ALL WEATHER LOUDSPEAKERS

CERTIFICATE OF CONSTANCY OF PERFORMANCE n. 0068/CPR/067-2019



ATTESTATION OF CONFORMITY n. CPR/181446_1-1-2019 EN 60529:1991-10



Declaration of Performance (DoP) available on the website www.fbt.it

MAIN APPLICATIONS

Permanent installations in:

- Theme and Amusement parks
- Outdoor Entertainment centers
- Multipurpose indoor/outdoor venues
- Background music
- Athletic fields
- Swimming pools
- Convention centers
- Cruise ships
- Stadium, Arenas

MAIN FEATURES

- 2-way
- Sturdy molded polyethylene curved enclosure
- 12" coaxial woofer with 2.5" coil
- 1" HF driver with 1.7" coil
- 100V line transformer (model 112HCT)
- 4 wires cable to select the power tapping
- IP55 weather resistant
- Standard black finish
- Designed and engineered in Italy

DESCRIPTION

The FBT SHADOW 112HC/EN is a weatherproof coaxial two way loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications. The low frequency transducer is a 12" woofer with a 2.5" voice coil. The high frequency section is a 1" driver with 1.7" voice coil on 80° x 50° rotatable horn. The FBT SHADOW 112HCT/EN features a standard 70V/100V line transformer with selectable power tapping. The cabinet is a single piece rotational moulded in polyethylene, fully UV protected.

The FBT SHADOW 112HC/EN is internal equipped with ceramic terminal block and thermal fuses ensuring the continued operation of loudspeakers in the event of a fire; in addition all connections use flame-retardant cabling which adheres to the EN50200 standard (with IP68 airtight cable glands). The cabinet is equipped with a stainless steel U-bracket and one security anchoring point located at the rear of the loudspeaker. The grille is in custom perforated stainless steel with 3 layers of protection.

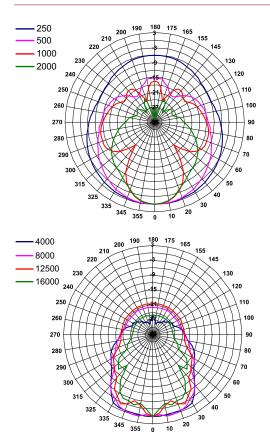
The FBT SHADOW 112HC/EN meets the requirements of IP55 code (International Protection Rating).

