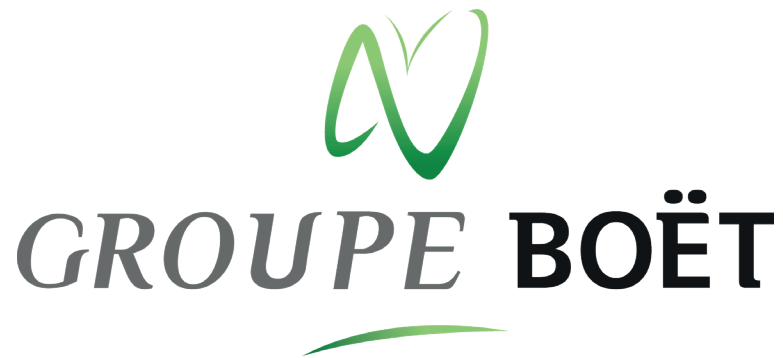


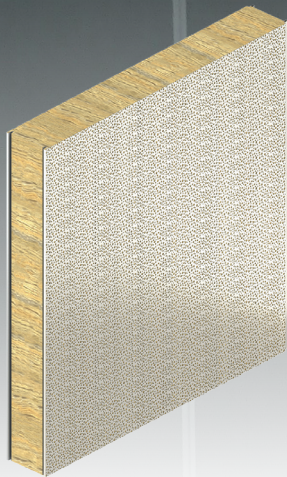
ACOUSTIC PANELS

RANGE
BSP



APPLICATIONS

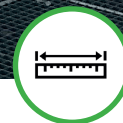
INDUSTRY - ROAD - ENERGY PRODUCTION - TERTIARY - RAILWAY



- Certified acoustic performance
- Up to 35 dB attenuation
- Non-combustible A2-s1, d0 (according to EN 13501-1)
- Fireproof option available
- Robust steel construction
- Wide range of finishes & colors
- Custom dimensions
- Quick and easy implementation



Up to 35 dB



Dimensions
custom-made



Resistance
on fire



Delivery
fast

PRODUCT DESCRIPTION

Faced with the increasing need for acoustic comfort and noise control, BSP metal acoustic panels have become an essential solution. Their design allows them to effectively absorb noise while offering high durability, weather resistance, and an attractive appearance.



These panels can be adapted to various environments, from industrial spaces, where they improve worker safety and well-being, to commercial buildings and offices. They are also often used in public places such as train stations, airports, and shopping malls, where noise control is essential for user comfort.

TECHNICAL SPECIFICATIONS

BSP acoustic panels are designed to offer optimal acoustic and thermal performance thanks to their sophisticated design. Made from robust, high-quality materials, they combine lightness, durability, and efficiency.

This section details their main technical characteristics:

