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## Soundproofing - Hygienic Enclosure of a Glass Bottle Rinsers

Glass bottles, before being filled with soft drinks, undergo a “washing” process to make sure no dirt is present inside and to guarantee the necessary levels of hygiene.

Rinsers generally have a section before them which serves as a plenum to guarantee sufficient numbers of bottles on the line. The clinking of glass bottles, as they hit one another, generates very high noise levels.

A specifically designed, completely washable and sanitazable enclosure was realised so that the operator supervising the two rinsers could work from a quiet environment. Side panels of the enclosure were realised in solid Corian® by DuPont™, with glazed sections installed flush to the surfaces.

The supporting frame was realised in AISI 316 Stainless Steel box sections. A highly absorbent roof was realised with AISI 316 panels with a very thin polymer membrane to allow sound to be absorbed by the inner cushioning material.

Hinged doors for technicians access, and sliding doors for intervention on the adjacent machines completed the enclosure.



The result was is a fully washable and corrosion resistant soundproofing enclosure, suitable for the harshest environments which require the highest levels of hygiene.

Sound levels outside the enclosure were reduced to below 85dB(A), to the full satisfaction of the customer and operators.

- **Completely washable enclosure with the highest levels of hygiene**
- **Fully accessible and serviceable**
- **Modular, flexible design can be adapted for any installation environment.**

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