



BluCube Universal Fire & Acoustic Speaker Hood FAQ's

TDI Order Code: LS-6000

How can one size fit all?

The majority of ceiling speakers have cut-out apertures ranging in diameter from 200-250mm. The aperture of the BluCube Hood as delivered is 200mm but it can be enlarged by simply cutting the fabric. A guide is marked on the flange which is the typical diameter of an 8-inch driver speaker. There is a sewn seam to prevent the fabric fraying. It is preferable to avoid cutting this seam. If however, the hood needs to be cut to fit a speaker located close to a joist, it may be necessary, on occasion to cut the aperture offset from centre to accommodate the location. This is easily achieved and does not affect the performance of the hood. Please check our installation video for more details.

Why is the internal collar better?

Firstly, it makes the hood easier to fit, but more importantly, it performs significantly better because it is possible to create a much more effective seal.

Speakers are fitted from beneath the ceiling not from above. The inner flange means that the flange can be easily fixed to the upper surface of the ceiling plasterboard because the flange is accessible from inside the hood. An external flange is not, and cannot be sealed effectively. An effective seal means the fire protection performance is maximised, as is the acoustic performance. Even a small gap reduces both fire protection and acoustic insulation considerably. Dust ingress is also minimised with the speaker hood ensuring speaker performance on longevity. The inner-flange makes the hood adaptable to many types and sizes of in-ceiling speaker. It also allows for offsetting the aperture where a speaker aperture may be close to a joist. Finally the inner-flange means that the speakers fixings (often referred to as 'swing-outdogs') clamp the fabric of the hood to the upper surface of the ceiling making for a better fit.

What if my joist height is low?

The standard height of a UK joist is 150mm, in shallower ceiling voids the BluCube hood is compressible without affecting its integrity or performance. Providing your speaker itself has sufficient clearance, you only need 2-3mm additional clearance to accommodate the fabric of the hood. Although the extended height of the hood can accommodate speakers with a depth of up to 200mm, it can be compressed to comfortably accommodate speakers with a smaller depth requirement.

TDI Tremiver Ltd

Tel: 01256 397 770

Fax: 01256 398 880

Email: info@tdigroup.co.uk

Web: www.tdigroup.co.uk



What if my speaker aperture is close to a joist?

In an ideal world all speakers would be centred between joists, this is very often not the case. Provided that the speaker itself can fit in the aperture and the speaker's fixings do not foul on the joist you should be able to also accommodate a BluCube hood. There are two ways to do this:

The first is simply to scrunch the fabric of the hood against the joist so that the speaker will fit. This will not affect the performance of the hood or speaker. If the aperture is too close to the joist to allow this. The second approach is to cut the fabric of the hood to create an offset (elliptical) aperture. Again, this will not affect the performance of the hood. In this case it may be necessary cut through the sewn seam on the flange and this will expose some of the foam (you may need to glue this back in place). As the aperture of the hood flange is now enlarged and offset it may be that only some of the speaker fixings clamp the flange the hood fabric, this is perfectly acceptable but it is advised that in this case the flange is firmly affixed to the surface of the plasterboard before fitting the speaker.

How much acoustic absorption is achieved?

BluCube have conducted extensive acoustic tests in this area, we estimate the typical sound reduction to be of the order of 2dB following the addition of our hood. This is only a guide as results will vary from installation to another.

What are the steps for installation?

1. If your speaker design has an 8 inch driver (not ceiling cut out) use a pair of sharp scissors to increase the size of the hood hole cutting to the edge of the seam.
2. Make a small hole in the side of the fabric through which you will later thread the speaker wire through.
3. Run a thick, continuous bead of adhesive filler ('Sticks like', 'GripFill' or similar adhesive fillers are suitable) around the upper surface of the plasterboard. The flange of the hood will sit on this bead to create an airtight seal.
4. Thread the cable through the hole poked in step 2.
5. Scrunch the hood to fit through the aperture and expand the hood so that the flange sits on top of the bead of adhesive filler.
6. Compress the hood on to the adhesive filler pressing all the way around and ensuring an airtight fit.
7. Following the speaker manufacturer's instructions attach speaker cable to speaker, insert speaker into aperture and tighten speaker's fixings.

Authorised Reseller:



TDI Tremiver Ltd

Tel: 01256 397 770

Fax: 01256 398 880

Email: info@tdigroup.co.uk

Web: www.tdigroup.co.uk