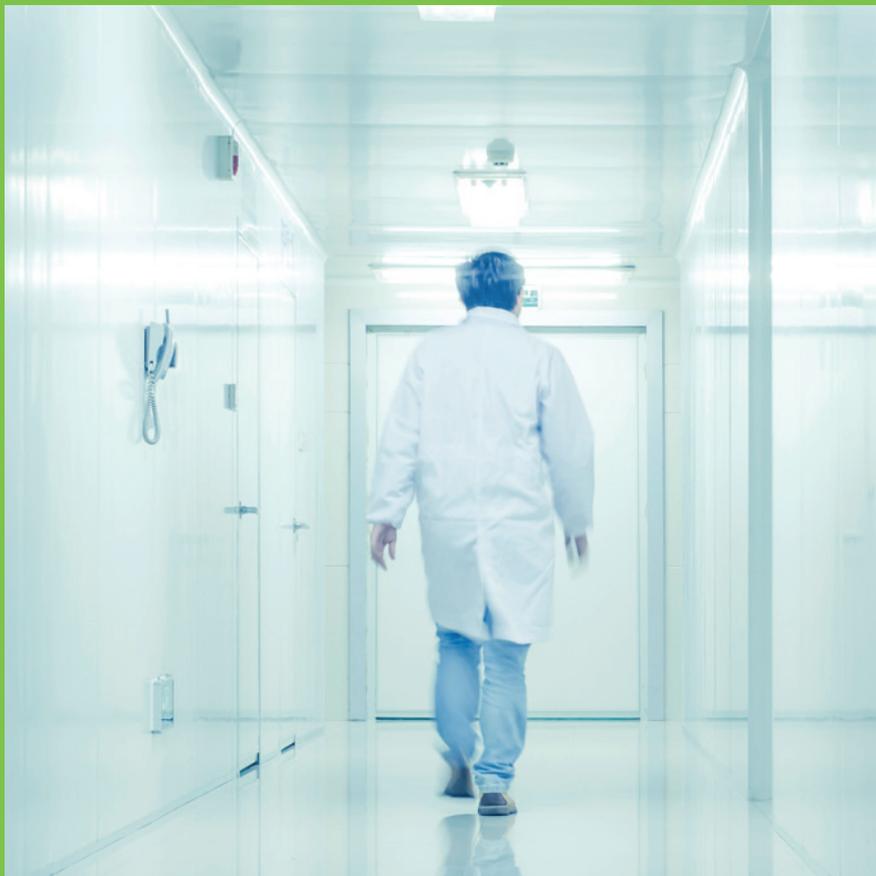


Cleanroom Systems

UltraTech



High Specification Cleanroom Systems

Innovative Cleanroom Systems by Kingspan

**High-end, versatile
cleanroom solutions
tailored to your individual
project requirements,
delivered seamlessly by
the technology experts.**

With over 50 years' experience and exciting innovations behind us, we now bring that knowledge to the sector to offer you the ultimate cleanroom solutions.

UltraTech Cleanroom Systems are backed up by exceptional 360° support and service from initial concept, through detailed 3D design, manufacture, installation and project handover.

Kingspan Group



MORE THAN

50

YEARS EXPERIENCE

OPERATIONS IN OVER

90

COUNTRIES ACROSS
THE GLOBE

MORE THAN

6.6k

EMPLOYEES WORLDWIDE

NET-ZERO BY

2020

ACROSS ALL KINGSPAN
BUSINESSES



IPN QuadCore™ TECHNOLOGY

A Breakthrough in Insulated Panel Core Technology for Enhanced Performance

UltraTech solutions feature IPN-QuadCore, a quantum leap in insulated panel core technology that delivers the industry-leading thermal performance, superior fire protection and enhanced environmental credentials for your cleanrooms.

FM 4882

The Highest Level of Certification and Approvals

What's more, IPN-QuadCore is the only closed-cell insulated panel material approved to FM 4882 for smoke sensitive occupancies.



The Highest Levels of Cleanliness and Durability

UltraTech Cleanroom Systems also feature HYGIENEsafe - a high performance anti-bacterial coating that actively inhibits the growth of bacteria, molds, fungi and other microbes through the controlled release of silver ions to provide continuous, long-lasting protection and hygiene where normal cleaning may not be guaranteed.

