Puracore®
High Specification Cleanroom Systems

An Introduction to Puracore Cleanrooms

Over 65 years of specialist panel manufacture have culminated in the development of the Puracore cleanroom range to provide quality, flexible, cleanroom construction solutions that are used by the leading companies in the industry.

Across EN ISO 14644: ISO 1 to 9, all industry applications, cost effective PIR to high specification aluminium honeycomb and stainless steel solutions, Puracore can deliver precision made components to facilitate efficient construction with a finish that is second to none. Our ethos - Quality materials, precision design and first class service makes Puracore the obvious choice for all of your cleanroom panel requirements.

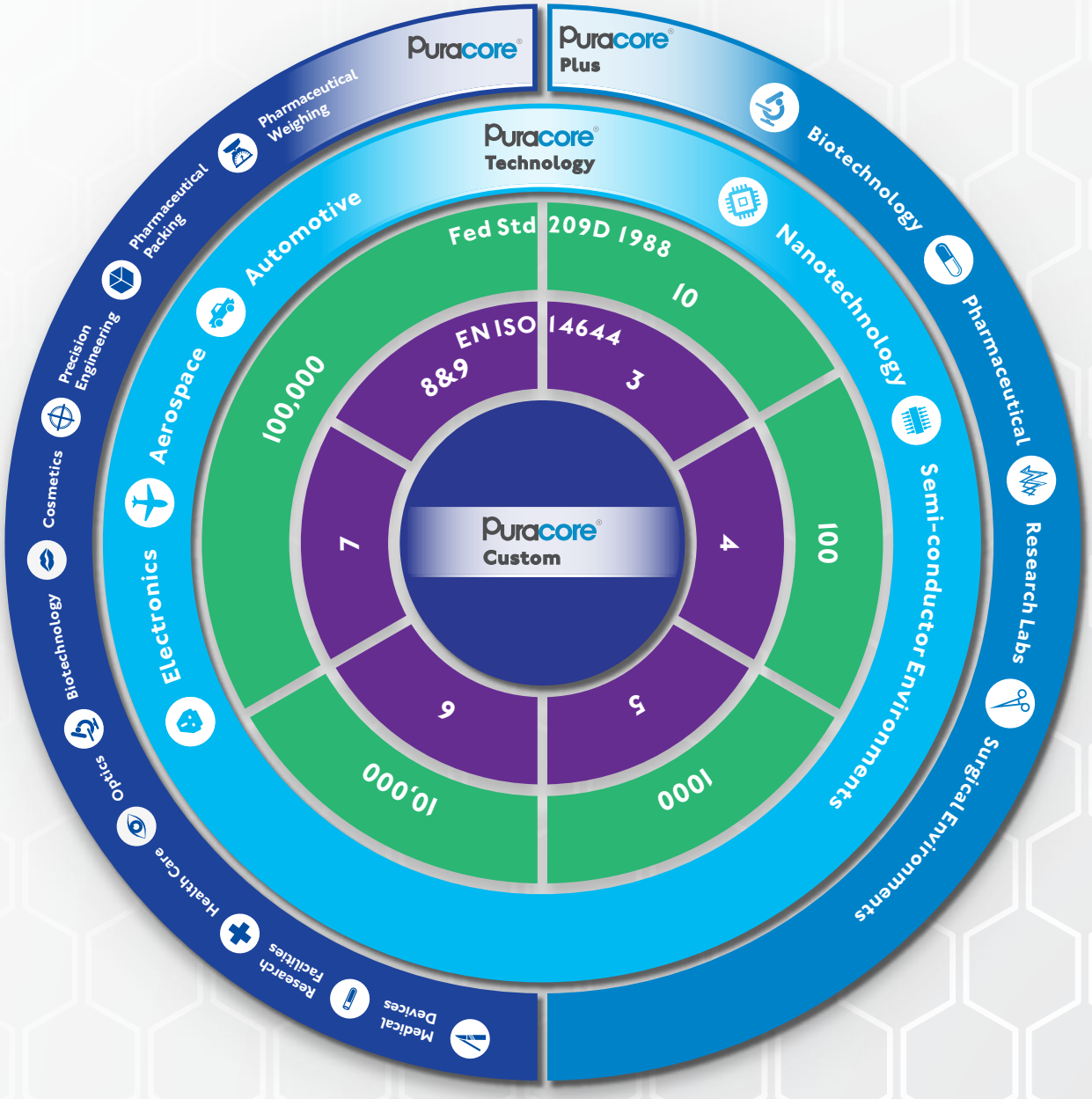
Our pre-designed range solutions defined by cleanroom classifications and applications, make matching our products to your project simplicity itself. For ultimate flexibility, or more complex projects, you can customise your cleanroom solution by choosing any, or all of your own individual components from our Puracore Custom range. We have outlined how our Puracore ranges meet the cleanroom classifications, as well as application when supported with good cleanroom management, including airflow and clean-down procedures throughout the brochure.

