

# Impact Ball IB01

## FOR IMPACT SOUND INSULATION MEASUREMENTS



Scope of delivery of the Impact Ball  
(Bag and Meter included)

The IB01 Impact Ball is a lightweight, easy-to-use, and professional impact source for impact sound insulation measurements as described in ISO 16283-2:2020-11 for buildings as well as ISO 10140-5:2021 for laboratory applications.

The Impact Ball is very well suited to simulate low-frequency sound events, such as those caused by footsteps or children jumping on wooden beam ceilings.

### APPLICATIONS

- Building acoustics
- Measuring the impact sound insulation of floors and stairs
- In situ and laboratory measurements
- The Impact Ball is dropped vertically from a height of 1 m ( $\pm 1$  cm) at several positions, the Sound Pressure Level is measured in the receiving room
- Evaluation of Measurements and Reports by Sound Insulation Reporter software

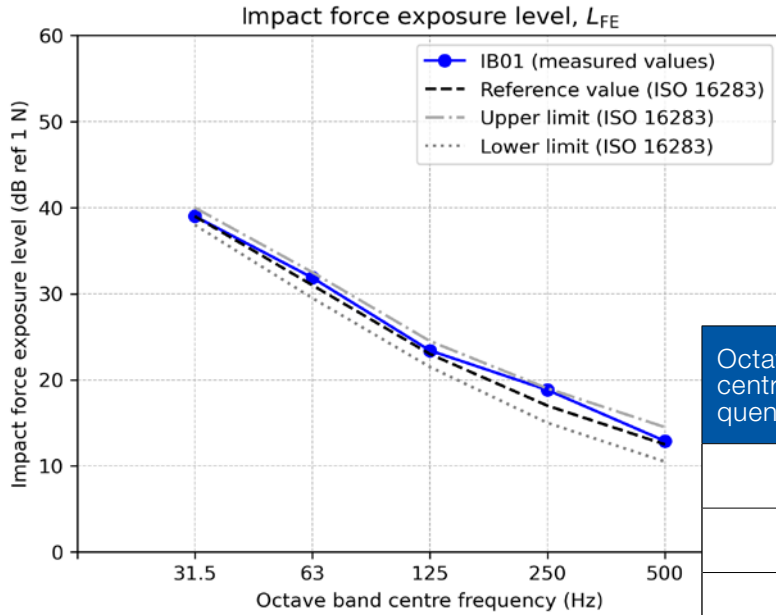
### Features

- Low-frequency excitation
- Human activities' representation
- Efficient for environment with excessive background noise
- Easy-to-use
- Lightweight

### Technical Specifications

Material	Silicone
Dimensions (Diameter)	$\varnothing 180$ mm ( $\pm 1$ mm) / 7.08" ( $\pm 0.04$ " )
Weight	2.5 kg / 5.51 lb
Rebound coefficient	0.8 ( $\pm 0.1$ )
Rubber hardness	40 Shore A ( $\pm 0.5$ )
Temperature range	-10 ° to 40 °
Order Information NTi Audio #	600 000 560

## IMPACT FORCE EXPOSURE LEVEL



Octave band centre frequency [Hz]	Impact force exposure level Limits [dB]	Impact force exposure level measured [dB]
31.5	39.0 ± 1.0	39.0
63	31.0 ± 1.5	30.9
125	23.0 ± 1.5	23.4
250	17.0 ± 2.0	18.8
500	12.5 ± 2.0	12.9

## IMPACT FORCE WAVEFORM

