



STRING SERIES STW 28/STW 28-16

Compact Design, Massive Impact: Loudspeakers that Deliver

The String STW 28/ STW 28-16 is a powerful, versatile, passively crossed-over two-way wide dispersion mid-high cabinet designed to provide exceptional sound reinforcement. Works perfectly as a delay speaker in a nightclub, under-the-balcony application in an auditorium, or just a pole-mounted wide dispersion conference system. It's tuned for vocal propagation; hence, it will be perfect for a critical opera. The cabinet is uncolored and transparent. Crafted in Baltic birch ply, it is perfectly designed for a wide dispersion application. It has the flexibility to suit even the most difficult applications.

The cabinet is focused on vocal clarity and the minimization of heat buildup within the enclosure

without compromising the transient response. It has two versions 4 Ohms and 16 Ohms.

It features a powerful 2x8" (200mm) low-frequency driver and a 1" (25mm) compression driver with a 1.75" (44mm) voice coil mounted on a diffraction horn compression driver with 140° x 40° dispersion.

For demanding applications, the CSC Maestro MS 26 controller is configured to perform, with its EQ and limiter functions pre-loaded in the controller. Contrabass CB 215s, CR 18s, RRH 218s, RR 218s, CR 218s, and RR 215s, ST 18s are all perfectly matched with the STW 28/ STW 28-16. CB 12s, CB 15s, RR 212s

KEY FEATURES

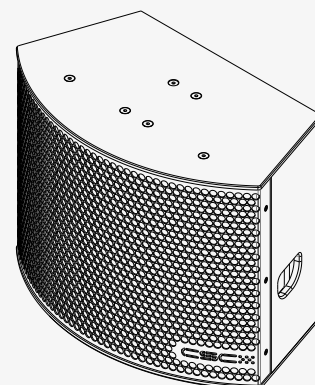
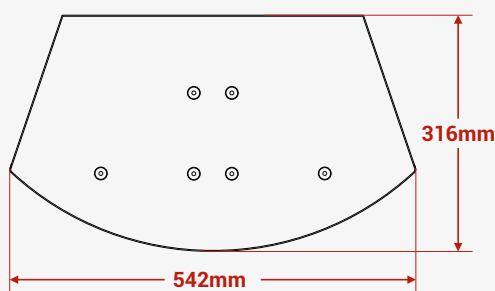
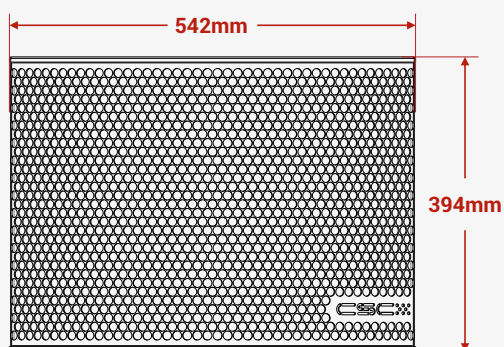
- Compact passive two way system
- 140° x 40° horn
- Mounting points behind the cabinet
- Large port
- Ideal for install and mobile use

SYSTEM APPLICATIONS

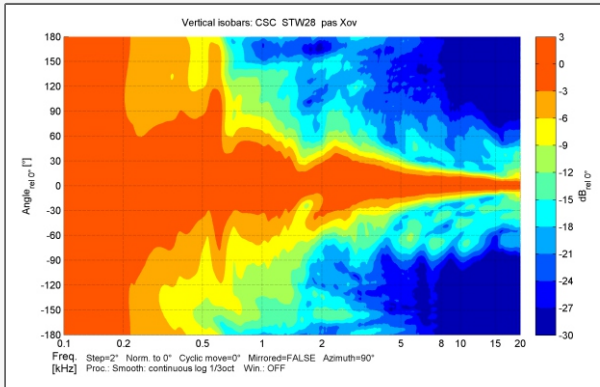
- Live music
- lounge sound enhancement
- Main PA for small and medium installs
- large convention centers, PA
- Auditoriums
- Places of Worship

MODEL NO	STW 28/STW 28-16
Type	Two way passively crossed over mid high
Frequency Response	75 Hz-19.5 kHz $\pm$ 3 dB
Drivers	LF: 2X8" (200 mm) with a 2" (50 mm) voice coil, HF: 1" (25 mm) Diffraction Horn compression driver using a 1.75" (44 mm) V.C
Recommended Amplifier Upto	800 watts
Sensitivity (1 W / 1 m)	97dB
Maximum SPL (9)	122 dB continuous, 128 dB Max
Nominal Impedance	STW 28 : 4 ohms & STW 28-16 : 16 ohms
Dispersion	140° x 40°
Crossover	HPF 70 Hz full range / 110 Hz with sub
Enclosure	Baltic Birch Ply
Finish	Non-toxic Textured black paint
Protective Grill	Perforated steel
Connectors	2 x Neutrik NL4
Pin Connections	Input: $\pm$ 1, Link through: $\pm$ 2
Standard Colours	Black
Fittings	Rear / Top standard mounting points
Horn	Not rotatable
Rated Continuous Power AES	450 watts / 60 watts
Rated Maximum/Program Power AES	1000 watts / 200 watts
Peak Power AES	2000 watts / 400 watts
Accessories	Wall / ceiling mount bracket, Extension pipe
Dimensions - Product (in mm)	(W) 543 x (H) 394 x (D) 316
Dimensions - Including packing (in mm)	(W) 602 x (H) 455 x (D) 393
Net Weight (kgs)	19
Shipping Weight (kgs)	22