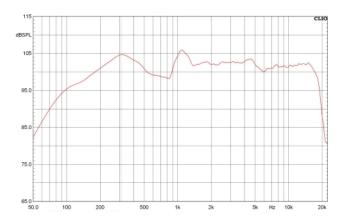


TECHNICAL SPECIFICATIONS

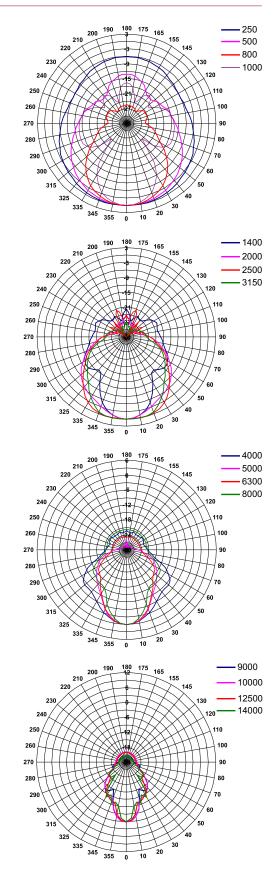
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$\begin{array}{c} \mbox{Dispersion Horizontal (-6dB)} & \begin{array}{c} 1 \mbox{kHz:} 50^{\circ} \\ 2 \mbox{kHz:} 60^{\circ} \\ 4 \mbox{kHz:} 70^{\circ} \\ 500 \mbox{Hz:} 100^{\circ} \\ 1 \mbox{kHz:} 50^{\circ} \\ 2 \mbox{kHz:} 80^{\circ} \\ 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 2 \mbox{kHz:} 80^{\circ} \\ \hline 4 \mbox{kHz:} 50^{\circ} \\ \hline 50 \mbox{Ohm} 200 \mbox{Mmood} / 100 \mbox{Ohm} 100 \mbox{W} \\ \hline I \mbox{INPUTS / OUTPUTS} \\ \hline I \mbox{Input connectors} & 4 \mbox{wire cable} \\ \hline P \mbox{HYSICAL} \\ \hline E \mbox{closure material} & P \mbox{olyethylene rotomoulded} \\ \hline G \mbox{cille} & C \mbox{ustom perforated stainless steel} \\ \hline \mbox{Net dimensions} \mbox{(W x H x D)} & \mbox{inch} & 16.92 \ x 16.92 \ x 15.74 \\ \hline S \mbox{hipping dimensions} \mbox{(W x H x D)} & \mbox{inch} & 20.86 \ x 20.86 \ x 19.68 \\ \hline \ N \mbox{et weight} & \mbox{lbs} & 50.7 \\ \hline \ O \mbox{perating / Storage temperature} & -25^{\circ} \mbox{C to } 70^{\circ} \mbox{C} \\ \hline \end{array}$	Sensitivity (@1W, 1m)	dB		
Dispersion Horizontal (-6dB) $2kHz: 60^{\circ}$ $4kHz: 70^{\circ}$ $500Hz: 100^{\circ}$ $1kHz: 50^{\circ}$ $2kHz: 80^{\circ}$ $4kHz: 50^{\circ}$ $1kHz: 50^{\circ}$ $4kHz: 50^{\circ}$ $4kHz: 50^{\circ}$ $1kHz: 50^{\circ}$ $4kHz: 50^{\circ}$ $4kHz: 50^{\circ}$ $1kHz: 50^{\circ}$ $1kHz: 50^{\circ}$ $4kHz: 50^{\circ}$ 100°				
$\begin{array}{c} 2 \text{kHz:} 60^{\circ} \\ 4 \text{kHz:} 70^{\circ} \\ \hline \\ 500\text{Hz:} 100^{\circ} \\ 1 \text{kHz:} 50^{\circ} \\ 2 \text{kHz:} 80^{\circ} \\ \hline \\ 4 \text{kHz:} 50^{\circ} \\ \hline \\ 2 \text{kHz:} 80^{\circ} \\ \hline \\ 4 \text{kHz:} 50^{\circ} \\ \hline \\ \hline \\ 4 \text{kHz:} 50^{\circ} \\ \hline \\ \hline \\ 8 \text{commended amplifier} & W \text{ rms} \\ 400 \\ \hline \\ \text{Rated noise power (100\text{hrs}) 44.5V} & W \\ 250 \\ \hline \\ \text{System short term power (IEC 268-5)} & W \\ 800 \\ \hline \\ \text{Nominal impedance (100V line)} & 50 \text{ Ohm } 200W / 100 \text{ Ohm } 100W \\ \hline \\ \textbf{INPUTS / OUTPUTS} \\ \hline \\ \text{Input connectors} & 4 \text{ wire cable} \\ \hline \\ \textbf{PHYSICAL} \\ \hline \\ \hline \\ \text{Enclosure material} & Polyethylene rotomoulded \\ \hline \\ \text{Grille} & \text{Custom perforated stainless steel} \\ \hline \\ \text{Net dimensions}(W \times H \times D) & \text{inch} & 16.92 \times 16.92 \times 15.74 \\ \hline \\ \text{Shipping dimensions}(W \times H \times D) & \text{inch} & 20.86 \times 20.86 \times 19.68 \\ \hline \\ \text{Net weight} & \text{lbs} & 46.3 \\ \hline \\ \hline \\ \text{Shipping weight} & \text{lbs} & 50.7 \\ \hline \\ \hline \\ \text{Operating / Storage temperature} & -25^{\circ}\text{C to } 55^{\circ}\text{C} / -40^{\circ}\text{C to } 70^{\circ}\text{C} \\ \hline \end{array}$	Dispersion Horizontal (-6dB)		1kHz: 50°	
$\begin{tabular}{ c c c c c c } \hline & & & & & & & & & & & & & & & & & & $	Dispersion fonzontar (odb)		2kHz: 60°	
$\begin{array}{c} \mbox{Dispersion Vertical (-6dB)} & \begin{array}{c} 1 \mbox{kHz: } 50^{\circ} \\ 2 \mbox{kHz: } 80^{\circ} \\ 4 \mbox{kHz: } 50^{\circ} \\ \hline \mbox{AMPLIFIER} \\ \hline \mbox{Recommended amplifier} & \mbox{W rms} & 400 \\ \hline \mbox{Rated noise power (100 \mbox{hrs}) } 44.5 \mbox{V} & \mbox{250} \\ \hline \mbox{System short term power (IEC 268-5)} & \mbox{W} & \mbox{800} \\ \hline \mbox{Nominal impedance (100 \mbox{line})} & \mbox{50 Ohm 200W / 100 Ohm 100W} \\ \hline \mbox{INPUTS / OUTPUTS} \\ \hline \mbox{Input connectors} & \mbox{4 wire cable} \\ \hline \mbox{PHYSICAL} \\ \hline \mbox{Enclosure material} & \mbox{Polyethylene rotomoulded} \\ \hline \mbox{Grille} & \mbox{Custom perforated stainless steel} \\ \hline \mbox{Net dimensions (W x H x D)} & \mbox{inch} & \mbox{16.92 x 16.92 x 15.74} \\ \hline \mbox{Shipping dimensions (W x H x D)} & \mbox{inch} & \mbox{20.86 x 20.86 x 19.68} \\ \hline \mbox{Net weight} & \mbox{lbs} & \mbox{50.7} \\ \hline \mbox{Operating / Storage temperature} & \mbox{-25°C to } 55^{\circ}\text{C} / -40^{\circ}\text{C to } 70^{\circ}\text{C} \\ \hline \end{tabular}$			4kHz: 70°	
Dispersion Vertical (-6dB) $2kHz: 80^{\circ}$ $2kHz: 80^{\circ}$ $4kHz: 50^{\circ}$ AMPLIFIERRecommended amplifierW rms 400 Rated noise power (100hrs) $44.5V$ W250System short term power (IEC 268-5)WNominal impedance (100V line)50 Ohm 200W / 100 Ohm 100WINPUTS / OUTPUTSInput connectors4 wire cablePHYSICALEnclosure materialPolyethylene rotomouldedGrilleCustom perforated stainless steelNet dimensions (W x H x D)inch16.92 x 16.92 x 15.74Shipping dimensions (W x H x D)inchShipping weightlbs46.3Shipping weightlbs50.7Operating / Storage temperature-25°C to 55°C / -40°C to 70°C	Dispersion Vertical (-6dB)		500Hz: 100°	
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Import generating (VVVVV2) Import generating (VVVVV2) Net weight lbs 46.3 Shipping weight lbs 50.7 Operating / Storage temperature -25°C to 55°C / -40°C to 70°C	Net dimensions (W x H x D)	inch	16.92 x 16.92 x 15.74	
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Operating / Storage temperature -25°C to 55°C / -40°C to 70°C	Netweight	lbs	46.3	
	Shipping weight	lbs	50.7	
Relative umidity < 95%	Operating / Storage temperature		-25°C to 55°C / -40°C to 70°C	
	Relative umidity		< 95%	

