

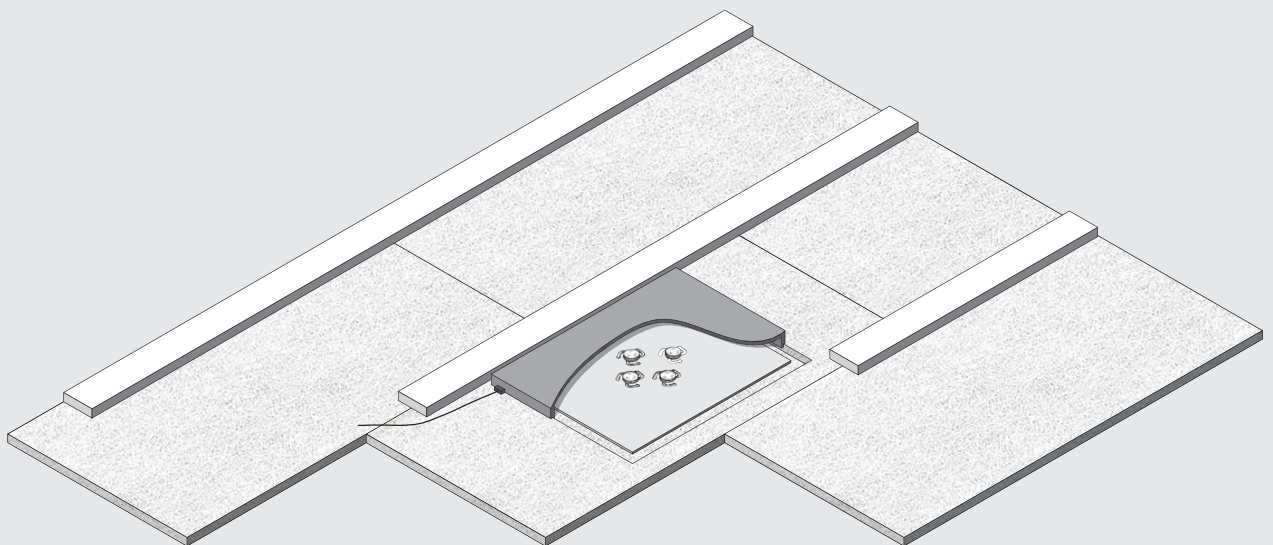
# INSTALLATION INSTRUCTIONS

Troldtekt® speakers  
Concealed, integrated installation in Troldtekt® acoustic ceilings

## TROLDTEKT® SPEAKER

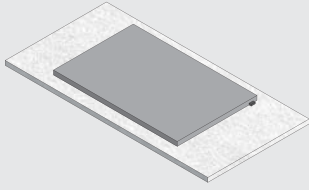


## NXT PANEL INTEGRATED AND CONCEALED IN THE TROLDTEKT® ACOUSTIC PANEL



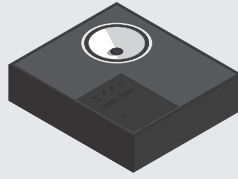
## INSPECTION ON RECEIPT

Check that you have received the following components and that they were complete and undamaged on receipt. Please inform the supplier immediately in case of visible defects or non-conformities.



### Troldekt speakers

The speakers are integrated in Troldekt acoustic panels and fitted with twin speaker connections. The acoustic panel and the speakers are glued together to form a single unit that cannot be separated.



### Troldekt subwoofer

Troldekt speakers can be used on their own, but optimum sound quality is achieved through simultaneous use of a Troldekt subwoofer. The flat Troldekt subwoofer can be used as a stand-alone unit, e.g. under furniture, or it can be concealed behind the ceiling.

## AMPLIFIER REQUIREMENTS

The amplifier must be fitted with two speaker outputs, each consisting of a right and left output, or with a subwoofer/line output.

## SPEAKER INSTALLATION

### 1. Connection to amplifier.

The amplifier must be turned off during installation and connection. Connect each speaker panel to the amplifier as with regular speakers, as shown in the installation diagram on the following page. You can also use Troldekt speakers without Troldekt subwoofers – in this case, disregard the left side of the diagram. Plug the cables into the speaker panels and connect the positive cable (+) to the positive terminal and the negative cable (-) to the negative terminal on the amplifier's speaker output.

### 2. Speaker panel location

To achieve optimum stereo effect, we recommend locating the speaker panels symmetrically in relation to one of the room's symmetry axes. To achieve a uniform sound pressure throughout the room, we recommend locating the speaker panels so that

each forms the centre of one half of the room. To avoid unwanted reverberation against hard wall surfaces, the speaker panels should not be located directly against a wall or ceiling end surface (approx. 1 pcs./30 m<sup>2</sup>). For ceiling heights below 2.3 m, it may be necessary to increase the number of speakers in the room to achieve uniform sound distribution throughout the room.