Key Features

All panels within the Puracore range are manufactured using top quality materials, precision engineered to ensure flush joints, and the highest quality finish required for cleanroom environments in an ISO 9001:2008 accredited manufacturing facility. Panels are available in a variety of sizes, finishes and cores to provide maximum flexibility, and the specialist Puracore team can assist with any technical support needed.

There are many options within the Puracore range, including flush-finish windows, doors, integrated service panels and electrical outlets, concealed suspended ceilings, and many more that can be selected to complement individual cleanrooms. Further details of all of these options and the components of each of the ranges can be found at the back of this brochure.

All ranges are built in a progressive manner, with each element carefully designed to make construction simple whilst providing a robust structure that will provide longevity of application.



Puracore®

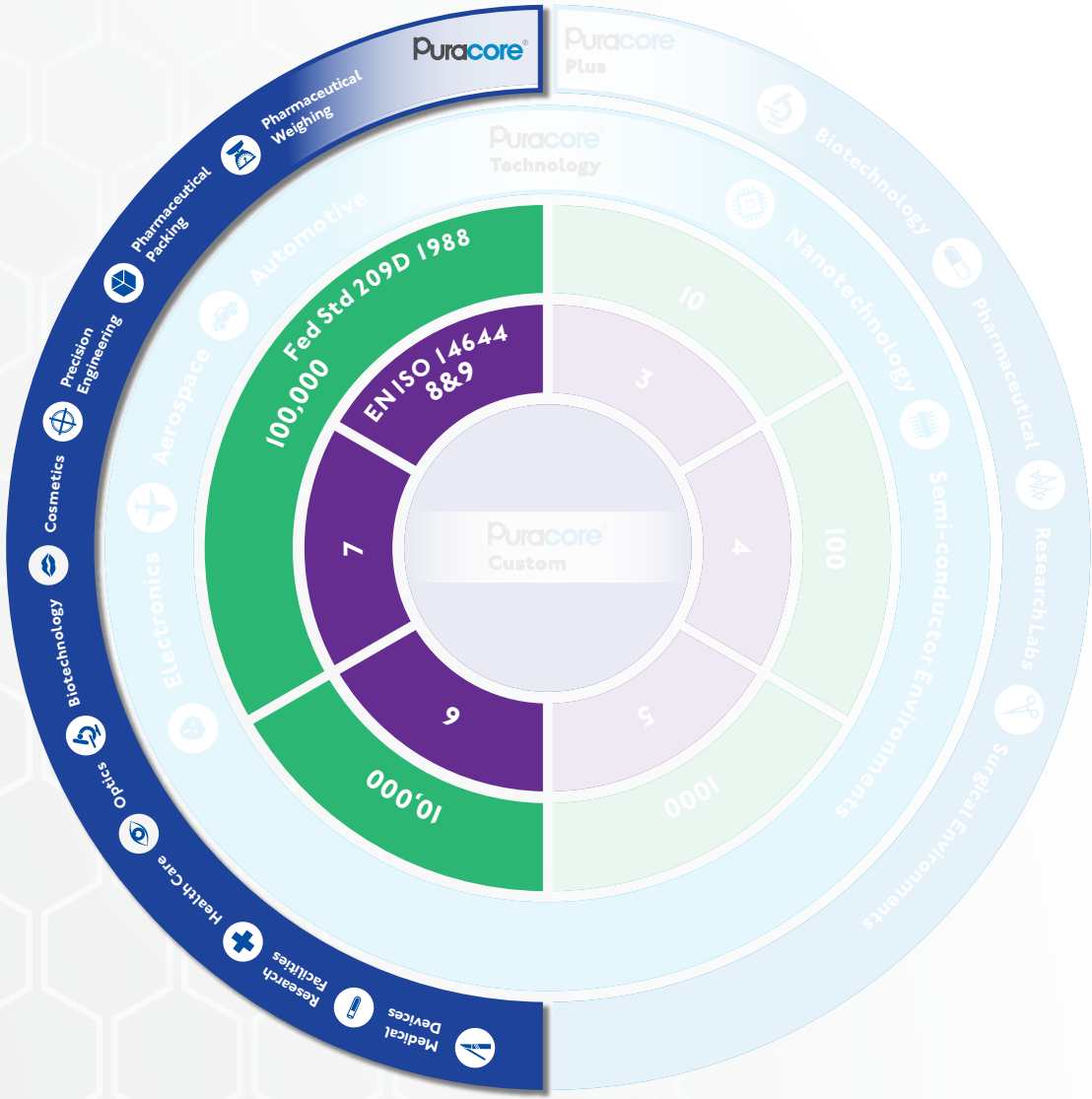
Quality, Cost Effective Cleanroom Solutions

