PROCLEANROOM
BUILD YOUR EXPERTISE
QUALITY APPROVED

Cleanroom Systems
UltraTech Versatile

High Specification, Customisable, Cleanroom Systems

POWERED BY QuadCore™ TECHNOLOGY

PROCLEANROOM
BUILD YOUR EXPERTISE

Cleanroom Sectors
Applications

There are a variety of reasons why a company needs to have a Clean Controlled Environment.

For example, you may be manufacturing a material that is easily contaminated by airborne particles, but cleanliness is only one of the aspects controlled within a cleanroom. Cleanrooms can also control temperature, humidity, sound, lighting, and vibration when necessary. The operations being conducted will determine which variables must be controlled.

Industries which commonly need cleanrooms include:

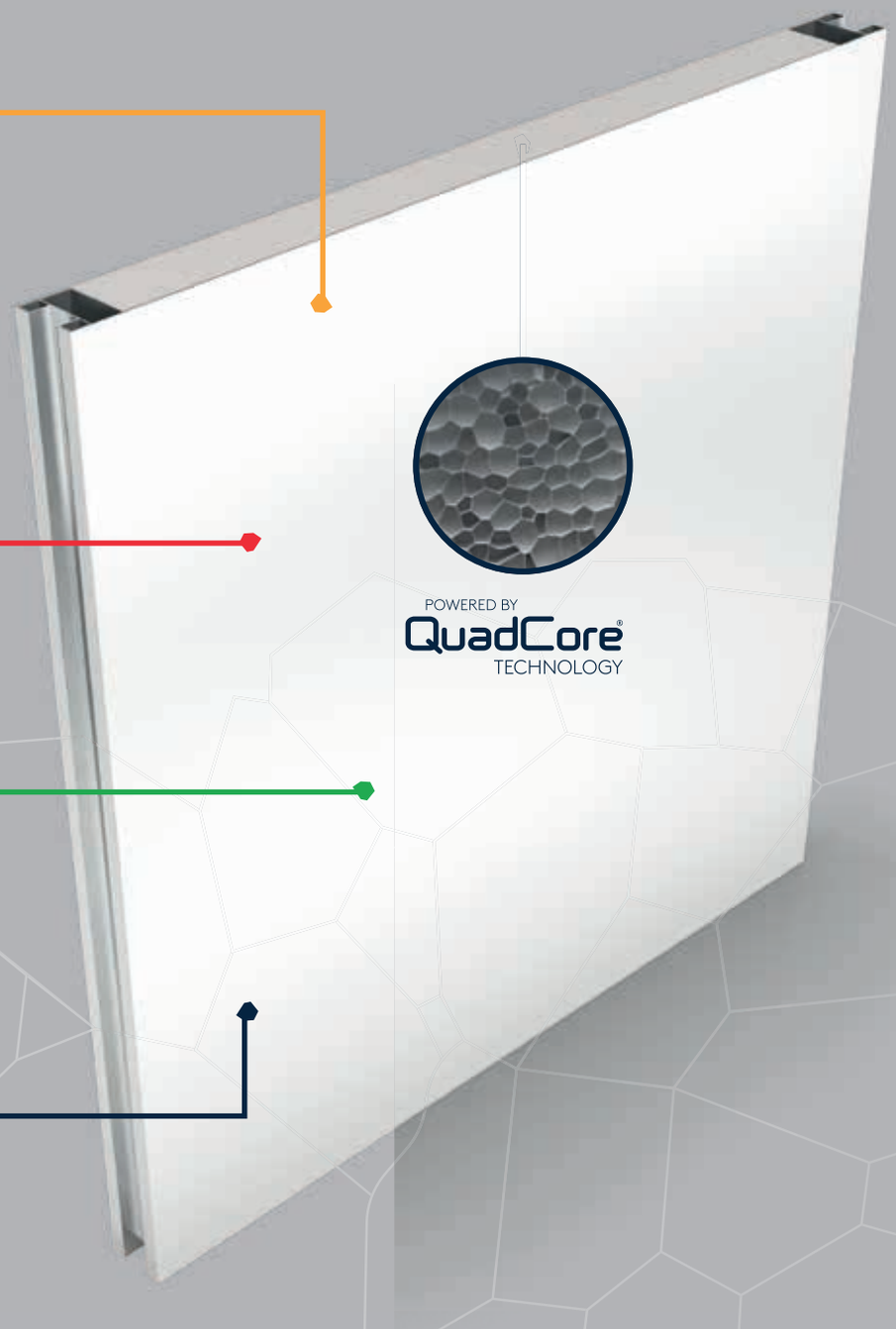
- Life Science
- Food Technology
- Pharmaceutical
- Automotive
- Bio Technology
- Electronics & Semiconductor
- Healthcare
- Cosmetics
- Medical Devices
- Aerospace
- AgriTech

