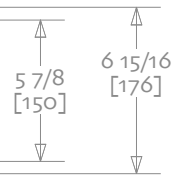
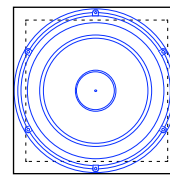
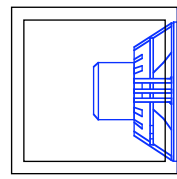
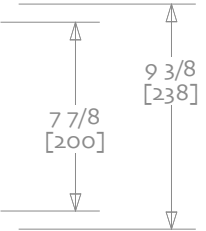
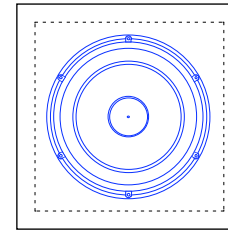
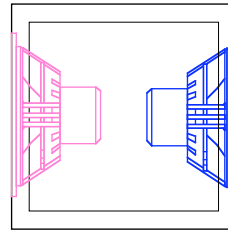
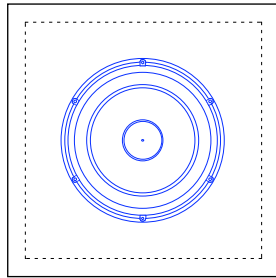
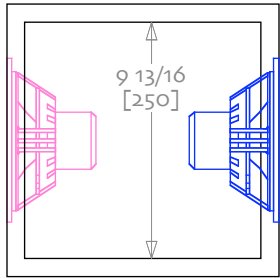


Sealed SDX7

Sheet 1 – The Cubes

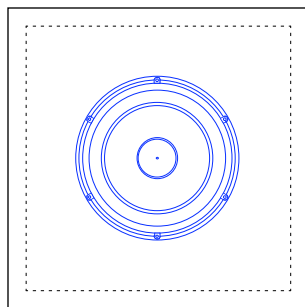
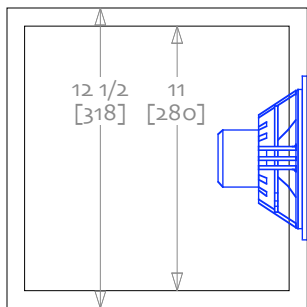


1 x SDX7 Q = 1.0

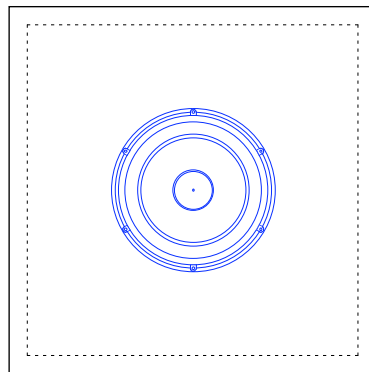
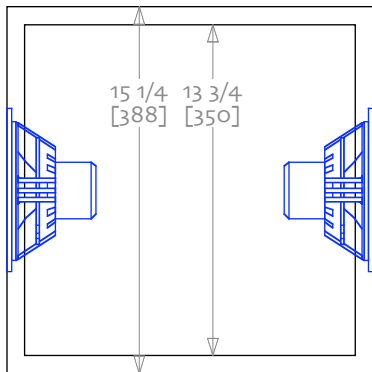


1 x SDX7 Q = 0.7 or 2 x SDX7 Q = 1.0

1 x SDX7 Q = 0.577 or 2 x SDX7 Q = 0.7



1 x SDX7 Q = 0.5



2 x SDX7 Q = 0.5 or 4 x SDX7 Q = 0.62

The SDX7 works well in a small sealed box. The driver's small size & its ability to go up relatively high means that the box aspect used can vary considerably. Here are illustrated some possible realizations. Since sealed box size is non-critical, anything between the extremes shown will work.

These examples are based on 4 sizes of box with Q = 1.0, Q = 0.7 (butterwork max flat amplitude) Q = 0.577 (Bessell max flat phase) and Q = 0.5 (critical Q). These have net volumes of 3, 7, 14, 21 litres respectively (1/8, 1/4, 1/2, 3/4 ft³) and assume 1 lbs/ft³ stuffing. Less stuffing will require a box a bit bigger to achieve the same Q values

F10 are 53, 40, 35, 32 Hz. Since the motor is low distortion, and there is lots of excursion (red curve is excursion at 100W), these can readily be EQed to go really low.

Notes:

o/ on this page all of the coxes are exact cubes

1/ examples use 3/4" (19mm) material (for the smaller ones, you could go as small as 1/2" (12mm) void free plywood.

1/ all boxes have been sized to accomodate a brace except the smallest one.

2/ double volume for 2 drivers, quadruple it for 4 drivers.

