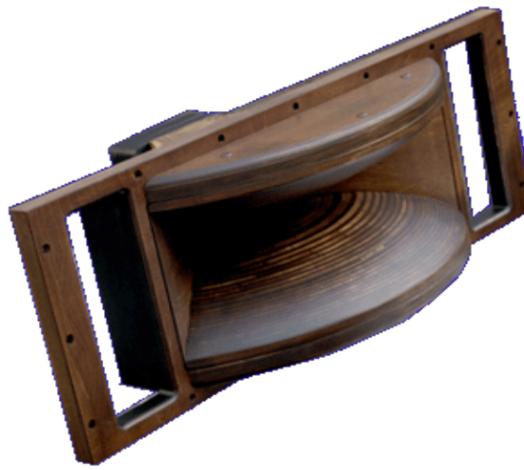


# A-290 FL Wood Horn

Uluru-Kata Tjuta National Park, NT, Australia

## A-290 FL Specifications

- = Horn Contour : Hyperbolic
- = Cut-off frequency : 300Hz
- = Frequency range : 600Hz to 20KHz
- = Driver : 2 in or 5 cm throat TAD 400x or JBL 2441/5 or equivalent
- = Size : W 560mm, H 230mm, D 390mm (inclu. 25mm throat adapter)
- = Wood Material : Cherry, Laminated lumber (3.0cm thickness)
- = Finish : Two coats of oil based clear polyurethane varnish (Dark oak color applied)
- = Note 1: No fin is used (This is to eliminate very small vibration of fins.)
- = Note 2: This model is designed and build for the Mid/High range for vertical twin TAD 1601 woofer system.



