

seas

THE KITBOOK

NJORD 2-WAY BASS REFLEX 40 LITRES, 70 / 200 WATTS

Njord is a 2-WAY bass reflex system based on the CA21REX woofer and 25TFFC tweeter.

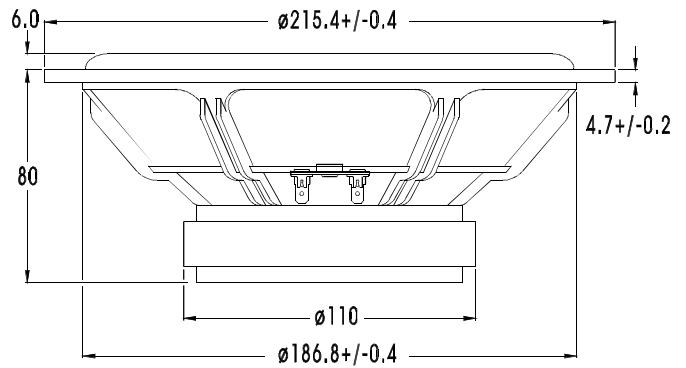
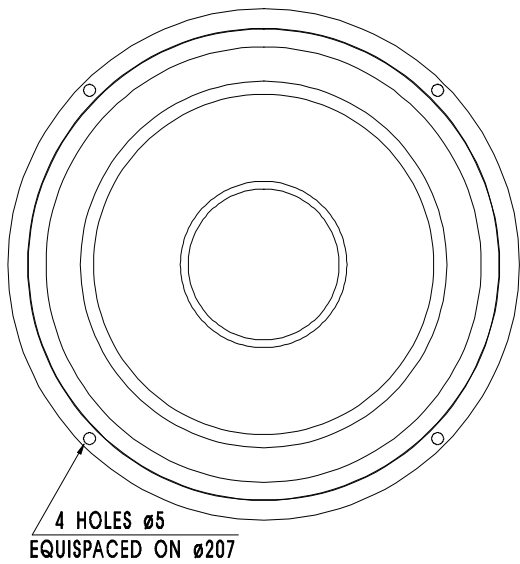
The system design has been supported by computer simulation, advanced measurement methods and several hours of listening. Our target was to design a system which can reproduce genuine bass, a well balanced voice range and finely detailed sound picture.

In our listening tests we used mainly recordings of modern blues and rock music, but also some classical music to verify the system's capability of reproducing details.

We feel that we finally reached our goal with this system, a pair of loudspeakers that are fun and engaging to listen to, and still have the capability to reproduce the fine details in the music signal.

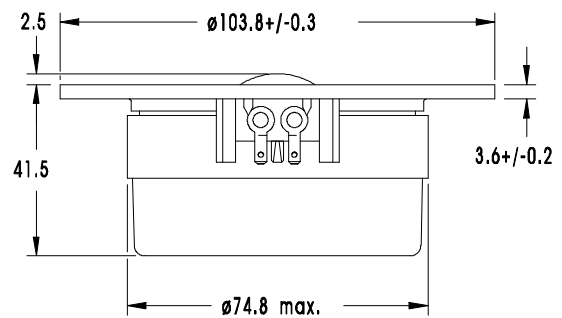
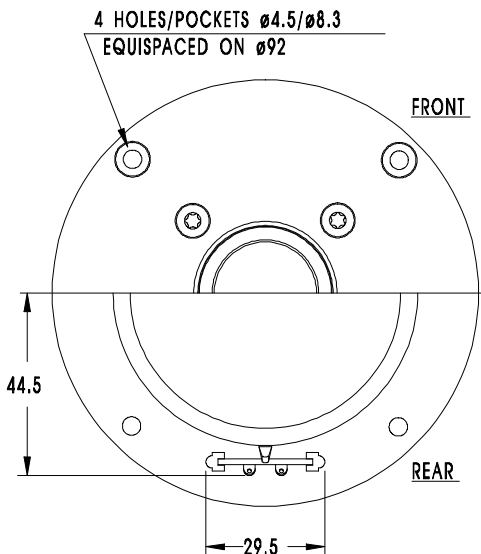
The optimal location of the NJORD cabinets are on 20-30cm high stands, and approx 70 cm from walls.