Kingspan has over 50 years of experience in its industry the world over.

Our expertise in cleanrooms allows us to meet the precise needs of your particular sector, whether that is pharmaceutical, medical, semi-conductor, biotechnology, cosmetic or high-tech.

Increasing our know-how through constant contact with our clients, we can offer you bespoke envelope design, - providing high quality solutions based on modular panels and walkable ceilings.



Expertise



Innovation

Across the globe, our name is synonymous with innovation in insulated panel systems and the development of advanced insulation technologies.

Now we bring that innovation to the cleanroom sector, creating something truly unique – a range of high performance, rapid build cleanroom solutions featuring a game-changing hybrid insulation core that is radically different from anything that has gone before it: **IPN-QuadCore**.

Our UltraTech cleanroom solutions are designed for both flexibility and economy.

With a choice of three interchangeable systems, we offer customisable solutions for your specific cleanroom environment requirements and aspirations.

Designs and materials depend on the application specified and special processes which need to be incorporated, such as anti-bacterial coatings, fibre-free cores and enhanced fire performance.



Versatility

At Kingspan, we pride ourselves on our 360° service and support across a wide range of cleanroom applications, to provide you with the best possible customer experience.

We will be with you every step of the way, from concept to completion, and our dedicated and experienced team will support your project to give you total peace of mind.



Service

With our UltraTech cleanroom solutions, installation is faster and simpler.

Our simple, modular solutions offer 'plug and play' integration to provide fast, efficient installation. Whether you choose one of our continuously trained and certified installers or your own preferred contractor, our unrivalled technical support is on hand to assist the process. We have a wealth of experience in various cleanroom installation methods and service delivery.



Installation



Compliance

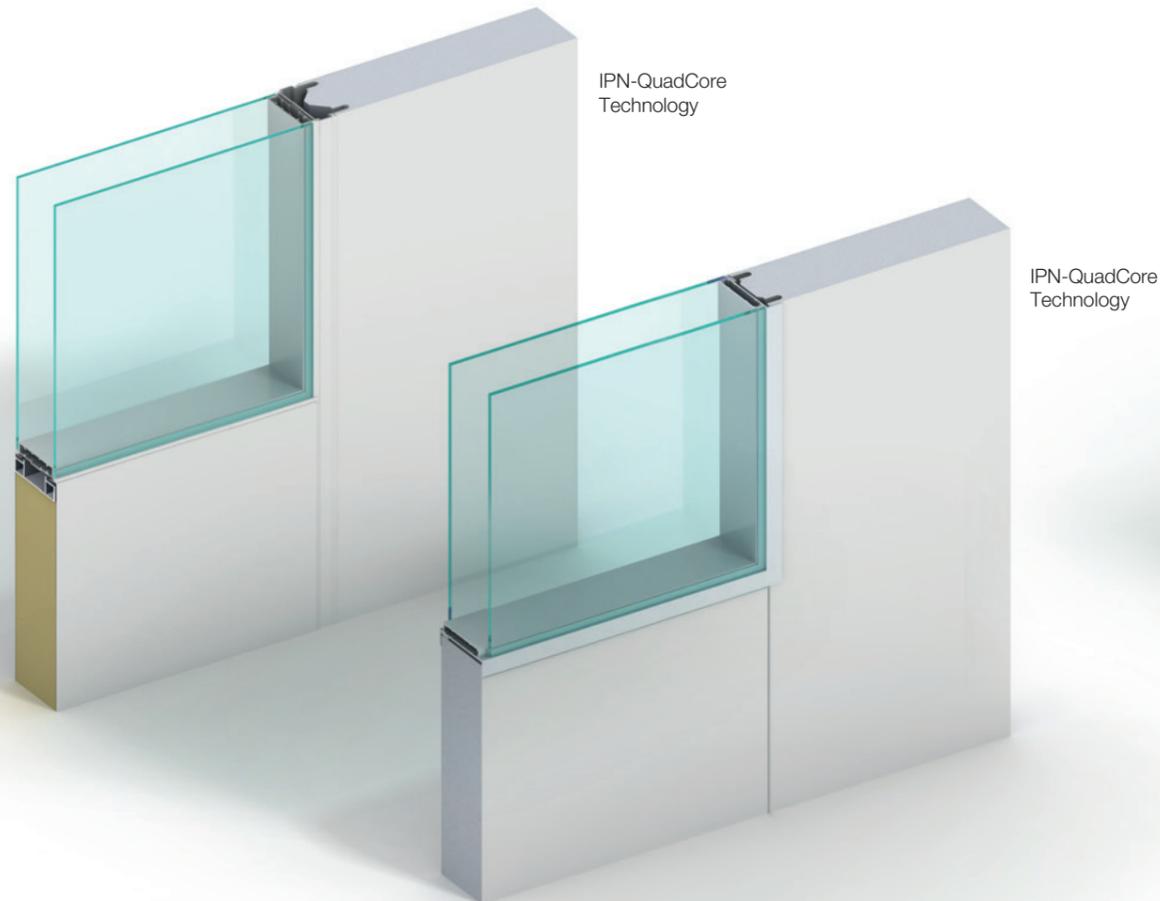
We focus on continually delivering the best quality products.

