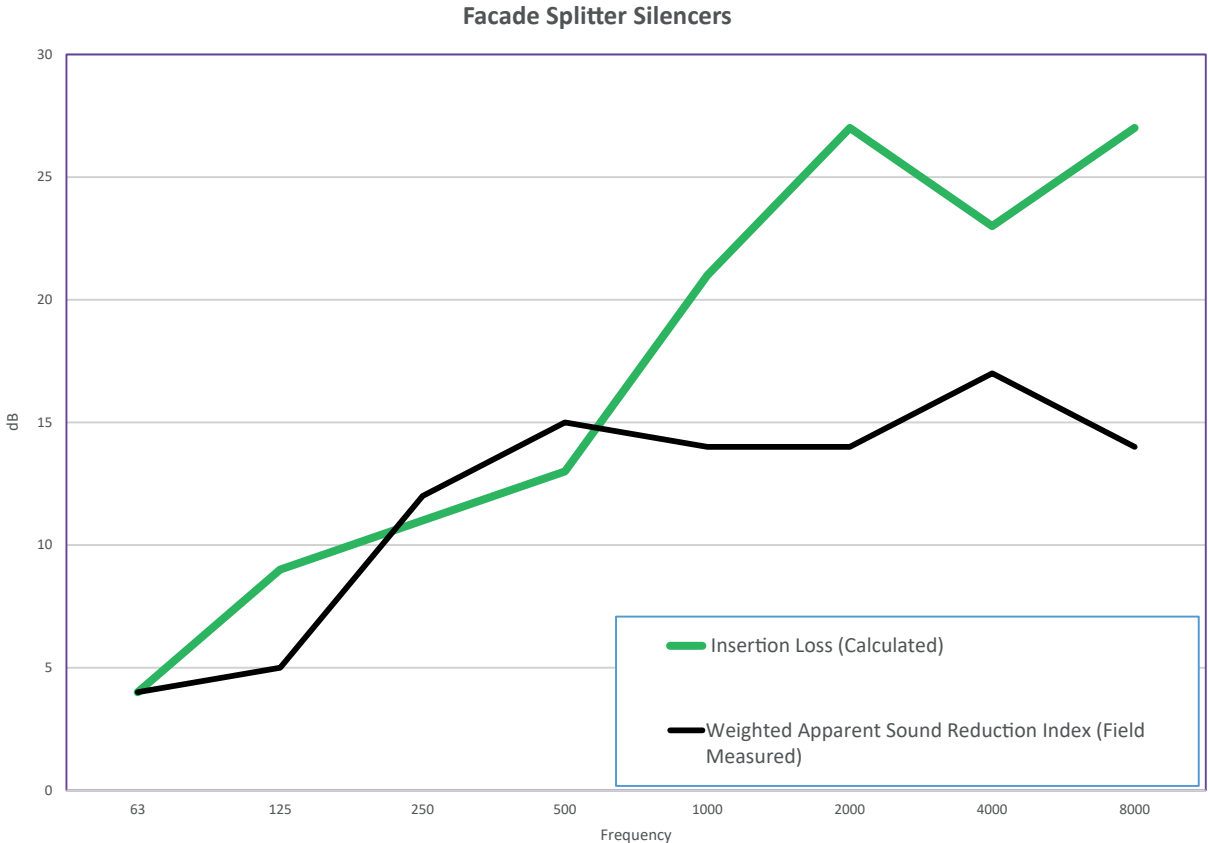




**STANDARD
DIMENSIONS
AND TYPES**



SOUND
ATTENUATION



**SOUND
ATTENUATION**

STANDARD DIMENSIONS H-D-W-G: 2600-600-100-50MM

A. Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Insertion Loss (dB)	4	9	11	13	21	27	23	17

(Based on calculation of specialized acoustic simulation software)

Splitters' width-gap: 100mm-50mm

Airflow: 30 600 m³/h

Differential Pressure: Lower than 5Pa

Airflow velocity in the airway: 2.6m/s

Opening Area: 33%

B. Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Weighted Apparent Sound Reduction Index (dB)	4	5	12	15	14	14	17	14

(Based on field measurements according to ISO 16283-3)

Splitters' width-gap: 50mm

Opening Area: 33%

*Calculations will be conducted for each case-project, according to desired dimensions.



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