

THE H.C. TYPE CORNER HORN

WE do not recommend the practice of using Voigt loudspeakers on plane baffles.

PERHAPS THIS WILL ALSO
INTEREST A FRIEND

R839935

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Owing to the intense magnetic damping of Voigt speakers, the movement of the diaphragm is controlled, and consequently the improved reproduction of transients is accompanied by a restricted output in the lower region unless the diaphragm is loaded so as to do work at those frequencies.

Some of the reasons why the plane baffle is so popular are that it is relatively easy to construct, inexpensive and not very heavy. It does not, however, provide adequate loading at low frequencies for the Voigt speaker. Overleaf is illustrated the H.C. type horn which does not fail in this respect and, owing to its superior performance, has replaced plane baffles in many cases, even when using other makes of units which have weaker magnetic fields. As will be seen from the illustration, the horn is simple, and, therefore, relatively inexpensive. It weighs only 24 pounds, and when standing in a corner, as intended, takes up far less space than a baffle having a corresponding bass cut off.

The horn stands 5 ft. 1 in. high, while the two plane back walls project from the corner approximately 18½ in. As normally supplied, the horn is in white wood ready for staining and polishing to suit its surroundings. If preferred, a curtain of light jap silk can be suspended in front of it. By making the colour scheme of the finish tone in with that of the room, the horn becomes quite inconspicuous when compared with a large plane baffle.

The bass cut off, in actual practice, varies slightly with the magnetic damping, and diaphragm dimensions. It is different from that obtained with a flat baffle, and in effect is better than that obtained with a baffle of as much as 7 ft. side. Moreover, the actual efficiency is higher owing to the loading effect.

Additionally, the beam effect which is so noticeable with flat baffles is practically absent. This is partly due to the fact that the beam is spread in a vertical direction, thereby eliminating excessive concentration in

any one spot, and partly to the fact that listening normally takes place within an angle of not more than 45° off the axis.

The H.C. horn will be found eminently suitable for use with existing units having diaphragms of from 5 in. to 8 in. diameter, but, naturally, it works best with the Voigt loudspeaker unit (6 in. diaphragm) for which it was developed.



PRICE

H.C. HORN

"IN THE WHITE"

£2 15s. 0d.

TRANSPORT EXTRA

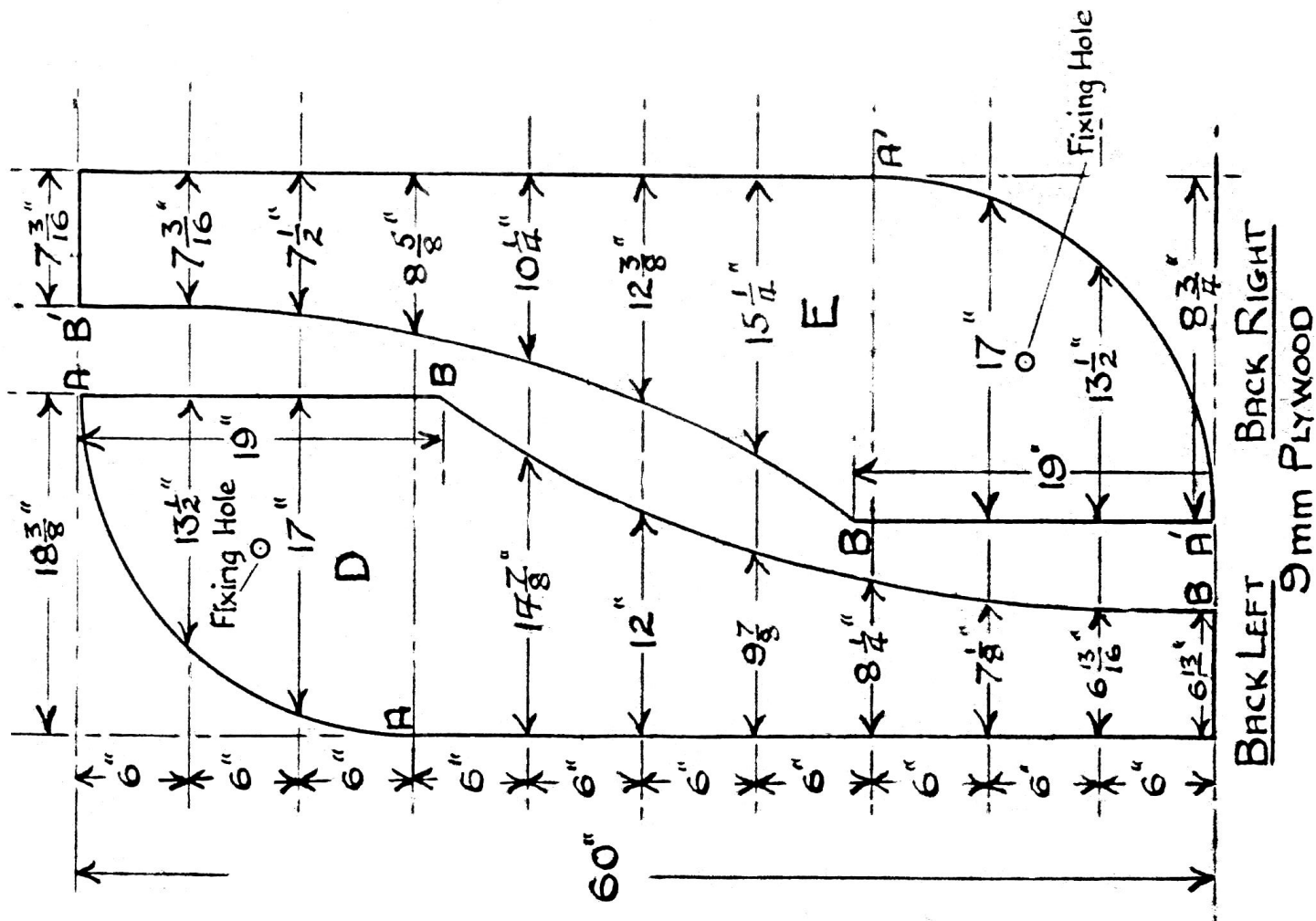
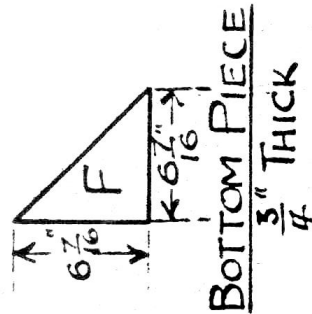