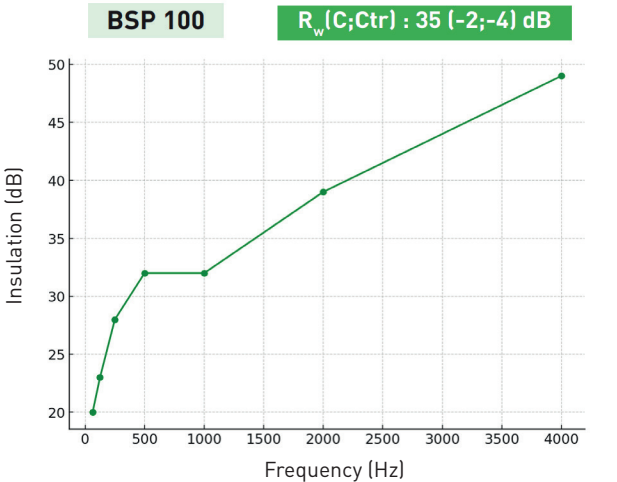
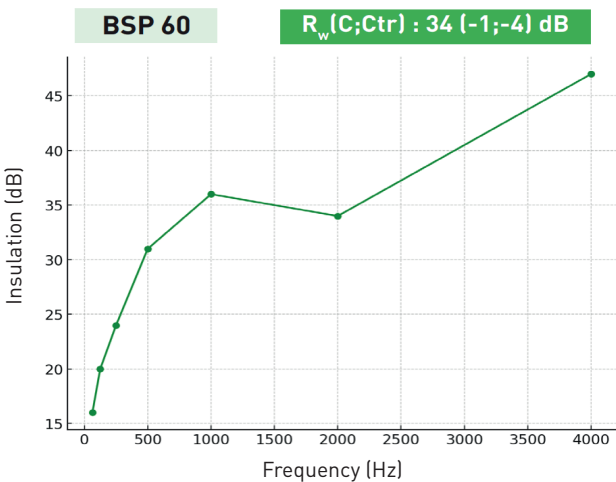
Model	BSP 60	BSP 100
Sound reduction index $R_w(C;Ctr)$	34 (-1;-4) dB	35 (-2;-4) dB
Absorption index α_w (ISO 11654)	1,00	1,00
Panel thickness	60 mm	100 mm
Inner sheet thickness	0,5 mm	0,5 mm
Outer sheet thickness	0,6 mm	0,6 mm
Weight	15,3 kg/m ²	19,7 kg/m ²
Overall width*	1186 mm	1186 mm
Useful width	1170 mm	1170 mm
Length	Up to 10 m	Up to 10 m
Thermal performance U_c (W/m ² .K)	0,625	0,398
Thermal performance Ψ_j (W/m.K)	0,02	0,01
Perforation type	Clouded	Clouded
Perforation diameters	3 – 4 – 5 – 6 – 7 mm	3 – 4 – 5 – 6 – 7 mm
Percentage of empty space	25%	25%
Fiber density	100 kg/m ³	100 kg/m ³
Fiber protection	Black glass veil	Black glass veil

ACOUSTIC PERFORMANCE

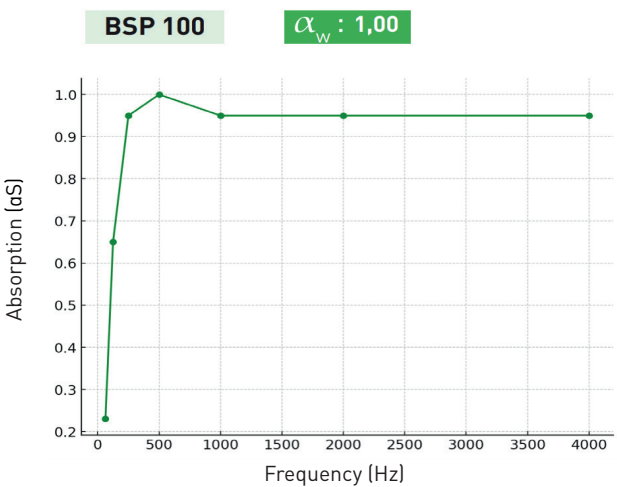
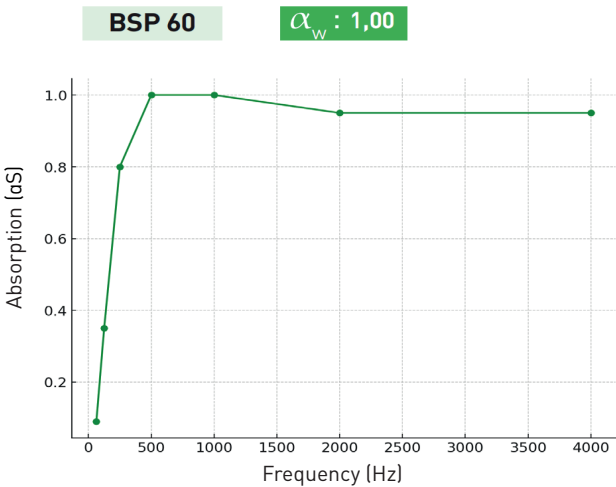
Metal acoustic panels offer an effective solution thanks to their dual function of sound insulation and absorption. In terms of insulation, they block noise transmission from one space to another thanks to their metal structure and insulating layers, creating quieter and more private environments. For absorption, their perforated surface and absorbent internal material reduce reverberation and echo, improving sound quality and acoustic comfort.

