

# Technical Specifications CB2590



## PRODUCT INFORMATION

EAW's top-of-the-line, THX-approved behind-the-screen system fills even the largest theaters with all the high-impact, full-range sound encoded on today's digital soundtracks, yet reproduces voices clearly and naturally, from a whisper to a scream. An HK2590 high frequency system featuring a large-diaphragm compression driver loaded with EAW's breakthrough 90° x 40° horn provides consistent coverage to the entire listening area. A BV253C vented low frequency system provides massive bass response.

For the largest exhibition halls, the CB2592 combines two BV253C enclosures with one HK2590.

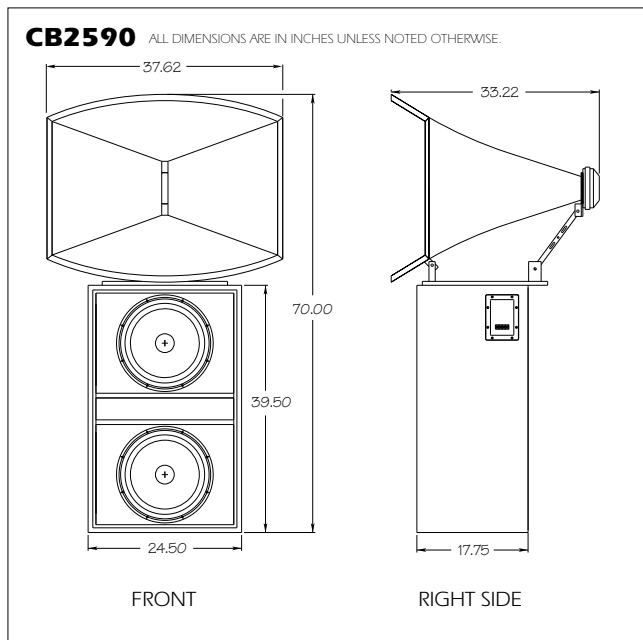
## COMPONENTS & CONSTRUCTION

The CB2590 is a two way, high-output, full range loudspeaker system intended for use in cinema applications. It features dual 15-in low frequency transducers mounted in a compact, vented enclosure for excellent bass response and high output level capability. A titanium diaphragm compression driver mounted to a large, 2-in throat, 90° x 40° coverage pattern, constant directivity horn assures even distribution of high frequency information to every seat in the house. The high frequency horn is attached to the low frequency enclosure by means of an adjustable bracket allowing the horn to be aimed independently of the LF section in both the horizontal and vertical planes.

The CB2590 requires an external active electronic crossover. The recommended crossover point is 500 Hz. Input connectors for the HF section are dual spring loaded push-button type, designed to accommodate bare or tinned leads, with a 2-position barrier strip for the LF section. Separate input connectors are provided for each section. Input connectors for the LF section are located on the side of the enclosure for convenient access in cramped installation areas. HF input connectors are directly on the compression driver.

The low frequency enclosure is constructed of 3/4-in thick Medium Density Fiberboard with the exception of the baffle which is 15-mm void-free, cross-grain-laminated birch plywood. Extensive internal bracing is employed to minimize panel resonances resulting from the large acoustical energies generated within the enclosure while maximizing acoustical energy transfer into the audience area. The enclosure and all external parts are coated with a flat black polyurethane finish. A perforated steel grill, painted flat black, is included. The LF enclosure has 3 mounting points to allow optimum front/rear positioning of the HF section.

The high frequency horn is constructed from a specially formulated urethane compound which is both non-resonant and lightweight. This material's excellent moldability, rigidity and strength make it possible to construct the complex contours of the HK2590. The adjustable steel HF section bracket is lockable once it is positioned.



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## CB2590 COMPLETE SYSTEM SPECIFICATIONS

<b>Axial Frequency Response</b>	
±3 dB	40 Hz - 18 kHz
<b>Crossover Frequency/Slope</b>	
Recommended	500 Hz @ 24 dB/Octave
<b>Nominal Coverage Angles</b>	
Horizontal	90°
Vertical	40°
<b>Dimensions &amp; Weights</b>	
Height	70 in (1778 mm)
Width	37.62 in (955 mm)
Depth	33.22 in (844 mm)
Net Weight	155 lbs (70.3 kg)
Shipping Weight	169 lbs (76.7 kg)
Finish	Flat Black Polyurethane

## BV253C LF SYSTEM SPECIFICATIONS

<b>Axial Frequency Response</b>	
±3 dB	40 Hz - 1200 Hz
<b>Axial Sensitivity</b>	
1W @ 1m	104 dB SPL
<b>Impedance</b>	
Nominal	4Ω
<b>Power Handling</b>	
AES Standard	1200 Watts
100 Hr Sine Wave	500 Watts
<b>Additional Descriptive Data</b>	
	2 x 15-in Cones, Vented
Connectors	2 Position Barrier Strip
Finish	Flat Black Polyurethane
Grill	Perforated Steel, Painted Flat Black

## HK2590 HF SYSTEM SPECIFICATIONS

<b>Axial Frequency Response</b>	
±3 dB	500 Hz - 18 kHz
<b>Axial Sensitivity</b>	
1W @ 1m	112 dB SPL
<b>Impedance</b>	
Nominal	8Ω
<b>Power Handling</b>	
AES Standard	200 Watts
100 Hr Sine Wave	80 Watts
<b>Nominal Coverage Angles</b>	
Horizontal	90°
Vertical	40°
<b>Additional Descriptive Data</b>	
	1 x 2-in Throat Compression Driver, Constant Directivity Horn
Connectors	Spring-Loaded Push-Button
Finish	Flat Black Polyurethane