Unrivalled Thermal Performance

Superior Fire Protection

Enhanced Environmental Performance

40 Year Warranty for Thermal & Structural Performance



UNEQUIVOCAL 40 YRS WARRANTY
THERMALSAFE

QuadCore® is guaranteed to retain its specified thermal performance for the stated period, even if exposed to water during construction.

FIRE

Quadcore provides market leading performance in reaction to fire testing.

ECOSAFE

QuadCore® is a RedList Free core in an insulated panel with Low Global Warming Potential, with third-party verified EN 15804 EPDs on EcoPlatform and Greenbooklive.

FIBREFREE

QuadCore® is non-sensitising (does not cause skin irritation when handled) and non-hazardous.

100% RENEWABLE ENERGY

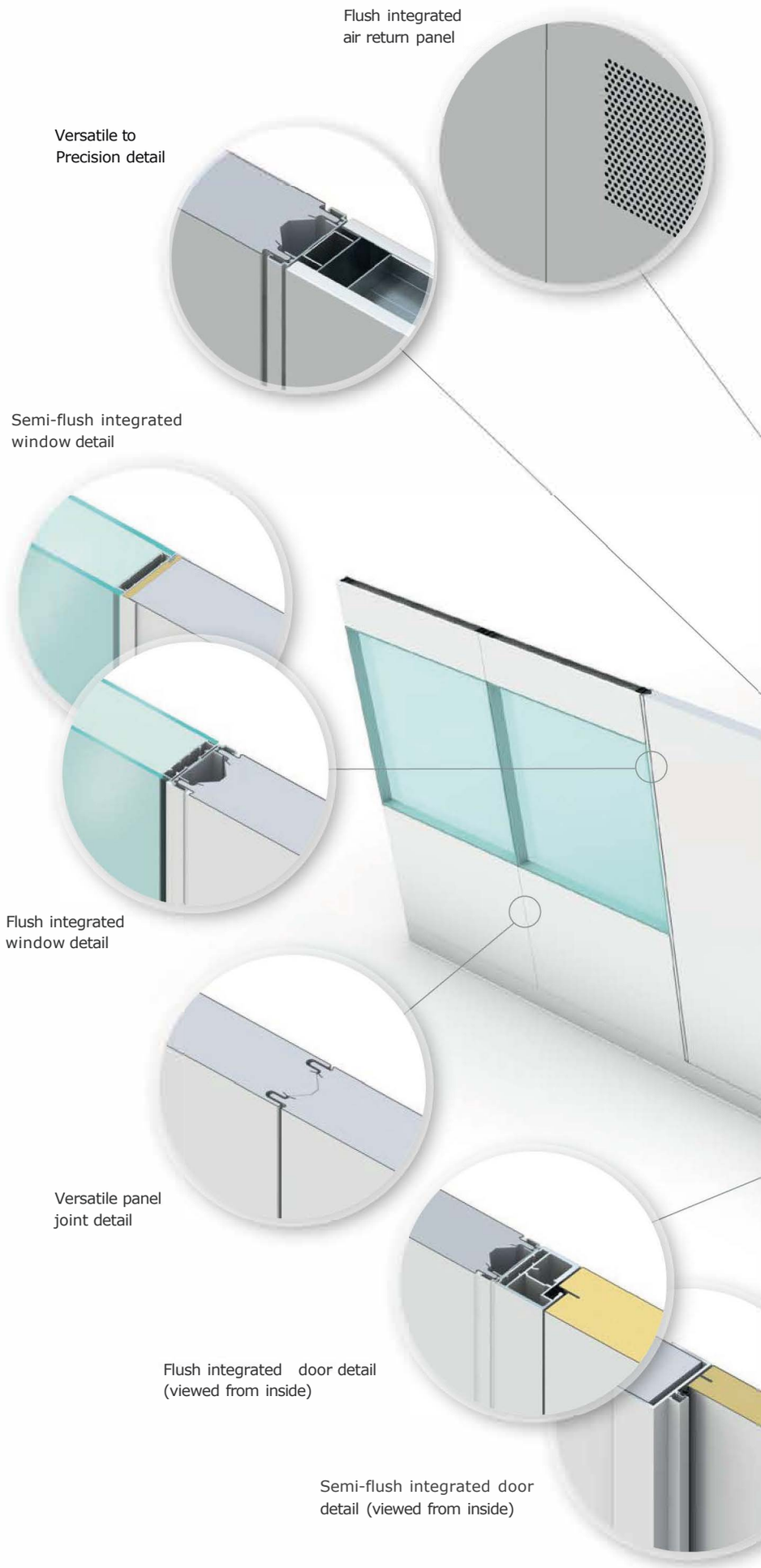
QuadCore® is manufactured in factories with 100% renewable energy including onsite-generated solar and wind energy.

