

BAB

Beautiful Absorbing Ball

TECSOUND[®]
by SOPREMA

TECHNICAL DATA SHEET No. TS-2025-044-02

(On 22/07/2025 cancelled and replaced – TS-2025-044-01)



BAB



PRESENTATION

The **BAB – Beautiful Absorbing Ball*** – is an acoustic and aesthetic sphere. The **BAB** provides innovative acoustic correction; it attaches to ceilings to provide significant sound attenuation by trapping sounds in the filling foam. Its use has the effect of improving the comfort and intelligibility of verbal exchanges in a room once it has been processed. Its hand-woven decorative fabric is fireproof.

The **BAB** can be combined with a pendant luminaire: **BAB Lighting**.

PRINCIPLE

When a sound source emits noise inside a room, the sound waves reflect off the different walls, generating a reverberation phenomenon. The use of a high-performance absorbent material effectively reduces this phenomenon by capturing sound waves in its structure, thus improving the acoustic comfort of the space.

PRESENTATION OF THE RANGE

The **BAB acoustic** is a globe with a particularly fine weave, ensuring both the porosity necessary for acoustic performance and sufficient opacity to conceal the filling foam. It is delivered pre-formed, ready for installation on site. The globe is supplied filled with absorbent foam to guarantee optimal acoustic efficiency and closed by a metal dome available in standard colours (white or black). Other colours can be offered on request.

- TYPE OF SUSPENSION WITH CEILING ROSE

Unleash your creativity with our range of acoustic solutions.

Design spaces where acoustics become a true sensory experience, while providing a unique aesthetic touch. Each element is designed to transform your premises into works of sound art signed BAB.

Tailor-made configurations for complete creative freedom.

From simple suspension with a single BAB to compositions of up to four elements, play with colours and diameters. Four types of rosettes – from Mono to Quatro – offer you an infinite number of combinations to customise your installations.

Mono BAB: elegant simplicity. This pendant consists of a discreet ceiling rose, an 80 cm woven cable (available in white, grey or black) and a cylindrical plastic roof, available in white or black.

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Multiple suspension: amplified creativity.

It includes a rosette, adjustable woven cables of 80, 100 and 120 cm, as well as a pavilion made of recycled and recyclable plastic. The available colours are identical to those of the Mono BAB version.

Decorating tip! Electrical cables can be offered to create an aesthetic acoustic and illuminating composition.

• MOUNTING KITS

Round or rectangular fixing kit.



• BAB SIZE

The **BAB** is available in different sizes:

- **S:** Ø 31 cm
- **L:** Ø 42 cm
- **XL:** Ø 52 cm
- **XXL:** Ø 62 cm

Note: Handcrafting gives each BAB its unique character, making each element truly unique.

• THE BAB'S HOLDER

Each size of BAB has its own holder.

- Standard holder colour in black
- White colour on order without added value
- Brass colours made to order with added value
- Other colours are available with added value (contact us)



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S : Ø 31 cm



L : Ø 42 cm



XL : Ø 52 cm



XXL : Ø 62 cm



- AVAILABLE COLORS

The **BAB** is available in a range of 20 standard colours, offering a great deal of freedom for customisation. Other shades are also available on request, with an additional lead time – please contact us for more information.

1 _ blanc
50012 _ ecru
57953 _ sable
57914 _ camel
50935 _ curry
50636 _ dragée
52017 _ lin
58098 _ nude
58299 _ havane
515110 _ tabac
508511 _ perle
598712 _ azur
568713 _ denim
545114 _ paon
552115 _ anthracite
591916 _ rouge
514117 _ orange fifty
513518 _ vert de gris
566519 _ tilleul
562920 _ kaki
4758

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- BAB ACCESSORIES

The **BABs** can be suspended using 6.2 mm diameter cables, offering a solution that is both discreet and elegant.

Textile blanc



Textile noir



Textile lin



Ceiling light : BAB elements can be suspended via cables (Ø 6.2 mm)

Rosace cylindrique
Serre-câble conique



Kit rosace rond Ø 200 mm
avec 1 trou et 4 trous latéraux



Kit rosace rond Ø 400 mm
avec 2 trous et 4 trous latéraux



Rosace Ø 400 mm 3 BAB et
4 trous latéraux



Rosace Ø 400 mm 4 BAB et
4 trous latéraux



Rosace Ø 400-500 mm 5 BAB
5 trous latéraux



Rosace rectangulaire 2 BAB à
2 trous et 6 trous latéraux
dimension 675 x 225 mm



Rosace rectangulaire 2 BAB à
3 trous et 6 trous latéraux
dimension 675 x 225 mm



FIRE BEHAVIOUR

Element	Norm	Result	
Globe: Woven structure	NF EN 60695-2-10 (2013) NF EN 60695-2-11 (2014) NF EN 60598-1 (2015) + A1	Glow Wire Test: 650° C for 30 sec	Absence of flame or incandescence
Filling Material: Sound Absorbing	NF P92-512	M1	Reaction to fire test of a material