HORIZONTAL POLAR DIAGRAM

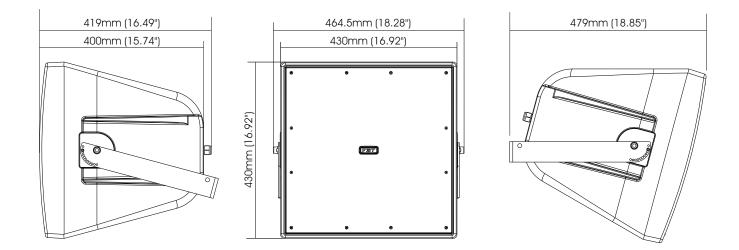




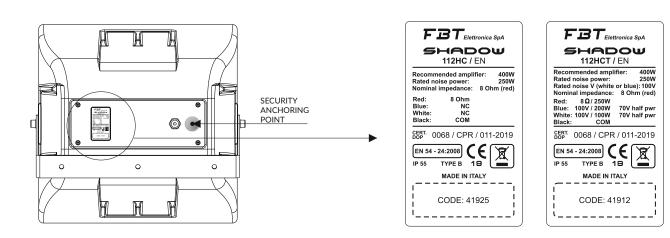
VERTICAL POLAR DIAGRAM



DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS LABEL



SUPPLIED ACCESSORY

