The B30 touring version set a standard in footprint to output ratio to this day. The logical consequence is to integrate this loudspeaker also as an install version in the TWAUDiO range.

The hybrid construction of our B30i with 2 × 15“ speakers combines the advantages of bass reflex and horn systems – high efficiency, great range and a deep low frequency limit.

The connection to the acoustic field happens over the entire front area thus reducing air friction and flow losses to a minimum. The result is efficient energy transfer with simultaneous controlled impulse reproduction and excellent dynamics.

And at about 36 kg (80 lbs) the B30i is a lightweight. The relation of its size, weight and output turns this TWAUDiO classic into something special.

Key Features

- Subwoofer with great musicality in a hybrid design
- 2 × 15” long excursion chassis with high sensitivity
- High SPL output over wide frequency bandwidth in lightweight enclosure
- Outstanding footprint to output ratio
- Coherent phase response with all TWAUDiO subwoofers
- Operation with dedicated TWAUDiO presets on Lab.gruppen PLM/D or Powersoft K/X series

Applications

- Clubs, bars, restaurants, theatres
- Conference rooms or churches
- TV studios
- Movie theatres

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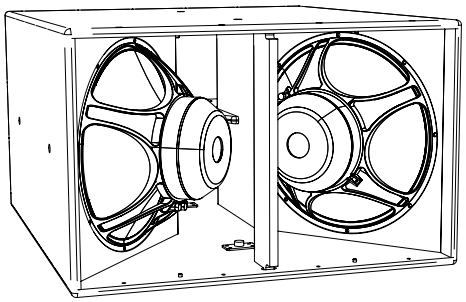
TWAUDIO®

B30i
DATASHEET

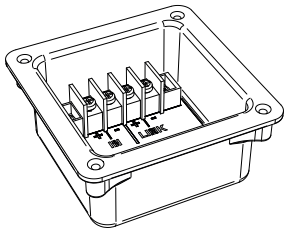
Technical Data



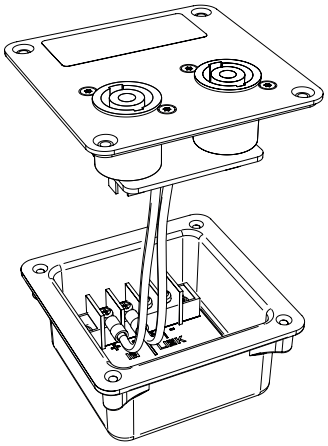
Drivers	2 × 15" LF
Frequency range	35 Hz - 110* Hz
Power capacity program / peak	2000 / 4000 W
Impedance	8 Ω
Coverage	omni
Sensitivity 1 W / 1 m	97 dB
SPL max / 1 m	133 dB
Connection	screw terminal IN± | LINK±
Optional connections	speakON™ NL4 | cable gland
Dimensions (H × W × D)	440 × 700 × 800 mm | 17.3 × 27.6 × 31.5 in
Weight	36.3 kg | 80 lbs
Finish	Warnex texture paint (RAL colors optional), polyurea coating (black) optional
Accessories	RSM10

* With dedicated presets a frequency of up to 200 Hz can be achieved.

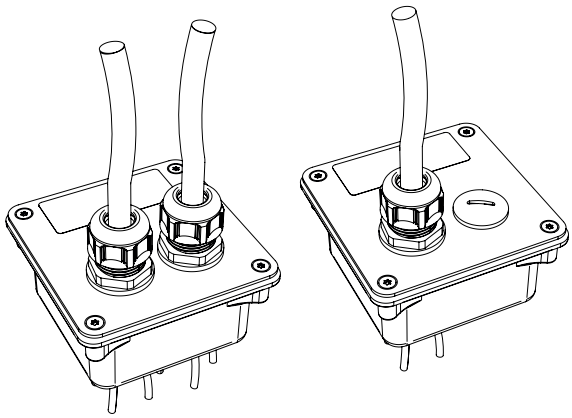
Connections



STANDARD SCREW TERMINAL



speakON™ - OPTION
SO sub #4704



CABLE GLAND - OPTION
CG #4324

Notes

Frequency range:
Loudspeaker measured with dedicated preset in full space, corner-frequencies are at -6 dB in relation to the average response which is within a tolerance of +/- 3 dB.
Corner-frequencies can be extended with additional EQ.

