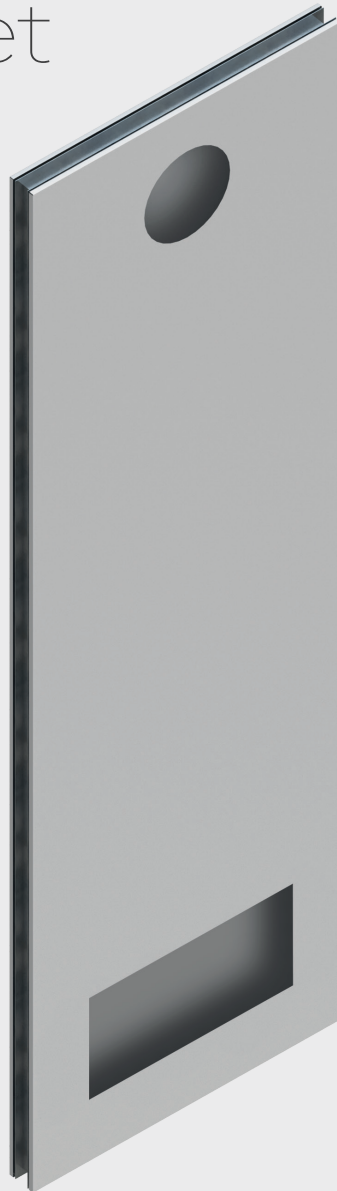


**Insulated Panels**

UK & Ireland

# UltraTech Air Return Panel Product Data Sheet

Kingspan Cleanroom Systems



# Product Data

## Application

UltraTech Air Return Panels are designed to provide return air risers within the cleanroom wall panel thickness. The UltraTech Air Return Panels are easily integrated with the UltraTech Precision partition wall system. Each panel is pre-fabricated, consisting of two reinforced skins pressed to create a monobloc panel construction with smooth seamless edges. Bonded to the extruded aluminium perimeter frame to all sides. UltraTech Air Return Panels are supplied with factory-formed low level air return grilles and high level outlets eliminating both cutting and dust generation during on-site installation.

UltraTech Air Return Panels have been specifically designed for use with cleanroom environments where the air cleanliness is stringently controlled and HEPA filtered to meet the required classification in accordance with either the ISO 14644-1 or the cGMP standards.

## Available Lengths

1,500 - 4,500 mm.

## Dimensions and Weight

Core Thickness	60, 80 mm
Width	900 mm*

\*Other widths available on request

## Environmental

Kingspan insulated panels produced in the UK and Ireland are certified to BES 6001 (Framework Standard for the Responsible Sourcing of Construction Products) 'Good'.

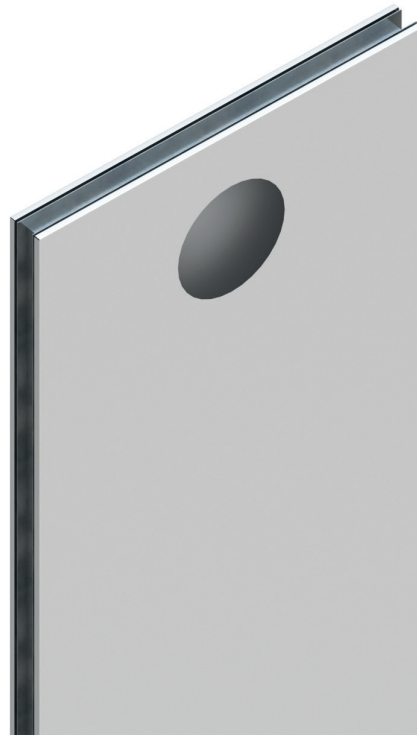
In addition, facilities located in Kingscourt, Holywell and Sherburn generate renewable energy onsite which contributes to that sites energy mix. Recycled content calculations are available via technical services.

## Air Leakage/Tightness

The joint of the UltraTech Air Return Panel can achieve air tightness of less than  $0.003 \text{ m}^3 / \text{hr/m}^2$  at 50Pa in accordance with BS EN 14509 (BE EN 12114). For further information on air tightness please contact Kingspan Tech-eXchange.

## Water Tightness

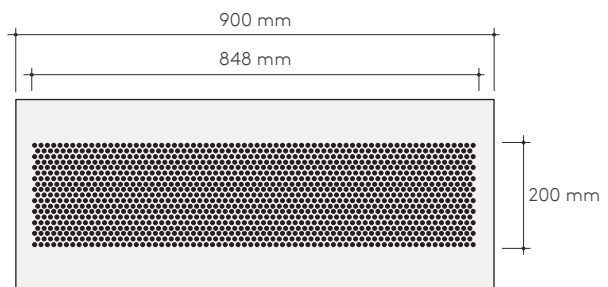
The joint of the UltraTech Air Return Panel can achieve water tightness to 1200Pa (Class A) in accordance with BS EN 14509 (BS EN 12865). For further information on air tightness please contact Kingspan Tech-eXchange.



