# Acoustic performance statement

Phone booths and meeting pods can be used effectively to eliminate distractions and increase productivity in the workplace, but this means that they are actively used. For pods to be used, they must be placed close enough to their users. This creates certain requirements especially in terms of sound insulation.

Pods' required level of sound insulation expressed in practical terms is that they can be placed close to workstations in an office and people working next to them will not be able to overhear discussions inside. This is especially important in the case of on-demand use of single-person pods which depends on pods being readily available.

Until recently, there was no suitable way to measure and represent the level of sound insulation of small semi-open and enclosed spaces such as pods. Quantities like sound reduction index (R) and sound transmission class (STC) have been used for this, but they only describe the ability of a single component, for example a wall, to reduce sound passing through it.

R and STC are less than helpful when used to express the performance of pods as a whole, because they are always combinations of various components, such as walls, doors, ventilation channels, etc. Because of this, a pod never reduces sound as much as figures in these quantities would suggest.

R and STC figures of individual elements of pods are typically in the range of 38–44 dB. For example, a common R figure for 5+5 mm laminated glass is 38 dB.

ISO 23351-1 is a new standard that can be used to measure the level of sound insulation of furniture ensembles, including semi-open and closed pods, and to produce a single figure, called speech level reduction ($D_{S,A}$), that describes the degree of speech privacy they provide.

Speech level reduction of 30 dB corresponds with the practical requirement of sound insulation mentioned above. Pods with this level of sound insulation can provide full speech privacy at 1-meter (3 feet) distance even in offices with low background noise (<35 dB). With a lower level of sound insulation, pods must be placed further away from people working outside them or background noise must be higher.

However, even if a high enough $D_{S,A}$ figure is available and provided by an accredited testing laboratory, testing pods with actual use in the environment they will be used in is still recommended.

**Please find the $D_{S,A}$ as well as NIC, R $'_w$ and STC figures of Framery's products listed on the next page.**

# D $_{S,A}$, NIC, R′$_W$ and STC figures for Framery pods and their individual structures

| Framery O | | | |
|---|---|---|---|
| Unit | Pod | Wall | Glass wall |
| Speech level reduction (D$_{S,A}$) | 30 | – | – |
| Noise isolation class (NIC) | 34 | – | – |
| Sound reduction index (R'$_W$) | – | 44 | 38 |
| Sound transmission class (STC) | – | 44 | 38 |

| Framery One | | | |
|---|---|---|---|
| Unit | Pod | Wall | Glass wall |
| Speech level reduction (D$_{S,A}$) | 31 | – | – |

| Framery Q | | | |
|---|---|---|---|
| Unit | Pod | Wall | Glass wall |
| Speech level reduction (D$_{S,A}$) | 29 | – | – |
| Noise isolation class (NIC) | 34 | – | – |
| Sound reduction index (R'$_W$) | – | 44 | 38 |
| Sound transmission class (STC) | – | 44 | 38 |

| Framery 2Q | | | |
|---|---|---|---|
| Unit | Pod | Wall | Glass wall |
| Speech level reduction (D$_{S,A}$) | 29 | – | – |
| Noise isolation class (NIC) | 34 | – | – |
| Sound reduction index (R'$_W$) | – | 44 | 38 |
| Sound transmission class (STC) | – | 44 | 38 |

- All figures are in decibels (dB)
- R'$_W$ and STC figures were measured with ventilation channels excluded
- Third party test reports are available per request