

SPECIFICATIONS (See notes 1 - 3)

Horn Type: Pattern Control, High frequency horn
Operating Range: 800 Hz - 20 kHz
Usable LF Limit: 450 Hz
Flare Rate: 400 Hz
Throat Diameter: 2 in. / 51 mm
Axial Sensitivity 1W/1m (with TAD4001 driver):
 118 dB SPL (1 kHz - 16 kHz 1/3 octave bands)
Maximum Output (with TAD4001 driver):
 133 dB SPL / 136 dB SPL peak
Nominal -6 dB Beamwidth:
 Horizontal: 40° (+9° / -11°, 1.6 kHz - 16 kHz)
 Vertical: 25° (+22° / -5°, 2 kHz - 16 kHz)
Axial Q: 49 (1.6 kHz - 16 kHz)
Axial DI: 16.9 (1.6 kHz - 16 kHz)
Recommended Signal Processing (for 2 in / 51 mm driver):
 1 kHz or higher crossover point

Construction:

Hand-laminated, reinforced composite, black fiberglass
 Double wall construction using embedded balsa wood

Required Accessories:

Electronic crossover, Equalization

Optional Accessories:

DSC42: Digital crossover / processor
 2BKT: Rear yoke-type bracket
 M200RC: Weather-resistant driver cover
 M4COAXBKT: For mounting PC442 to a
 PC1500 series horn

Bolt Patterns:

(8) 5/16 in. / 8 mm holes on 7 in. / 178 mm bolt circle
 (4) 5/16 in. / 8 mm holes on 4 in. / 102 mm bolt circle

Dimensions:

Height: 11.5 in. / 292 mm
 Width: 14.25 in. / 362 mm
 Depth: 19 in. / 483 mm

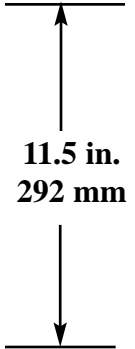
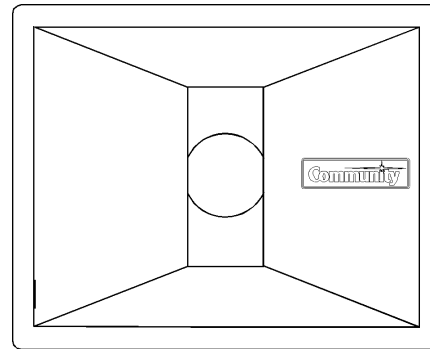
Weight: 5 lb. / 2.3 kg

Shipping Weight: 9 lb. / 4.1 kg

1. Sensitivity: Free field pink noise measurement at 15 ft / 4.6 m at 5% power; extrapolated to 1 meter and an input of 2.83 volts RMS. 0 dB SPL = 20 uPa.

2. Watts: All wattage figures are calculated using the rated nominal impedance.

3. EQ: Specifications are without equalization, normally required for optimum performance.



APPLICATIONS:

- Voice Announcement
- Sports Facilities
- Performing Arts
- Concert Systems
- Houses of Worship

FEATURES:

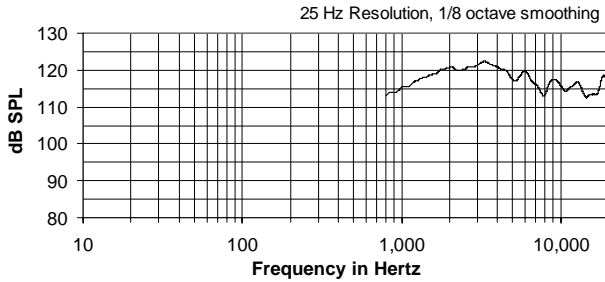
- Precise Horizontal and Vertical Control Maintains Consistent On and Off Axis Frequency Response
- High Q Design Provides Increased Intelligibility Over Distance
- Strong, Light Weight, Non-Resonant, Weather Resistant Fiberglass Construction

DESCRIPTION

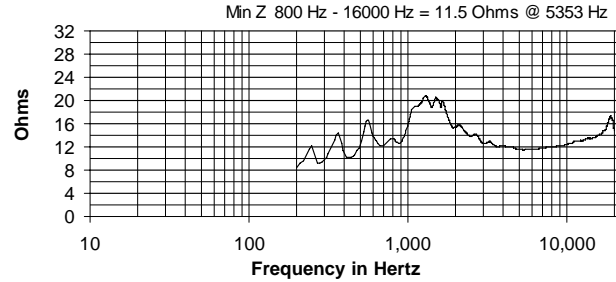
The PC442 horn is designed by Community to function as a high frequency horn in a multi-way component system. Mated with a high quality 2" compression driver it will provide focused, extremely high output sound projection, with predictable performance and exceptional long term durability for professional sound reinforcement systems. Performance data for Community horns is well documented, providing the designer and consultant with highly predictable and consistent coverage patterns for system design.