## Options

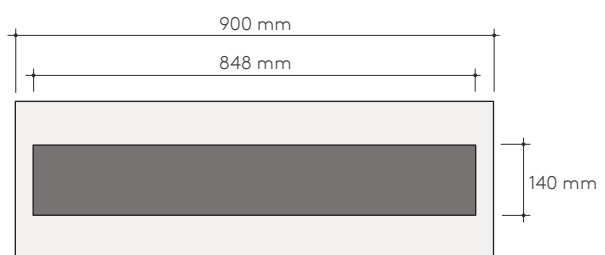
UltraTech Air Return Panels can be designed with numerous options for internal low level outlet. This can be a perforated section, clear cut opening for grill/filter or a removable panel face connected magnetically with a perforated face.

### Option for Removable Perforated Panel



Perforation example: 250mm Removable panel connect with four magnets with 200mm x 848mm area with holes of  $\varnothing 8\text{mm}$  with perforation of 40% (1321 holes of  $08\text{mm} - 66,400\text{mm}^2$ )

### Panel Cut-out suitable for filter/Grill by others



Cut outs available on request

# Product Data

## Materials

### Substrate

Metallic protected steel to BS EN 10346: 2015. Please contact Kingspan Tech-eXchange for information on other substrates.

### STERIS Products

Kingspan CLEANsafe 55 and CLEANsafe 120 panel coatings have been tested by STERIS Corporation Life Sciences for compatibility.

A range of STERIS cleaning agents commonly used in the Pharmaceutical industry were selected and no adverse reactions with the Kingspan panel coating were reported. The range of cleaning agents used in the tests were:

- Environ™ LpH™ Phenolic disinfectant
- Environ™ Vesphene™ disinfectant
- Septihol® Sterile Alcohol Solution
- Spor-Klenz® RTU cold Sterilant
- Vesta-Syde® SQ Quaternary disinfectant

Please contact Kingspan Tech-eXchange for further details including compatibility with H<sub>2</sub>O<sub>2</sub> and other chemicals.

**Note:** All trademarks are the property of STERIS.

### Coatings

#### Kingspan CLEANsafe 15

A chemically inert polyester (PE) coating, applied to pre-treated metal, suitable for nonaggressive internal environments.

#### Kingspan CLEANsafe 25

A chemically inert polyester (PE) coating, applied to pre-treated metal, suitable for moderately aggressive internal environments.

#### Kingspan CLEANsafe 55

A chemically inert co-laminated polyethylene terephthalate (PET) film and polyester (PE) paint, applied to pre-treated metal, suitable for humid and chemically aggressive internal environments.

#### Kingspan CLEANsafe 120

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.

#### Kingspan CLEANsafe Anti-Static 25

A chemically inert polyester (PE) coating with a surface resistivity of 1 to 300 x 10<sup>6</sup>Ω/square, applied to pre-treated metal, suitable for moderately aggressive internal environments.

## Colour Range

RAL 9010\*, RAL 9002\* and RAL 9003 (CLEANsafe 120).

\* Nearest match, samples and other colours available on request."

## Product Tolerances

Length	± 1.5 mm
Width	± 1.5 mm
Thickness	± 2 mm
Flatness (per m)	± 1 mm
End Squareness	± 2 mm

## Quality & Durability

UltraTech Air Return Panels are manufactured from the highest quality materials using state-of-the-art production equipment to rigorous quality control standards, complying with BS EN ISO 9001 standard, ensuring long-term reliability and service life. The panels are also being manufactured under Environmental Management System Certification BS EN ISO 14001, Energy Management System Certification BS EN ISO 50001, Occupational Health and Safety Certification BS EN ISO 45001 and Compliance Management Systems BS EN ISO 37301.

## Packing

UltraTech Air Return Panels are stacked horizontally with facing sheets upward. The entire pack is wrapped in polythene. The number of panels in each pack depends on panel length. Typical pack height is 1200 mm, maximum pack weight is 1500 kg.

Core Thickness (mm)	60	80
Panels per Pack	20	16

**Note:** Applies to UK pack sizes. Please contact Kingspan Tech-eXchange for export information.

## Delivery

All deliveries (unless indicated otherwise) are by road transport to project site. Off-loading is the responsibility of the client.

## Sea Freight

Fully timber crated packs are available on projects requiring delivery by sea freight shipping, at additional costs. Alternatively, steel containers can be used. Special loading charges apply.

