



# CD Series Horns

## Constant Directivity Re-Entrant Paging Horns



**CD42**

### Specifications

Model	CD42
Dispersion	H, 40°, ±10°, 800Hz-10kHz V, 20°, ±10°, 2kHz-10kHz
Low Frequency Cut Off	300Hz
Air Column Length	5'
SPL (1W/1M) w/ PD60 Driver*	113dB
Bell Width	25.57" (649mm)
Bell Height	21.27" (540mm)
Bell Length	21.92" (556mm)
Weight	19lbs

\* 1W/1M Averaged 300Hz to 3kHz



**CD64**

Model	CD64
Dispersion	H, 60°, ±10°, 600Hz-6kHz V, 40°, ±10°, 1000Hz-7kHz
Low Frequency Cut Off	300Hz
Air Column Length	4.5'
SPL (1W/1M) w/ PD60 Driver*	112dB
Bell Width	22.76" (578mm)
Bell Height	18.25" (463mm)
Bell Length	14.98" (380mm)
Weight	16lbs

\* 1W/1M Averaged 300Hz to 3kHz



**CD94**

Model	CD94
Dispersion	H, 90°, ±10°, 900Hz-6kHz V, 40°, ±10°, 1000Hz-10kHz
Low Frequency Cut Off	300Hz
Air Column Length	4.5'
SPL (1W/1M) w/ PD60 Driver*	110dB
Bell Width	28.27" (718mm)
Bell Height	18.25" (463mm)
Bell Length	14.98" (380mm)
Weight	16lbs

\* 1W/1M Averaged 300Hz to 3kHz

©2009 Atlas Sound L.P. All rights reserved. Atlas Sound and Strategy Series are trademarks of Atlas Sound L.P. All other trademarks are the property of their respective owners. AT5003348 RevA 7/09

## Features

- High Efficiency Constant Directivity, Re-Entrant Horn Design
- Popular Coverage Patterns to Accommodate Most Applications
- Vertical Beamwidth Control Down to 1000hz
- Heavy-Duty Positive Locking Steel Mounting Bracket for Secure Positioning
- Environment – Resistant Construction for Indoor / Outdoor Applications
- Equipped With Standard 1 $\frac{3}{8}$ " – 18 Female Threads for Use with All PD Series Drivers

## Applications

CD series feature the beamwidth control advantage of a constant directivity horn along with the benefit of exceptional high output as a result of the extended air column re-entrant design. Horizontal and vertical dispersion angles are precisely controlled over a broad frequency range. Combining CD series horns with the PD75T, PD60(T) or PD30(T) series compression drivers will provide excellent results in applications such as mass notification, transportation terminals, sporting venues, and other environmentally demanding locations.

## General Description

Atlas Sound CD Series constant directivity re-entrant horns are designed for use with compression driver units to offer superior music and voice communications over distance and ambient noise. For versatile mounting applications, all models feature a heavy-duty steel bracket with positive lock for horizontal and vertical positioning in single or stacked unit clusters. To meet application requirements, the sound dispersion axis may be changed from horizontal to vertical via a 90° bell rotation and four  $\frac{1}{4}$ " screws. CD Series horns are manufactured of non-resonant polyester resin and glass-fiber laminate integrally molded to a die-cast zinc throat section.

## Architect & Engineer Specifications

### CD42

Sound projector shall be Atlas Sound CD42 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 20° in the plane of narrower horn dimension and 40° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{3}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 25.57" W x 21.27" H x 21.92" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 19lbs.