Model	BSP 60		BSP 100	
	Frequencies (Hz)	Insulation [dB]	Absorption (αS)	Insulation [dB]
63	16	0.09	20,0	0.23
125	20	0.35	23	0.65
250	24	0.80	28	0,95
500	31	1.00	32	1.00
1000	36	1.00	32	0,95
2000	34	0.95	39	0,95
4000	47	0.95	49	0,95

SOUND REDUCTION INDEX



SOUND ABSORPTION INDEX



*According to ISO 717-1
*Acoustic PV available on request

MECHANICAL STRENGTH

Pressure 2 supports in daN/m2		Useful spans (mm) between 2 supports	Pressure 3 supports in daN/m2		Useful spans (mm) between 3 supports
Thickness			Thickness		
60 mm	100 mm		60 mm	100mm	
141	265	2000	-	-	4000
102	187	2500	76	169	5000
79	141	3000	59	126	6000
60	112	3500	48	99	7000
48	92	4000	40	81	8000
41	83	4500	34	68	9000
36	69	5000	30	58	10000
31	54	5500	29	50	11000
28	51	6000	24	43	12000
25	41	6500	-	37	13000
23	37	7000	-	33	14000

*ELS wind loads in daN/m² [Eurocode 1 reference - part 1-4]

EXAMPLES

Approach 1 : Considering a 60 mm panel and a pressure of 100 daN/m², the center-to-center distance between my two supports (fixing points) will be 2500 mm maximum.

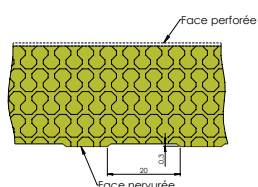
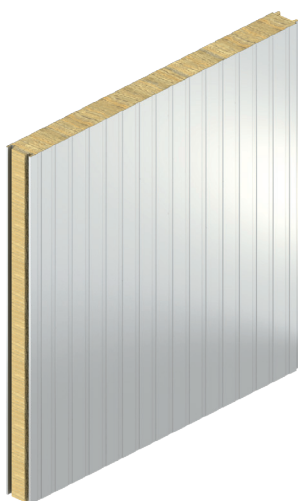
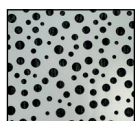
Approach 2 : I want to install a 6000 mm high panel, considering a pressure of 125 daN/m². To do this, I need to focus on a 100 mm panel supported by three supports (assuming an identical center-to-center distance between support points)

CHOICE OF EXTERIOR SHEET METAL

All dimensions are expressed in millimeters.

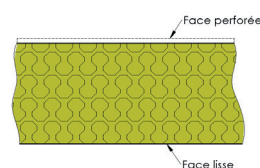
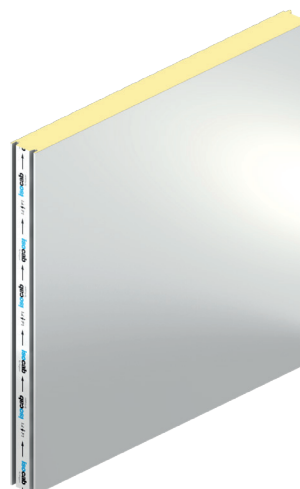
RIBBED FACE

Perforated sheet metal



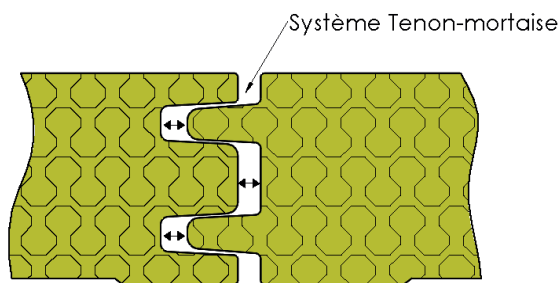
SMOOTH FACE

Perforated sheet metal



ASSEMBLY & FIXING

LATERAL JUNCTION



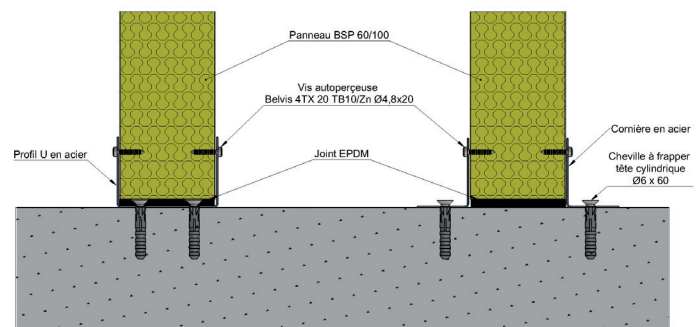
BSP acoustic panels use a tongue-and-groove assembly system that ensures excellent acoustic performance and a neat finish.