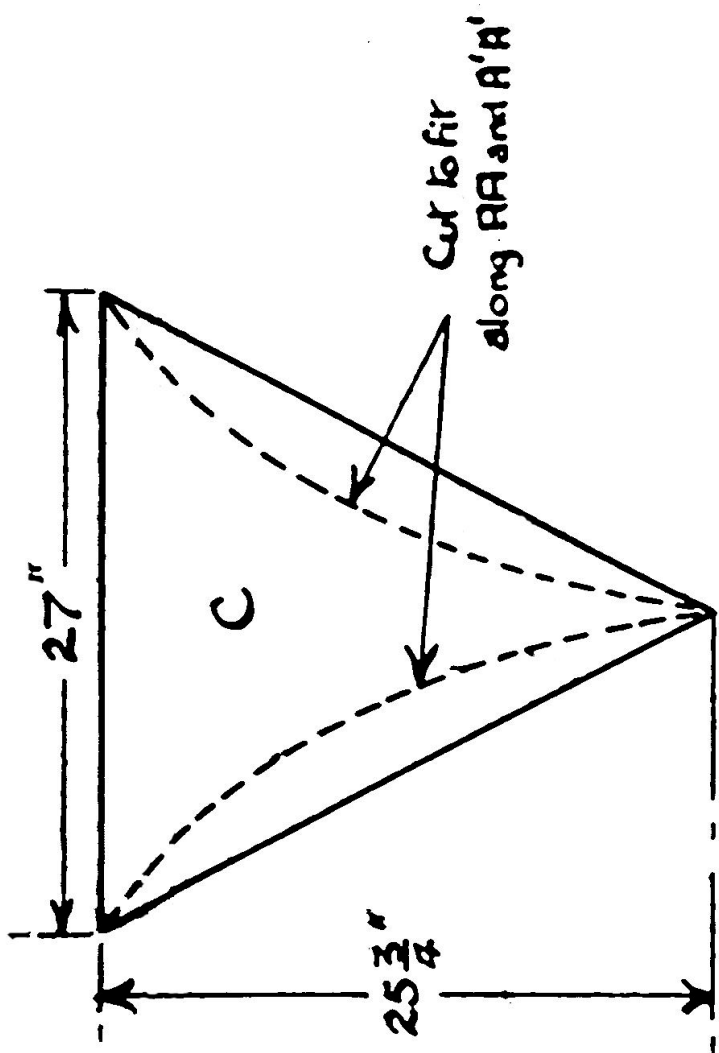
Prices of Special Finishes on application

IMPROVED CORNER HORN

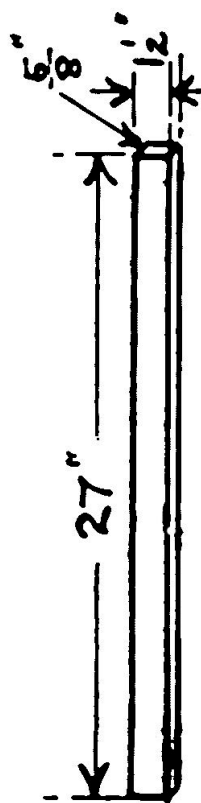
MATERIALS REQUIRED

9mm Plywood	60" x 30"
7mm Plywood	45" x 28"
"	" 28" x 28"
1 -	$6\frac{7}{8}" \times 6\frac{7}{8}" \times \frac{3}{4}"$
1 -	$27" \times 1\frac{1}{2}" \times \frac{5}{8}"$
1 -	$27" \times 1\frac{1}{2}" \times 1"$