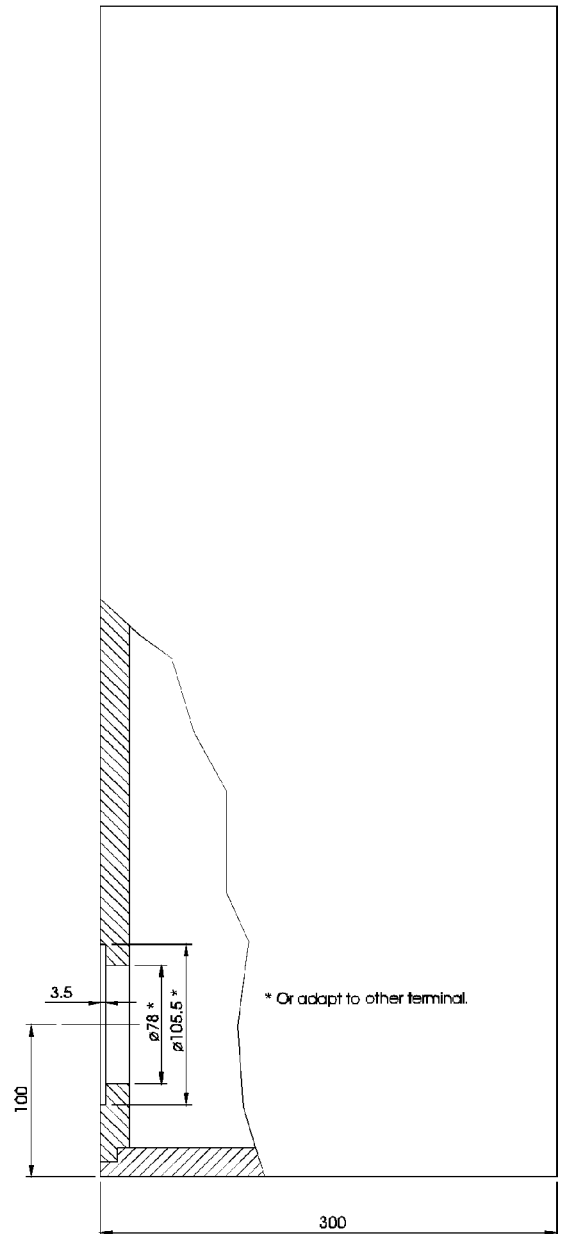
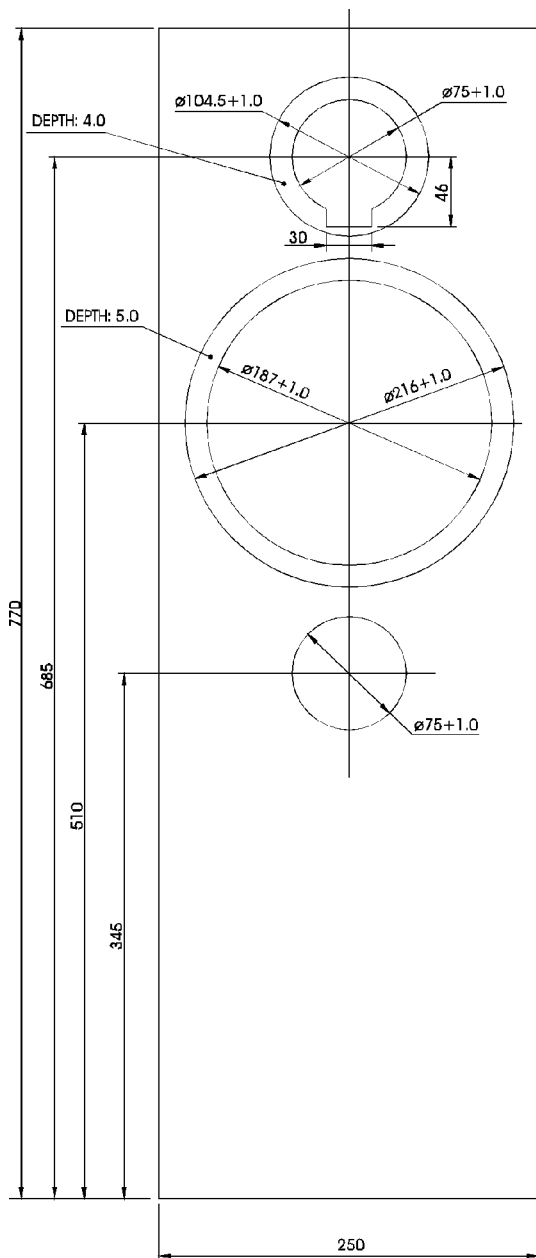
The design of Njord has been supervised by Jon Paulsen, who has been employed in the SEAS lab since 1984 and the marketing department since 1990.



CA21REX is an 8" High Fidelity woofer with an injection moulded magnesium chassis. This unit has excellent mechanical matching between a paper cone, a paper dust cap and a low loss rubber surround. A special treatment of the cone produces a well behaved roll off characteristic and reduces potential resonance problems. The magnet system has a T-shaped cross section of the pole piece for low modulation distortion. A relatively large voice coil diameter gives a high power handling capacity. A large magnet system provides high efficiency and low Q.

25TFFC is a 25mm High Fidelity fabric dome tweeter with glass fibre reinforced plastic chassis. Careful matching of fabric and coating results in a very smooth frequency response throughout the audible frequency range and gives a very high degree of stability against changes in air temperature and humidity. The voice coil is immersed in magnetic fluid, allowing high power handling capacity and simplified crossover design. A damped hole in the pole piece and a tuned chamber behind the magnet result in a low resonance frequency.