This process ensures a perfect fit between panels, reducing sound transmission and providing uniform absorption. It also provides strength and stability to the installation, while offering a smooth, clean look with no visible fasteners.

RESUMPTION AT THE BOTTOM OF THE PANEL

The installation of joints at the bottom and/or top of our acoustic panels is essential to prevent the formation of sound bridges. These sound bridges can compromise the effectiveness of acoustic insulation by allowing noise to propagate through gaps.

By ensuring perfect sealing with suitable gaskets, we guarantee a high level of acoustic insulation, contributing to the overall performance of your installation and optimal noise reduction. This attention to detail in assembly ensures that the acoustic performance of our panels remains intact.



QUICK AND EASY INSTALLATION:

BSP acoustic panels stand out not only for their acoustic efficiency, but also for their ease of installation. Thanks to their ingenious design and optimized features, they offer a practical and flexible solution suitable for a variety of environments and projects.

1

MODULAR AND QUICK INSTALLATION

The panels are designed for modular installation, facilitating quick assembly. Their simplified fastening system speeds up assembly. This modularity also offers great flexibility to adapt to the needs of each project.

2

COMPATIBILITY WITH EXISTING STRUCTURES

BSP acoustic panels can be easily integrated into existing structures without major construction work. They can be fixed to metal frames, walls, ceilings, or used as freestanding partitions, adapting to the constraints and requirements of the site.

3

ROBUST AND EASY-TO-HANDLE SOLUTIONS

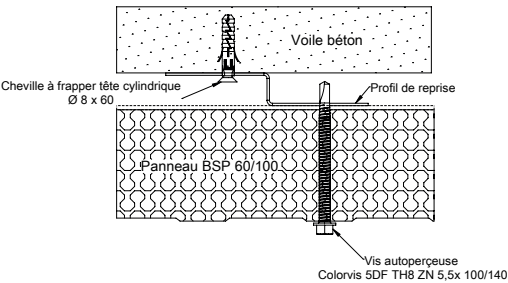
The materials used to manufacture the panels ensure high strength while being relatively lightweight and easy to handle. This simplifies handling and installation on site, ensuring quick and easy implementation.

4

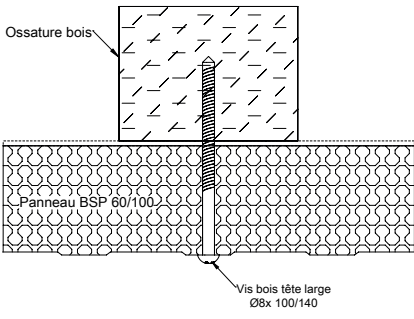
A COMPLETE SUPPLY

We also offer a complete range of accessories and fasteners specially designed to ensure optimal installation and implementation. These elements guarantee secure, quick installation that is perfectly suited to every project configuration.

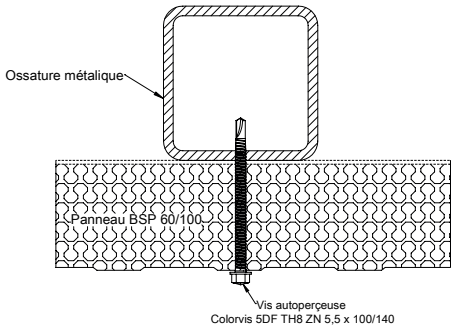
CONCRETE WALL FIXING



FIXING ON WOODEN FRAME



FIXING TO METAL FRAMES

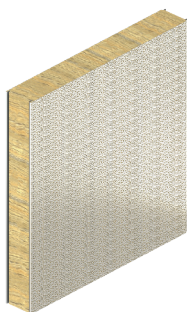


COATINGS & FINISHES

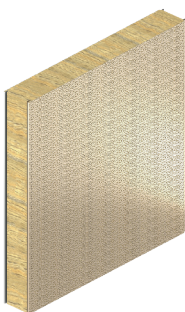
BSP acoustic panels stand out for their versatility and customization, with a wide range of finishes and colors that allow them to blend seamlessly into any type of architecture. In addition to their acoustic efficiency, these panels require little maintenance thanks to their metal surface, which is resistant to dirt, scratches, and corrosion.