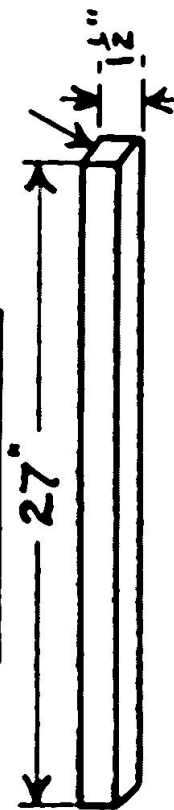




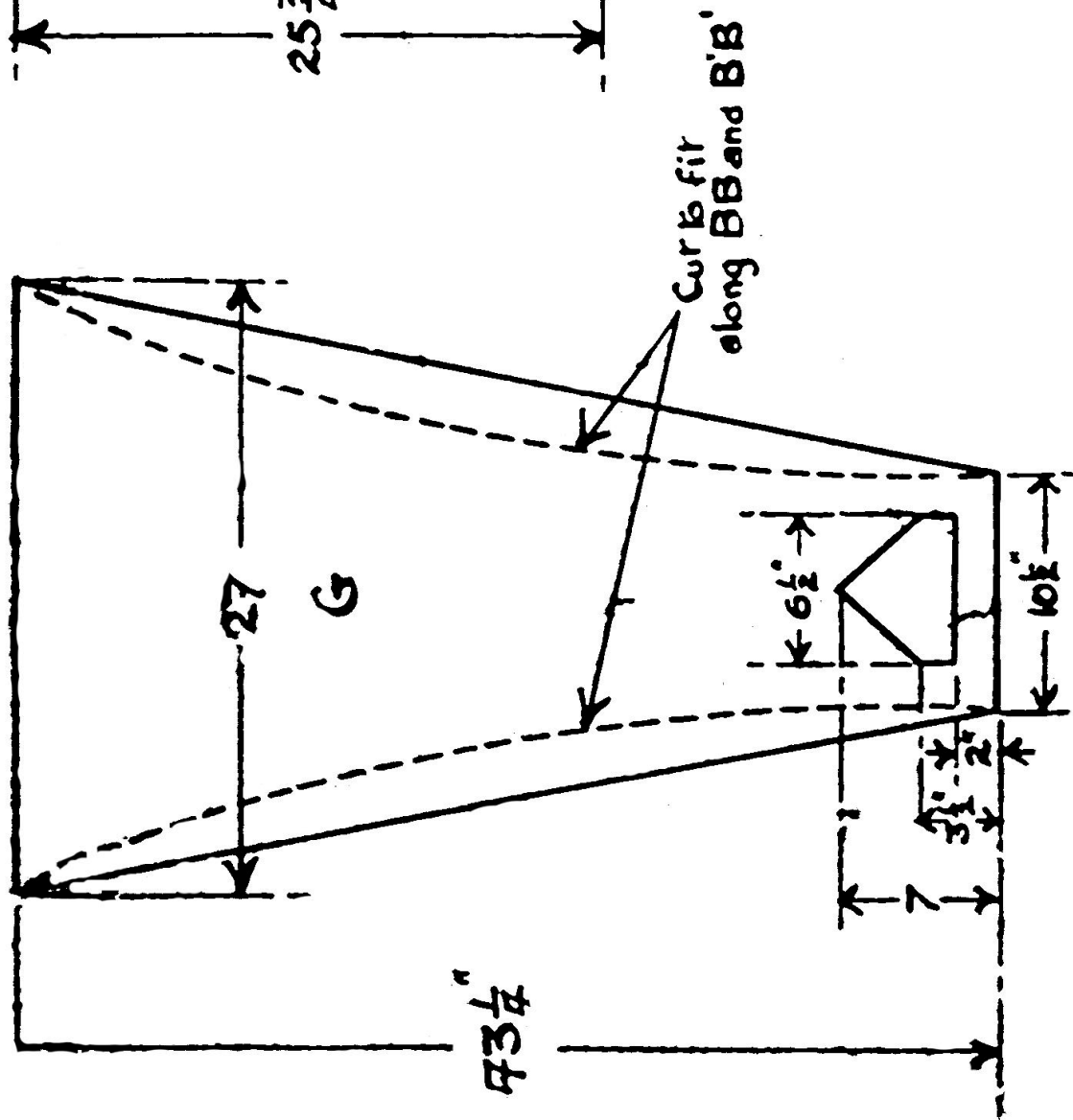
Top Piece - 7mm Plywood



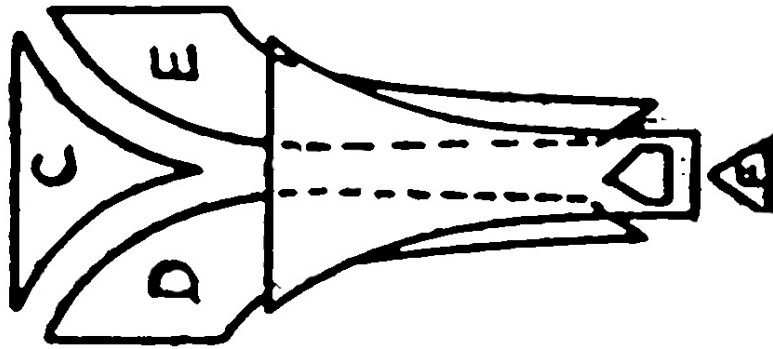
Front Support



Top Support



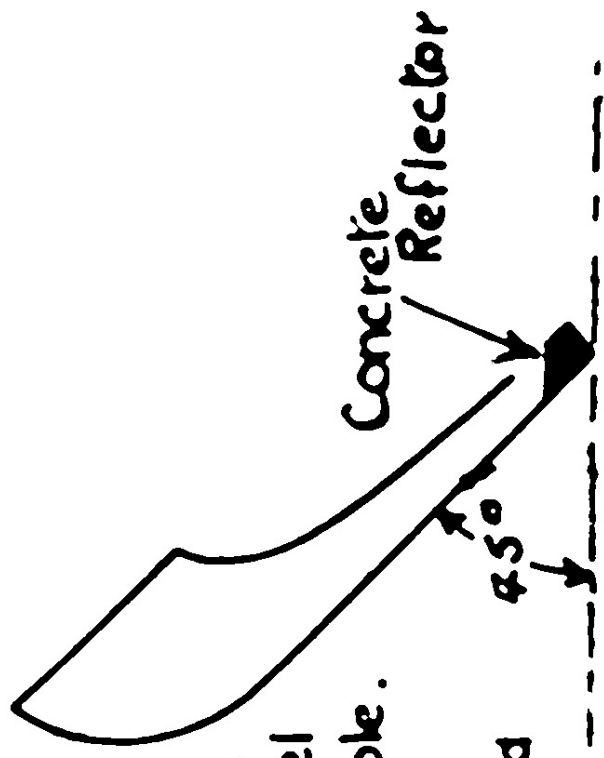
Front Piece 7mm Plywood



Support Hornas shown.
Fill with Concrete level
with bottom edge of hole.

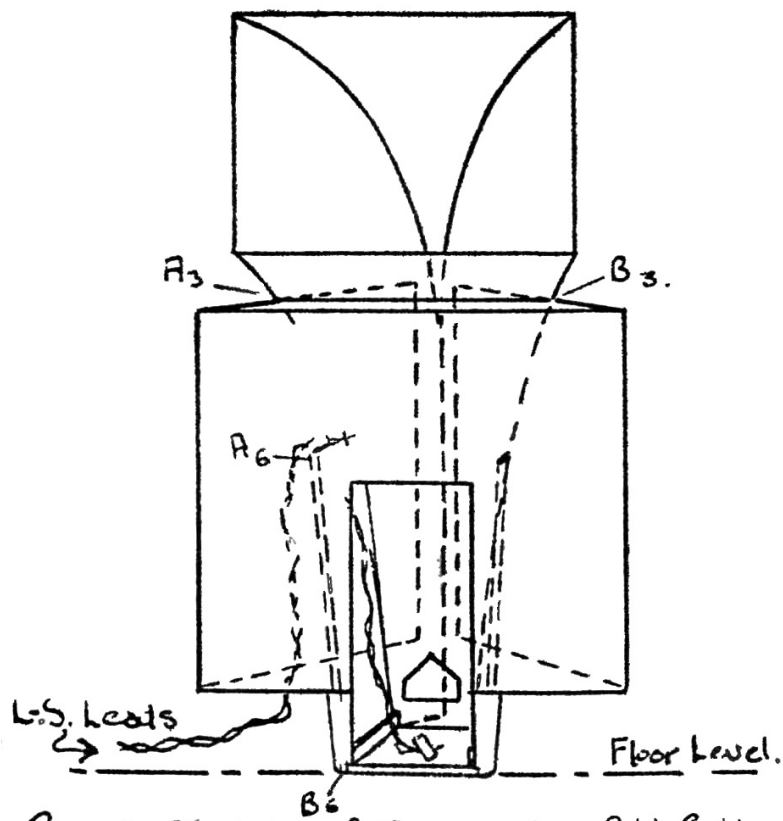
Concrete Mixture:-

Equal parts of Sand
and Cement.



