



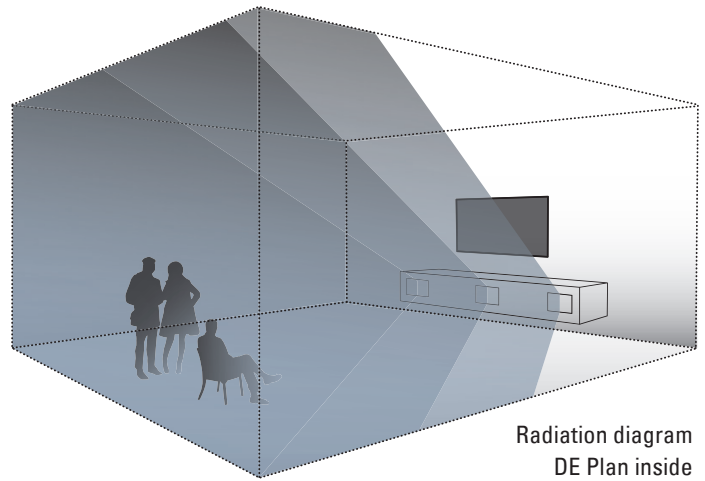
DE Plan inside® Installation Instructions

For invisible Integration into
Furniture and Wall Panels





DE plan[®] inside



Radiation diagram
DE Plan inside
Installation in furniture

The Speakers of the DE Plan inside[®] series are special built-in versions to be installed in furniture and wall panels. The speakers are back-mounted onto the front of furniture or panels made of wood, MDF or similar materials and directly resonate through these surfaces.

This surface is activated without an intermediate membrane, which makes DE Plan inside models extremely efficient and gives them an extensive, linear frequency range.

The reproduction characteristics depend very much on the material in which the speakers are installed and the acoustics of each room. As a result, our system controllers or DSP power amplifiers should always be used to achieve the best sound pattern.

Refer to individual product datasheets for more detailed technical information. These are available at: www.lb-lautsprecher.de/en/Invisible-Speakers

Accessories

Included in delivery:

- 2-component adhesive
- Pistol and dosing tip for 2C adhesive
- Cyano-acrylate adhesive Spezial 483 (instant adhesive)

Cyanoacrylate
Adhesive



2-C Adhesive



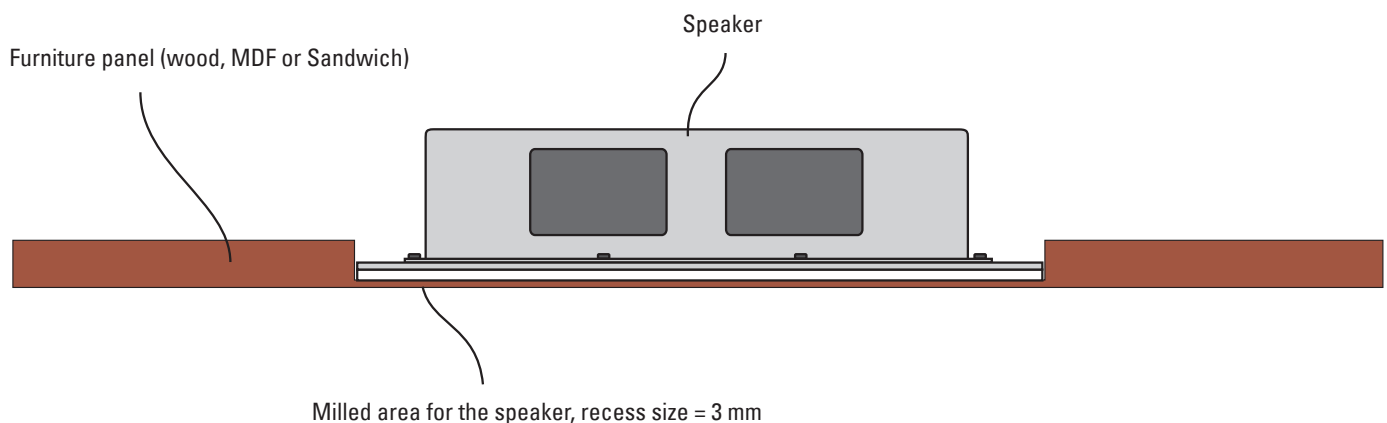
Adhesive-Pistol



Dosing Tip



Cut: Installed Speaker



Installation of DE Plan inside® in furniture panels (wood, MDF or sandwich)

1. Milling of furniture panels

The recessed mounting area is milled into the rear surface to a wall thickness of 3 mm.

