

Acoustic Enclosures Small Device Test Enclosures

FEATURES:

- Acoustically Controlled Test Environment
- Survey and/or Engineering Grade Design
- Applicable Test Standards:
 - -- ISO 3744
 - -- ISO 3746
 - -- ISO 532B
 - -- ISO 11201
 - -- GM W7293



Acoustic Systems Small Device Test Enclosure Shown With Optional Equipment

ETS-Lindgren's Acoustic Systems Small Device (SD) Test Enclosures

provide a free-field environment for making survey and engineering grade measurements on small devices. SD test enclosures are an affordable option when precision grade testing is not required, including testing the acoustic (sound power, sound pressure) levels of automotive components, computer hard drives, fans, pumps, and small mechanical and electric assemblies

Testing can be conducted using either a single microphone, or a small array of microphones. SD enclosures can also be used with vibration test equipment when required. Four sizes of SD enclosures are available to accommodate most small test objects.

FEATURES Controlled Test Environment

The SD series isolates and controls acoustic energy to provide the ideal testing environment of small electronics, including computer equipment, hearing aids and automotive components.

Survey/Engineering Grade Design

With minimum 10.2 cm (4") thick acoustic walls and sound absorbing floor and ceiling, the SD test enclosures are ideal for making survey and engineering level measurements on small devices.

Applicable Test Standards

SD series test enclosures meet ISO 3744, ISO 3746, ISO 532B, ISO 11201, GM W7293, and test standards.

APPLICATIONS

- Automotive Components
- Quality Assurance/Comparative Analysis
- Testing of Telephone Handsets or Mounted Transducers for Noise Quality
- Insertion Measurements of Hearing Aids
- Evaluation Testing of Microphones or Preamplifiers for Noise Cancellation, Conductivity and Noise Emissions

- Testing Noise Emissions of Small Parts or Components
- Head & Torso Testing (SD3) Computer Components
- IT Product Noise Testing

STANDARD CONFIGURATION

- Acoustic Walls, Ceiling, and Floor
- Sound Absorbing Perforated Steel Interior (Walls and Ceiling)
- Panelized Floor (Reflective)
- Floor Vibration Rails, SD2 & SD3
- Floor Vibration Pads, SD & SD1
- Cable Ports
 - -- 1 ea. 5.1 cm (2 in.)
 - -- 1 ea. 2.5 cm (1 in.)
- Acoustic Door with Window

OPTIONS

- Test Stands (Not Available on SD3)
- Absorptive Mini Wedges
- Interior Perforated Floor
- Stainless Steel Liner
- Light
- Ventilation Silencers (SD3 only)



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PRODUCT FEATURES AND OPTIONS

#	CHAMBER DIMS OUTSIDE (L x W x H)	CHAMBER DIMS INSIDE (L x W x H)	FEATURES	OPTIONS	APPLICATIONS	SOME Applicable Standards
SD	91.4 cm x 86.4 cm x 91.4 cm (36 in. x 34 in. x 36 in.)	71.1 cm x 66.0 cm x 71.1 cm (28 in. x 26 in. x 28 in.)	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (4) AS-A504 Walls	Test Stand 5.1 cm (2 in.) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner Light (1)	Quality Control Comparative Analysis	ISO 3744 ISO 3746 ISO 532B ISO 11201
SD1	111.8 cm x 111.8 cm x 111.8 cm (44 in. x 44 in. x 44 in.)	91.4 cm x 91.4 cm x 91.4 cm (36 in. x 36 in. x 36 in.)	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (4) AS-A504 Walls	Test Stand 5.1 cm (2 in.) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner Light (1)	Sound Power and Sound Pressure of Auto Parts, Computer Parts, and Small Parts	ISO 3744 ISO 3746 ISO 532B ISO 11201 GMW7293
SD2	152.4 cm x 152.4 cm x 162.6 cm (60 in. x 60 in. x 64 in.)	121.9 cm x 121.9 cm x 132.1 cm (48 in. x 48 in. x 52 in.)	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Rails (2) AS-A506 Walls	Test Stand 5.1 cm (2 in.) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner Light (1)	Engineering Test of Small Parts	ISO 3744 ISO 3746 ISO 532B ISO 11201 GMW7293 MS14011
SD3	127 cm x 127 cm x 241.3 cm (50 in. x 50 in. x 95 in.)	106.7 cm x 106.7 cm x 213.4 cm (42 in. x 42 in. x 84 in.)	For Testing > 250 Hz Solid Steel Floor Cable Ports (2) Vibration Rails (2) AS-A504 Walls	5.1 cm (2 in.) Melamine Foam Verification Silenccers Light (1)	Head & Torso Testing Speech Intelligibility Codec Scoring End to End Signal Integrity	ISO 3744 ISO 3746 ISO 532B ISO 11201

PHYSICAL SPECIFICATIONS

MODEL #	CHAMBER DIMS OUTSIDE (L x W x H)	CHAMBER DIMS INSIDE (L x W x H)	ESTIMATED WEIGHT (L X W)	DOOR DIMS (L X W)	WINDOW DIMS (L X W)	PANEL Type and Depth
SD	91.4 cm x 86.4 cm x 91.4 cm	71.1 cm x 66.0 cm x 71.1 cm	352.9 kg.	61.0 cm x 50.8 cm	30.5 cm x 30.5 cm	AS-A504
	(36 in. x 34 in. x 36 in.)	(28 in. x 26 in. x 28 in.)	778 lbs.	(24 in. x 20 in.)	(12 in. x 12 in.)	10.2 cm (4 in.)
SD1	111.8 cm x 111.8 cm x 111.8 cm	91.4 cm x 91.4 cm x 91.4 cm	618.2 kg.	61.0 cm x 61.0 cm	30.5 cm x 30.5 cm	AS-A504
	(44 in. x 44 in. x 44 in.)	(36 in. x 36 in. x 36 in.)	1363 lbs.	(24 in. x 24 in.)	(12 in. x 12 in.)	10.2 cm (4 in.)
SD2	152.4 cm x 152.4 cm x 162.6 cm	121.9 cm x 121.9 cm x 132.1 cm	872.3 kg	91.4 cm x 91.4 cm	30.5 cm x 30.5 cm	AS-A506
	(60 in. x 60 in. x 64 in.)	(48 in. x 48 in. x 52 in.)	1923 lbs.	(36 in. x 36 in.)	(12 in. x 12 in.)	15.2 cm (6 in.)
SD3	127 cm x 127 cm x 241.3 cm	106.7 cm x 106.7 cm x 213.4 cm	1123.1 kg	81.3 cm x 203.2 cm	50.8 cm x 76.2 cm	AS-A504
	(50 in. x 50 in. x 95 in.)	(42 in. x 42 in. x 84 in.)	2476 lbs.	(32 in. x 80 in.)	(20 in. x 30 in.)	10.2 cm (4 in.)