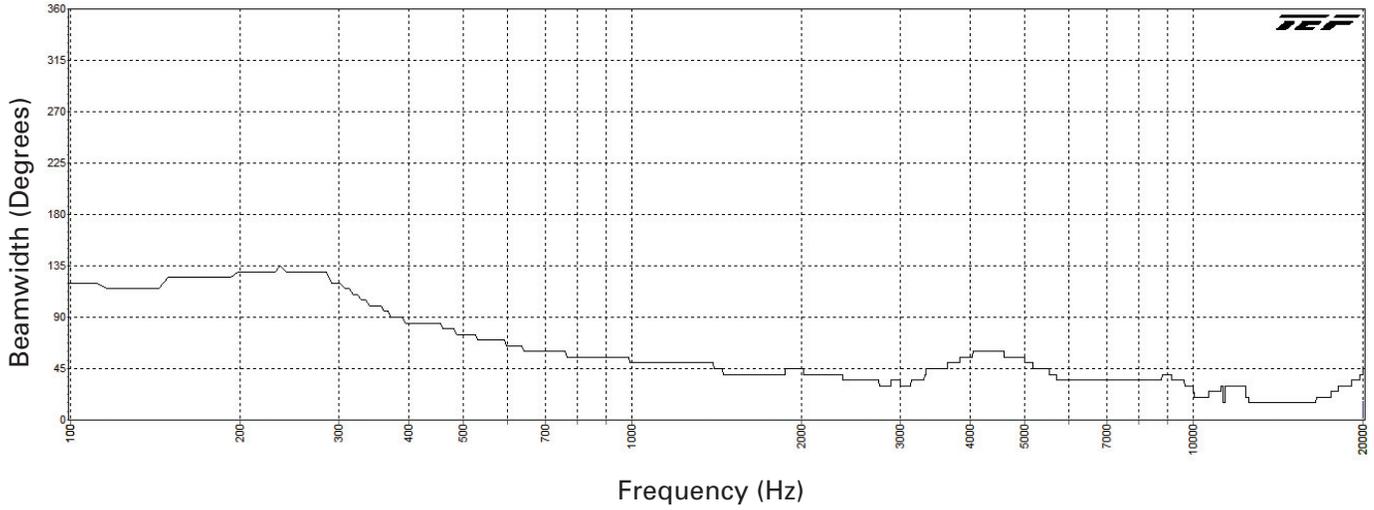
### CD64

Sound projector shall be Atlas Sound CD64 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 4.5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 40° in the plane of narrower horn dimension and 60° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{3}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 22.76" W x 18.25" H x 14.98" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 16lbs.

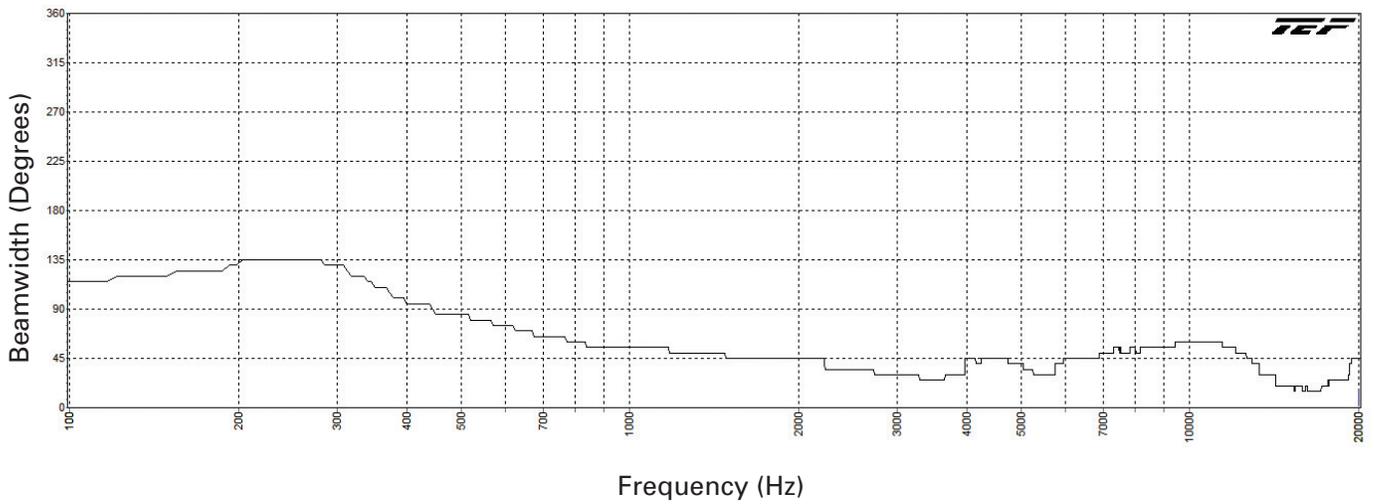
### CD94

Sound projector shall be Atlas Sound CD94 or approved equal. The weatherproof exponential-flared reflex type unit shall have an air column length of 4.5'. Low frequency cut-off shall be 300Hz. Unit shall have a dispersion angle of 40° in the plane of narrower horn dimension and 90° in the wider dimension. It shall be supplied with coupler to accept 1 $\frac{3}{8}$ "-18 threaded compression driver. The mounting bracket shall be of steel with choice of prime directional sound distribution emphasis via rotation of the horn bell. Bell size shall be 28.27" W x 18.25" H x 14.98" D. Sound projector shall be constructed of non-resonant fiberglass with spun aluminum re-entrant section. Projector shall have a black finish and weigh 19lbs.