For further details please contact our technical team - technical@kingspanpanels.com

UltraTech Versatile

Why choose UltraTech Versatile?

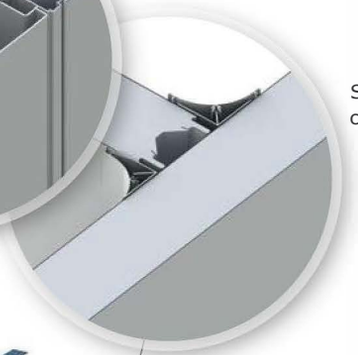
- Unique fully flush hybrid system.
- Bespoke design flexibility combined with all the advantages of an insulated panel and its beneficia! economies of scale
- Consistent high quality, factory engineered system
- Simple and fast construction
- Approved to FM 4882 for smoke sensitive occupancies (Dependent on panel choice. Please refer to product datasheets)
- cGMP compliant
- Interlocking tongue and groove joint system
- Integrated solution - doors, windows, corners, floor tracks, air return panels and other components
- Semi-Flush option provides slimmer ledges to achieve a superior aesthetic appearance compared to other equivalent systems
- Langer panel lengths - cleanroom heights over 6 metres
- HYGIENE safe anti-bacterial coating option
- Ultra airtight system
- Wide range of CLEAN safe coating systems



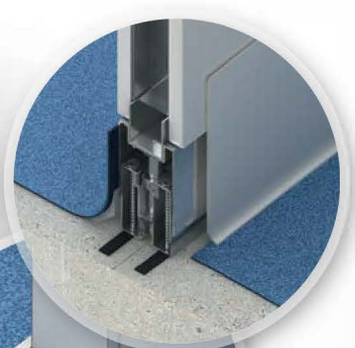
Flush integrated service conduit

Single component 3-way pre-formed corner

Site assembled 3-way corner detail



Recessed adjustable floor track detail



U-channel floor track detail

Site assembled corner detail (viewed from inside)