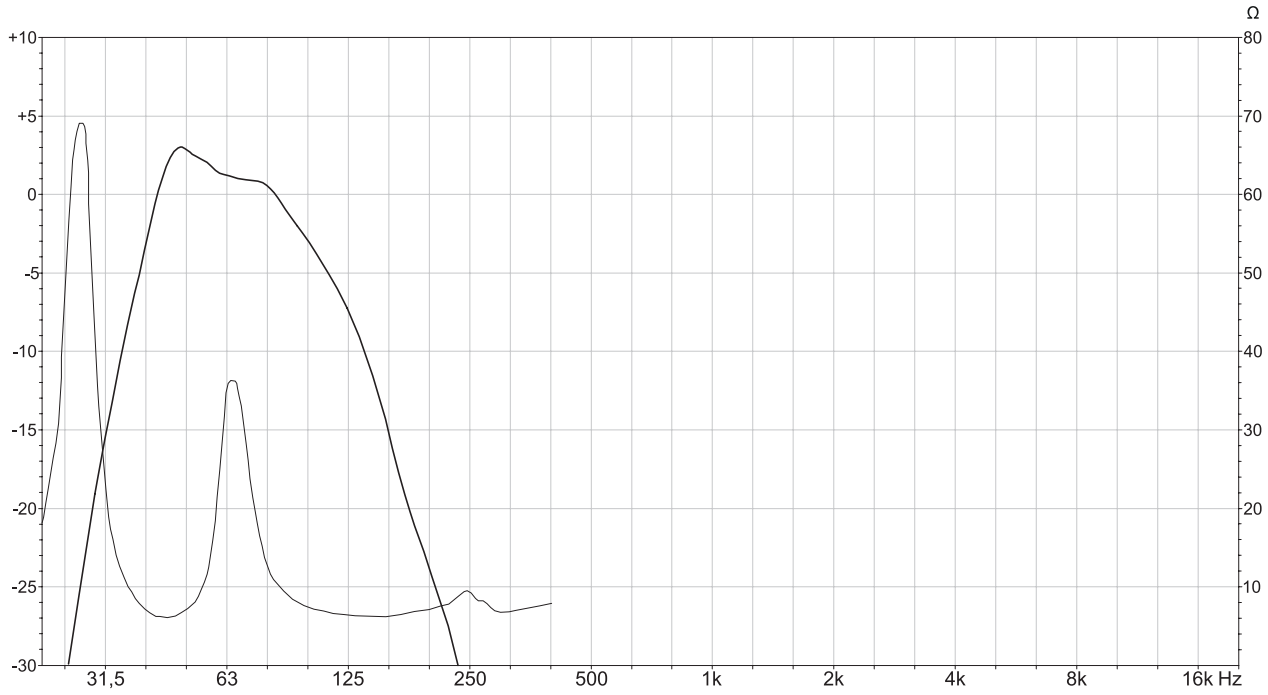
Sensitivity:
Sound pressure level the loudspeaker generates at 1 m distance to its frontgrille within its frequency bandwidth when applying 1 W in respect to its nominal impedance (2.83 V into 8 Ohms) in full space.

Dispersion:
Defines the nominal horizontal by vertical dispersion of the loudspeaker. Angles of nominal dispersion are defined at the points where the average SPL dropped down by -6dB compared to on axis measurement. This affects mainly the mid-high frequency range above 1 kHz. HF-horns are rotatable or / and exchangeable.
Low frequency dispersion mainly depends on the size of the sound source (loudspeaker) except in dedicated “cardioid products”.

