



nBarriers

**URBAN
NOISE
CONTROL**

IWMI

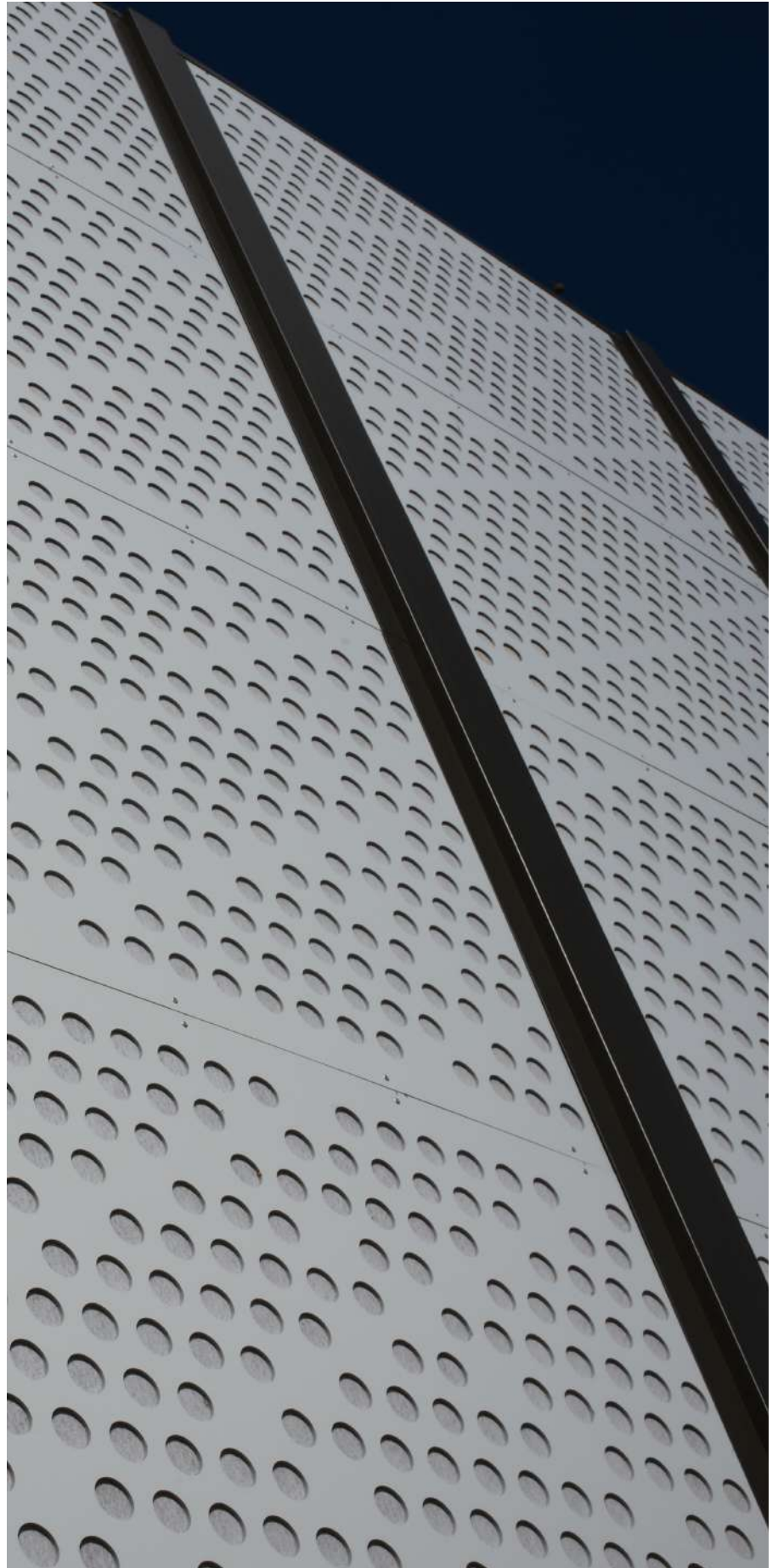
UNC is probably the only one company in Cyprus that, along with supply and manufacturing, provides Designing and Installation, from experienced Acoustic Consultants and Installers respectively. Moreover, UNC has acoustic material in stock and the probably only one in Cyprus, brand-new showroom with exclusively acoustic materials and systems.

