



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



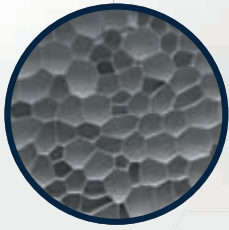
AgriTech

Unrivalled Thermal
Performance

Superior Fire
Protection

Enhanced
Environmental
Performance

40 Year Warranty for
Thermal & Structural
Performance



POWERED BY
QuadCore
TECHNOLOGY



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



Quadcore provides market leading performance in reaction to fire testing.



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.



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



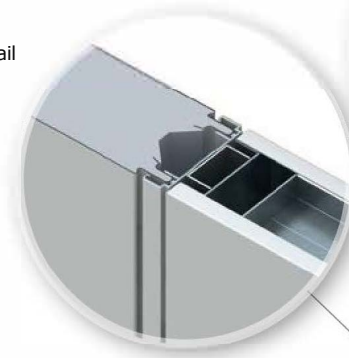
QuadCore® is manufactured in factories with 100% renewable energy including onsite-generated solar and wind energy.

UltraTech Versatile

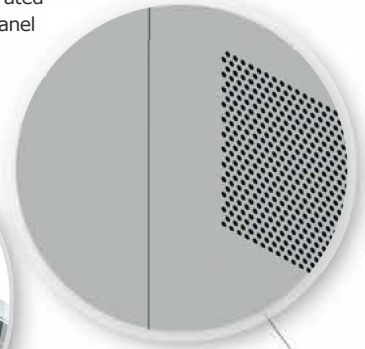
Why choose UltraTech Versatile?

- Unique fully flush hybrid system.
- Bespoke design flexibility combined with all the advantages of an insulated panel and its beneficial 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
- Longer panel lengths - cleanroom heights over 6 metres
- HYGIENE safe anti-bacterial coating option
- Ultra airtight system
- Wide range of CLEAN safe coating systems

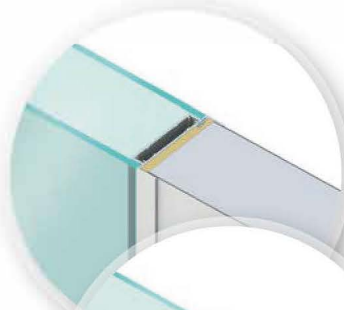
Versatile to Precision detail



Flush integrated air return panel



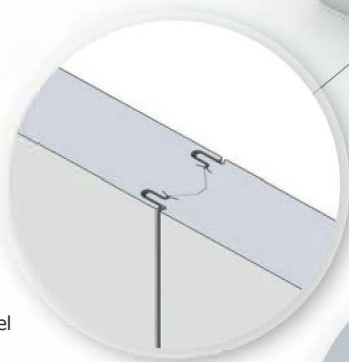
Semi-flush integrated window detail



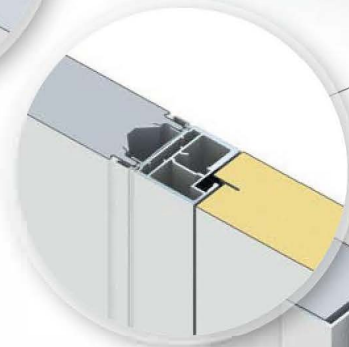
Flush integrated window detail



Versatile panel joint detail



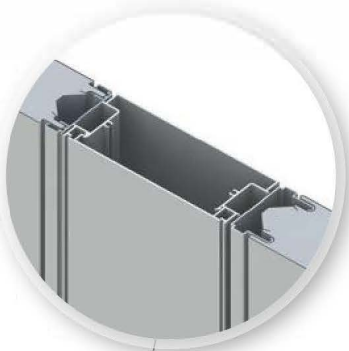
Flush integrated door detail (viewed from inside)



Semi-flush integrated door detail (viewed from inside)



Flush integrated service conduit



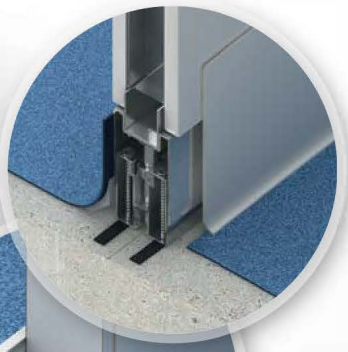
Single component 3-way pre-formed corner