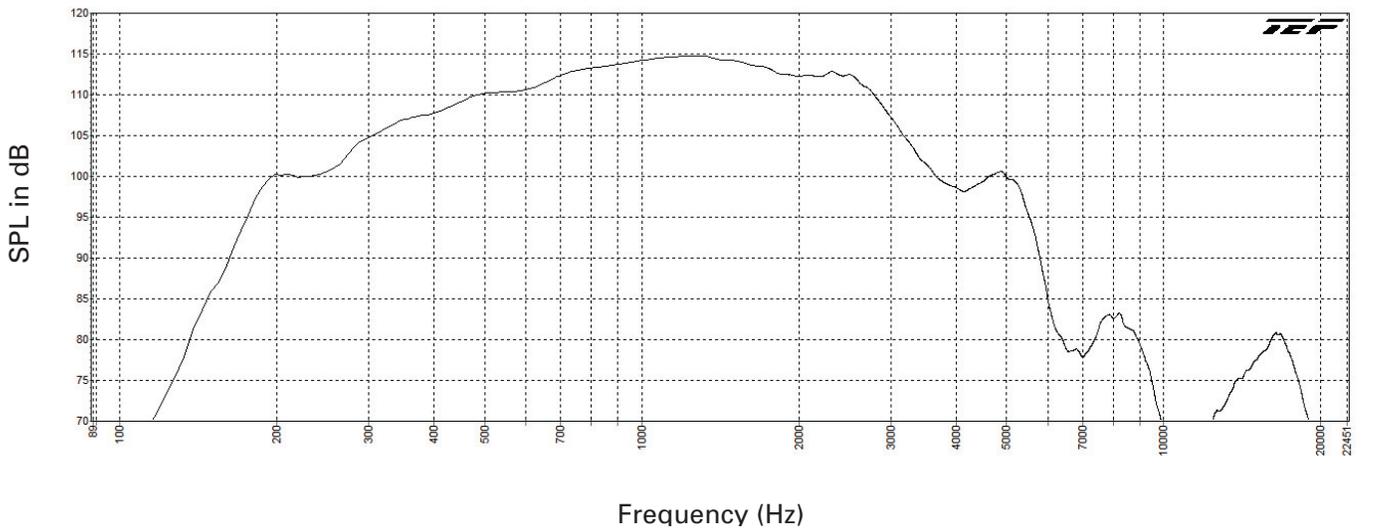
## CD42 Horizontal Beamwidth (-6dB)



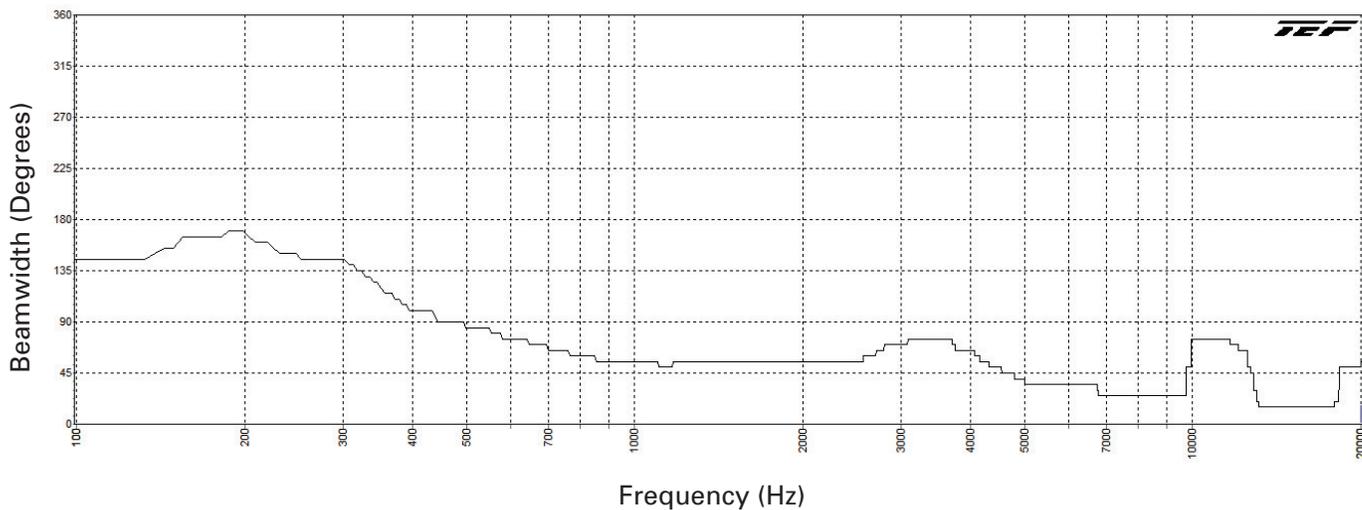
## CD42 Vertical Beamwidth (-6dB)



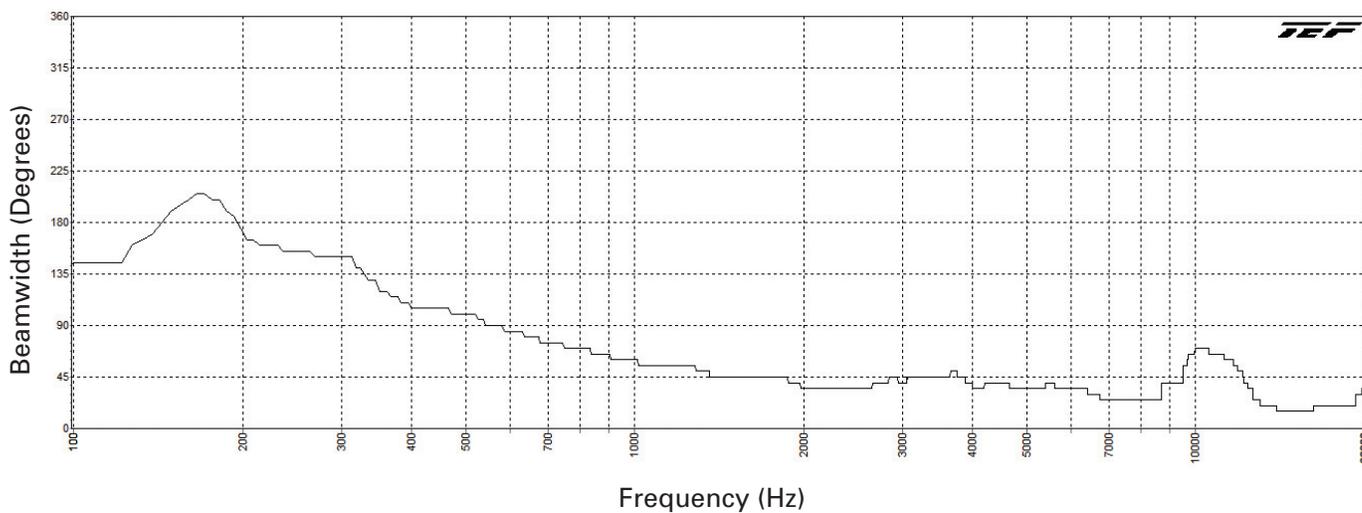
## CD42 Frequency Response (Tested with a PD60A)