We can provide samples of panels and sheets tailored to your needs, in the color of your choice, upon request. This flexibility allows you to visualize the finish and verify that our products are perfectly suited to your project. Please don't hesitate to contact us to get your personalized samples.

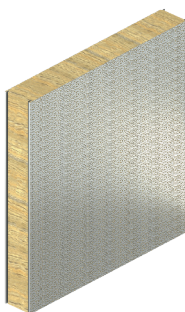
PERFORATED FACE (INTERIOR)



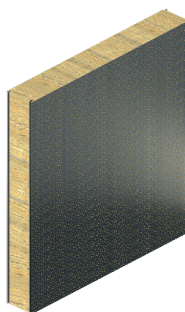
RAL 9010 - Pure White



RAL 1015 - Light Ivory

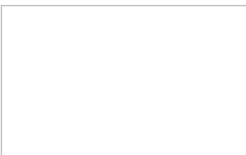


RAL 7035 - Light gray



RAL 7016 - Anthracite gray

SMOOTH OR RIBBED FACE (EXTERIOR)



RAL 9010 - Pure White



RAL 9002 - Gray white



RAL 1015 - Light Ivory



RAL 9005 - Dark black



RAL 9006 - Aluminum



RAL 9007 - Aluminum



RAL 7016 - Anthracite gray



RAL 7022 - Umber Gray



RAL 7035 - Light gray



RAL 7038 - Agate gray



RAL 6005 - Moss green



RAL 3000 - Fire Red



RAL 7012 - Beige gray



RAL 7012 - Basalt gray

Note :

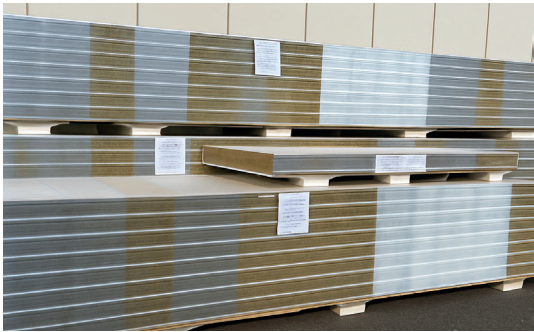
- The standard color of our panels is RAL 9010 (inside and outside). For any requests for specific colors from the color chart above, an additional charge will apply.
- On request, our panels can be coated with a C5M-certified paint treatment on both sides (solid and perforated). This treatment guarantees optimal protection against corrosion, even in the most demanding environments, such as maritime or industrial areas with high humidity and salinity.

PACKAGING & PROTECTION

BSP panels and packaged panels are wrapped in weather-resistant heat-shrink film and stored horizontally with the outer sheet metal on top. The number of panels in each package depends on the length, weight, and thickness. The maximum height of a package is 1200 mm. The maximum weight of a package is 1,900 kg.

Our acoustic panels are equipped with a removable protective plastic film, applied to the inner and outer surfaces. This temporary coating protects panel surfaces from scratches, dirt, and damage during transport, handling, and installation. Once the work is complete, this film can be easily removed, ensuring an intact surface and a high-quality finish.

Thicknesses (mm)	Packaging - Number of panels
60	17
100	10



CONTACT PERSON & CONTACTS

At Boet StopSon, our success is based on the commitment and expertise of our sales teams, who play a key role in supporting our customers. Composed of experienced and passionate professionals, they are dedicated to understanding your specific needs, advising you, and offering tailor-made solutions adapted to your acoustic requirements and projects.

Our sales teams draw on their in-depth knowledge of our products and their performance to guarantee you an optimal customer experience, from design to implementation. Their mission is to guide you every step of the way, providing quality service and a personalized approach to make every project a success.

Your contacts



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OTHER PRODUCTS IN OUR RANGE