May 1992 Issue, MJ Magazine Tokyo

## Old MJ Reference System

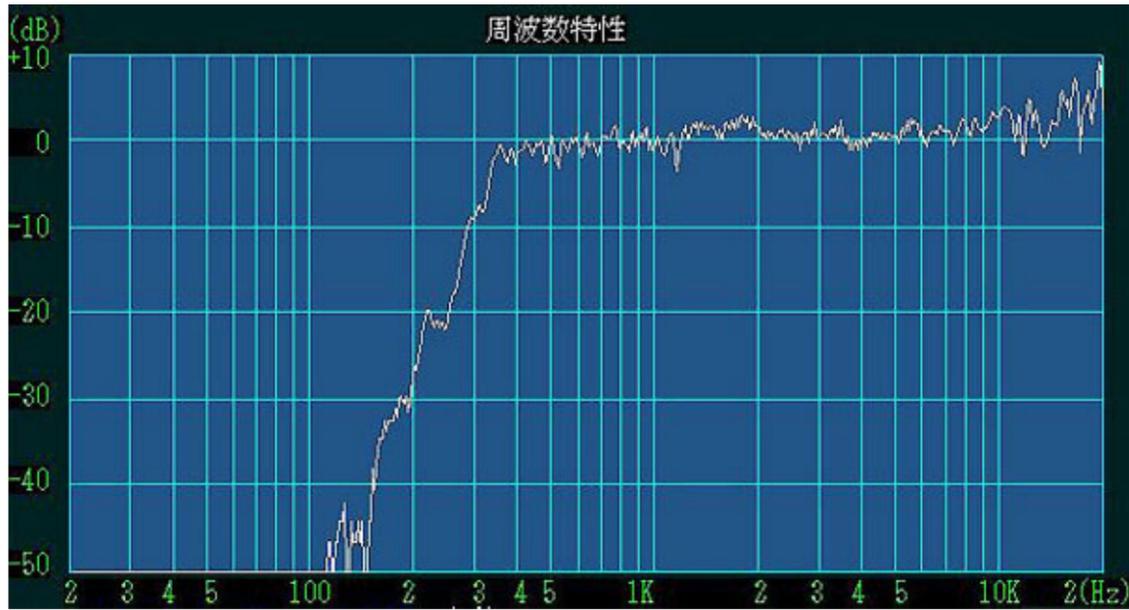


TAD-TL1601 x 2  
TAD-TD4001 x 1

## Building and assembly process

<b>Transfer horn contour on the laminated lumber by using the templates</b>	<b>Coarse cutting by the hand circular saw</b>	<b>Forming of side contour by using the template</b>	<b>Completion of a horn plate piece</b>
<b>Bonding process of three plates by epoxy</b>	<b>Drawing of side contour by using the template</b>	<b>Cutting out of side walls</b>	<b>Adjustment of interference among three pieces</b>
<b>Making of horn contour (Coarse process)</b>	<b>Making of horn contour (Fine process)</b>	<b>Completion of upper / bottom horn pieces</b>	<b>Final assembly process (Epoxy adhesive and screws are used to fix)</b>
<b>Driver mounting adapters</b>	<b>Attachment of the horn mounting plate</b>	<b>Color application and coating process (Rear side view)</b>	<b>(front side view)</b>

Measurement and Data



JBL 2441, 2 in throat, driver is mounted. The response shows very flat sound pressure level from 350Hz to almost 20KHz.

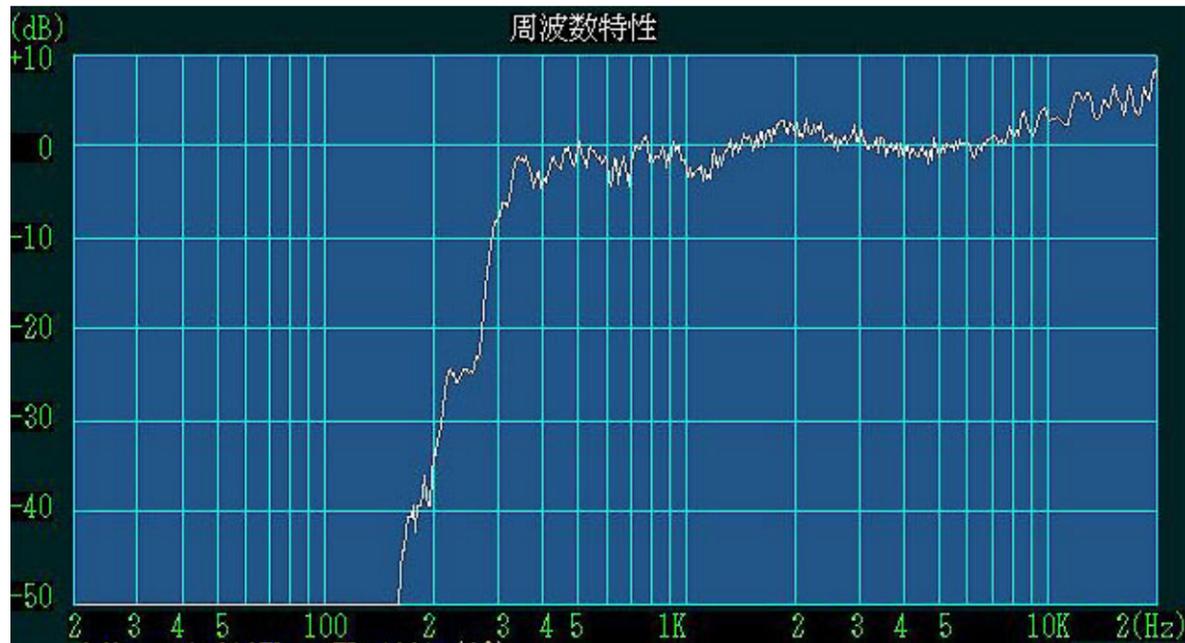
This horn with TAD 4001 or JBL 2441 or equivalent driver covers mid to high frequency range in 2 way or 3 way system. However, very high frequency response depends upon the driver capability.

To set the crossover frequency as 300 to 400Hz is a little risky. Therefore, 600Hz above is recommended.

TAD 4001, 2 in throat, driver is mounted.

Above 10KHz SPL gets higher in both cases, because of concentration of the SPL in the center of the axis. The reason is that the horn has no fin inside.

Therefore, the listener position is better to be located in far field such as 6m or 7m. If this is used in near field, the horn may be used as a mid range system.



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