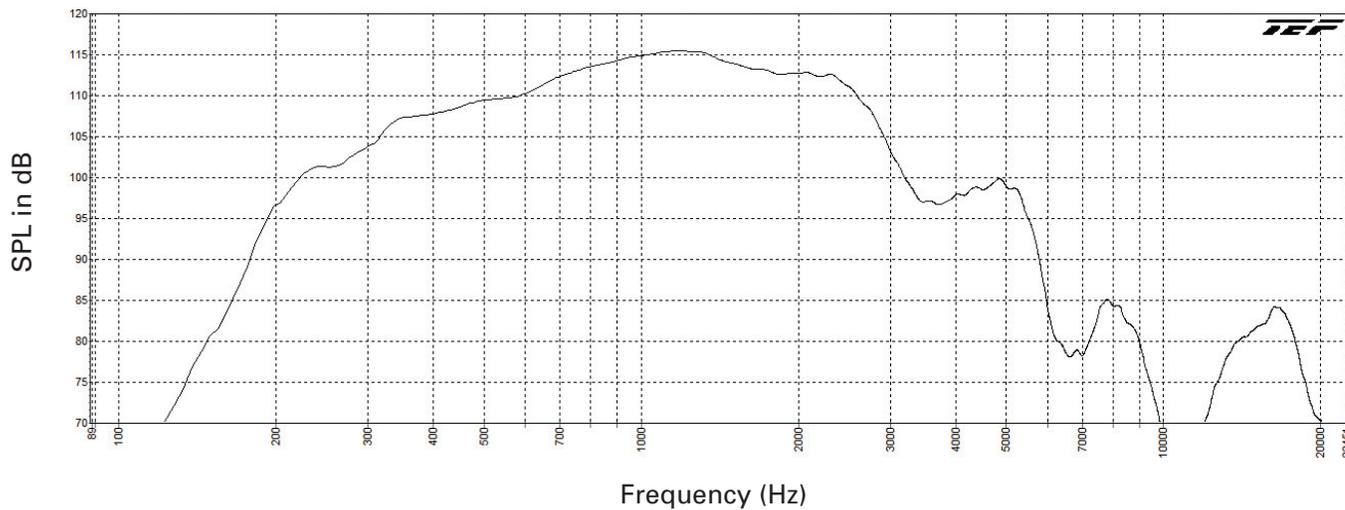
## CD64 Horizontal Beamwidth (-6 dB)



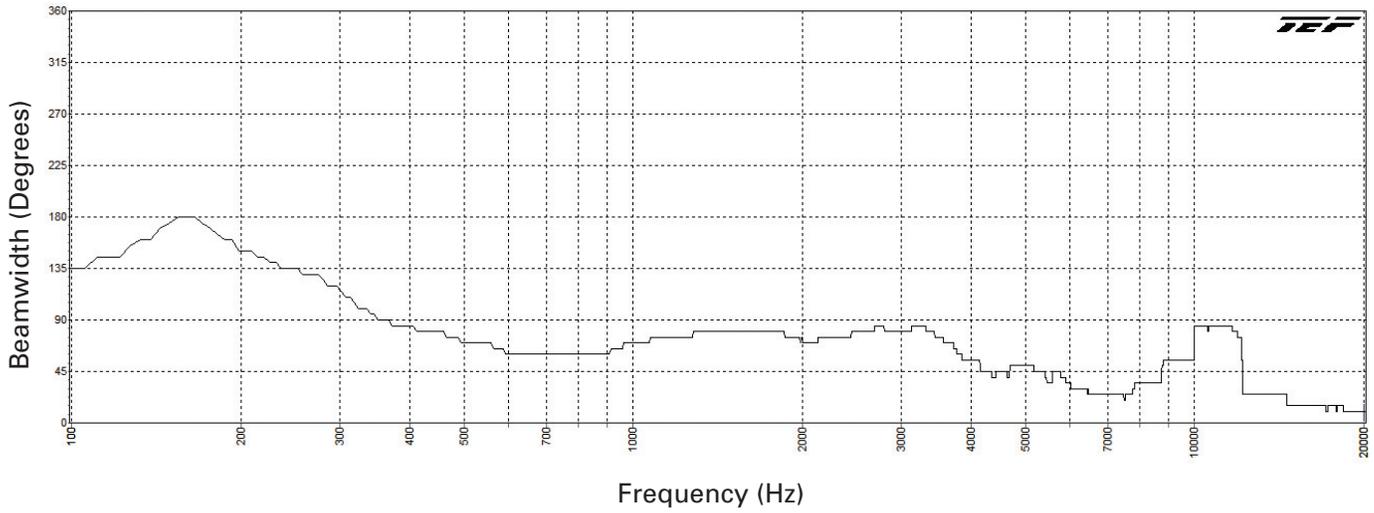
## CD64 Vertical Beamwidth (-6dB)