MATERIAL : 19 mm MDF or chipwood

DAMPING : 50 mm mineral wool, or 75 mm synthetic damping on all walls, except

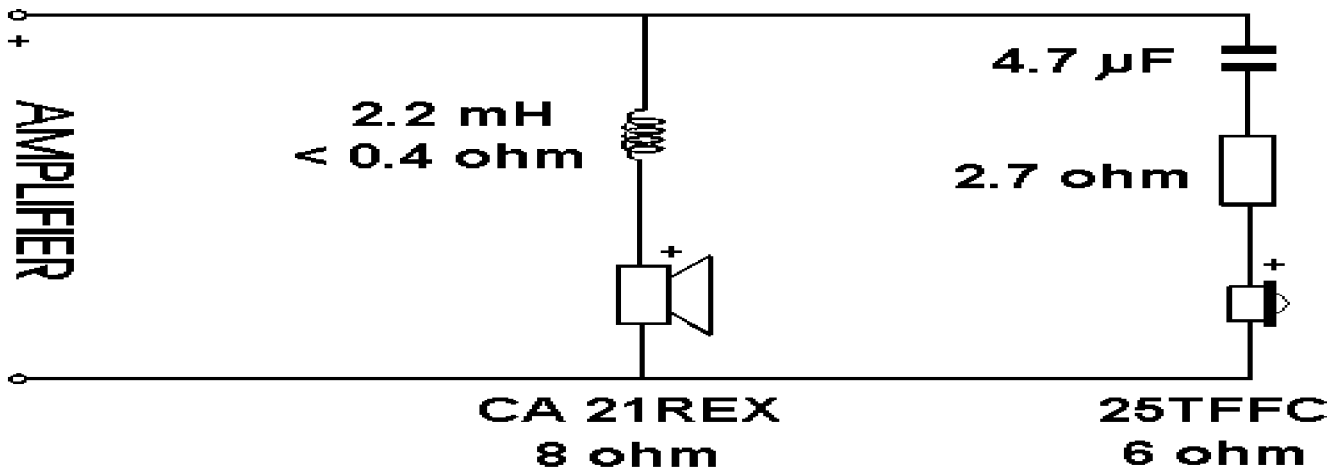
BASS PORT : ¥ 70 mm x 140 mm length

We recommend reinforcement (20mm x 20mm batten) from front to back between the woofer and the bass reflex tube, and one from side to side behind the woofer. This will reduce problems caused by vibrations in the cabinet walls.

An chamfered or rounded edge around the front baffle will reduce edge reflections which cause irregular sound radiation in the upper frequency range, especially on axis.

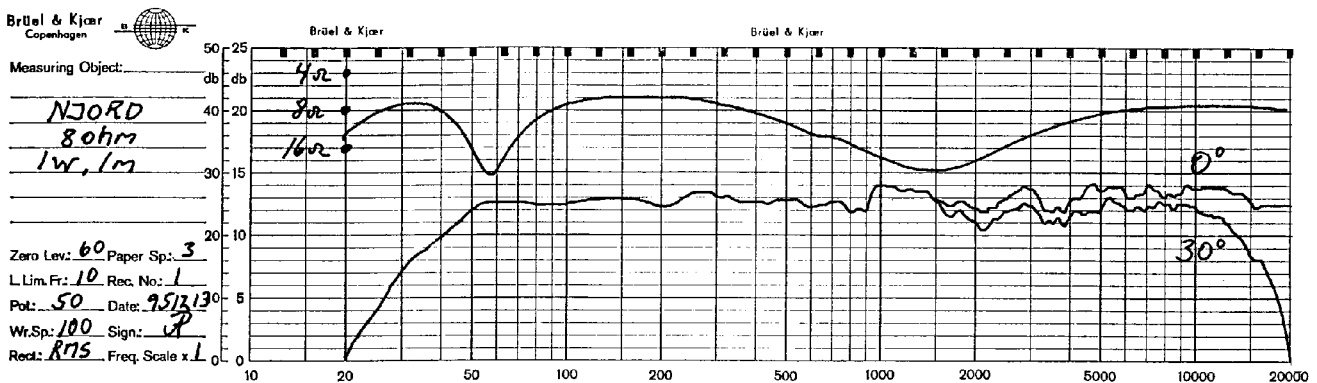
The cabinet may be filled with up to 5 litres of dry sand in the bottom of the cabinet to improve the stability and to give a higher damping. This is recommended if the cabinets give too much bass.

CROSSOVER



The combination of drivers allows us to use a simple 6 dB / Oct crossover. This crossover is not very critical to variation in the component values.
We recommend the use of film capacitors.

Sound pressure and impedance curves recorded in anechoic chamber (Free-field 4 pi radiation)



TECHNICAL DATA

IMPEDANCE 8 Ohms
 SHORT TERM MAX. POWER * 200 W
 LONG TERM MAX. POWER * 70 W
 CROSSOVER FREQUENCY 2500 Hz
 FREQUENCY RANGE 30-20000 Hz

SENSITIVITY 88 dB SPL
 OPERATING POWER 6,3 W
 RECOMMENDED AMPLIFIER 15-120 W
 DIMENSIONS 250x770x300 mm
 CABINET VOLUME 40 Litres

* = IEC 268-5

SEAS reserves the right to change technical data