HOME CONSTRUCTORS HORN

BASS CHAMBER



Rough Sketch of Assembly of H.C. Horn
& Bass Chamber [without door].

Drawn:- 25.5.37 J. H. Voigt	Checked:- 31.5.37 R. H. Voigt
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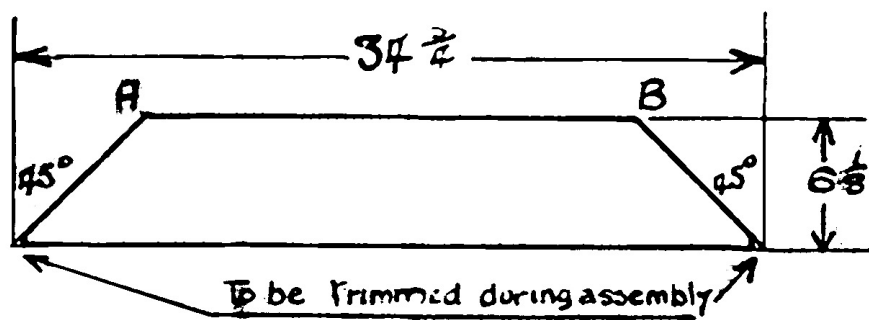
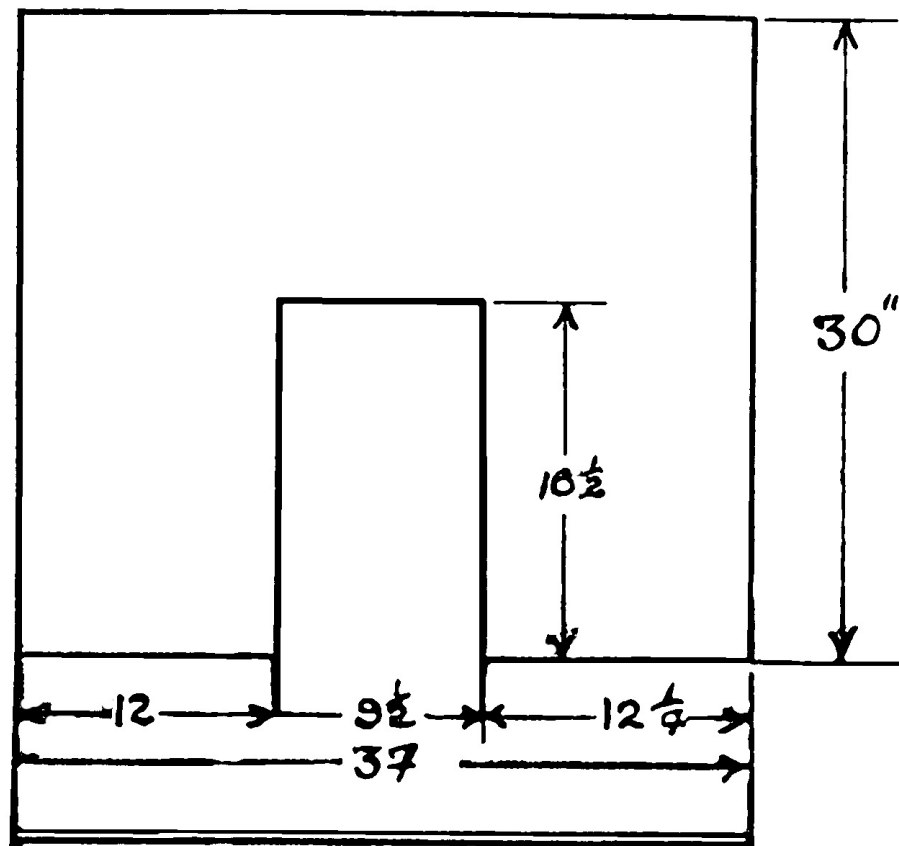
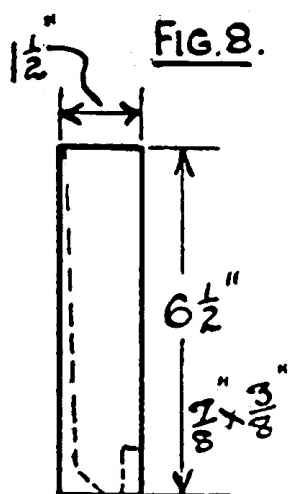