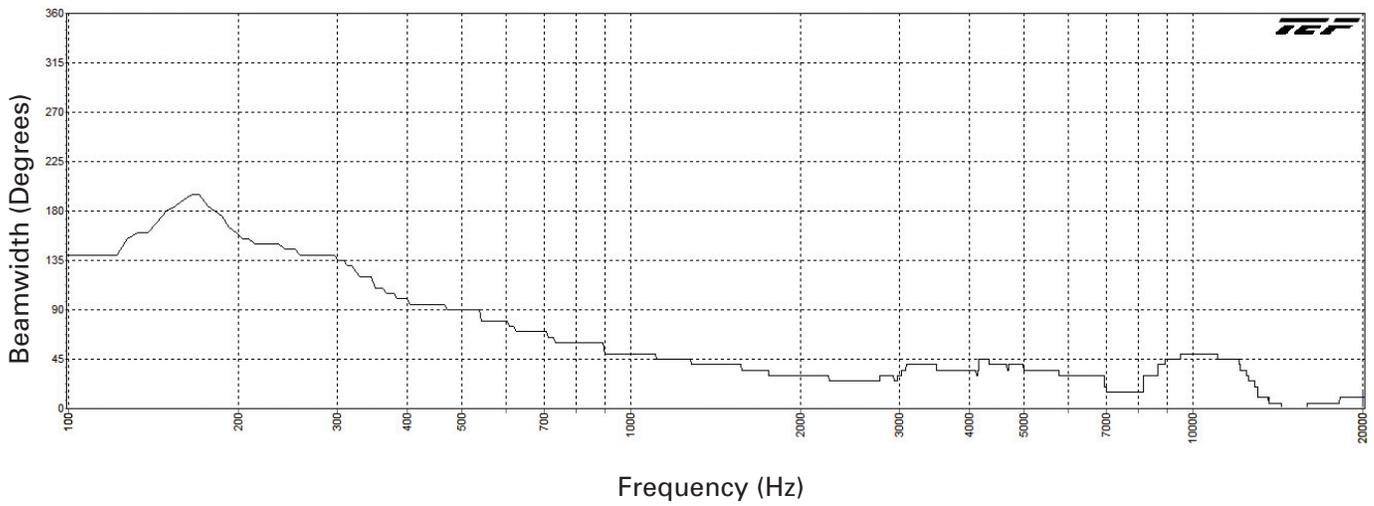
## CD64 Frequency Response (Tested with a PD60A)



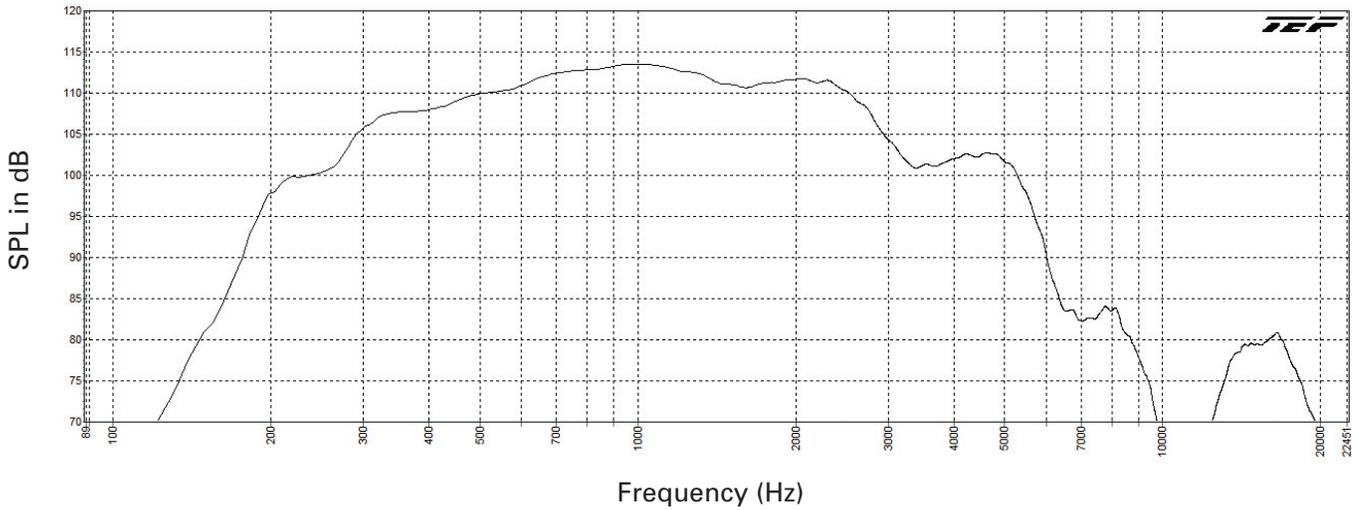
## CD94 Horizontal Beamwidth (-6dB)



