



Vita

The Halton Integrated Ceiling solution

for cleanrooms in healthcare, pharmaceutical and industry sectors



The Halton Integrated Ceiling is a complete solution – a smooth, impervious and unbroken suspended metal ceiling with integrated lighting and ventilation for new build and upgrade applications, in compliance with ISO 14644, EU GMP Annex 1 and GMP in food industry.



Together with lights, ventilation outlets, tight dampers, controllers and user panels, Halton offers a complete Integrated Ceiling Cleanroom solution.

Features of integrated building services:

The Halton Skyline light integrated flush. In its Human Centric version, Halton Skyline enables creating a lighting cycle close to that of the daylight, to improve the occupants' wellbeing. It is especially suitable to night shift.

The Halton Jaz diffuser family is designed in accordance with the core values of Halton to meet the following requirements:

- Sustainable production with reduced waste and production close to markets
- Excellent performance in terms of airflow range and flexibility
- Comfortable indoor environmental conditions through silent operation

Airtight installation includes plenum and shut-off damper.



Halton Vita HEPA VHT diffuser designed for hospitals and cleanrooms. It is suitable to install flush with the ceiling. Air is supplied through adjustable nozzles.

Blue light in the diffusers - HEPA diffusers with integrated disinfection units for spaces where high cleanliness levels are required. Integrated blue light technology provides a chemical-free disinfection method for surfaces to ensure a safer working environment.

» AIRTIGHT

Airtightness is a fundamental aspect of cleanroom design and operation, as it is essential for maintaining the containment, high levels of cleanliness and environmental control. The VDI 2083 standard focuses on the manufacture of sterile medicinal products, and it provides detailed guidelines for ensuring the quality, safety, and efficacy of these products. Halton ICS ceiling's solid metal connection's airtightness has been tested to comply with the Class 1 for ISO 7-9 and class C and D according to VDI 2083-19 and Class 3 for ≤ISO 6 with additional silicone sealing. Openable ceiling parts enable maintenance in the ceiling void.

» SMOOTH, HYGIENIC AND RESISTANT

All Halton ICS components, including the wide flat supporting heads, are assembled metal-to-metal and in a flush way. The whole visible surface is flat, without any protruding connecting elements (such as T profiles, rivets, or screws) minimizing the risk of dirt build-up, difficult to remove during cleaning. By using wider panels of greater span, the proportion of joints is significantly lower compared to classic ceilings. The surface properties and biological and chemical resistance of the ceiling were tested according to the strongest hygiene requirements.

» WITH ELEGANT DESIGN

An aesthetically pleasing appearance evoking associations with hygiene and cleanliness, creates safe, comfortable, and nice working environment for the staff. It creates a setting that have a soothing effect on the senses.



Contamination, particle and microbial control



Airflow control



Differential pressure control



Energy efficiency



Excellent work environment



Halton Integrated Ceiling delivery includes:

- Project specific design and documentation
- Industrial premanufacturing
- Design qualification (DQ) by factory acceptance testing upon need
- Installation by qualified trained staff
- Site survey
- Project management
- Support for installation (IQ) and performance qualification (PQ)
- On-site modifications and sealing of process penetrations
- Life cycle support

The Halton Integrated Ceiling solution can be installed in the refurbished or new projects.

The area of applications:

- Pharma
- Biosafety
- Food and Beverage
- Semiconductors

About us

Halton is passionate about indoor environments. We offer business-enhancing products, systems, and services for comfortable, energy-efficient, and safe environments to customers who value people's wellbeing. Halton is involved from target-setting to facility use and focuses on creating positive indoor environment experiences for people.

Contact us at:

www.halton.com