With this in mind, all our UltraTech systems are manufactured in production facilities which are certified to EN ISO 9001, EN ISO 14001: 2004 and OHSAS 18001.

UltraTech cleanroom panels comply with the appropriate standards, such as EN ISO 14644 and cGMP. They are also third party tested and certified to the highest industry standards by LPCB and FM Global.



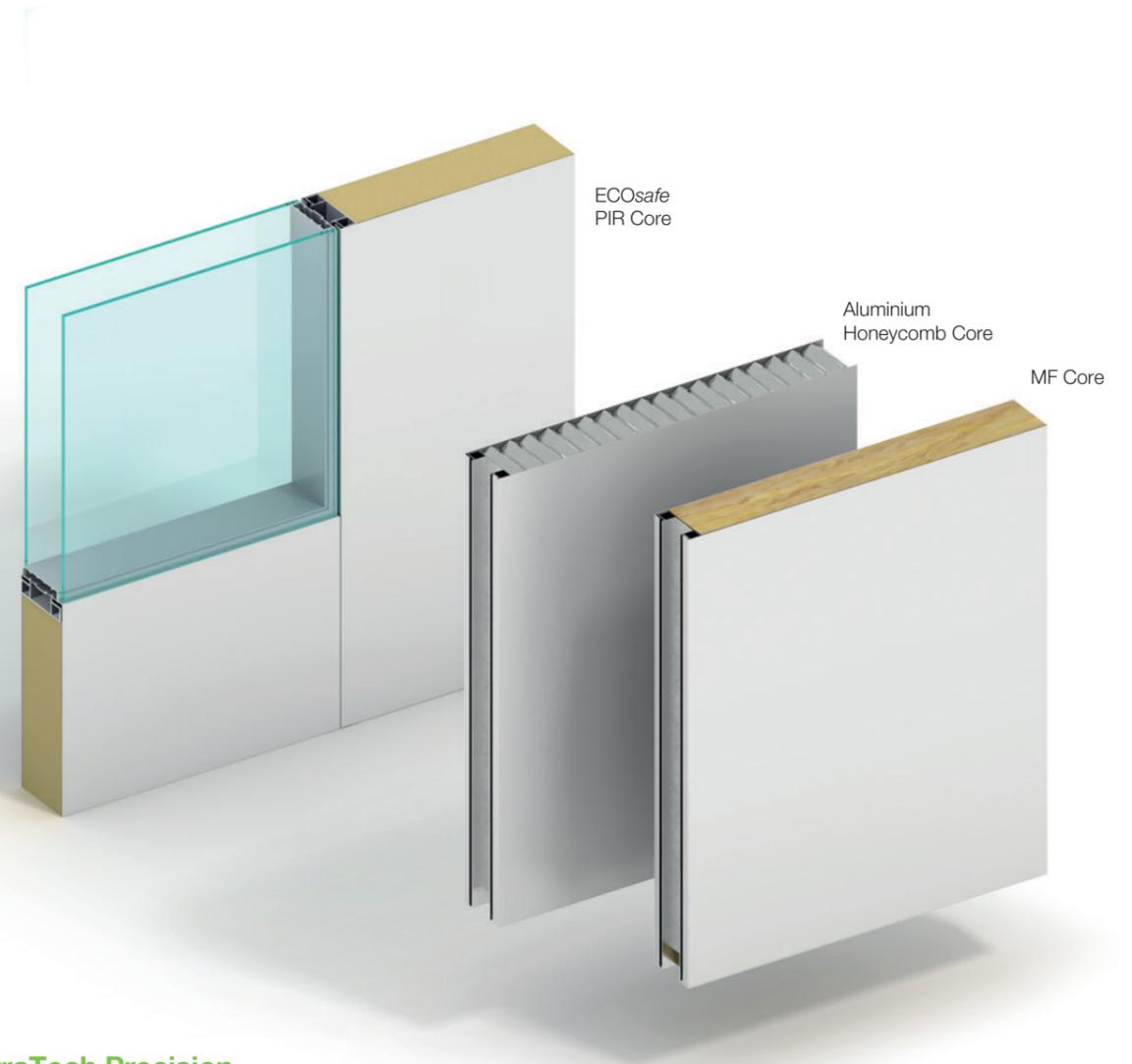
The UltraTech range offers flexible, high performance, engineered cleanroom solutions that deliver both cost and operational benefits, minimising risk and maximising return on investment.