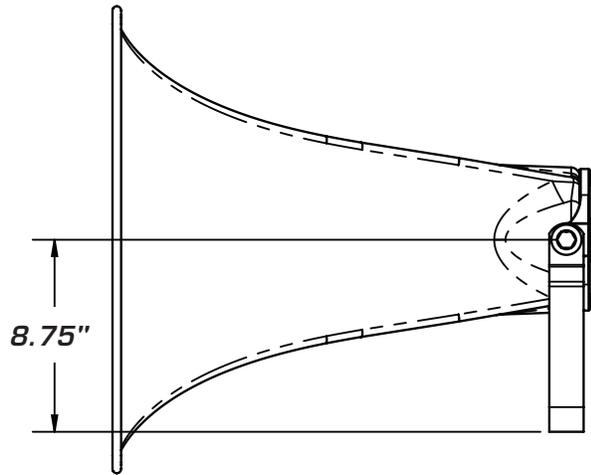
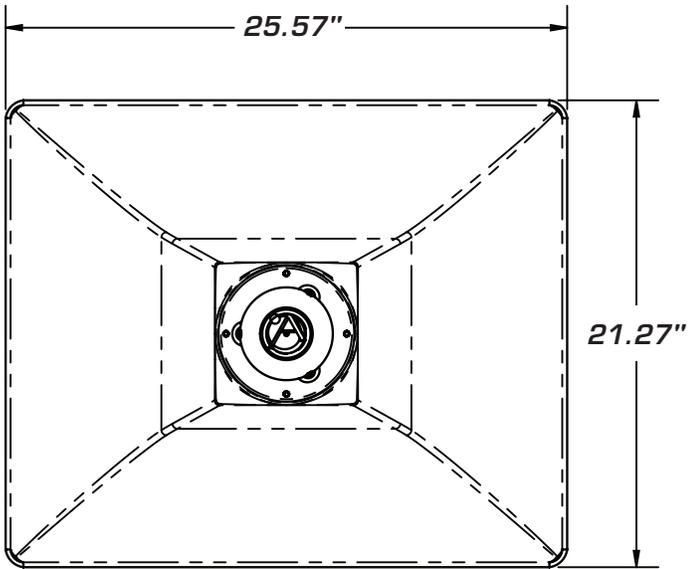
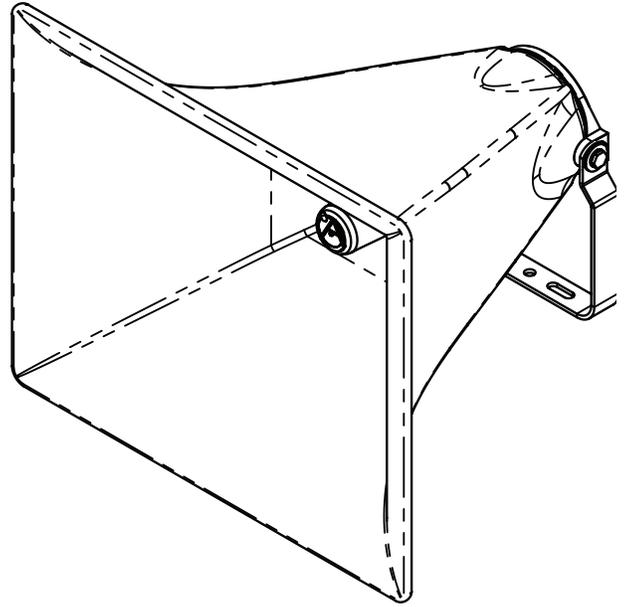
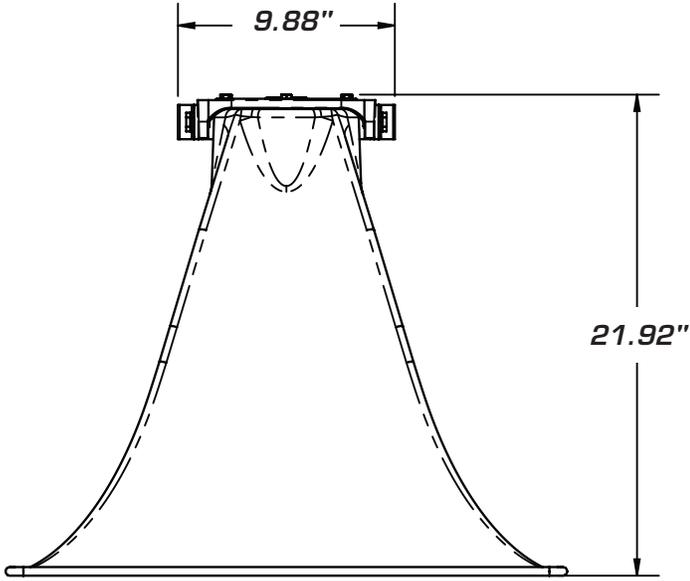
## CD94 Vertical Beamwidth (-6dB)