The Puracore range has been designed and manufactured to provide a semi-flush environment that is easy to clean and maintain, and meets the requirements of EN ISO 14644: ISO 6 and above.

Standard panels have an aluminium frame and can be supplied with a PIR, honeycomb or mineral fibre core. There are also a number of panel finishes available to suit aesthetics and application, please see information opposite for details.

Joints between panels are flush and do not require any trim. They are secured with a specially engineered design, incorporating a tongue fitted into channels to secure the panels, and this joint can then be sealed on site to optimise the ISO performance.

Windows and doors are semi-flush, minimising surfaces for dust contamination and ceilings can be of a top hat or grid construction, walk on if required, and as with all aspects of the Puracore ranges, these components can be interchanged if required.



Key Features

- Semi-flush environment
- Channel base
- Flush tight-fitting wall joints
- 50mm honeycomb panels available with 2, 3 or 4 sided frames
- Lining panels available for cladding existing structural walls
- Semi-flush doors and windows
- Grid or top hat design ceiling
- Angled ceiling joints
- Corner coving
- Readily interfaced with typical cleanroom services e.g. breakout panels and transfer hatches

Panel Finish Options

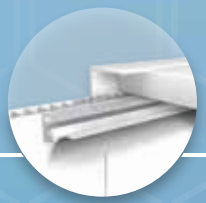
Finishes applied to a galvanised steel substrate:

- Anti-microbial UPVC
- Polyester
- Primer

The features across the Puracore range are interchangeable, therefore if alternative features are required, they can be selected from the full range of components in Puracore Custom, details of which can be found at the back of this brochure.