Each horn is a handcrafted, one-piece, precision waveguide, precision molded in hand-laminated, fiber-reinforced fiberglass. Balsa wood is embedded in the sidewalls for non-diaphragmatic, resonant-free operation. With substantial fiberglass layering and integral throat and driver flange construction, Community horns are built to withstand the torque loads of the heaviest compression drivers. Their inherent strength and rigidity enhances sonic efficiency by preventing sound energy losses through the horn walls or from vibration. Community fiberglass horns are inherently weather-proof under all conditions of use. There is a five year warranty.

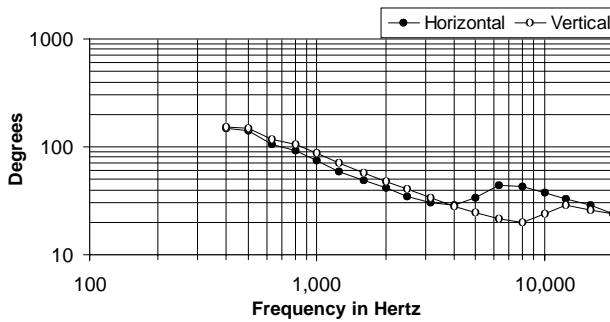
FREQUENCY RESPONSE (with TAD4001)



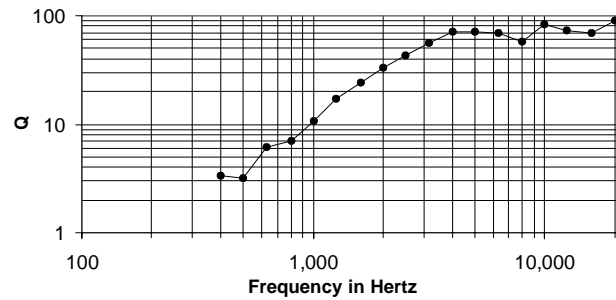
IMPEDANCE (with TAD4001)



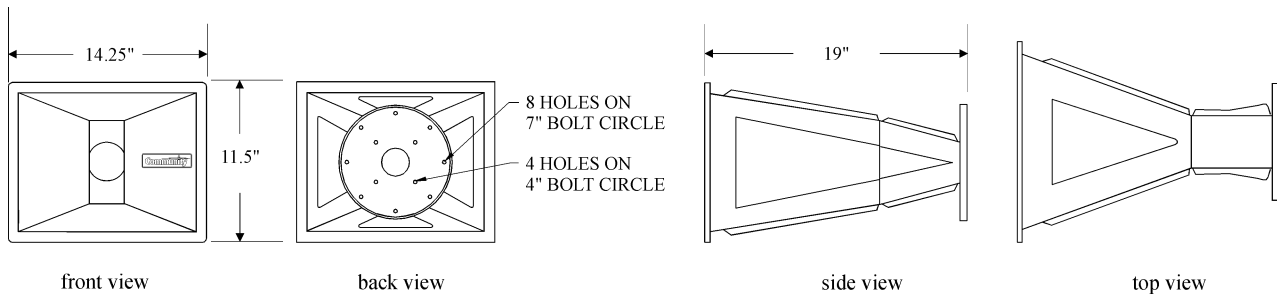
BEAMWIDTH



AXIAL Q



DIMENSIONS



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The horn shall be a 2 inch throat entrance, Pattern Control, high frequency device. It shall be made as one piece using hand-laminated fiberglass, with double wall constructions formed by resin-encapsulated, sandwich core wood. It shall include an integral rear flange for mounting a 2 inch exit compression driver and a flat, front flange to facilitate mounting. The usable operating range shall be from 800 Hz to 20 kHz with nominal -6 dB beamwidths of 40° horizontal, deviating no more than +9° / -11° between 1.6 kHz and 16 kHz, and 25° vertical, deviating no more than +22° / -5° between 2 kHz and 16 kHz. The horn shall have a 11.5 in. (292 mm) H x 14.25 in. (362 mm) W x 19 in. (483 mm) D, and weigh 5 lb. (2.3 kg).