UltraTech Versatile

UltraTech Versatile is our NEW revolutionary hybrid cleanroom system that offers the client 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, UltraTech Versatile removes the boundaries to provide totally flexible cleanroom design.



UltraTech Precision

UltraTech Precision is a conventional flush modular system for specialist cleanroom applications.

With a choice of three core options - ECOsafe PIR, MF Core and Aluminium Honeycomb - UltraTech Precision is suitable for cleanrooms with distinct performance requirements.

Cleanroom Systems

Our NEW UltraTech Versatile system is set to transform the cleanroom industry.

Truly flexible and multi-integrated, UltraTech Versatile combines seamless aesthetic appearance with advanced insulated panel technology to provide high quality, guaranteed performance and fast installation. Its ground-breaking interface design offers multiple benefits compared to traditional cleanroom systems, allowing the interchanging of different components leading to greater freedom of choice for designers and installers.

With the ability to specify the size, finish and configuration of your cleanroom components, UltraTech Versatile offers new ways to truly achieve any vision.

UltraTech Versatile also delivers outstanding all-round performance throughout its life cycle, across environmental sustainability, fire safety, structural and thermal performance.

UltraTech Versatile

Why choose UltraTech Versatile

- Unique fully flush hybrid system, patent pending
- Bespoke design flexibility combined with all the advantages of an insulated panel and its beneficial economies of scale
- Consistent high quality, factory engineered system
- Simple and fast construction
- Approved to FM 4882 for smoke sensitive occupancies
- 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
- Longer panel lengths - cleanroom heights over 6 metres
- HYGIENEsafe anti-bacterial coating option
- Flexibility – variable widths to suit layout
- Ultra airtight system

IPN **QuadCore**
TECHNOLOGY

FM 4882

HYGIENEsafe
Anti-bacterial Coating

CE



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

Cleanroom Systems

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- Flexibility – variable widths to suit layout
- Ultra airtight system
- Wide range of CLEANsafe coating systems