## CD94 Frequency Response (Tested with a PD60A)

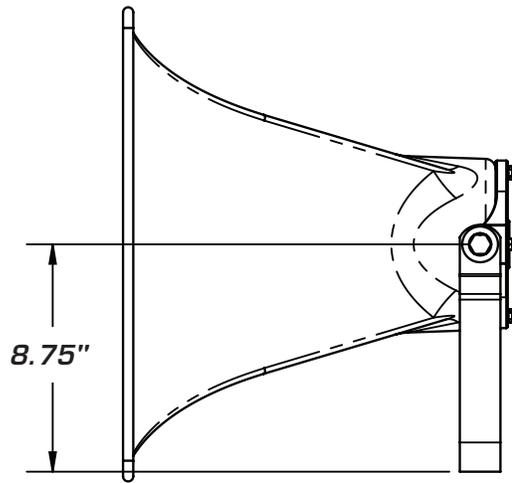
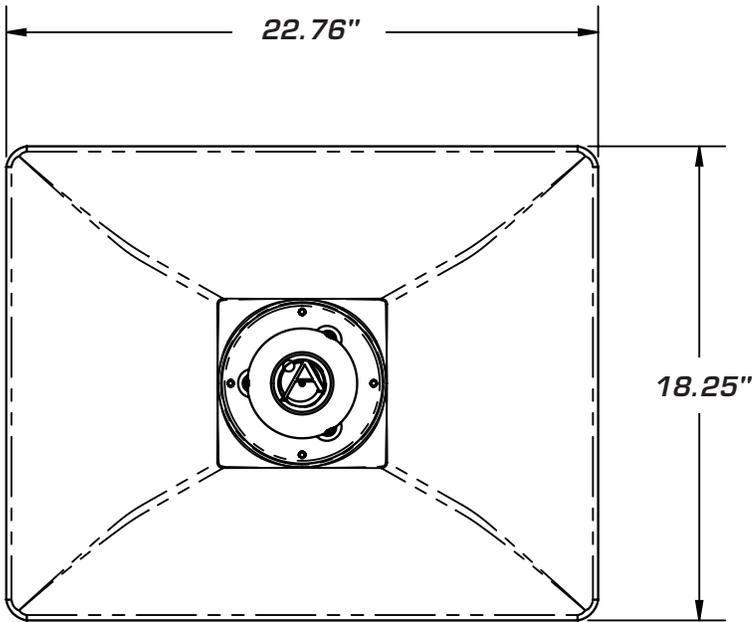
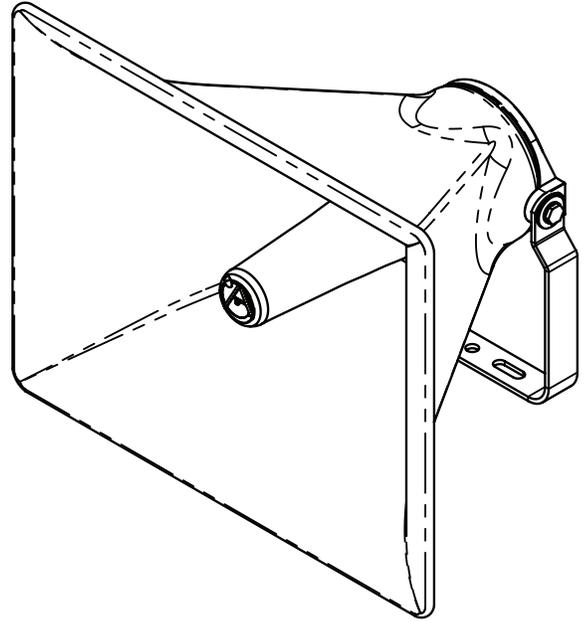
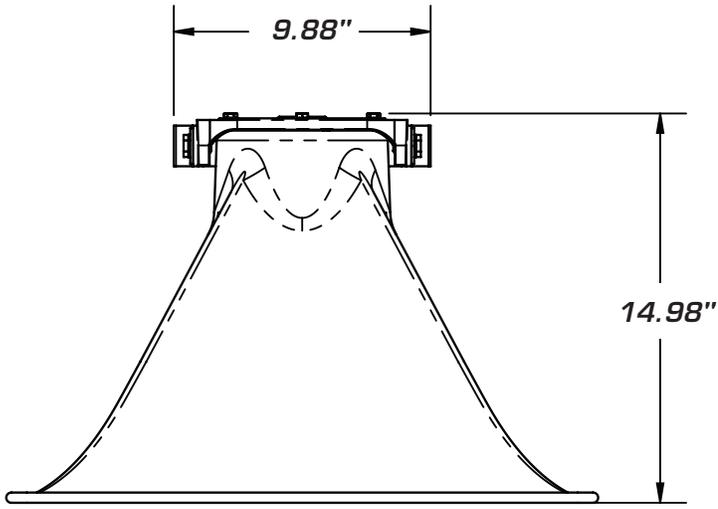


