

# BAB



## Introduction

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The **BAB – Beautiful Absorbing Ball** - is an attractive acoustic globe. The BAB provides innovative acoustic comfort. It is fixed to ceilings to provide significant noise reduction by trapping sound in the foam filling. Once fitted, it improves the comfort and intelligibility of verbal exchanges in a room. Its decorative handwoven fabric is fire retardant.

The BAB can be used in combination with a pendant luminaire by La Case de Cousin Paul.



## Principle

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When a source emits a noise within a living space, the sounds waves are reflected off the various walls. Using absorbent foam can significantly reduce this reverberation by trapping sound in the material.

## Introduction to the range

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An extremely finely woven magnetic globe, sold pre-shaped and ready to install. The globe comes filled with absorbent foam and closed with a metal dome, which is available in standard colours (black or white). Other colours are available with an additional lead time.

### Suspension type

Mono BAB suspension comprises an 80 cm woven cable (standard colours: white, grey or black) and a cylindrical black or white plastic ceiling rose.

The multi-suspension system comprises 80-100 and 120 cm adjustable woven cables and a recycled and recyclable plastic ceiling rose. Available in the same colours as the Mono BAB.

The 40 cm diameter 3 BAB multi-outlet metallic ceiling rose is available in matt white or black. The woven cables have a standard length of 150 cm and are adjustable.

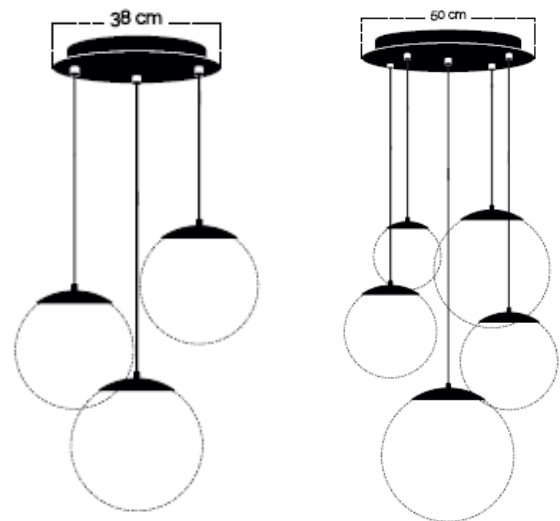
The 40 and 50 diameter, 5 BAB multi-outlet metallic ceiling rose is available in matt white or black. The woven cables have a standard length of 150 cm and are adjustable.

Décor tip! Electric cables can be swapped in to create an attractive acoustic and lighting composition.

### Single ceiling rose suspension



### Multi-outlet ceiling rose suspension



### Globe sizes

The globes are available in various dimensions:

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

Note: Dimensions may vary as each globe is handwoven.

### Types of cup

Each BAB dimension has a specific cup. The cups are available in various dimensions:

- Standard black
- White available on request at no additional cost
- Brass colour available on request, additional cost applies

S : Ø 31 cm



L : Ø 42 cm



XL : Ø 52 cm



XXL : Ø 62 cm



### Luminaire globe colours

The globe is available in a range of 20 standard colours. **Other colours are available with an additional lead time** (please contact us for further details).



Fire behaviour

Component	Standard		Result
Globe	NF EN 60695-2-10 NF EN 60598-1	650° C for 30 sec	Fire resistant product: glow wire test / hot wire test
Filling material: Acoustic absorber	NF EN 13501	B - s1, d0	Reaction to fire classification of a material
	NF P92-512	M1	Reaction to fire testing of a material

**BAB Accessories**

Cable: BAB components can be suspended using cables (Ø 6.2 mm)

White textile



Black textile



Linen textile



Ceiling roses: BAB components can be suspended using cables (Ø 6.2 mm)

Cylindrical ceiling rose  
Conical cable clamp



200 mm Ø round ceiling rose  
kit with 1 BAB and 4 side holes



400 mm Ø round ceiling rose kit  
with 2 BAB and 4 side holes



400 mm Ø ceiling rose with 3  
BAB and 4 side holes



400 mm Ø ceiling rose with 4  
BAB and 4 side holes



400 and 500 mm Ø ceiling rose  
with 5 BAB and 5 side holes



Rectangular ceiling rose with 2 BAB  
and 6 side holes  
Dimensions 675 x 225 mm



Rectangular ceiling rose with 2 to 3  
BAB and 6 side holes  
Dimensions 675 x 225 mm



## Acoustic Performance

The equivalent absorption area  $A_T$  in  $m^2$  of  $n$  globes is obtained by multiplying  $A_{obj}$ , as shown in the table below, by the number of globes, i.e.,  $A_T = n \times A_{obj}$

Absorption area result for a **single globe** in accordance with EN 354

	BAB 31 cm Ø	BAB 42 cm Ø* (extrapolated values)	BAB 52 cm Ø	BAB 62 cm Ø
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

\*Values for 42 cm Ø evaluated and rounded up or down (to the nearest 10<sup>th</sup> of a  $m^2$ ) by linear extrapolation from the test results for 31 cm Ø and 52 cm Ø.

Duration of reverberation measured during testing with all BABs

Frequency (Hz)	Empty room	Room with BAB		
		BAB 31 cm Ø Qty: 25 balls	BAB 52 cm Ø Qty: 12 balls	BAB 62 cm Ø Qty: 9 balls
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.M.6055 acoustic tests

## Installation method and storage conditions

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The ambient temperature during installation should be between 15 and 30 °C. The products should be stored in enclosed, dry areas that are not subject to wide variations in humidity.

Storage and transport conditions:

BAB globes should be stored in their original packaging away from the elements, in enclosed, dry areas that are not subject to wide variations in humidity. No other products or objects should be stored on top of the boxes, which can be stacked on each other.

Note: Dimensions may vary as each globe is handwoven.

## Specific instructions

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The information provided in this data sheet is based on our experience and we accept no liability for it, given the diversity of materials found on the market and the various application processes, which are beyond our control. We strongly advise you to carry out preliminary tests on your materials, according to your specific application, to determine whether the product meets your requirements.

The material generally complies with health and safety and environmental requirements. For further information, please refer to the Safety Data Sheet.

TECSOUND reserves the right to amend the composition and terms and conditions of use of its materials, and consequently their price, without prior notice, in light of developments in terms of knowledge and technology. Consequently, orders will only be accepted under the terms and conditions and technical specifications in effect on the date of receipt of the order.