

# SA 4512 & SA 4512S



- **MAXIMUM FLEXIBILITY**  
suitable for mid-range and L.F. applications
- **VERY PRACTICAL SIZE**  
610 mm x 445 mm x 740 mm
- **HIGH ACOUSTIC OUTPUT**  
increases speaker efficiency ca. 6dB
- **ROAD PROOF**  
very solid construction





Designed primarily for mid-range sound reinforcement with 12" loudspeakers, the SA 4512 and SA 4512S cabinets can also be used with 15" loudspeakers as low frequency section of a multi-way system. This flexibility together with the small physical dimensions and low weight make this cabinet ideal for modular sound systems that can be handled easily by a single person and stacked into any size truck or van. Compared to the same driver as a direct radiator, it provides a 4 to 7 dB increase in sensitivity. The vented rear chamber extends driver loading and full power handling capacity down to below horn cutoff.

A compact system with high acoustic output and low distortion can be formed with two 4512's with JBL E-145 loudspeaker for low frequency reproduction up to 200 Hz and one 4512 with E-120 loudspeaker as midrange unit from 200 Hz to 1900 Hz. Complete this with a 1" driver coupled to a bi-radial horn such as the JBL 2425 and 2344, and you will be surprised at the loudness and sound quality of this system. Of course many other combinations are possible such as the stacking in large arrays to form a modular bass horn down to 40 Hz, or the use as mid-range unit together with SA 4518 W-bins in large P.A. systems.

### SA loudspeaker cabinets: the ultimate in flexibility

Used as a mid-range unit with a 12" loudspeaker, the 4512 has a usable flat axial response from 100 Hz to 1900 Hz,  $\pm 6$  dB. For this application the optimal tuning of the rear chamber is with both port slots open.

Used as a low frequency unit with a 15" loudspeaker, the 4512 has a usable response from 50 Hz to 400 Hz. Now the optimal tuning of the rear chamber is with one port slot open and one slot blocked.

The 4512 cabinets are shaped very accurate with long-life nylon moulds to obtain the highest degree of precision possible with wood. The result is a very tight fit that guarantees optimal glue joints without any seams or leaks. The outside panels are made of multi-laminate birchen plywood for maximum solidity. The inside panels are made of M.D.F., a very dense material with superior acoustic qualities to eliminate unwanted resonances.

The 4512, intended for permanent installation, is available in black finish with or without speakers. The 4512S is the flightcase version with protection strips, steel corners and heavy duty castors. It is available with perstorp finish in black with or without speakers and in blue with speakers only.

### Specifications

#### Frequency range:

E-120	100 Hz - 1900 Hz, $\pm 6$ dB
2202	100 Hz - 1200 Hz, $\pm 6$ dB
E-140	60 Hz - 400 Hz, $\pm 6$ dB
E-145, 2225	50 Hz - 400 Hz, $\pm 6$ dB

#### Power capacity:

E-120, 2202, E-145	150 W (continuous sine wave) 300 W (continuous program)
E-140, 2225	200 W (continuous sine wave) 400 W (continuous program)

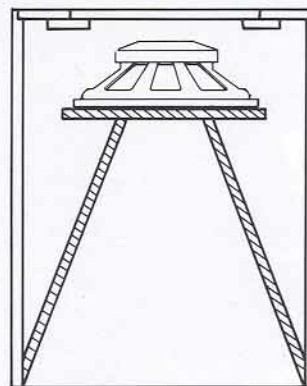
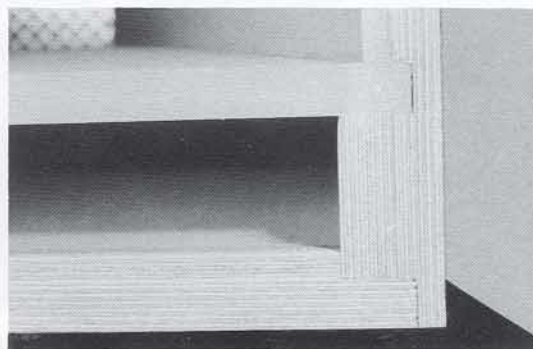
Nominal impedance: 8 $\Omega$

Sensitivity:  
(at 1W, 1m,)

E-120	107 dB (300 Hz-1900 Hz)
2202	106 dB (300 Hz-1200 Hz)
E-140	105 dB (300 Hz- 800 Hz)
E145, 2225	103 dB (300 Hz- 800 Hz)
Beamwidth:	60° x 60°

★Figures mentioned above apply only for units fitted with JBL E-120, E-140, E-145, 2202 or 2225 loudspeakers.

Typical panel joint construction of the 4512



Cross-section of the 4512

#### Dimensions:

width	x height	x depth
610 mm	x 445 mm	x 740 mm
24"	x 17 1/2"	x 28 3/4"

#### Weight:

4512 (empty)	34 kg. (75 lbs.)
4512 (with speaker)	44 kg. (97 lbs.)
4512S (empty)	42 kg. (92 1/2 lbs.)
4512S (with speaker)	52 kg. (114 3/4 lbs.)

Stage Accompany reserves the right to change specifications without notice. As a result of constant research SA products may differ from published description but will always equal or exceed the specifications stated above.