FIG. 3



To be fitted

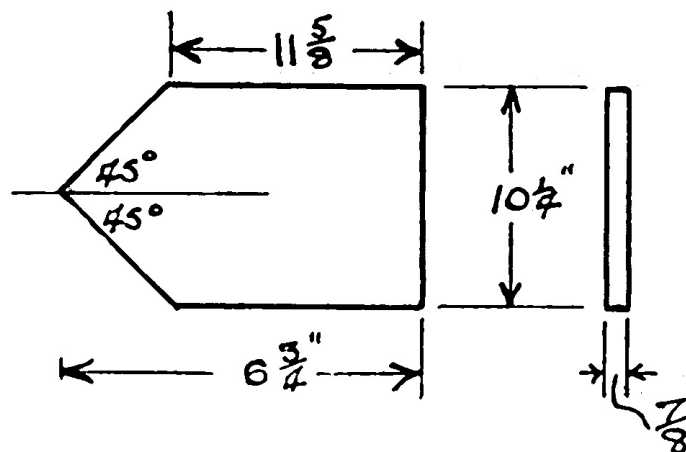


FIG. 5

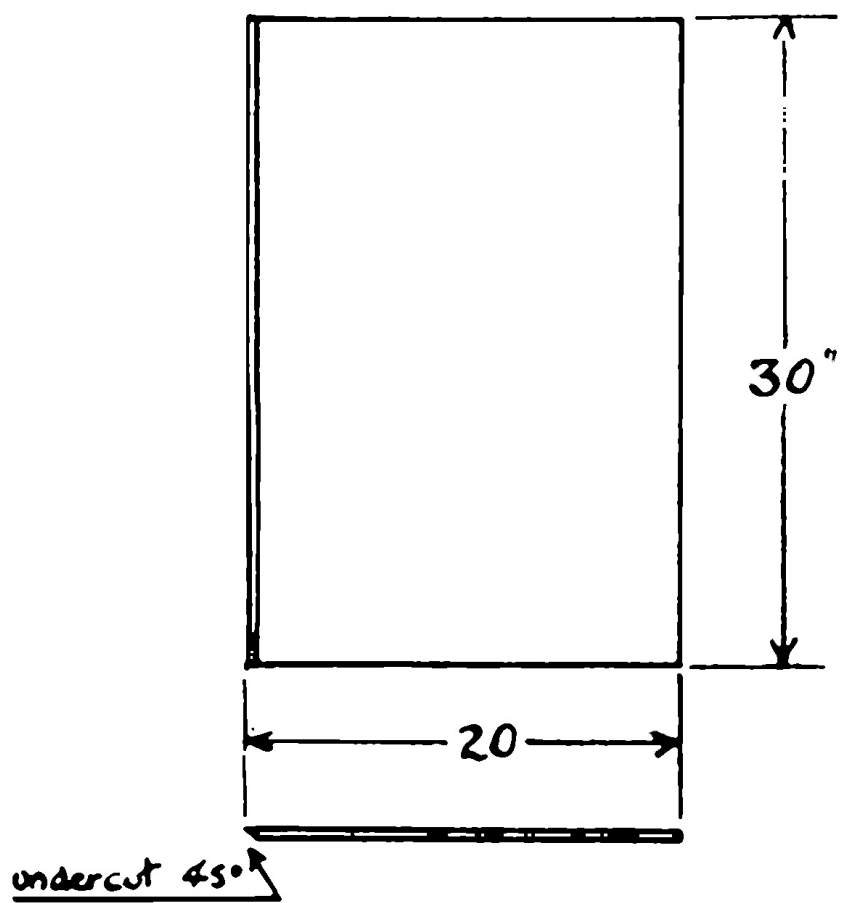


FIG. 9.