### 3. Installation of speaker panels in a Troldekt acoustic ceiling

The speaker is integrated in a Troldekt acoustic panel of the same type as the other acoustic ceiling panels. If possible, conceal the speaker panel cabling above the panels.

**Troldekt speakers can be used on their own, but optimum sound quality is achieved through simultaneous use of a Troldekt subwoofer.**

## SUBWOOFER INSTALLATION

### 4. Power supply and connection to amplifier.

Connect the subwoofer to the amplifier as illustrated in the installation diagram on the following page. Connect the subwoofer to 230 V mains voltage.

### 5. Setting and tuning

Set the power to Auto. Set volume, phase and frequency using the set screws on the back of the subwoofer. To find the correct bass setting, try playing a familiar piece of music at the desired sound level. Then adjust the bass and volume levels until the subwoofer sound is well integrated with the sound from the speaker panels.

### 6. Location and fitting.

The subwoofer can be hidden behind the Troldekt acoustic ceiling or placed directly on the floor, e.g. under a sofa. Place the subwoofer in a corner to increase the bass effect. The subwoofer takes up less space than the speaker

panels and requires a fitting height above the ceiling panel backs of min. 170 mm. If the required headroom is not available, e.g. because the ceiling structure is full of insulation material, remove the insulation material from the area above the subwoofer. In this case, you should set up an insulation screening made of non-combustible plaster boards (min. 2x12 mm plaster). This plaster cassette's minimum inside dimensions should be: height: 190 mm, width: 470 mm and length: 500 mm. Remember to extend any existing vapour check around the plaster cassette. The plaster cassette also ensures compliance with fire regulations.

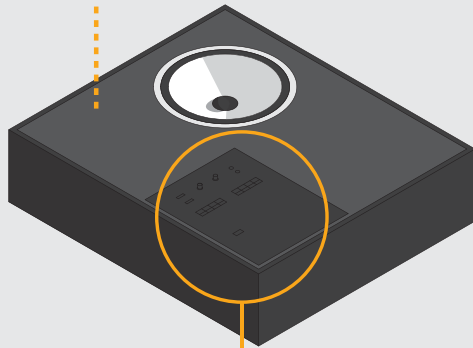
**Note:** When fitting in floor decks, the bass may disturb the adjoining room.

### 7. Installation of Troldekt acoustic ceiling

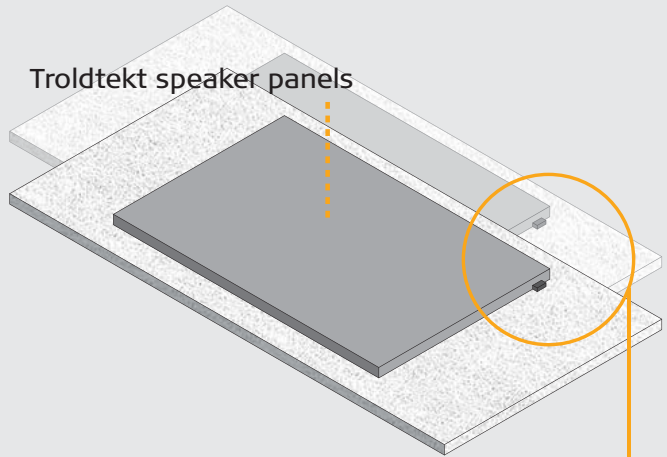
For correct installation of ceiling panels, please refer to the installation instructions for the selected Troldekt ceiling type. See [www.troldekt.com](http://www.troldekt.com)