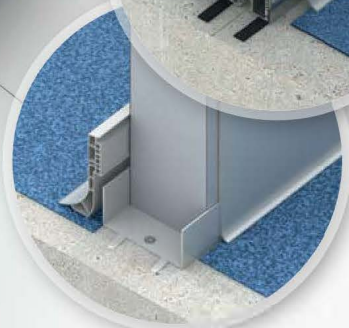
Site assembled 3-way corner detail



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)



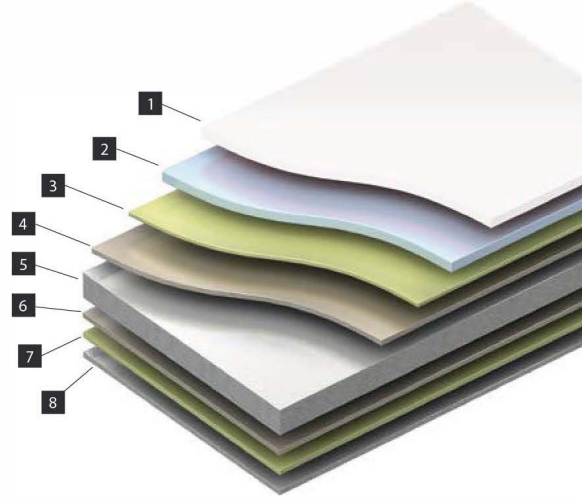
High Performance Coatings

Internal Applications

Kingspan CLEAN safe 25

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

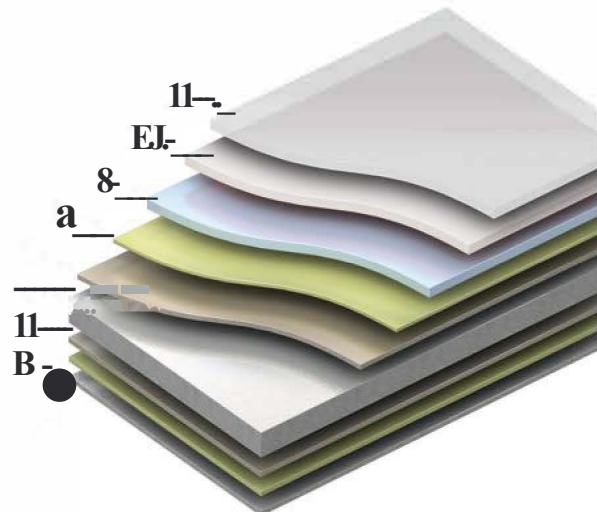
- II 25µm polyester top coat
- II Primer
- II Pre-treatment
- II Metallic protection
- II Metal substrate
- III Metallic protection
- II Pre-treatment
- E Backcoat



Kingspan CLEAN safe 55

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

- II 55µm PET film
- IJ Polyester
- II Primer
- II Pre-treatment
- II Metallic protection
- III Metal substrate
- II Metallic protection
- E Pre-treatment
- III Back coat

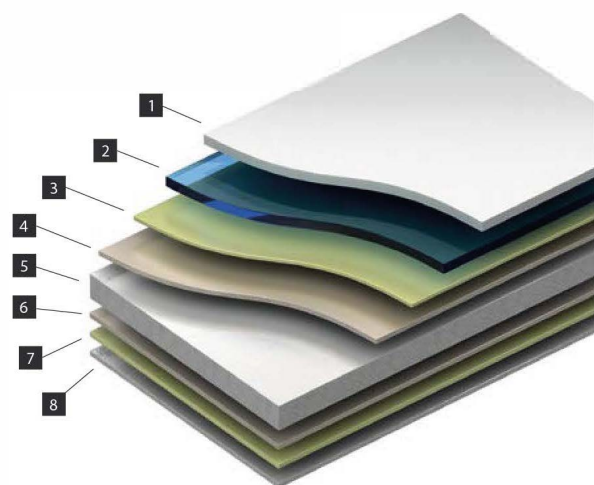


Kingspan CLEAN safe 120

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.

- II 120µm PVC film
- II Adhesive
- II Pre-treatment
- II Metallic protection
- II Metal substrate
- III Metallic protection
- II Pre-treatment
- E 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.