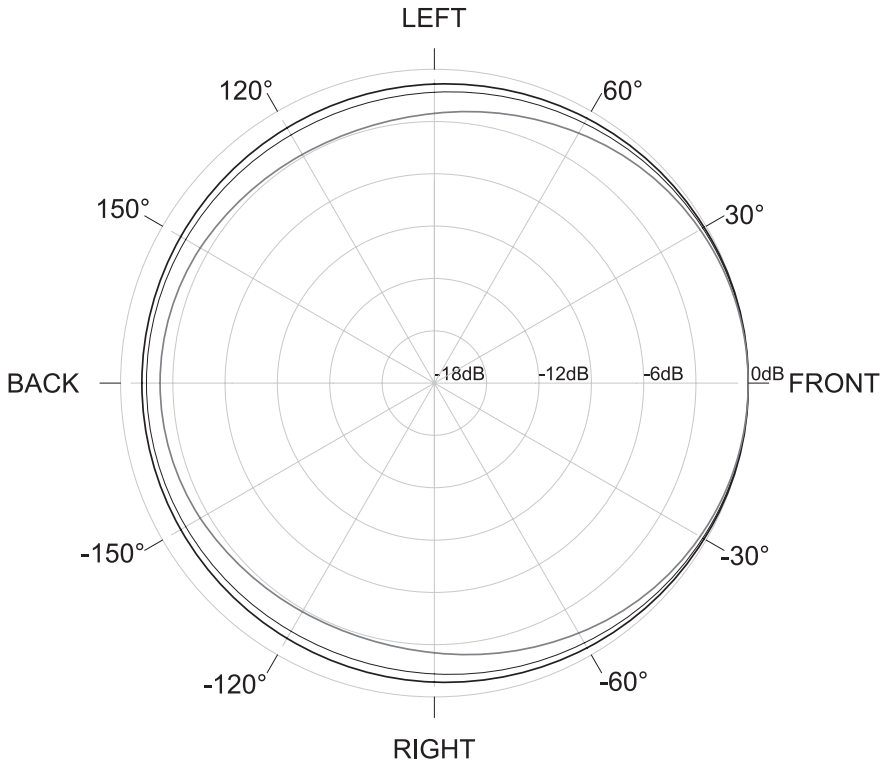
SPLmax / 1 m:
Sound pressure level the loudspeaker will generate at 1m distance to its frontgrille when applying 185 ms burst signals within the frequency band-width slightly increasing them until 10 % of total harmonic distortion will be reached (-> peak value. RMS value will be 3 dB lower). Without distortion limits and with bandlimited pinknoise with Crest factor 4, the peak SPLmax levels can be up to 10 dB higher at several frequencies.

