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# Acoustic test fixture (ATF)

## Description



The acoustic test fixture (ATF) is a basic head simulator incorporating a ½" measurement microphone.

When combined with appropriate measuring equipment and positioned in an appropriate sound field, the ATF may be used for the measurement of Insertion Loss of earmuffs according to ISO 4869-3:2007, referred to by EN 352-1 and EN 352-3.

The ATF includes two headband earmuff spacers - a top headband support and a rear headband support, which are located at 129mm and 119mm respectively from the horizontal axis of the ATF.

The end faces of the ATF are marked to assist correct positioning of the earmuff cups.

The ATF is supplied with:

- Acoustic isolation cup
- Microphone surround tool
- Generic helmet-mounted earmuff support pad
  (customized support pads may be purchased separately)

It is provided with an isolation cup and (optionally) an adaptor to accommodate earmuffs mounted c an industrial safety helmet.

## Services required

None.

The included microphone pre-amplifier includes a 7 pin LEMO 1B connector.

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# Acoustic test fixture (ATF), continued

## Approximate size and weight

Dimensions: 18cm x 20cm x 37cm (l x w x h)
Weight: 10kg

## Relevant standards

EN 13819-2:2002/2020
ISO 4869-3:2007