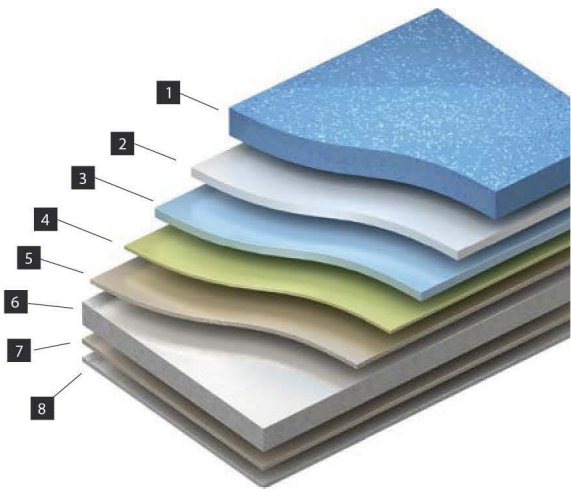


Kingspan HYGIENE safe 150

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.

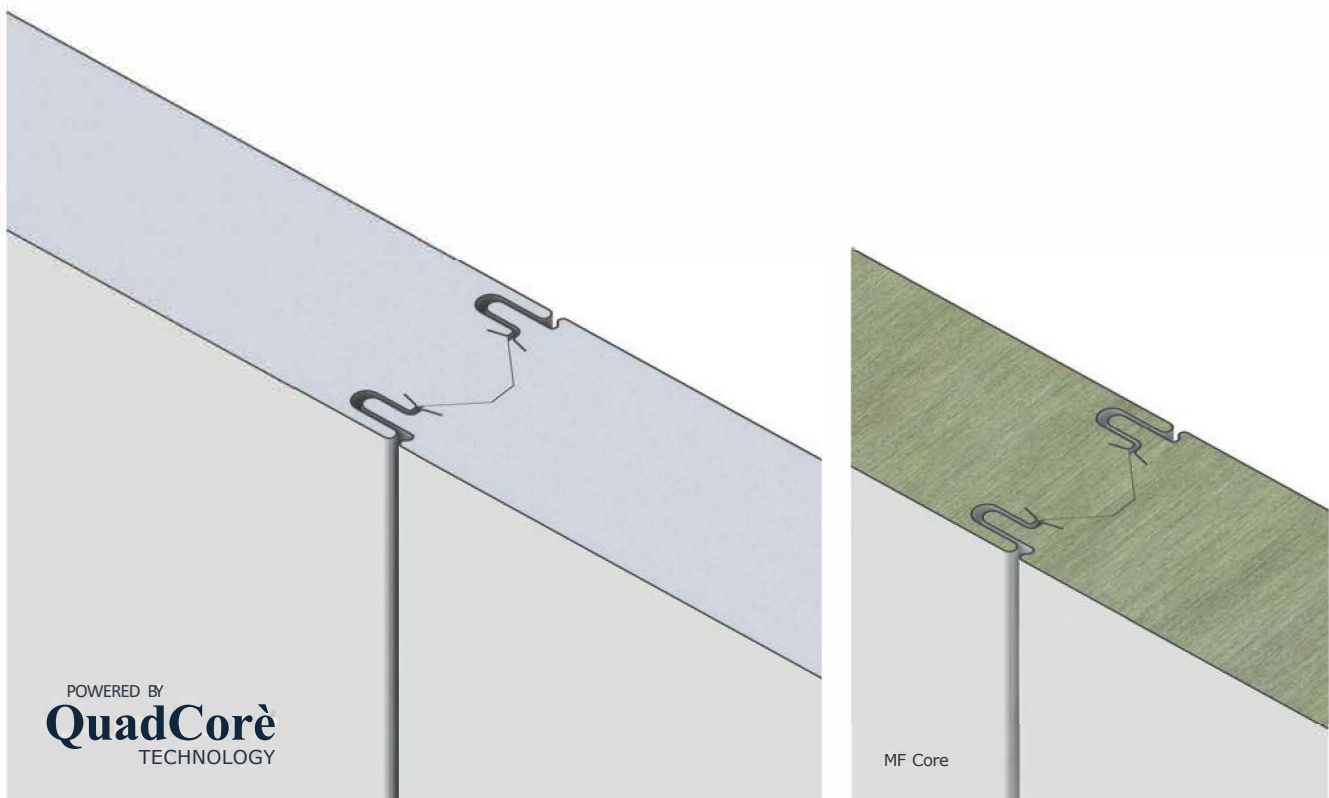
Joints between panels can be either caulked or chemically cold-welded.