Frequency response **WITH PRESET**

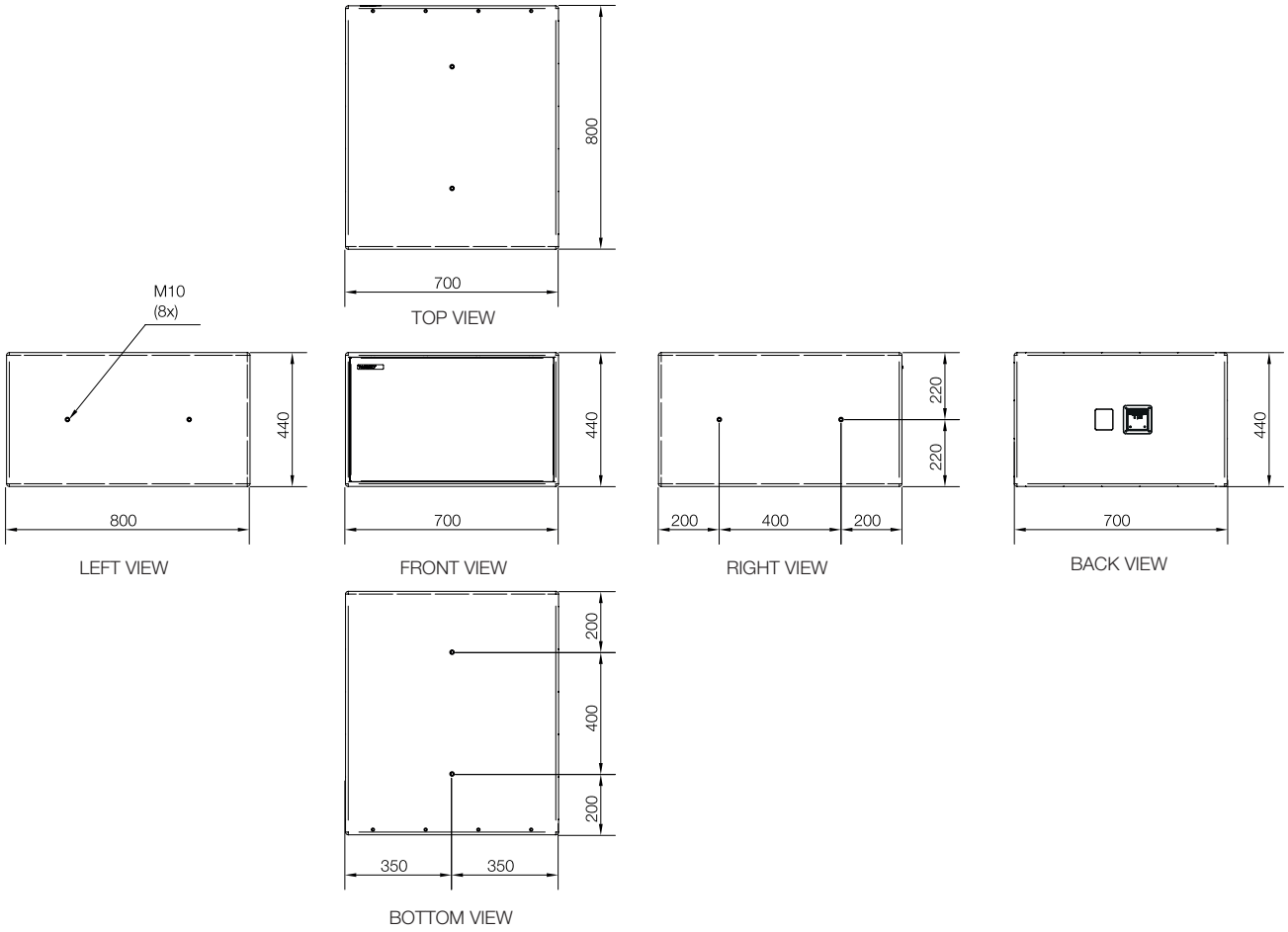
IMPEDANCE



Polar Pattern **40 Hz** | 63 Hz | **100 Hz**



Technical Drawing



Tender specification

The loudspeaker shall be of a hybrid horn/bass-reflex high performance subbass type design, able to be used singly or in multiple ground-stacked configurations. Its transducers shall consist of two 15-inch cone drivers, featuring a neodymium magnet assembly, and shall be rated to handle 2000 W program and 4000 W peak.

The loudspeaker performance specifications shall be: Operating frequency range shall be 35 Hz to 110 Hz, and up to 200 Hz, depending on the preset in use. Nominal impedance shall be 8 Ohms. Nominal sensitivity SPL shall be 97 dB at 1 W/1 m. Maximum peak SPL shall be 133 dB at 1 m. Beamwidth shall be 360 degrees for a single unit, whilst directional characteristics can be achieved with multiple cabinets.

The loudspeaker shall only be operated with a DSP amplifier, using dedicated presets, which all include equalization, phase and limiting functions.

Connections shall be done with screw terminals as standard, for additional environment resistance a sealing PG type gland coverplate can be used. As alternative, a coverplate with speakON™ NLT4 connectors, the loudspeaker being connected to Pin2+/-, shall be available too. Through all options the loudspeaker shall be linkable.

All components shall be mounted in a internally braced rectangular enclosure, being constructed of premium birch plywood with a black (as standard, other RAL colors as option) structured finish. For discreet appearance, no handles or rubber feet shall be fitted.

M10 threads on top, bottom and on both sides shall serve for mounting of additional rigging parts. Rigging equipment shall be available, allowing the loudspeaker to be flown in various onfigurations. The front protective grille shall be made of a perforated, non reflective powder coated and durable steel, backed by flame retardant, hydrophobic and acoustically transparent black fabric.

Dimensions shall be 440 mm (17.32“) in width, 700 mm (27.56“) in height, 800 mm (31.5“) in depth.
Weight shall be 36.3 kg (80.02 lbs).

The loudspeaker shall be the TW AUDiO B30i.

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