



# Pro Cab

## Industrial soundproofing and protection

- Reduces noise levels by 18–20 decibels
- Protects employees from noise and machines from dust
- Improves production area layout planning
- Integrated security protection



## Smart protection all around your machine

The ProCab is an innovation that can achieve a reduction of 18–20 decibels in the noise landscape of industrial manufacturing plants. At the same time, this soundproofing structure provides new opportunities for a manufacturing plant's spatial planning.

In practice, the ProCab is a protective structure built around machines and devices using 14 millimetre thick smart modules with a steel surface. The walls can be made any size and shape that the machines and space require.

The protective structure can be built around the machine either during the machine's installation or it can be retrofitted. The protective structure is integrated with the machine in such a way that it does not slow down use, maintenance or output. The installation is effortless and the protective structure can easily be moved or adapted whenever changes are made to the production area.

## Why does it pay to invest in a ProCab?

The need for soundproofing often arises when a noisy machine is placed in production facilities close to an assembly point, office or other quiet work stations.

The aim is to improve productivity, and this is achieved with the improved working conditions provided by the ProCab and also the ability to freely place other operations close to the machine. An added bonus is that the machine is less exposed to particles from outside.

It is much easier to protect one large entity than many individual stages. This also improves safety at work, makes the production facilities tidier and keeps industrial secrets hidden from outsiders.

### The delivery contains:

- *Machine-specific layout planning*
- *The frame and wall structures of the ProCab*
- *Doors, hatches and conveyor openings*
- *Preparedness for any safety equipment the machine may require*
- *Lighting*

### Extras:

- *Additional soundproofing that increases the level of noise protection*
- *Colours and visual effects according to your company brand*
- *Additional windows for monitoring the production unit*
- *Video surveillance equipment and alarm systems*



## Soundproofing

The ProCab reduces ambient noise by 18–20 decibels in industrial production plants. The human ear perceives a noise reduction of this magnitude as four times quieter, which means that the ProCab's soundproofing is crucial for well-being at work and for coping with the pressures of the job. In some situations, soundproofing is also required by occupational health and safety regulations.

### How can sound be insulated?

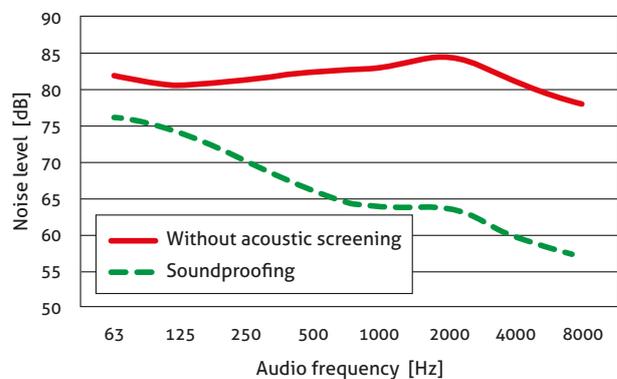
Soundproofing takes place via two different mechanisms:

1. Keeping the noise produced by the machine inside the acoustic screening by utilising its dense wall structure.
2. Absorbing the noise produced by the machine before it travels through the sound insulator.

### How does the ProCab work?

The ProCab is a soundproofing system that has been designed as a collaborative project between PRP and acoustics expert Denis Siponen. Its patented structure follows two principles: it muffles noise and isolates it. This creates excellent soundproofing which opens up brand new opportunities for the planning of production facilities.

### Noise level in the vicinity of the machine



# Pro Cab

- Insulates noise efficiently
- Patented modular structure
- Improves production area layout planning
- Machine-specific layout planning
- Delivery integrated with machine installation
- Retrofitting possible
- Easy to move when needed
- Improves employee comfort and brings cost savings
- Protects from dust and industrial espionage
- Can be adapted to reflect the company brand



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