ACOUSTIC PERFORMANCE

The equivalent absorption area A_T in m^2 of n globes is obtained by multiplying A_{obj} as presented in the table below by the number n of globes, i.e. $A_T = n \times A_{obj}$ Result of the absorption area for a single globe according to EN 354.

Absorption area results for a single BAB according to NF EN ISO 354

	BAB 31 Ø cm	BAB 42 Ø cm* (extrapolated values)	BAB 52 Ø cm	BAB 62 Ø cm
Absorbent surface	0.30 m^2	0.55 m^2	0.85 m^2	1.21 m^2
Frequency (Hz)	$A_T (m^2)$	$A_T (m^2)$	$A_T (m^2)$	$A_T (m^2)$
100	0,03	0,04	0,05	0,19
125	0,02	0,04	0,06	0,20
160	0,03	0,06	0,08	0,25
200	0,04	0,08	0,12	0,52
250	0,06	0,11	0,16	0,78
315	0,08	0,19	0,30	1,13
400	0,12	0,27	0,41	1,39
500	0,18	0,35	0,52	1,57
630	0,24	0,43	0,63	1,73
800	0,28	0,48	0,67	1,74
1000	0,32	0,51	0,70	1,70
1250	0,33	0,52	0,72	1,58
1600	0,35	0,53	0,71	1,58
2000	0,35	0,52	0,69	1,54
2500	0,33	0,50	0,67	1,52
3150	0,32	0,48	0,64	1,46
4000	0,33	0,47	0,62	1,42
5000	0,31	0,44	0,57	1,37

Sources: CEBTP BEB2 acoustic tests. M.6055

*Ø42 values evaluated and rounded (to the 10th of a m^2) by linear extrapolation from the Ø31 and Ø52 test results.

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Reverberation durations (s) measured during the test with all BABs

Empty room		Room with BAB		
Frequency (Hz)		BAB 31 Ø cm	BAB 52 Ø cm	BAB 62 Ø cm
		Qty: 25 spheres	Qty: 12 spheres	Qty: 9 spheres
100	8,40	7,21	7,50	6,06
125	10,39	8,89	8,71	7,02
160	9,47	8,01	7,55	6,04
200	11,84	8,80	8,20	4,82
250	9,94	7,30	6,54	3,51
315	10,98	6,82	5,36	2,79
400	11,56	6,06	4,61	2,40
500	11,69	4,86	3,99	2,18
630	11,35	4,05	3,50	2,01
800	10,49	3,53	3,25	1,97
1000	9,48	3,18	3,07	1,96
1250	8,46	2,96	2,90	2,02
1600	7,55	2,78	2,81	1,97
2000	6,71	2,65	2,73	1,95
2500	5,39	2,49	2,53	1,83
3150	4,34	2,27	2,31	1,74
4000	3,44	2,00	2,05	1,60
5000	2,55	1,71	1,75	1,40

Sources: CEBTP BEB2 acoustic tests. M.6055**METHOD OF APPLICATION AND STORAGE CONDITIONS**

BABs must be stored in closed and dry places, not subject to strong variations in humidity.

The ambient temperature during installation should be between 15 °C and 30 °C.

Storage, transport and handling conditions:

BAB globes must be stored in their original packaging, in an enclosed, dry environment, protected from bad weather and significant variations in humidity.

Due to their handcrafted manufacture and the finesse of the weaving, BABs are fragile pieces that require careful handling.

No objects should be stored on the boxes.

These are designed to be stacked exclusively with each other, in strict compliance with handling instructions, to preserve the integrity of the BAB globes and avoid any risk of crushing or deformation.

SPECIAL INFORMATION

The manual production gives each BAB its unique character, making each element truly unique. The dimensions and colours can therefore be slightly depending on the production batch.

The material generally meets the requirements of hygiene, health and the environment.

TECSOUND reserves the right, depending on the evolution of knowledge and techniques, to modify without prior notice the composition and conditions of use of its materials and subsequently their price. Consequently, any order will only be accepted under the conditions and technical specifications in force on the day of receipt.

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