INSTALLATION DIAGRAM

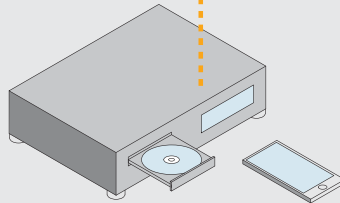
Troldtekt subwoofer



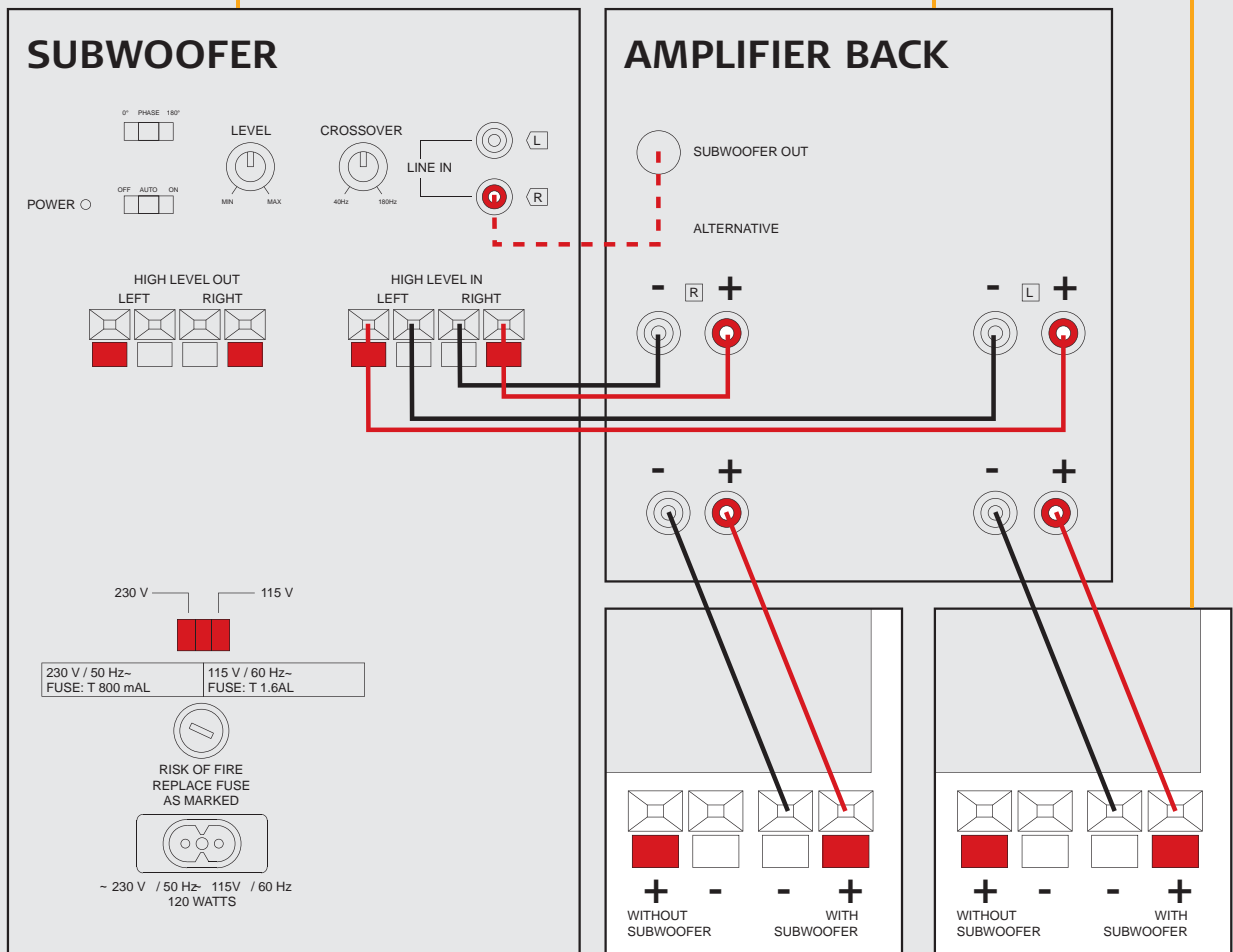
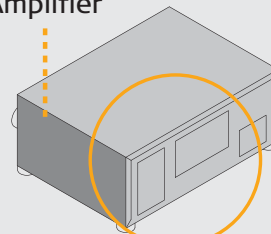
Troldtekt speaker panels



Sound sources



Amplifier



## AFTER INSTALLATION

### Troubleshooting:

#### System does not come on

1. Check that all power cables are correctly connected to amplifier/subwoofer/CD player etc.

#### System indicators switch on, but amplifier does not work

1. Check volume settings.
2. Check that the 'source' selector on the amplifier is set correctly.
3. Check that the cables are correctly connected to the IN/OUT terminals.

#### System fails when sound is turned up

1. Check that the cables between subwoofer and amplifier are correctly connected.
2. Check that the speaker cables are correctly connected.

## TECHNICAL DATA

### Speaker panel

#### Dimensions

25/53 x 600 x 600/1200 mm (or by agreement)  
35/63 x 600 x 600/1200 mm (or by agreement)

#### Power

30 / 35 W RMS - 150 W max.

#### Sensitivity

85 dB @ 2.83 V / 1 m

#### Max. sound power level

101 dB @ 1 m

#### Impedance

8 ohms

#### Frequency range

90 Hz - 20 kHz (-6 dB)

#### Filter

High pass 12 dB/octave

#### Protection

Automatic overload protection

#### Distribution

> 170 degrees

#### 100 volts

Possibility of 100 V connection by purchasing a line transformer

### Subwoofer

#### Dimensions

465 x 490 x 125 mm (170 mm med ledning)

#### Power

80 W RMS - 240 W max.

#### Max. sound power level

90 dB @ 1 m

#### Impedance

4 ohms

#### Frequency range

45 Hz - 200 Hz (-6 dB)

#### Mains voltage

110/230 V/120 W

#### Weight

13 kg

#### 100 volts

Possibility of 100 V connection by purchasing a line transformer

## FURTHER INFORMATION

Changes, errors and omissions excepted.  
You can always download the latest version of these installation instructions from [www.troldtekt.com](http://www.troldtekt.com), where you will also find all our other Troldtekt installation instructions.