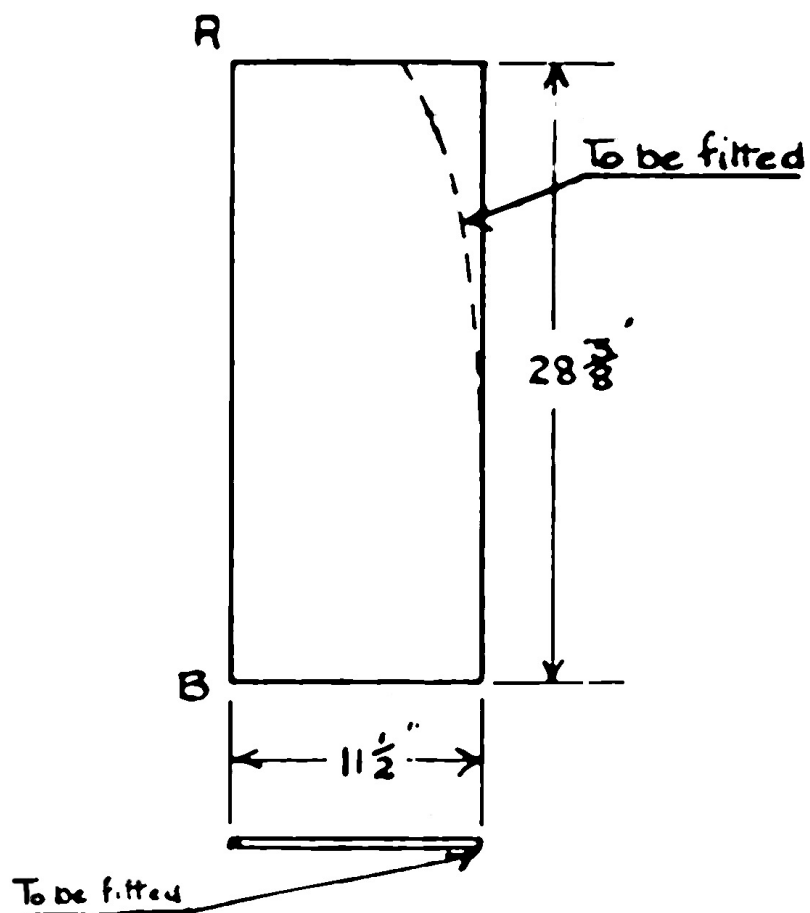
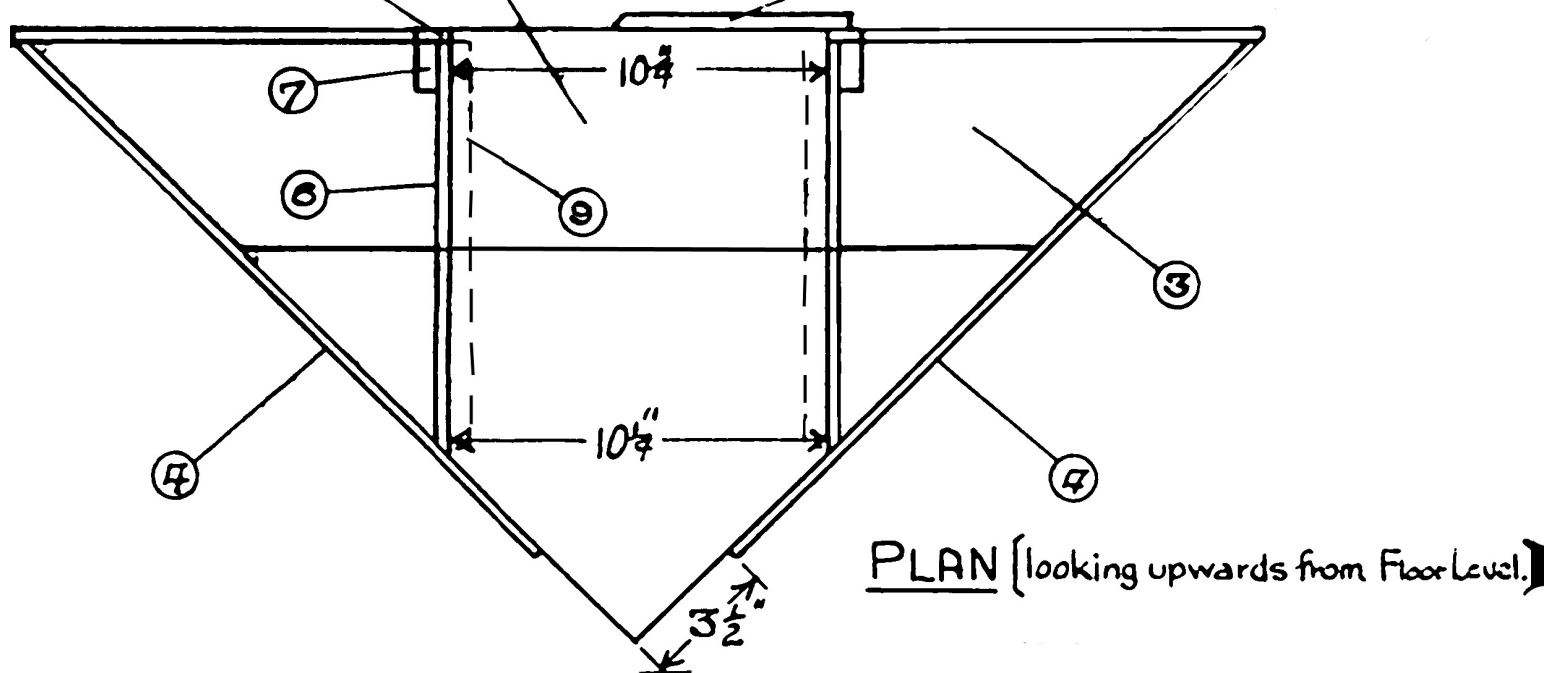