- 11 150µm PVC film
- 11 Adhesive
- B Primer
- 11 Pre-treatment
- 11 Metallic protection
- 11 Metal substrate
- 11 Metallic protection
- 11 Back coat



System Selection

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 highest 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.

- Thickness: 50, 60, 80, 100, 125, 150, 175, 200 or 220mm.
- Panel length: up to 19,5m.
- Panel core: 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 technical information relates to QuadCore™ - only, please refer to our datasheet for mineral fibre technical information.

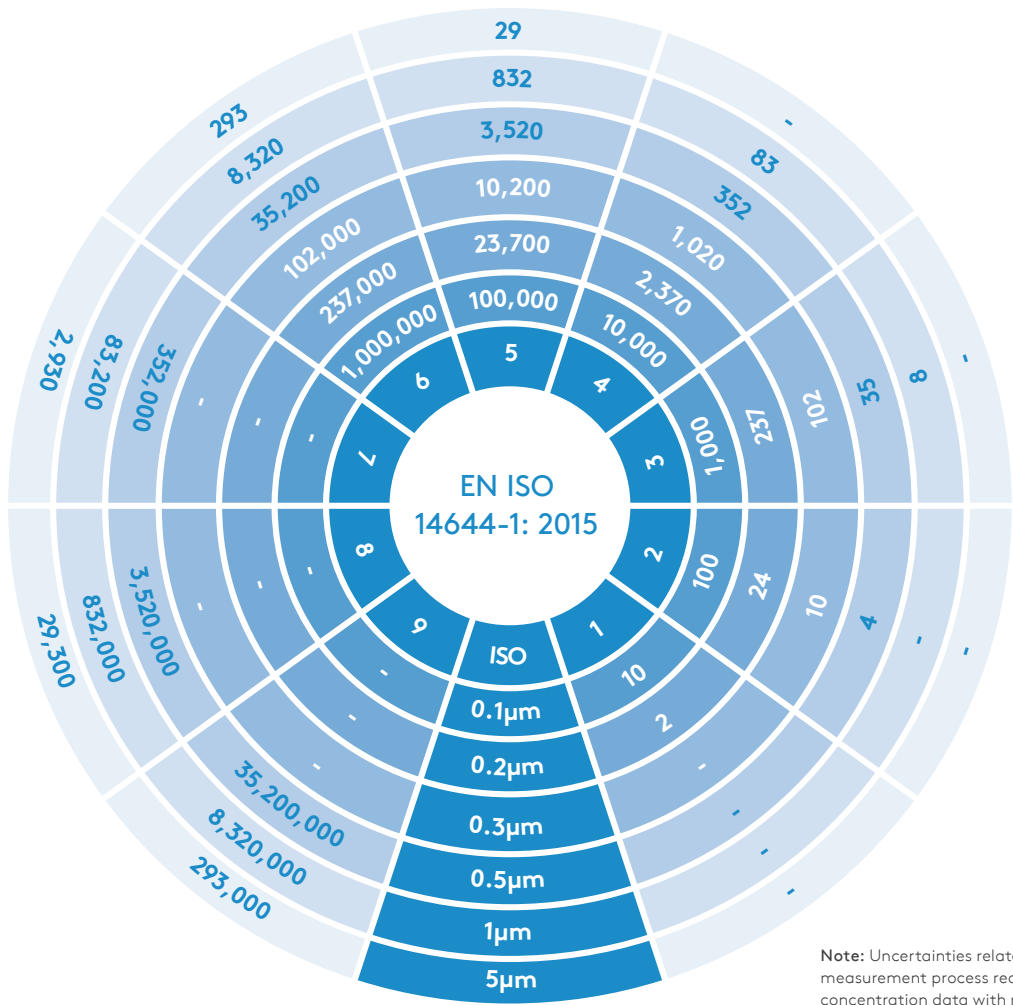
Cleanroom Systems

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/m³ 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 for a 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 flexibility and high performance combined with unparalleled cost-efficiency.



Contact Details



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