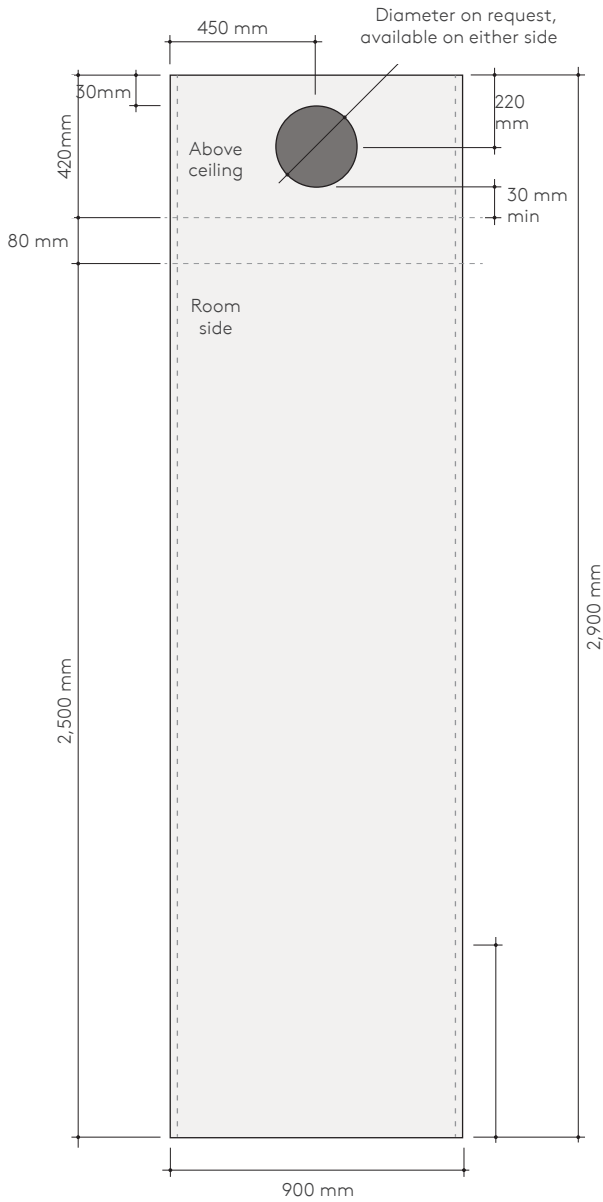
## Site Installation Procedure

Site assembly instructions and construction details are available from Kingspan Tech-eXchange.

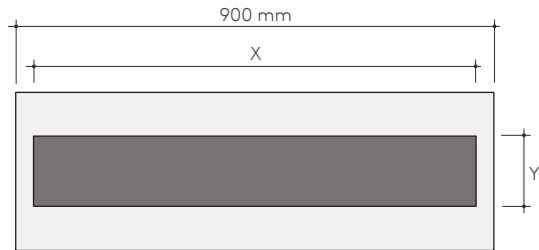
# Product Data

The UltraTech Air Return Panel is installed as a standard UltraTech Precision wall panel. As detailed below.

## Typical Technical Specification

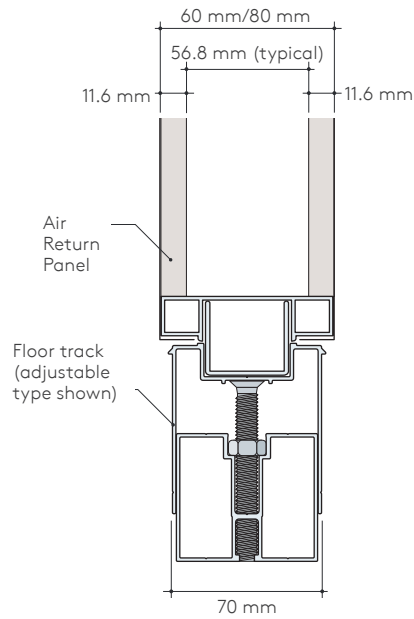


## Panel Cut-out for Site-fitted Louvred Grille

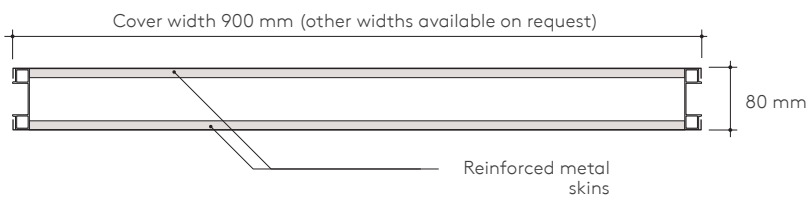


Cut-outs available to your required dimensions X and Y.  
Perforation also available as an option.

## Panel to Floor Track Detail



## Air Panel Section



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# Contact Details

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For the product offering in other markets please contact your local sales representative or visit [www.kingspanpanels.com](http://www.kingspanpanels.com)

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