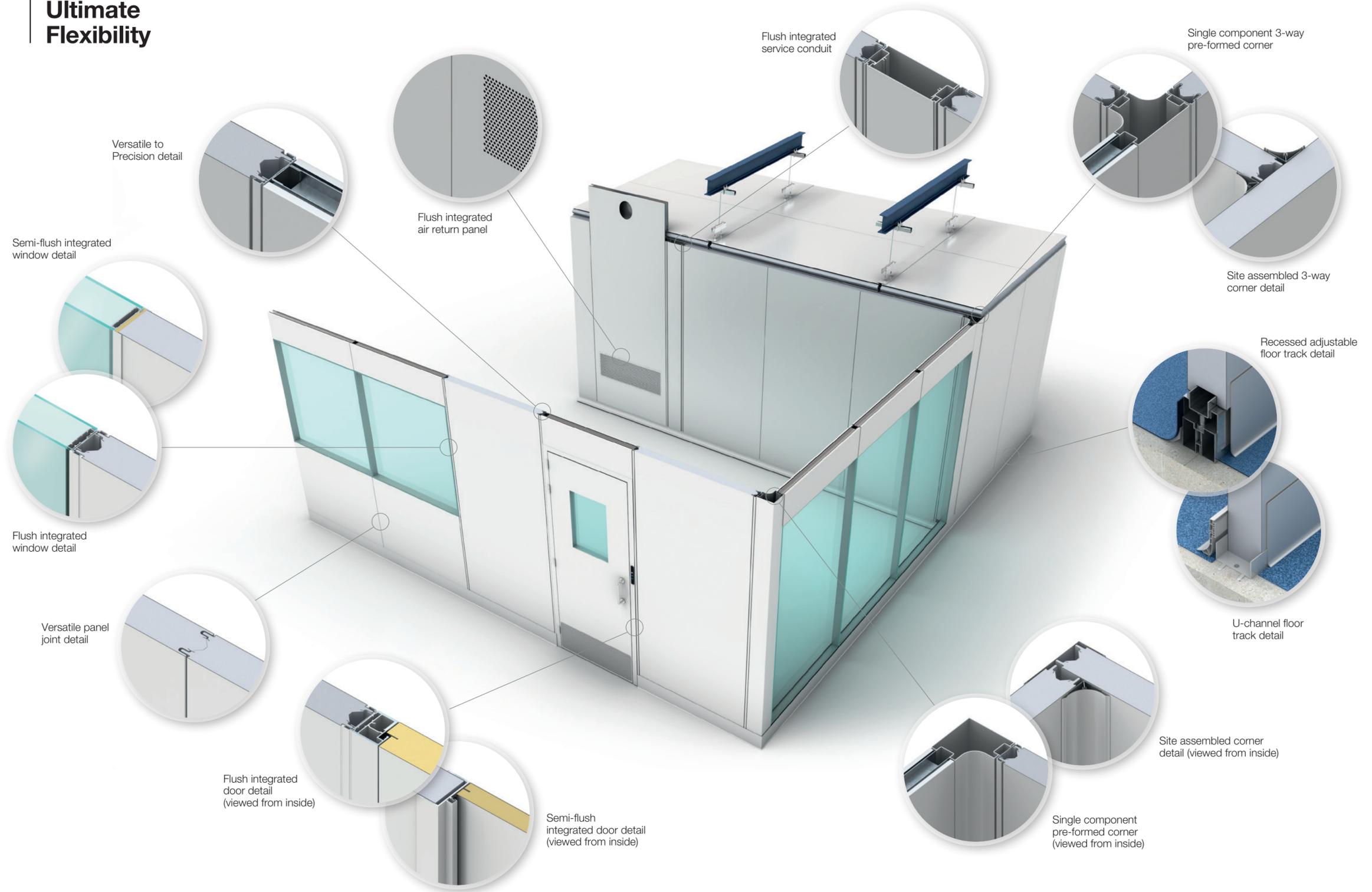
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FM 4882