Mid highs measured on-axis in full space @ one watt/1-meter using band-limited pink noise in the en-deavour to continuously improve the product with design refinements introduced into existing products. Any current CSC product may differ in some respect from its published description. However, this will always equal or exceed the original design specifications. Every CSC Product is built to the highest standards and tested to ensure that it meets the performance criteria specified.

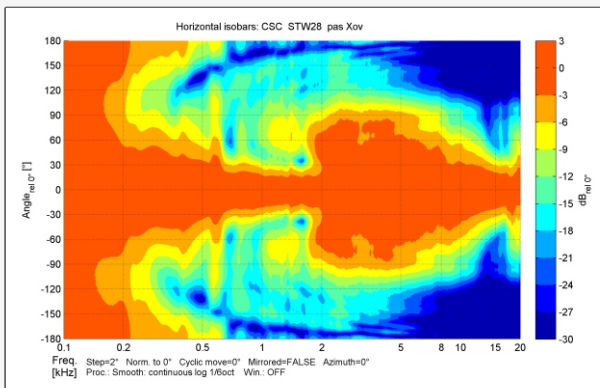


Vertical Polar Coverage (-6 dB)



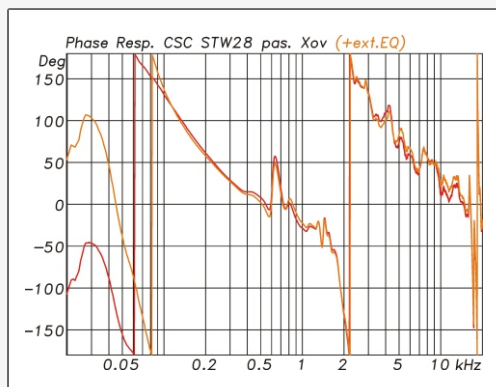
With dual 8" LF the STW28 offers tight vertical dispersion of 40 degrees to 10k.

Horizontal Polar Coverage (-6 dB)



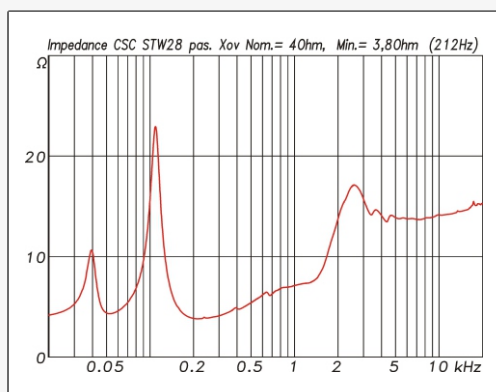
The dispersion 2k to 8k brings in the intelligibility of the audio signal and is plus minus 140 degrees in this cabinet. Apt to use in wide dispersion applications

Phase Response



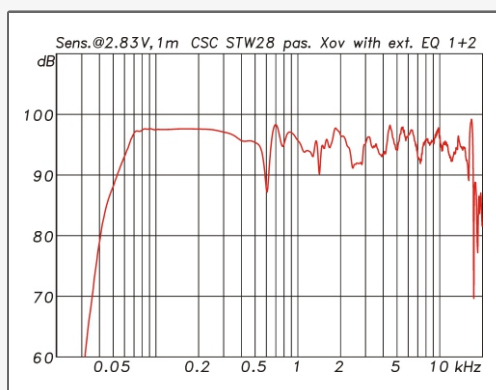
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Impedance Plot



16-ohm impedance and stable reactive profile make STW28 an easy match with low to medium power amps.

Frequency Response (Crossover Split)



A smooth response curve with a range from 65 Hz to 18.5 kHz.

Plot/Detail**Why It's Important****Beamwidth vs Frequency Plot**

Shows how coverage narrows or widens across different frequencies, helping optimize speaker placement and aiming in acoustically diverse spaces.

Directivity Index (DI) & Q Factor

Useful for acoustic simulation and modeling; helps predict how focused or diffuse the sound will be in complex installations.

Total Harmonic Distortion (THD)

Indicates how clean and linear the speaker remains under real-world operating power, critical for maintaining clarity at high SPL.

SPL vs Input Voltage

The two drivers and the efficient HF unit produces a clean max SPL of 124 dB SPL.

Sensitivity Graph

Validates the published 98 dB (1W/1m) sensitivity by frequency, ensuring accurate prediction of coverage and level in simulations.

Polars (1/3 Octave)

Provides off-axis response details at 500 Hz, 1 kHz, 2 kHz, 4 kHz, and 8 kHz for more accurate prediction in multi-speaker setups.