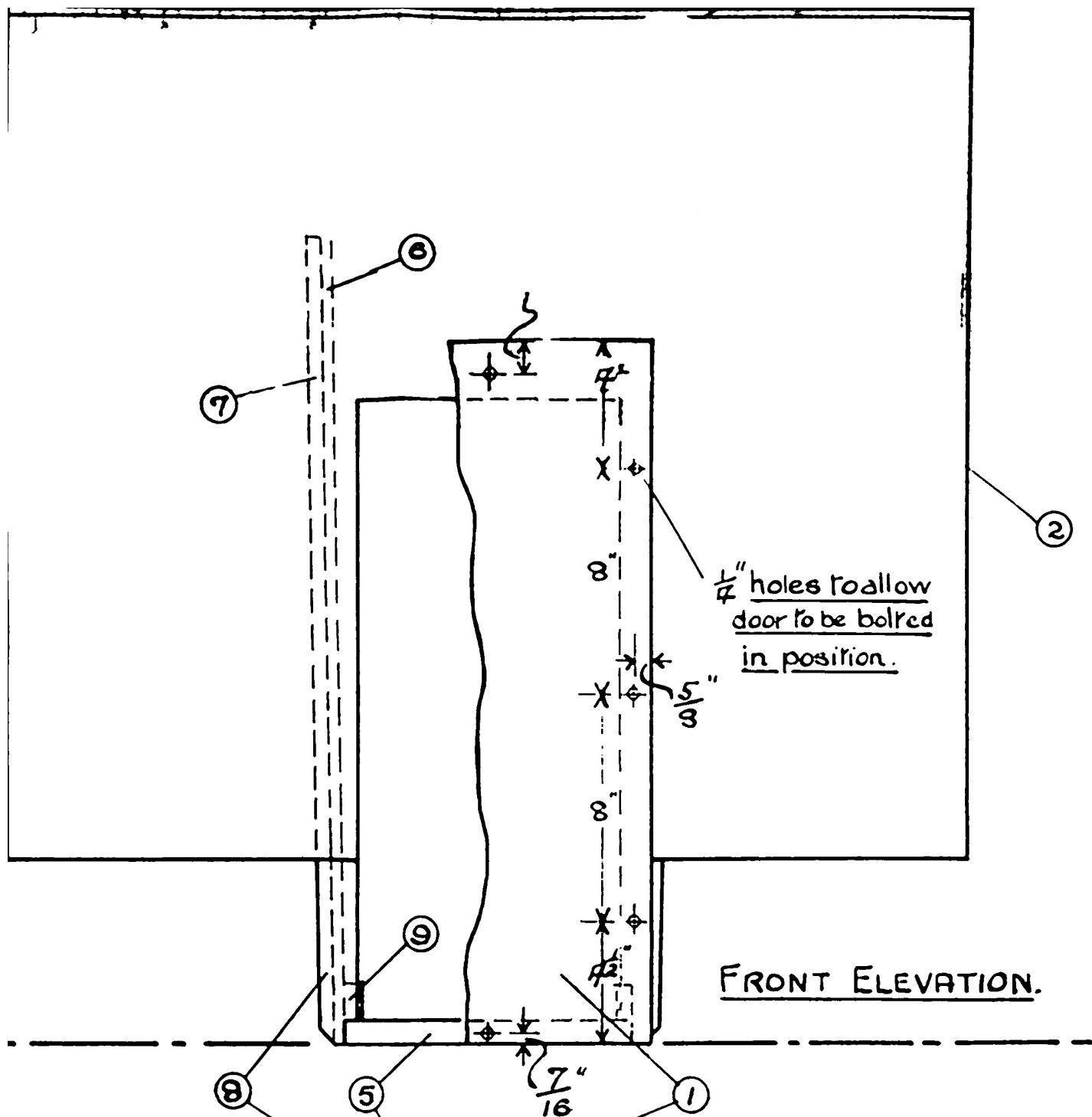