HYGIENEsafe
Anti-bacterial Coating

CE

Ultimate Flexibility



Cleanroom Systems

UltraTech Precision

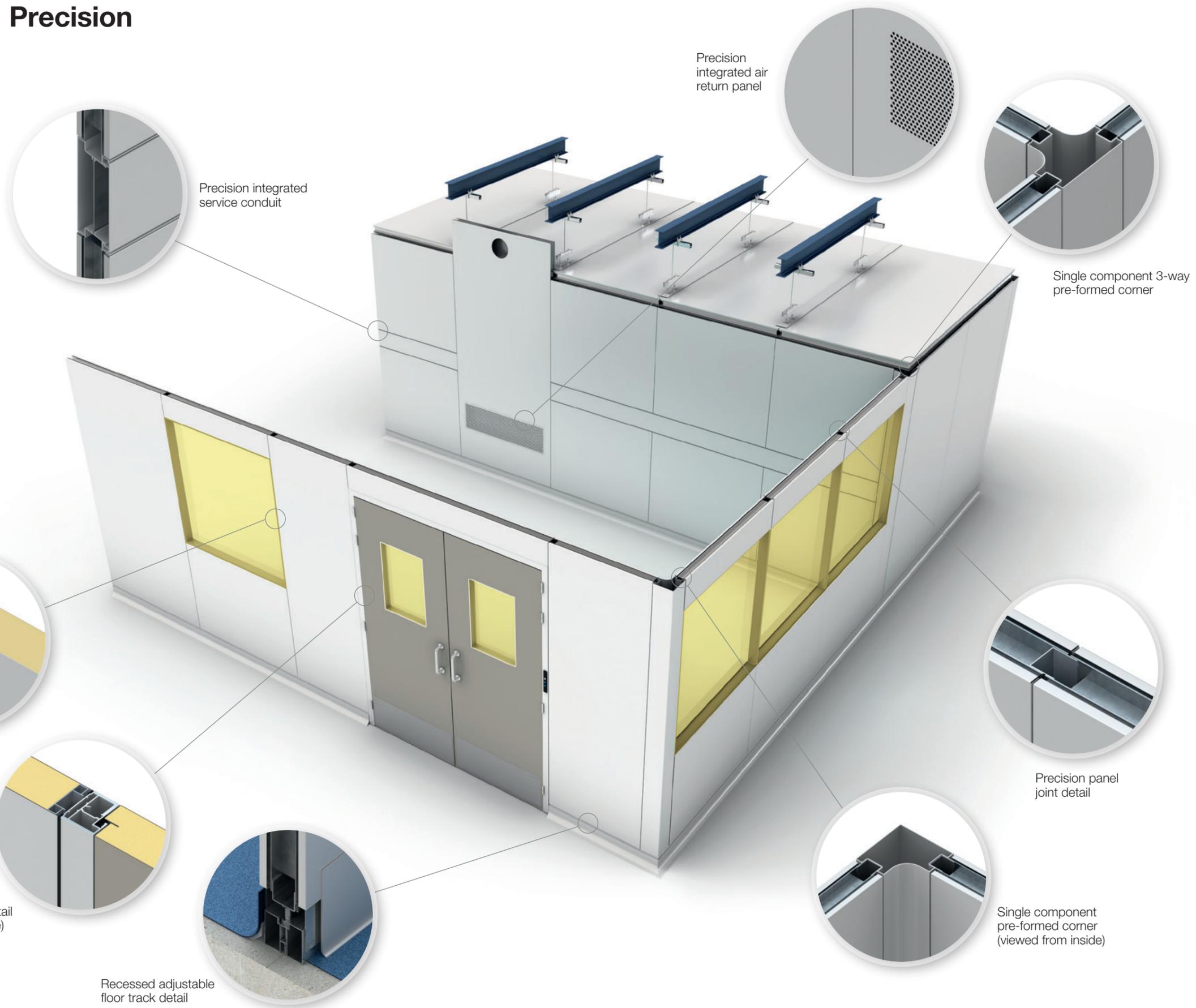
UltraTech Precision is a customisable, modular flush cleanroom system.

UltraTech Precision is a flush modular system that features a demountable joint with an aluminium extrusion to all sides.

UltraTech Precision is suitable for specialist cleanroom applications that demand specific core performance or compliance.

Why choose UltraTech Precision

- Choice of cores – ECOsafe PIR, MF core or Aluminium Honeycomb
- Wide range of CLEANsafe coating systems
- HYGIENEsafe anti-bacterial coating option
- Ultra airtight system
- 80mm thickness providing superior load bearing capacity and stability
- Flexibility – variable widths to suit layout
- Integrated envelope solution – doors, windows, corners, floor tracks and other components



With you all the way.

Our dedicated and experienced team can deliver a full service for a wide range of cleanroom applications.

With you from the outset, we will offer support on all necessary aspects of your cleanroom project, from conception and design, through installation, to completion and handover.



1 Concept Creation

We offer technical advice to make your cleanroom concept a reality, including design calculations, specification and Revit library.



2 3D Design and Quotation

Unlike other cleanroom manufacturers, we produce detailed 3D models at the quotation stage, providing you with simple, clear drawings that include product costs.



