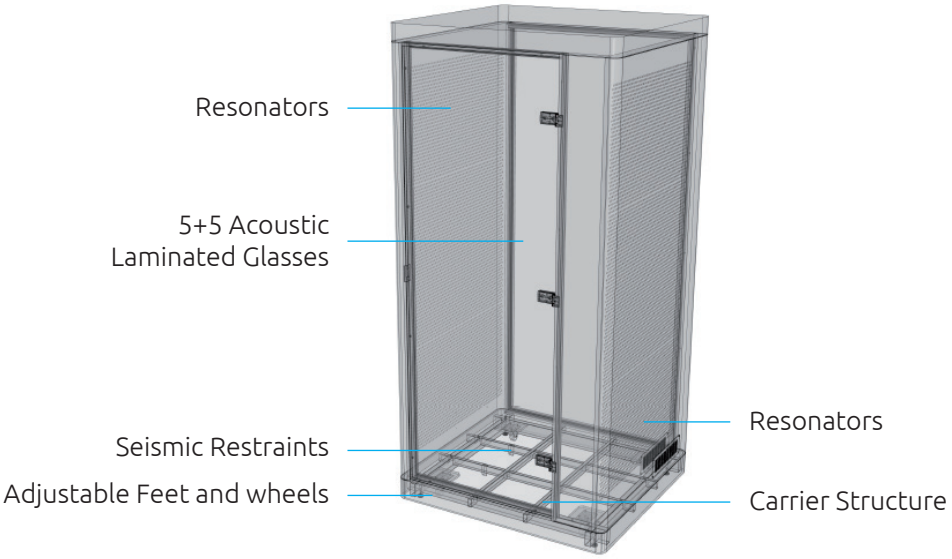
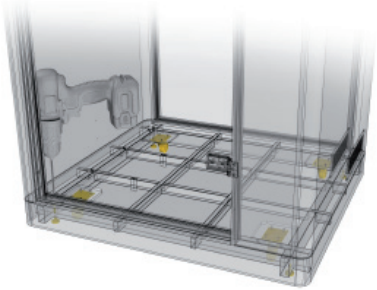
A-pod structure





Adjustable feet can be easily rotated with a hand tool to use the wheels or to fix the booth.

** Wheels only can be applied to A-pod S and M*

Air Flow

For better breathing for less CO2.

- **A-pod S** 47,2 liter/sec (170 m3/h)
- **A-pod M** 70,8 liter/sec (254,8 m3/h)
- **A-pod L** 94,4 liter/sec (339,8 m3/h)

Laminated Glass

To decrease low frequency vibration.

- **For front glass** 5 mm glass + 0,76 PVB + 5 mm glass
- **For door glass** 5 mm glass + 0,76 PVB + 0,76 PVB + 5 mm glass

All glasses in A-pods are laminated.
Door glasses are tempered for extra security.

4+4 and 5+5 glasses have some noise reduction levels.

We are using the 5+5 glasses to increase the mass in order to decrease the vibration.

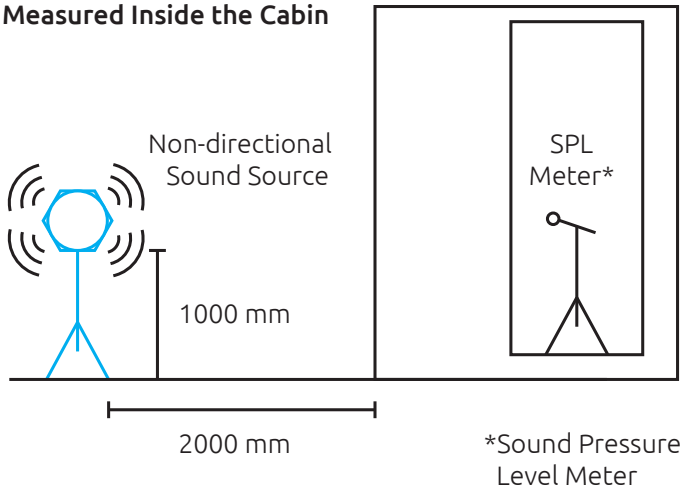
Sound Absorption

An SPL Meter and sound generator were used to measure the sound absorption of the A-Pod.