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nBarriers

An optimal solution of acoustic barrier for providing both sound attenuation and sound insulation at residential/commercial outdoor areas, terrace/roof with mechanical equipment and others. An aesthetic metal barrier, available in various colours, which is scientifically formed for ultraviolet radiation, water protection and in general, outdoor conditions.

N-BARRIERS is a modular design, mainly consisted of sandwich panels and steel frame support. The acoustic sandwich panels are made out of specialised ACP (Aluminium Composite Panels), rockwool and breathing fabric. The components/parts of the steel frame support can be coated (for extra protection) with electrostatic paint or powder, according to the project requirements and area of installation.



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



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.



FIRE-RESISTANCE RATING

A2-s1,d0 or B-s1,d0



OTHER PROPERTIES

High resistance to UV rays, Total recyclable, Excellent weight/surface values

MATERIAL

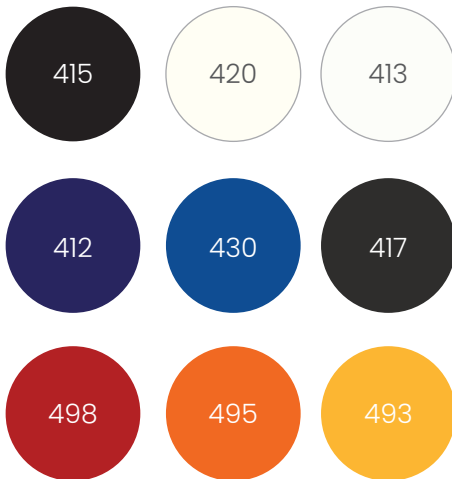
SUPPORTING STRUCTURE – FRAME:

- Made from galvanised steel, painted accordingly.
- Design according to project needs and other consultants' specifications.
- Steel plate and anchor screws for base support.

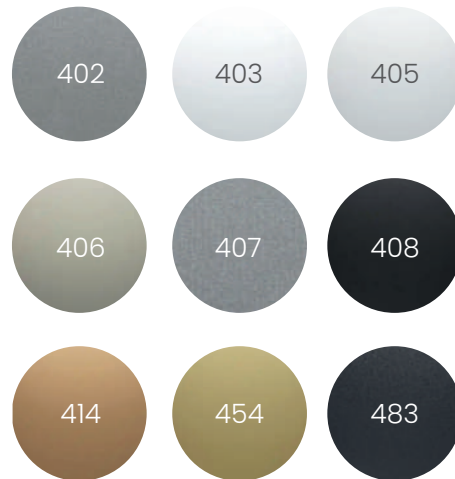
COLOUR

As per client and project needs. Colour chart available below.