Attention: Please make sure that the panel is not getting distorted by milling. You can also use a sandwich board with 3 mm HDF and milled MDF with recessed wall thickness.

2. Surface of the furniture panels

If the furniture is veneered, coated or varnished, the inner side of the milled area should be treated accordingly. At least the inner side of the milled area should be primed in order to avoid distortion.

3. Pretreatment of the milled furniture in the area of the exciter (only if the milled area is not varnished)

To bind the surface in the area of the exciter (8×8 cm) treat the milled MDF with the cyan-acrylate Special 483 adhesive. Spread the adhesive by using a brush or spatula. Let the adhesive harden for at least 30 minutes.

4. Sticking the speakers in the milled furniture or wall panels

First degrease the mating surfaces with alcohol (white edge plating and carbon plating from exciter).

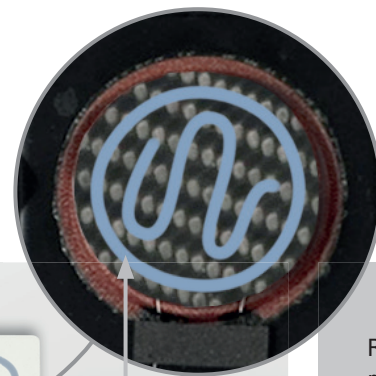
Then apply the 2C adhesive (included in delivery) on the white plating and carbon plating from exciter in a solid homogeneous seam (see picture above).

Afterwards insert the speaker rapidly into the milled area from furniture or wall panel (the membrane with adhesive face down). Weigh down the Speaker for 20 minutes (with about 5 – 10 kg)

Important Informations

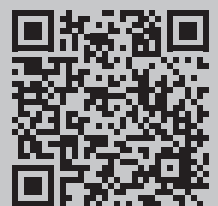
- **Make sure that the carbon plating from exciter has contact with the furniture or wall panel when sticking.**
- **The adhesive has a short pot life of 5 minutes and quick setting, afterwards no further adjustments are possible.**
- **Damage resulting from incorrect handling is not covered by the warranty.**

Application of the 2C adhesive – Please contact us if you have any questions.



Adhesive seam

Refer to individual product datasheets for more detailed technical information. These are available at: www.lb-lautsprecher.de/en/Unsichtbare-Lautsprecher



Models	Principle	Frequency range	Power capacity	Sensitivity	Dispersion	Dimensions	Recess size	Installation depth	Weight	Back box
DE Plan 200 inside	2-way flat transducer	70 Hz – 20 kHz	RMS/prog. 40/80 watts 8 ohms	81 dB (1W/1m) max. 99 dB	180°	300 × 240 mm	304 × 244 mm (remaining thickness 3 mm)	72 mm	2.8 kg	EG/EGB Plan 200
DE Plan 200 ST inside	Stereo-2-way flat transducer	90 Hz – 20 kHz	RMS/prog. 2×30 / 2×60 watts, 2×8 ohms	81 dB (1W/1m) max. 99 dB	180°	300 × 240 mm	304 × 244 mm (remaining thickness 3 mm)	72 mm	2.8 kg	EG/EGB Plan 200
DE Plan 400 inside	2-way flat transducer	46 Hz – 20 kHz	RMS/prog. 80/160 watts 8 ohms	82 dB (1W/1m) max. 104 dB	180°	420 × 300 mm	424 × 304 mm (remaining thickness 3 mm)	72 mm	3.9 kg	EG/EGB Plan 400
DE Plan 500 S inside	2-way flat transducer	110 Hz – 20 kHz	RMS/prog. 80/160 watt 8 ohms	82 dB (1W/1m) max. 104 dB	180°	540 × 140 mm	544 × 144 mm (remaining thickness 3 mm)	72 mm	3.8 kg	EG/EGB Plan 500 S
DE Plan 600 inside	2-way flat transducer	38 Hz – 20 kHz	RMS/prog. 160/320 watt 8 ohms	83 dB (1W/1m) max. 108 dB	180°	620 × 300 mm	624 × 304 mm (remaining thickness 3 mm)	72 mm	5.5 kg	EG/EGB Plan 600

Errors and omissions excepted.