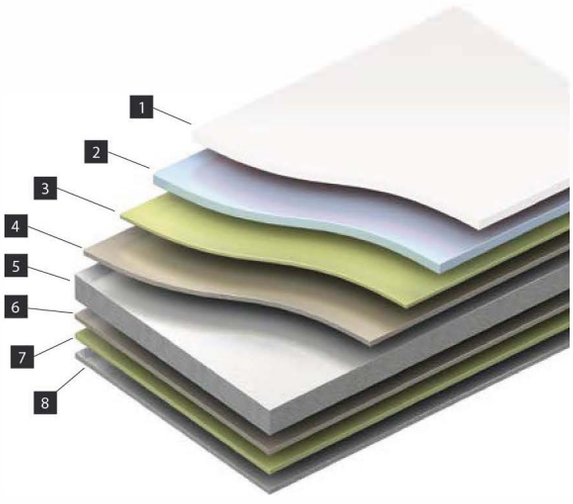
Single component pre-formed corner (viewed from inside)

High Performance Coatings Internal Applications

Kingspan CLEAN safe 25

King span CLEAN safe 25 is a chemically inert polyester (PE) coating, applied to pretreated metal, suitable for moderately aggressive internal environments.

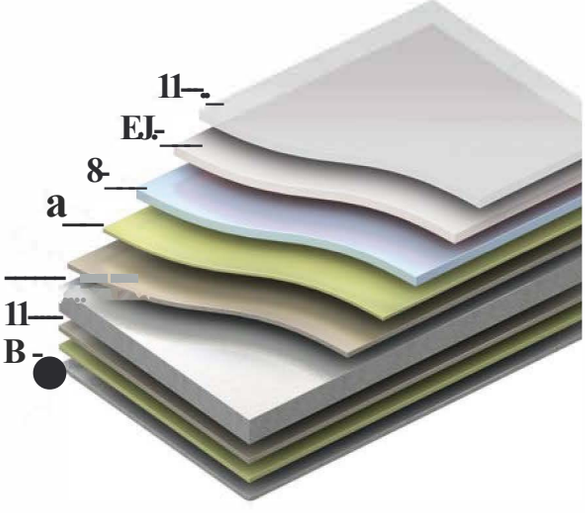
- 25µm polyester top coat
- Primer
- Pre-treatment
- Metallic protection
- Metal substrate
- Metallic protection
- Pre-treatment
- Backcoat



Kingspan CLEAN safe 55

King span CLEAN safe 55 is a chemically inert colaminated polyethylene terephthalate (PED film and polyester (PE) point, applied to pre-treated metal, suitable for humid and chemically aggressive internal environments.

- 55µm PET film
- Polyester
- Primer
- Pre-treatment
- Metallic protection
- Metal substrate
- Metallic protection
- Pre-treatment
- Back coat

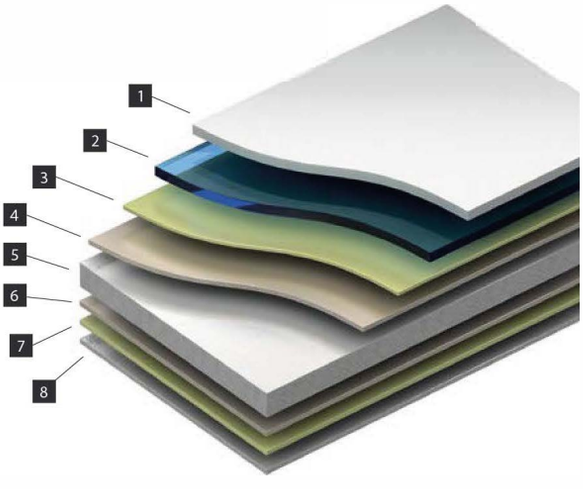


Kingspan CLEAN safe 120

Kingspan CLEAN safe 120 is a chemically inert polyvinyl chloride (PVC) film, laminated to pre-treated metal, suitable for internal for controlled environments.

Joints between panels can be either caulked or chemically cold-welded.

