

**FEATURES:**

- Acoustically Controlled Test Environment
- Survey and/or Engineering Grade Measurement
- 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, 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)
- IT Product Noise Testing

**STANDARD CONFIGURATION**

- Acoustic Walls, Ceiling, and Floor
- Acoustically Engineered Roof Integrated Ventilation System
- Light (SD1, SD2, SD3 Only)
- 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 (SD Only)
- Ventilation Silencers (SD3 Only)

### PRODUCT FEATURES AND OPTIONS

MODEL #	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 Light(1)	Test Stand 5.1 cm (2 in.) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner	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 Light (1)	Test Stand 5.1 cm (2 in.) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner	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 Light (1)	5.1 cm (2 in.) Melamine Foam Verification Silencers	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 (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.)	352.9 kg. 778 lb.	61.0 cm x 50.8 cm (24 in. x 20 in.)	30.5 cm x 30.5 cm (12 in. x 12 in.)	AS-A504 10.2 cm (4 in.)
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.)	618.2 kg. 1363 lb.	61.0 cm x 61.0 cm (24 in. x 24 in.)	30.5 cm x 30.5 cm (12 in. x 12 in.)	AS-A504 10.2 cm (4 in.)
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.)	872.3 kg 1923 lb.	91.4 cm x 91.4 cm (36 in. x 36 in.)	30.5 cm x 30.5 cm (12 in. x 12 in.)	AS-A506 15.2 cm (6 in.)
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.)	1123.1 kg 2476 lb.	81.3 cm x 203.2 cm (32 in. x 80 in.)	50.8 cm x 76.2 cm (20 in. x 30 in.)	AS-A504 10.2 cm (4 in.)

Phone + 1.512.531.6400 • info@ets-lindgren.com • www.ets-lindgren.com  
Offices in the US, Finland, UK, France, Singapore, India, Japan, China, Taiwan