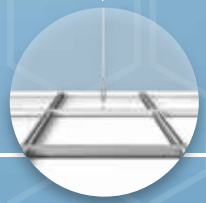
Ceiling Options

Semi-flush window



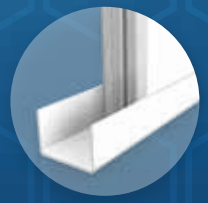
Ceiling coving

Top hat ceiling system



Grid ceiling

Wall Panel Options



Panel channel base

PIR panels and joint

Honeycomb panels and joint

Corner coving

Semi-flush door

Puracore® Plus

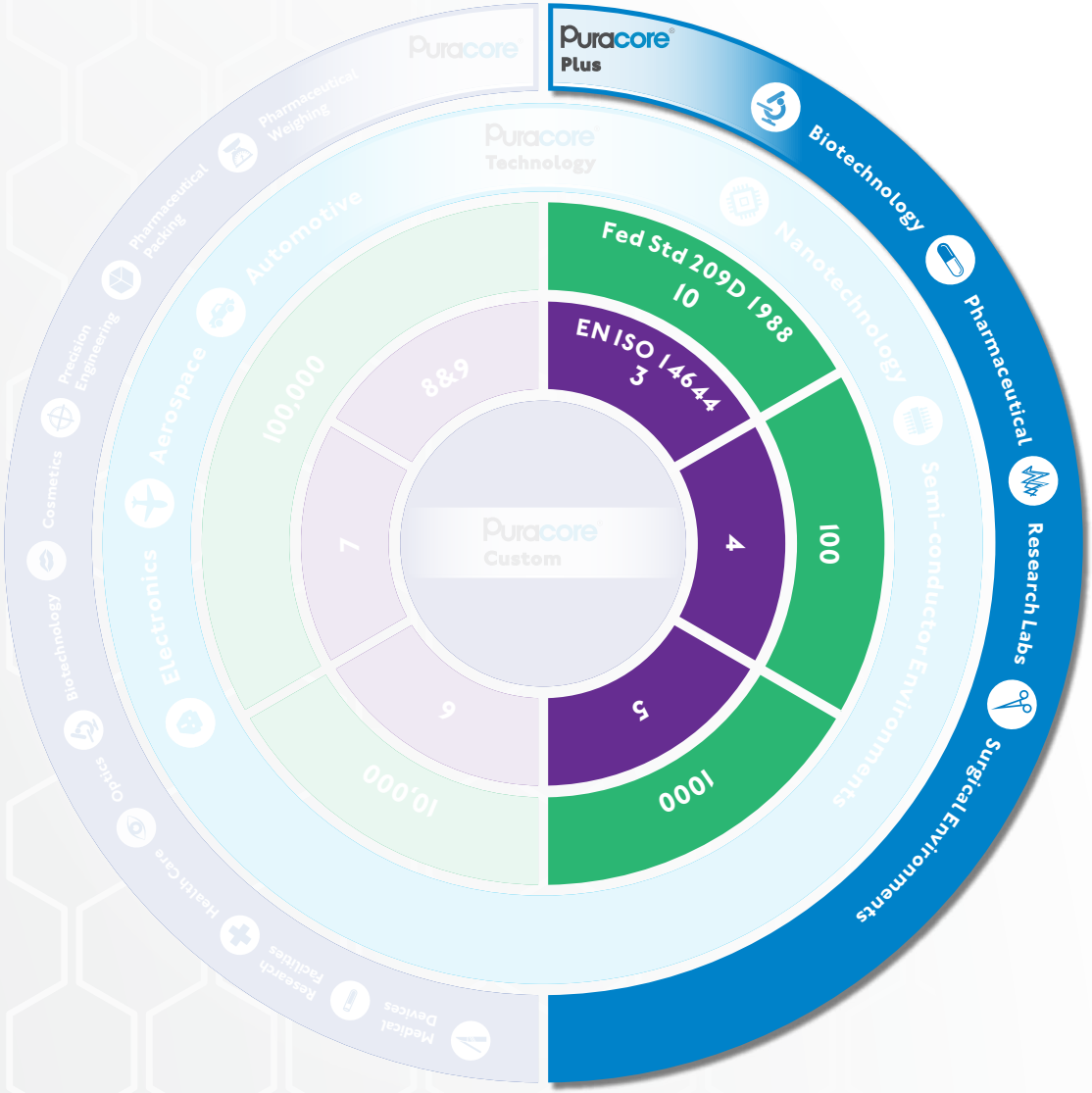
High Specification Cleanroom Solutions

The Puracore Plus range has been designed and manufactured to meet the more stringent requirements of EN ISO 14644: ISO 3 and above, providing a fully flush, sealed environment. Where EN ISO 14644: ISO 1 & 2 levels of performance are required, Puracore Plus can be used, however the use of additional features e.g. laminar air flow management with a raised perforated floor then become more important.

Standard panels have an aluminium frame with aluminium honeycomb core providing high tensile strength, and excellent clean properties. Panel finish can be selected from a number of options to best suit aesthetics and application, please see information opposite for details.

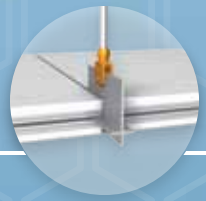
Panels are mounted onto an adjustable recessed base channel to allow a flush join between a floor curved into the base of the wall, and the wall panels above. Joints between panels are flush and do not require any trim, they are secured with a specially designed joint incorporating a tongue fitted into channels to secure the panels, which can then be Stelmax® sealed to provide a fully sealed joint.

Windows, doors and ceilings also offer fully flush and sealed joints and coving can be used throughout the construction to minimise 90° angles within the construction. The option of loadbearing ceilings are also available where required.