The measurements have been done in two stages and for each stage three iterations are made.

Below figure shows the details of the location of the sound source and the measurement distance.

Measured Inside the Cabin



Without Resonators

Experiment No	Outside the Room (dB)	Inside the Room (dB)	Total Sound Loss (dB)
1	75	53	22
2	75	54	21
3	75	55	20

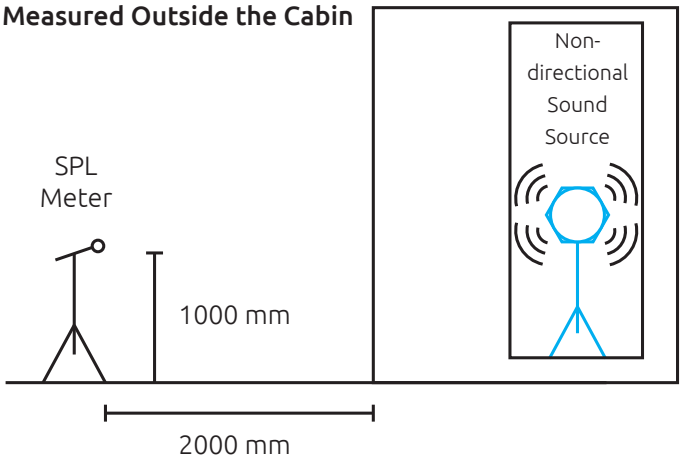
With Resonators

Experiment No	Outside the Room (dB)	Inside the Room (dB)	Total Sound Loss (dB)
1	75	45	30
2	75	46	29
3	75	46	29

Test #1: 55 dB White Noise

Test #2: 75 dB White Noise

Measured Outside the Cabin



Without Resonators

Experiment No	Outside the Room (dB)	Inside the Room (dB)	Total Sound Loss (dB)
1	54	75	21
2	54	75	21
3	53	75	22

With Resonators

Experiment No	Outside the Room (dB)	Inside the Room (dB)	Total Sound Loss (dB)
1	49	75	26
2	49	75	26
3	48	75	27

Measurements have been done in an acoustic laboratory.

MARKANT | **A-pod** spec sheet

Why are we using resonators?
The A-Pods are made with resonators that are acting like low frequency noise traps. It can absorb sound with a frequency of 250 – 500 up to 1000 hertz.

As seen in the measurements, the resonators show a better result in total sound loss compared to the one without resonators.

The resonators do not only absorb high frequencies, also low frequencies are being absorbed. Absorption of low frequencies is very important for human health as they can cause a headache.

Fire safety
A-pod is made of non flammable materials.

Acoustic Recycled Felt meets B-s1,d0 EN 13501-1
And fabric used Test Passed (BS EN 1021 -1:2006 Cigarette)
Test Passed (BS EN 1021 -2:2006 Match)

Perception of the Loudness
According to Zwicker's loudness model, sound decibels can be perceived differently for each.

Experiments show that even with a linear increase of the sound level, the decibel perceived by the human ear is four times higher.

For example: When the sound level is increased with 10 dB this sounds like two times increase to the human ear.

When the sound level is increased with 20 dB it sounds like four times louder to the human ear.

This is due to the exponential increase of the sound pressure level. A sound level change over 25-30 dB may cause discomfort.

Dimensions (L x W x H)

A-pod S

Outer
1100 x 1000 x 2270 mm

Inner
980 x 886 x 2090 mm

A-pod L

Outer
2400 x 1200 x 2270 mm

Inner
2280 x 1086 x 2090 mm

A-pod M

Outer
1806 x 1200 x 2270 mm

Inner
1680 x 1080 x 2090 mm

A-pod XL

Outer
2400 x 2400 x 2270 mm

Inner
2280 x 2280 x 2090 mm