CleanWall™ - A

Flexible doublewall for Cleanrooms

- Doublewall
- Individually demountable panels
- 90 mm free spacing inside wall
- Ideal for recessed installations
- Hygienic design
- Tight design

The Cleanroom with Total Quality – Cleanroom System A

CleanPlus® - System A, is developed and constructed for use in advanced and demanding environments, where superior hygienic conditions, quality, flexibility, and durability is required.

CleanPlus cleanrooms fulfill all GMP-requirements as well as all applicable cleanroom standards.

CleanPlus cleanrooms have the smoothest and tightest surfaces possible, for safe and simple cleaning.

Each wall, with individually removable panels, acts as an installation wall. This allows installations to be complemented with additional media and this often without affecting the cleanroom cleanliness.

Flexible, hygienic and cost effective!

The double wall enables simple and hidden media installation

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The double wall is a very stable design with robust, hot-galvanized steel studs on which entirely tight and smooth wall panels are mounted.

The panels are mounted from each side, without screws or any other additional means of attachment. As a result, each wall panel can be separately removed and reinstalled.

The double wall enables simple and hidden media installation, where each module is used as an installation panel.

The free spacing, vertically and horizontally through the studs, is 70 mm. If more extensive media installations are required in a room, it is easily managed through expansion of selected panels. Exhaust air channels are usually hidden inside the double wall.

If a single wall is required, e.g. in combination with an existing wall, the panel is mounted on one side only.

At installation, the inner cleanroom panels are mounted first. Then, working from the outside, media are installed inside the walls, and finally, the outer panels are mounted.

When the assembly is finished, a colour-customized sealing compound is applied between the wall elements and against the floor and ceiling.

Maintenance and complementary media installation is done without disturbing the cleanroom environment, since it is only necessary to remove the outside panels.

The finished wall, with soft-joined panels, is a very tight design. There is no detectable leakage through the CleanPlus walls at a pressure difference of up to 80 Pa.

The wall panel consists of a powder coated hot-galvanized steel plate, which is glued to a plasterboard. The cleanroom side of the panel is covered with primer and a varnish layer of food-quality polyester (25 µm in total) The varnish is highly UV-resistant and the standard colour is white RR20. It is also available with other surface layers, other colours, as well as with a stainless steel finish.

The wall modules can be delivered in varying widths from 50 to 1200 mm. The standard thickness of the wall is 120 mm, with a clear spacing of 90 mm inside the wall. Walls of other thicknesses are also available. The panel height can be modified as required.
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Sound insulation

Sound insulation CleanWall™ A
CleanWall A with its double wall system insulates sound very well. Measurements have been performed on a fully mounted CleanPlus CleanWall A double wall. Measured sound isolation is 39 dB $R_w$

If higher sound insulation is wanted, it is easy to isolate the installation space in the wall. Measured sound insulation at the insulated wall is 43 dB $R_w$

When there is installations in the wall the sound insulation deteriorates slightly. eg: “Glass partitions Clean Vision = 36 dB $R_w$"

In 2010 Caverion acquired NNE:s cleanroom department. No new measurements have been made since then because the wall still have the same design. Thereby the name NNE on the report above.