Flush window

Ceiling coving



Concealed ceiling suspension

Key Features

- Flush, sealed environment
- Recessed base suitable for use with standard 2mm and 4mm vinyl flooring
- Flush fitted, fully sealed wall joints
- 50mm aluminium honeycomb panels available with 2, 3 or 4 sided frames
- Lining panels available for cladding existing structural walls
- Flush fitted doors and windows
- Concealed ceiling system enabling a flush, sealed ceiling
- Coving that eliminates all 90° angles
- Readily interfaced with typical cleanroom services e.g. raised perforated floors, breakout panels and transfer hatches

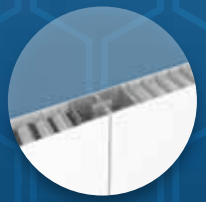
Panel Finish Options

- Anti-microbial UPVC*
- Polyester*
- Primer*
- White food safe laminate*
- Anti-static white food safe laminate*
- Stainless steel
- Aluminium powder coat

*On galvanised steel substrate

The features across the Puracore range are interchangeable, therefore if alternative features are required, they can be selected from the full range of components in Puracore Custom, details of which can be found at the back of this brochure.

Recessed base



Wall panel joint

Pre-formed corners

Pre-formed corner flooring interface

Flush finish door

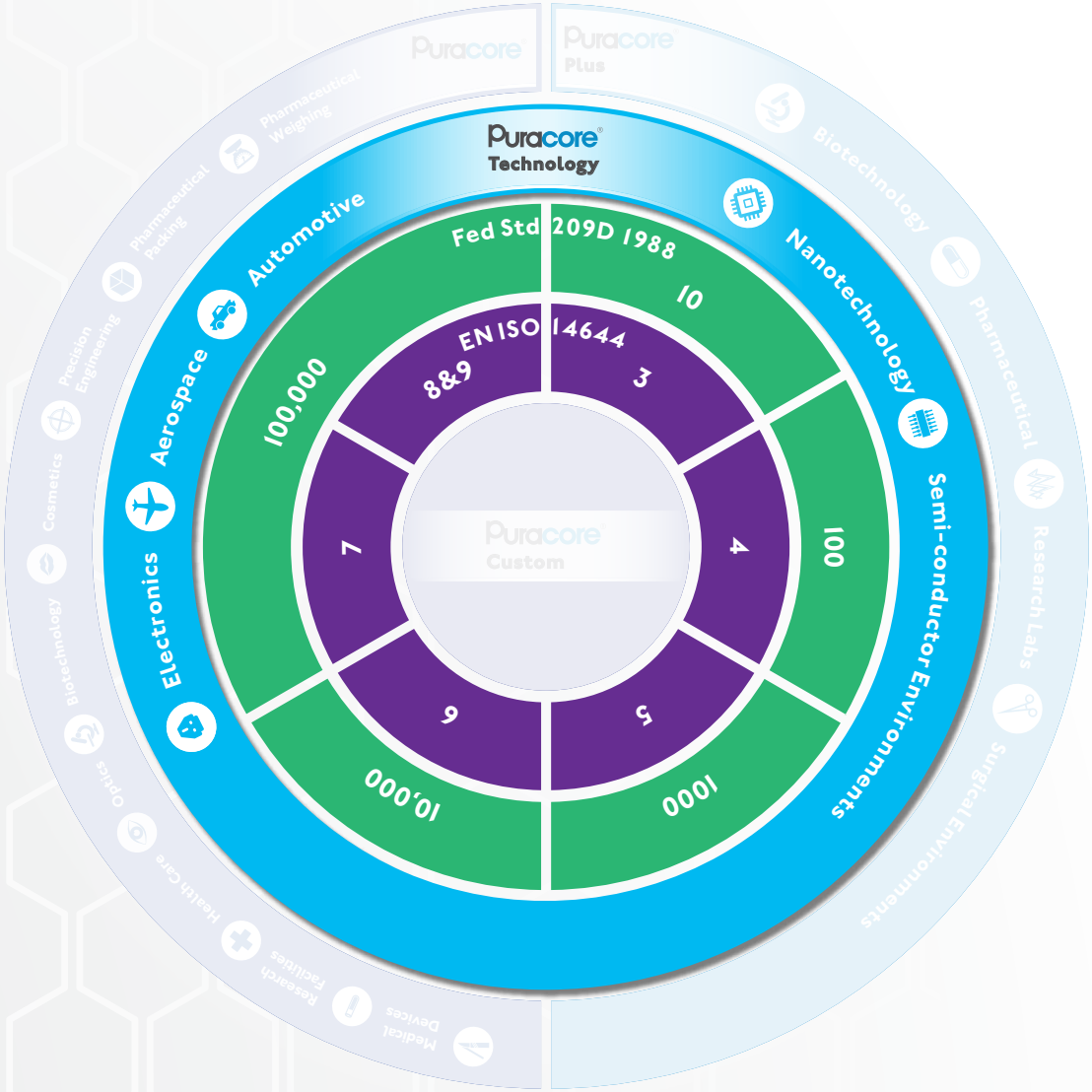
Puracore® Technology

Anti-Static Cleanroom Solutions for the Technology Industries

The Puracore Technology range is designed and manufactured specifically to meet the requirements of the technology industries where anti-static / electro dissipative or inert properties of construction materials are also essential components of the cleanroom environment. The Puracore Technology range can be used to meet the requirements of EN ISO 14644: ISO 3-9, in conjunction with the appropriate airflow management, sealants and appropriate cleanroom environment management.

Puracore Technology panels come with a choice of anti-static finish, and have a rubber gasket joint between each panel providing a seal eliminating the need for silicone seals between panels, and providing a flush joint that does not require trim. As standard, the panels have an aluminium frame and honeycomb core, however other cores are available on request to best suit the application.

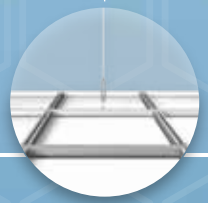
Windows and doors are semi-flush, but where a fully flush environment is required, an anti-static white food safe laminate finish can be applied to the Puracore Plus range. Ceilings can be either a top hat concealed suspension or grid design, with walk on options available.