- 120µm PVC film
- Adhesive
- Pre-treatment
- Metallic protection
- Metal substrate
- Metallic protection
- Pre-treatment
- Backcoat



High Performance Coatings Internal Applications

Kingspan CLEAN safe Stainless steel 316L

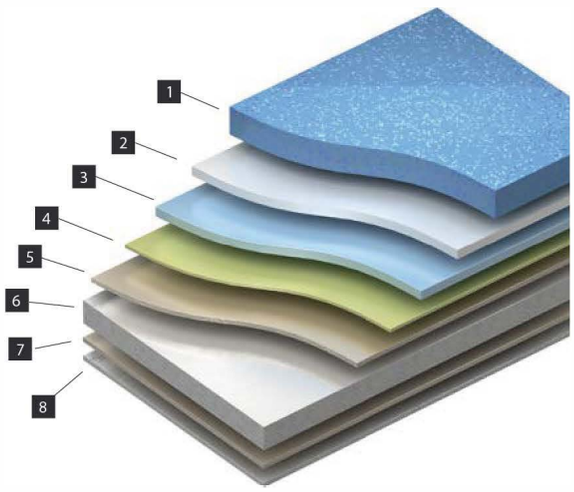
Kingspan CLEAN safe Stainless steel 316L is a chemically inert, gap-free austenitic stainless steel, specifically designed for conditioned environments and environments with a high corrosion factor.

Kingspan HYGIENE safe 150

Kingspan HYGIENE safe 150 is a chemically inert polyvinyl chloride (PVC) film with antibacterial properties, laminated to pre-treated metal, suitable for internal for controlled environments.

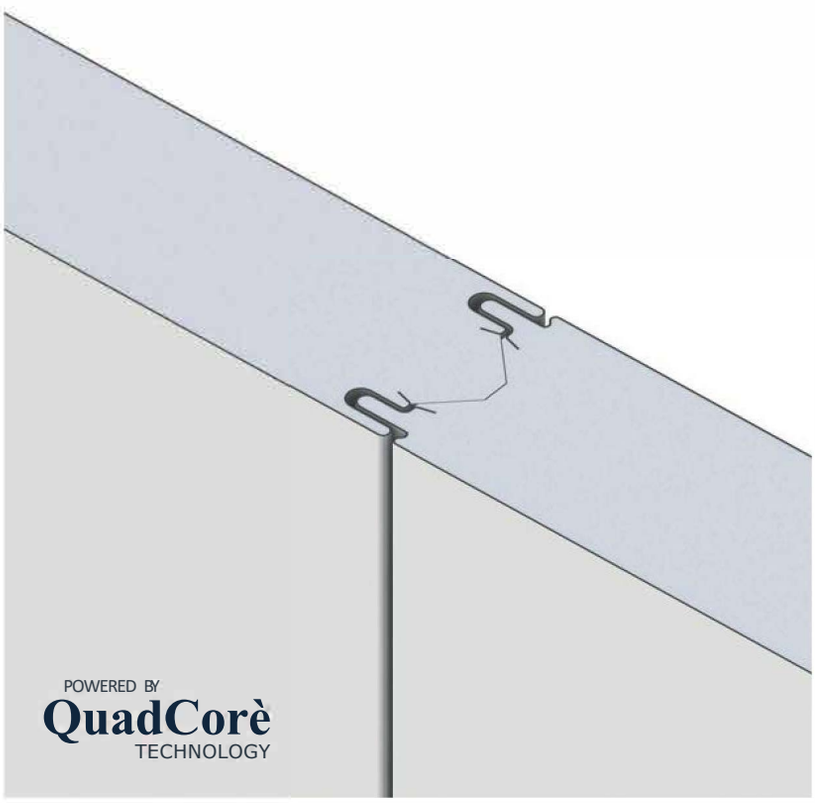
Joints between panels can be either caulked or chemically cold-welded.