# CD42 Dimensions



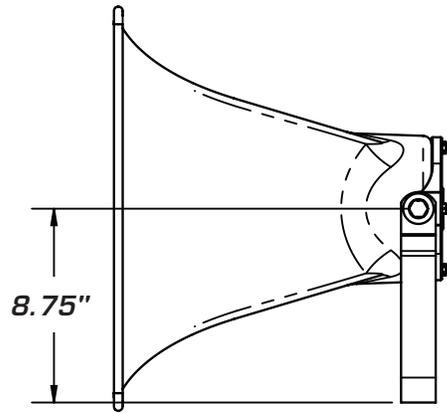
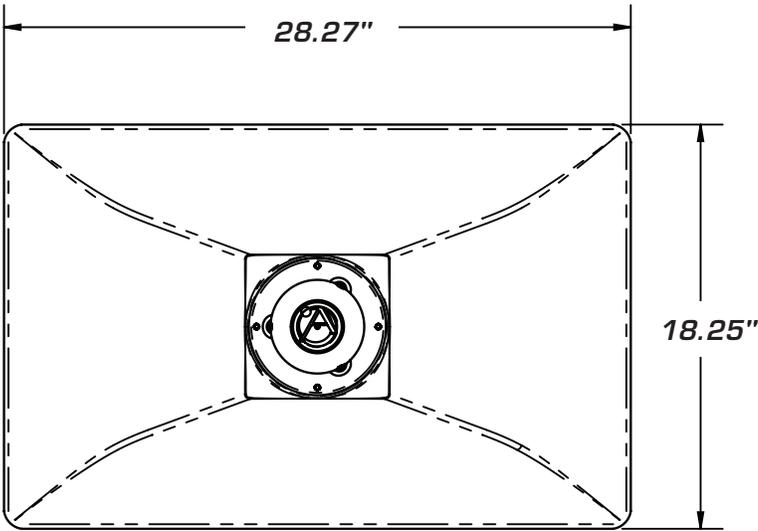
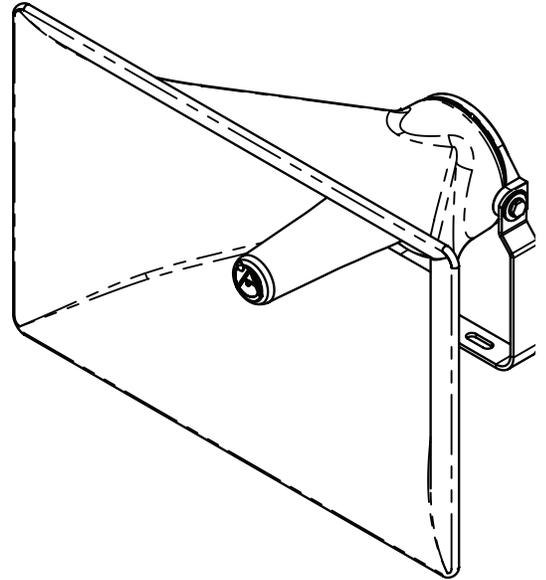
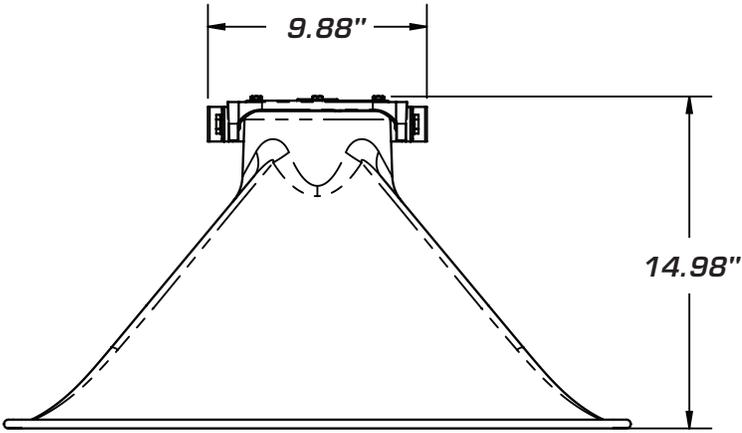
©2009 Atlas Sound L.P. All rights reserved. Atlas Sound and Strategy Series are trademarks of Atlas Sound L.P. All other trademarks are the property of their respective owners. ATS003348 RevA 7/09

# CD64 Dimensions



©2009 Atlas Sound L.P. All rights reserved. Atlas Sound and Strategy Series are trademarks of Atlas Sound L.P. All other trademarks are the property of their respective owners. AT5003348 RevA 7/09

# CD94 Dimensions



©2009 Atlas Sound L.P. All rights reserved. Atlas Sound and Strategy Series are trademarks of Atlas Sound L.P. All other trademarks are the property of their respective owners. AT5003348 RevA 7/09