8 In-use

Our service continues on after the project is complete. With proven performance for a long and durable service life, backed by our Total System guarantee, you can rest assured you have chosen the ultimate cleanroom solution.



3 Customer Approval and Order Placement

Once project drawings and details are agreed and approved, we rapidly create your order, and submit it for production, keeping you updated on progress.

6 Construction

Our simple, modular solutions offer 'plug and play' integration to provide fast, efficient installation. Whether you choose a Kingspan certified installer or preferred contractor, our unrivalled technical support is on hand to assist the process.



4 Production

Our streamlined process, using state-of-the-art automated manufacturing equipment, combined with our highly skilled and experienced workforce, ensures consistently high quality and efficient production of your chosen solution.



7 Completion and Handover

On completion, we will give you all the relevant documentation at handover of your project, including comprehensive operation and maintenance manuals that will ensure you get the best from your cleanroom solution.



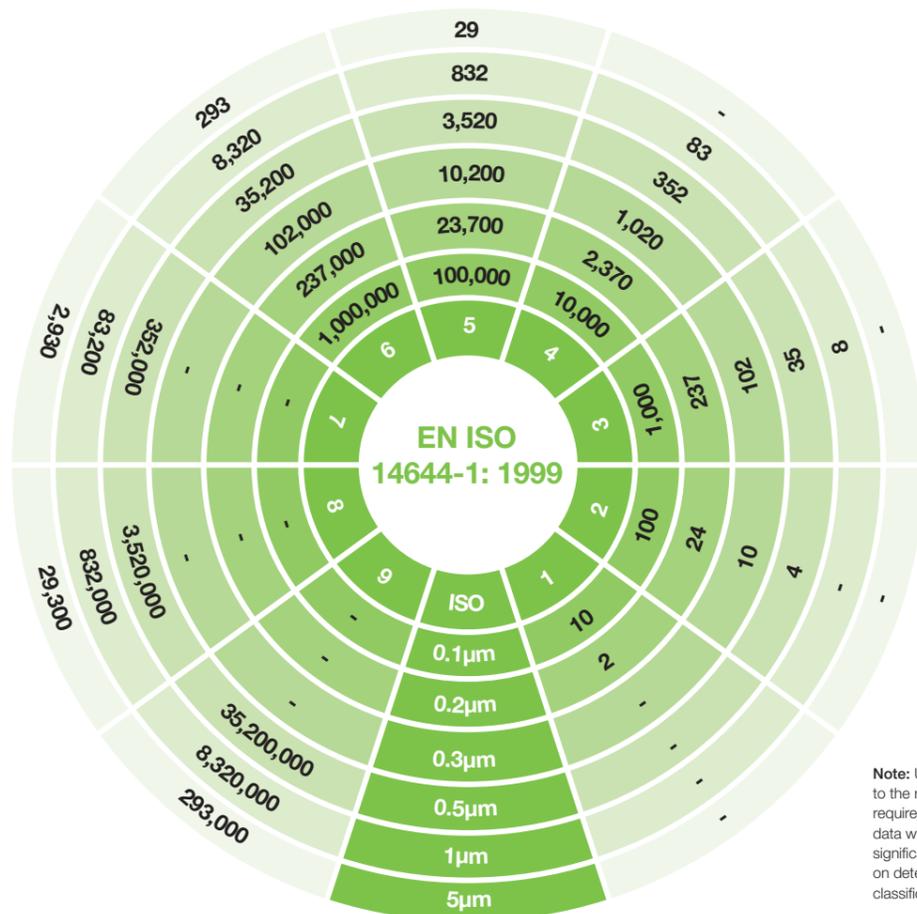
5 Delivery

We work with you to quickly provide a professional delivery plan to suit your project needs. Trailer-mounted forklifts provide fast, safe unloading and site storage.

The classification of air cleanliness is governed by the European Standard EN ISO 14644-1: 1999 - 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.



Maximum concentration limits (particles/m³ of air) for particles equal to and larger than the considered sizes shown above

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.



One of the most important considerations in an effective cleanroom environment is the quality and design of the cleanroom structure itself. Turn to Kingspan to give you the solution you need.



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

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





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