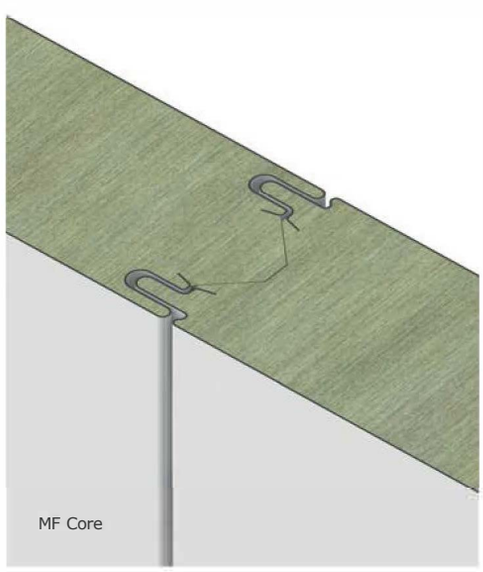
1. 150µm PVC film
2. Adhesive
3. Primer
4. Pre-treatment
5. Metallic protection
6. Metal substrate
7. Metallic protection
8. Back coat



System Selection

The Ultraîech range offers ftexible, high performance, engineered cleanroom solutions that deliver bath cost and operational benefits, minimising risk and maximising return on investment.





UltraTech Versatile

Ultraîech Versatile is our NEW revolutionary hybrid cleanroom system that offers the dient high performance solutions to fulfil their every aspiration for cleanroom systems at much lower cost than traditional methods.

With the option to choose either flush, semi-flush or combination of both elements, Ultraîech Versatile removes the boundaries to provide totally flexible cleanroom design.

- Thickness: 50, 60 ,80, 100, 125, 150, 175, 200 or 220mm.
- Panel length: up to 19,5m.
- Panel care: QuadCore ™ (approved to FM 4882) or mineral fibre.
- Panel coatings: Kingspan CLEAN safe 25, 55,120,316 and Kingspan HYGIENE safe 150.

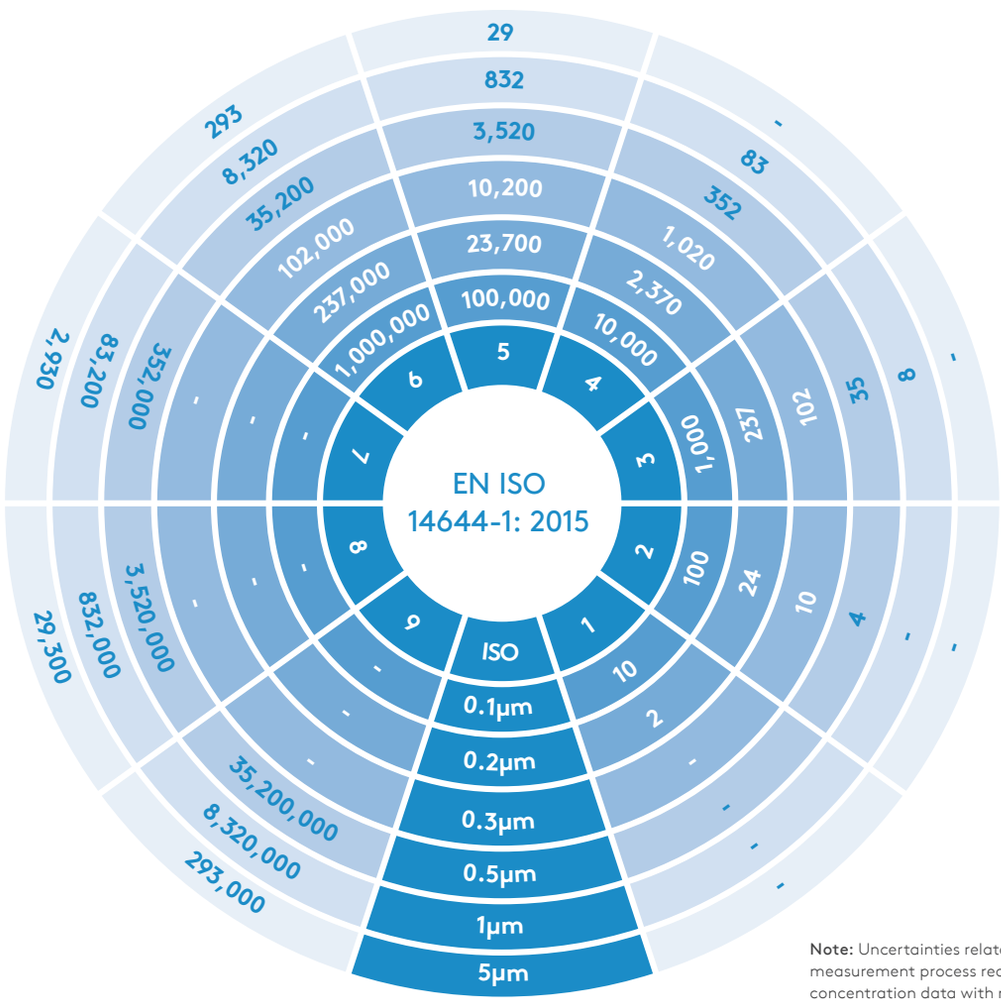
Note: The above technica! information relates to QuadCore - only, please relate to our datasheet for mineral fibre technica! information.

