

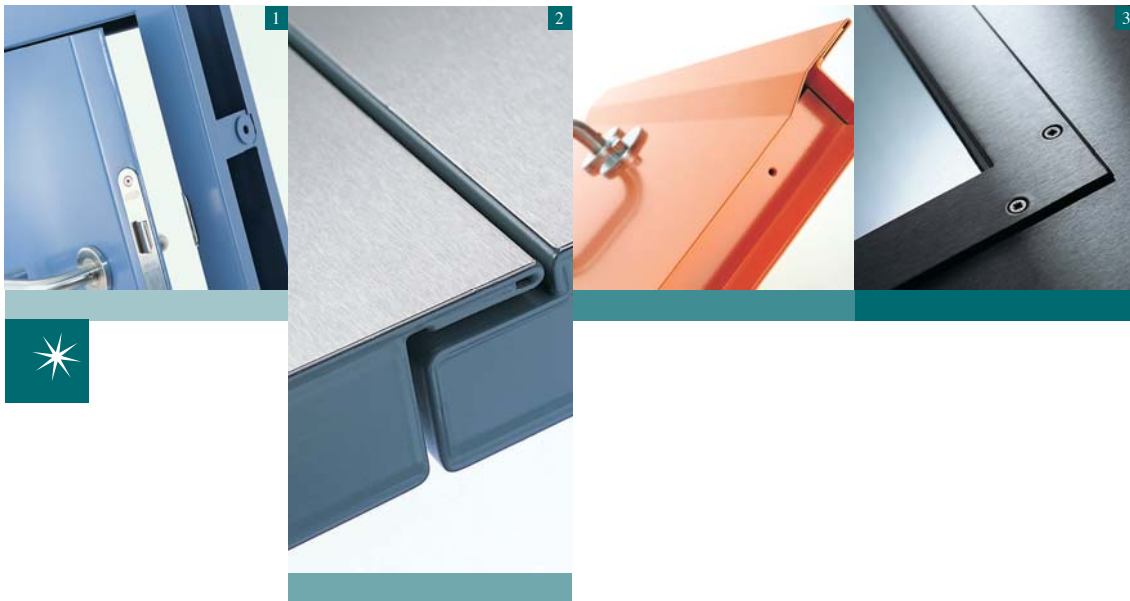


Setting Standards.  
Powershield **Cleanroom Doors.**

**Powershield**

**ASSA ABLOY**

ASSA ABLOY, the global leader  
in door opening solutions



We are continually raising the design, production and installation standards of our steel doors and steel glazing systems to new levels.

Powershield is a market leader in the manufacture of bespoke steel door and window products for customers in the commercial, industrial and public sectors. Issues such as fire, security, personnel access and manufacturing processes are just some of the factors that influence the specification of our doors and windows, and we have developed a proven range of high performance solutions for these and many other applications.

Powershield is widely regarded as the leading supplier of cleanroom doors to the pharmaceutical and micro-electronics industries. Through continuous development of our design and manufacturing techniques, **Powershield Cleanroom Doors** provide superior quality to meet the stringent requirements of cleanrooms, in accordance with ISO14644 cGMP standards. The smooth flush edges on Powershield door leaves, and the seamless mitred and welded corners on our frames, satisfy the requirements of high-tech laboratories, research facilities, hospitals and food processing plants.

Our doors have been used on many prestigious projects throughout the world and by numerous high profile clients, including:

- Pfizer Pharmaceuticals
- Glaxo Smithkline
- Merck Sharpe & Dohme
- Johnson & Johnson
- Coca-Cola
- Seagate Technology
- IBM
- Hewlett Packard

Powershield is committed to maintaining high quality throughout its production processes and to providing exemplary levels of customer service.



### Product Information

- 1** A Seamless Finish  
**Powershield Cleanroom Doors** are manufactured from high quality steel. Seamless finishes are applied to all leaf edges to ensure that surfaces can be easily cleaned and that there are no areas where dirt may collect or bacteria can grow.
- 2** Integral Astragal  
Overlapping astragals are required on Cleanroom double leaf doors when fire resistance is necessary or when air pressure differentials between rooms need to be regulated. **Powershield Cleanroom Doors** feature a unique, fully-integrated astragal, ensuring no seams or fixings on the face of the door leaf.
- 3** Vision Panels  
**Powershield Cleanroom Doors** feature a wide range of cGMP compliant vision panels. Options include 45° vision kits for single glazing or flush glazing to one or both sides. Vision panels can be supplied with no visible fixings to ensure an easy wipe-clean surface.
- 4** Flush Cover Cap  
**Powershield Cleanroom Doors** can be finished with a flush cover cap at fixing positions for a smooth easy wipe-clean surface on frames.
- 5** Fully Welded Frame  
**Powershield Cleanroom Door** frames are supplied with a mitred, fully welded and ground-smooth connection between jambs and head.

# Technical specification of Powershield **Cleanroom doors.**

## Material Types

1.2mm - 2mm Galvatite ZF 'Galvanneal' to EN 10142:2000  
1.2mm - 4mm Stainless Steel Grade 304 (1.4301) to EN 58E  
1.2mm - 4mm Stainless Steel Grade 316 (1.4401) to EN 58H

## Finishes

Epoxy Powder Primed Finish  
Polyester Powder Coated Finish  
Satin Polish 180-240 grit (Stainless Steel Only)  
'Rimex' Patterned Finish (Stainless Steel Only)

## Frame Options

Single Rebate  
Double Rebate  
2-Part Wrap Around  
Hospital Stop (Double Rebate Profile Only)

## Vision Panel Options

Type 1 - Single Glazed  
Type 2 - Double Glazed  
Type 3a - Double Glazed (with concealed fixings)  
Type 3b - Double Glazed Mastic-Sealed

## Other Performance Criteria available

 Fire (To BS 476 Part 22; 1987 or BS EN 1634-1; 2000)

 Security (Classification 1-4)

 Blast (5-50KN/m2)

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## Head Office

21 Ferguson Drive  
Knockmore Hill Industrial Park  
Lisburn BT28 2EX  
Northern Ireland

T: (+44) 28 9266 2200  
F: (+44) 28 9260 3600  
E: [sales@powershield.co.uk](mailto:sales@powershield.co.uk)  
[www.powershield.co.uk](http://www.powershield.co.uk)