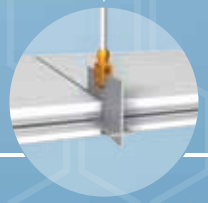
Ceiling Options

Internal ceiling flashing

Top hat ceiling system



Grid ceiling



Concealed ceiling suspension

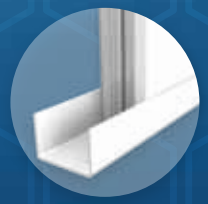
Key Features

- Semi-flush environment (if a fully flush environment is required, please refer to Puracore Plus)
- Channel base
- Flush fitted wall joints sealed with rubber gaskets
- 40mm aluminium honeycomb panels available with 2, 3 or 4 sided frames
- Lining panels available for cladding existing walls
- Semi-flush doors and windows
- Grid, concealed suspension or top hat ceiling design
- Ceiling flashing
- Corner flashing
- Compatible with raised perforated floors, breakout panels and transfer hatches

Panel Finish Options

- Anti-static white food safe laminate
- Aluminium powder coat

The features across the Puracore range are interchangeable, therefore if alternative features are required, they can be selected from the full range of components in Puracore Custom, details of which can be found at the back of this brochure.



Panel channel base

Rubberised gasket wall panel joint

Corner flashing

Semi-flush door

Semi-flush window

Puracore® Custom

Flexible Custom Cleanroom Solutions

The flexibility of the Puracore range means that if the ranges do not meet individual requirements, components can be selected to form a customised Puracore solution, just select from the options below.

Panels are available with anti-microbial UPVC, polyester, primer, white food safe laminate (anti-static), aluminium powder coat and stainless steel finishes.

Component	Options	Puracore	Puracore Plus	Puracore Technology	Puracore Custom
Base	Channel	●		●	●
	Recess		●		●
Panel Core	PIR	●			●
	Aluminium honeycomb		●	●	●
	Standard honeycomb	●		●	●
	Mineral fibre	●		●	●
Panel Joints	Flush tight sealed	●	●		●
	Flush spaced sealed	●	●		●
	Flush rubber gasket			●	●
Corners	Corner flashing	●		●	●
	Preformed corners		●		●
Windows	Semi-flush	●		●	●
	Flush		●		●
Door(s)	Semi-flush single/double	●	●	●	●
	Flush single/double	●	●		●
Ceiling	Top hat	●		●	●
	Grid	●		●	●
	Concealed fixing		●	●	●
Trims	Flashing	●	●	●	●
	PVC coving	●		●	●
	Aluminium coving		●	●	●

Please do not hesitate to contact us if you require any components that are not listed.

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