Cleanroom Systems
Classifications

The classification of air cleanliness is governed by the European Standard EN ISO 14644-1: 2015 – cleanrooms and associated controlled environments Part 1.

The type and classification of the cleanroom you need depends on various factors:

- Your particular industry and the specific operation that will be carried out under controlled conditions.
- The level of cleanliness required, and the condition in which that level of cleanliness has to be controlled and maintained.
- The air permeability characteristics of UltraTech Cleanroom Systems in association with other aspects of the cleanroom design and installation.



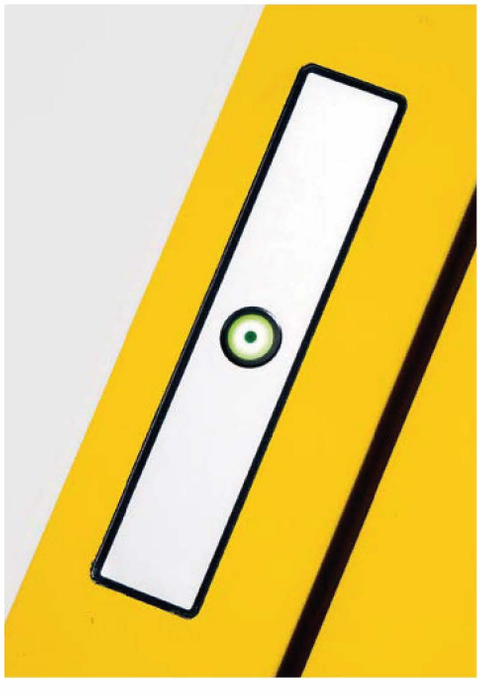
Note: Uncertainties related to the measurement process require that concentration data with no more than three significant figures be used on determining the classification level.

Maximum concentration limits (particles/m^3 of air) for particles equal to and larger than the considered sizes shown above

Cleanroom Systems Features

Our high quality, innovative UltraTech cleanroom solutions are ideal fora wide range of sectors.

Contact our dedicated team to find out how we could help you.



UltraTech Versatile is a unique cleanroom system that provides complete design nexibility and high performance combined with unparalleled cost-efficiency.

Case studies

Anvil Industries

- ISO class 7
- Dimensions: ca. 250 m2 (24m x 10.5m) x 3m int. height

Kulicke & Soffa®

- ISO class 7
- Dimensions: ca. 110 m2 (10m x 11m) x 3m int. height

Case studies

LOA | FULL SURFACE GROUP

- ISO class 6 / 7
- Dimensions: ca. 130 m2 (10m x 13m) x 3m int. height

BKL Engineering

- ISO class 8
- Dimensions: ca. 540 m2 (18m x 30m) x 4.65m int. height

Case studies

iai industrial systems
part of HID Global

- ISO class 7
- Dimensions: ca. 85 m2 (13m x 6.5m) x 2.9m int. height

VACUTECH
VACUUM EN PRECISIE TECHNOLOGIE

- ISO class 7
- Dimensions: ca. 110 m2 (10m x 11m) x 3m int. height

Contact Details

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BUILD YOUR EXPERTISE

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