SOLID COLLECTION

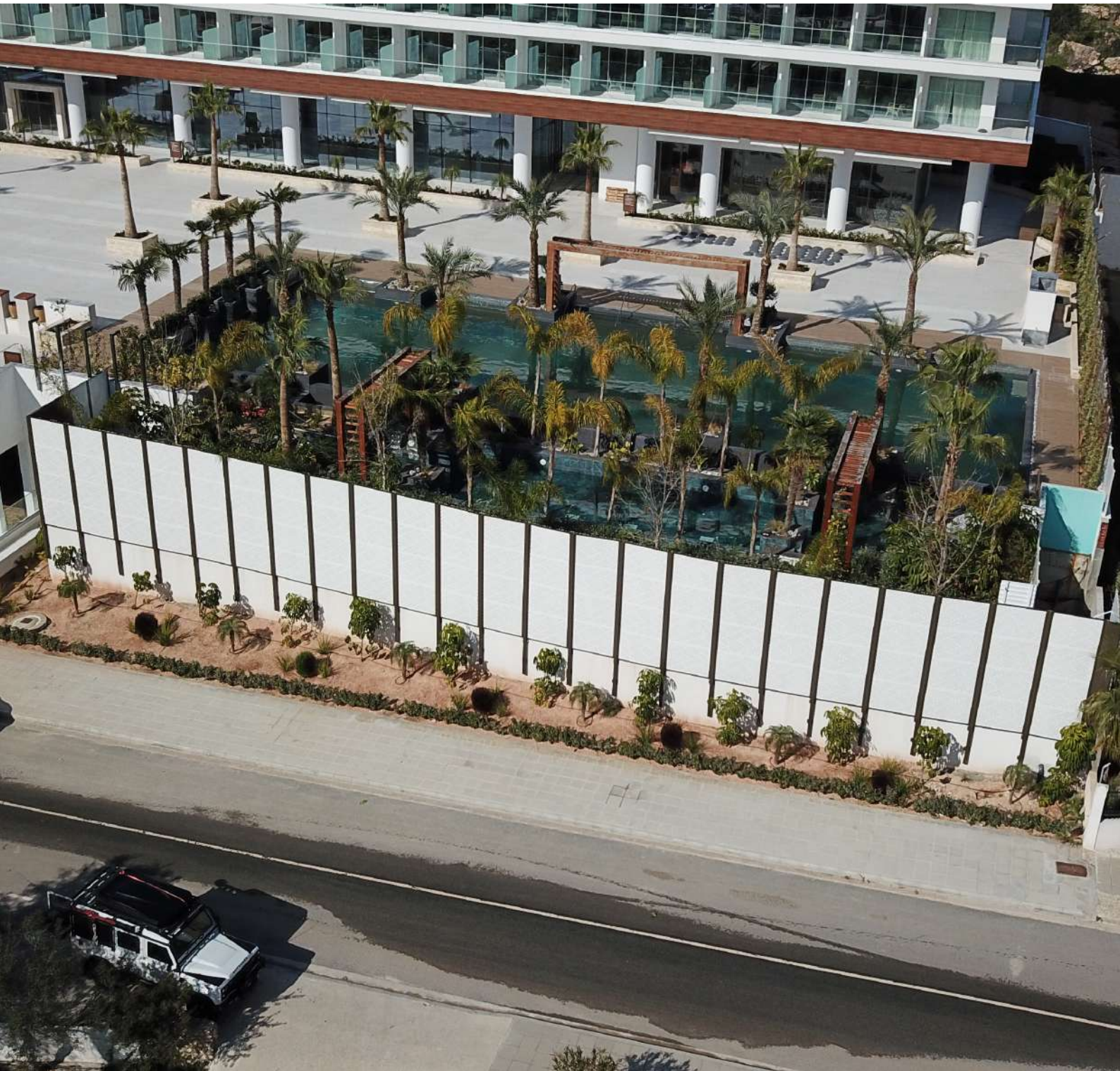


METALLIC COLLECTION



WOOD COLLECTION





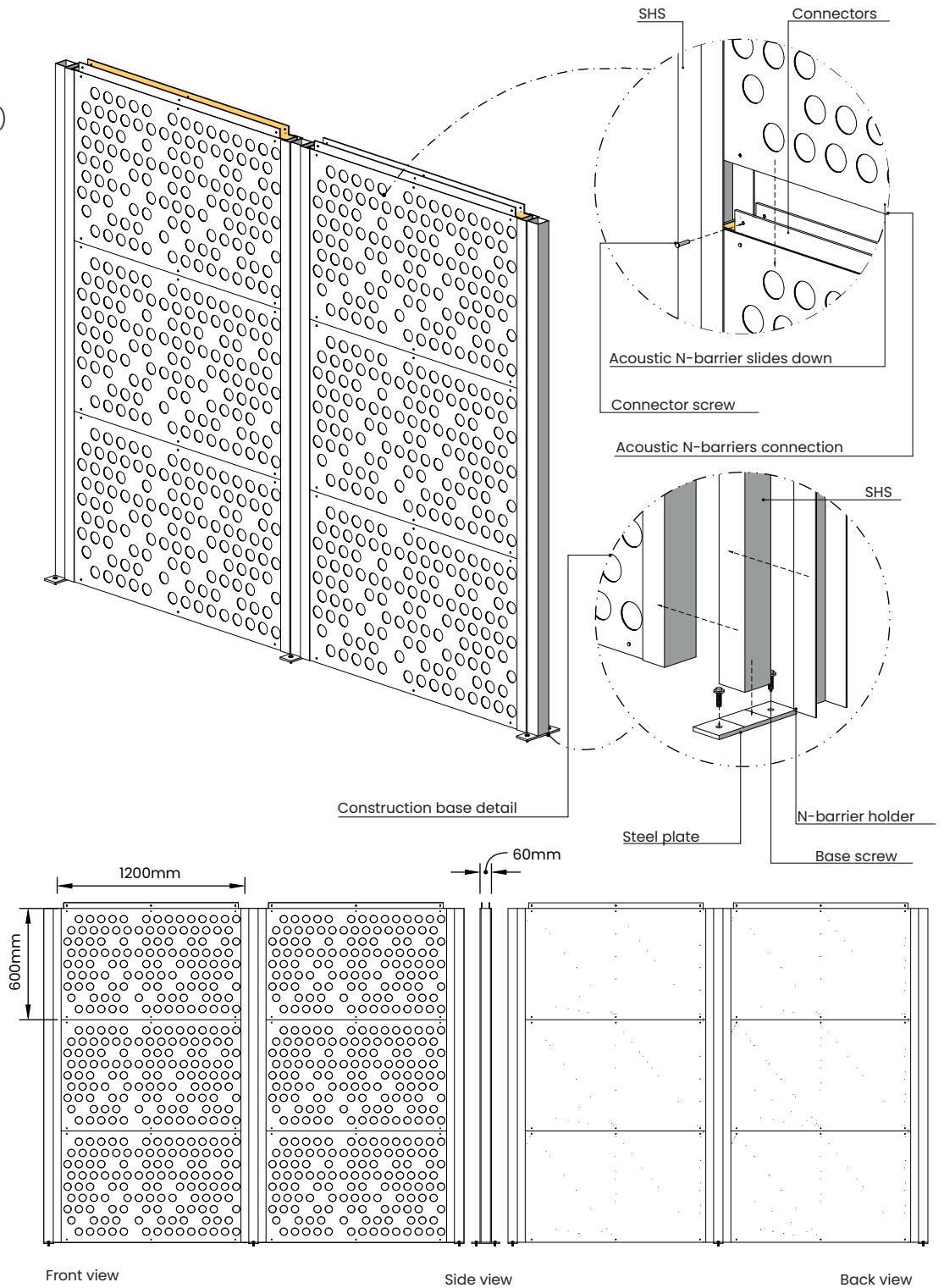
STANDARD DIMENSIONS AND TYPES

nBARRIERS

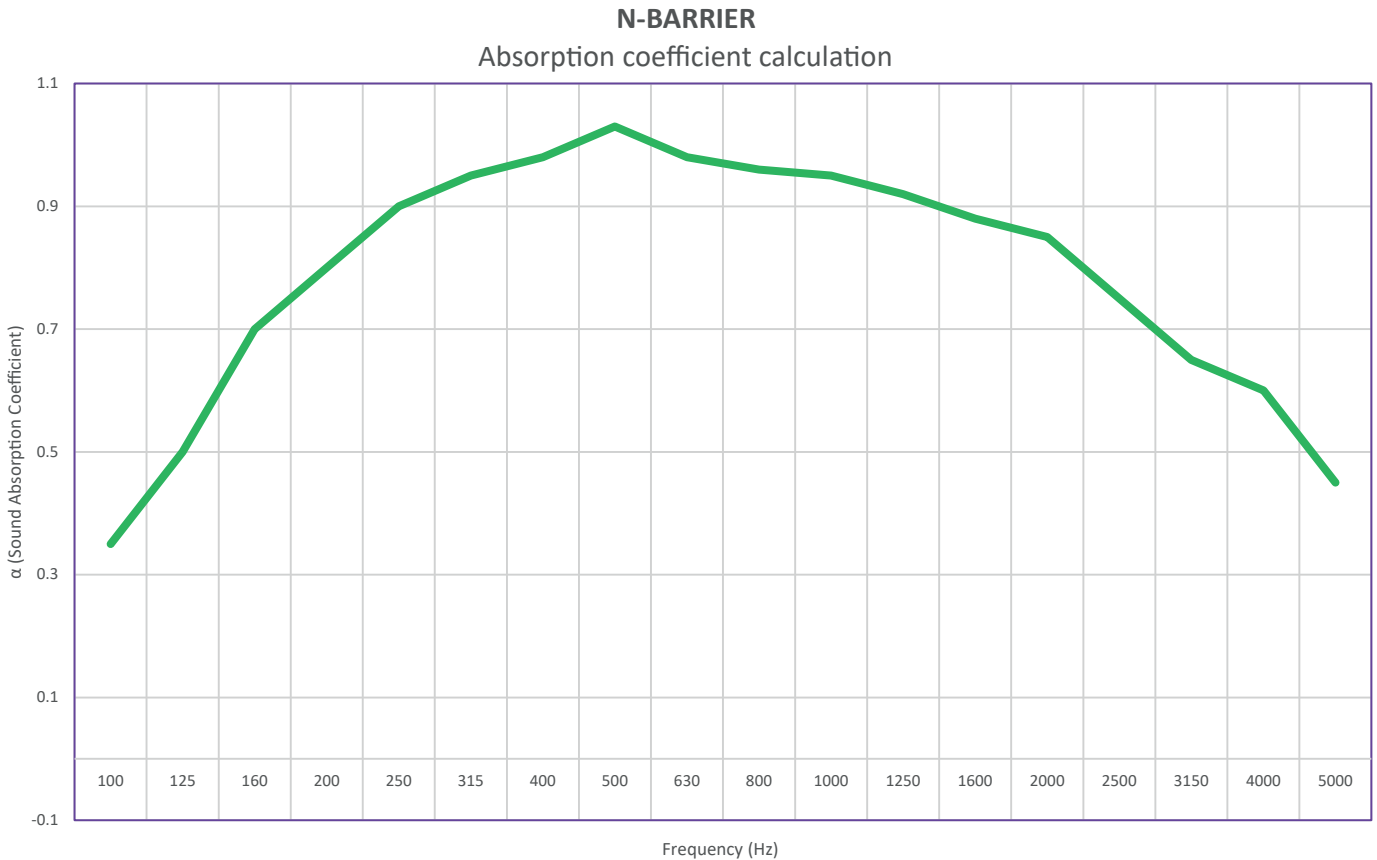
Sandwich panel unit
1200mm x 600mm (LxW)

Thickness
60mm

Total height and length
According to project
needs-constraints
and acoustic study.



SOUND ABSORPTION



Sound reduction

31dB Rw
[Sound Insulation Prediction
according to specialized acoustic software]

Sound absorption

Sound Class A (aw=0.9)
[according to specialized acoustic software]

Sound attenuation

Depending to barriers height, width
and positions of Source and Receiver (Acoustic Study)

**SOUND
ABSORPTION**

Frequency (Hz)	α_w	
100	0.35	0.52
125	0.5	
160	0.7	
200	0.8	0.88
250	0.9	
315	0.95	
400	0.98	1.00
500	1.03	
630	0.98	
800	0.96	0.94
1000	0.95	
1250	0.92	
1600	0.88	0.83
2000	0.85	
2500	0.75	
3150	0.65	0.57
4000	0.6	
5000	0.45	