FIG. 6



No.	No. OFF.	DESCRIPTION	MATERIALS	DIMENSIONS	REMARKS
1	1	Door.	9 mm Ply.	12' x 25"	
2	1	BASS CHAMBER FRONT.	9 m.m "	FIG 2	
3	1	" " TOP.	9 m.m "	FIG 3	
4	2	" " SIDES	9 m.m. "	FIG 4.	
5	1	UNIT PLATFORM	1" board	FIG 5.	
6	2	PARTITIONS.	9 m.m. Ply.	FIG 6.	
7	2	" " SUPPORTS.	1 1/2" x 5/8" strip	1 3/8" x 1/2" x 28 3/8"	
8	2	FILLING PIECES.	9 m.m. Ply.	FIG 8.	To be fitted
9	2	BOTTOM SUPPORT for No 6	1 1/2" x 3/4" strip.	1 3/8" x 5/8" x 11 1/4"	
10	1	JOINT PIECES		5 feet.	To fix ③ AB. & ⑥ AB rs hom

It is essential that there should be no air leakage.

① Door must have strips of FELT glued round edges

② All joints must be glued and should have stuck on inside.

③ Loud SPEAKER LEADS are taken in thro' one of BASS CHAMBER OPENINGS - up over top of partition and dropped down to unit.

IMPORTANT