

### Applications:

Milk powder processing

Dairies

Infant nutrition

Dried milk processing

# Infant Nutrition Doors

Safe, Durable and Hygienic





## Ultra Clean GRP Construction

Completely smooth and seamless gelcoat finish which is non porous and non shedding. Free from organic materials, ledges, recesses or right angles, for flawless hygiene. Proven to maximise efficiency, safety and cleanability in the most demanding environments.

Dortek waterproof doors combine safety without compromising high standards of hygiene and durability.

These GRP doors do not harbour bacteria and are unaffected by moisture and common cleaning chemicals. Their smooth, controlled, sliding action maximises space and reduces the movement of airborne micro-organisms.

Our doors can be provided with a range of automations for easy, convenient access. Standard safety features include reverse opening if an obstruction is present.

We are able to offer an inherently superior product, a product which is more hygienic, more intelligent and capable of providing the ultimate fire protection.

## Your trusted partner for Hygienic Waterproof Doors

Dortek are the leading supplier and pioneer of bespoke hygienic GRP door solutions for Milk Powder and Nutritional Formula Plants. With over 50 years experience, we have become true experts in this sector.

Our doors are designed specifically to meet the demanding needs of these facilities which are exposed to high levels of traffic, moisture and cleaning chemicals. Containing no timber or organic materials, our doors prevent corrosion and maximise hygiene and longevity.

We provide complete access solutions which are individually crafted to meet your specification. This includes key requirements such as impact resistance, fire protection, water resistance and bright and contemporary aesthetics.



# Facility Design for maximum plant hygiene

As the demand for infant nutrition products to meet physical, chemical and bacteriological requirements increases, the design of infant nutrition plants and materials is increasingly focused on meeting strict hygiene standards.

*The HACCP, which forms the basis of food safety systems, published a document on the Code of Hygienic Practice for Powdered Formulae for Infants and Young Children CAC/RCP 66-2008.*

Structures within establishments manufacturing powdered formulae for infants should be soundly built of durable materials and easy to maintain, clean and, where appropriate, easy to disinfect.

Particular attention is required in the dry high hygiene areas to avoid the creation of hollow sites favouring the accumulation of dust and product residues which may lead to the formulation of a harbourage site.

Doors in particular can be a high source of contamination within manufacturing environments. They are the part of a building which sees the most traffic and is touched most frequently which is why it's important they are specified correctly.

## **Door Design and Construction:**

To minimise the risk of infection doors should be:

- Smooth, free from cracks and open joints.
- Be easily cleaned and disinfected.
- Be free of flaking or peeling material.
- Be non-absorbent.
- Be strong and durable to avoid damage.



## Reasons why DorteK Hygienic Doors are specified on Milk Powder / Nutritional Formula Plants

- ✓ Smooth seamless hygienic outer surface
- ✓ Waterproof and impervious to both dry or humid environments
- ✓ Door and frame completely void free – nowhere that moisture and bacteria can gather undetected
- ✓ Ledges minimised (window is same thickness as door, window is completely flush to both sides of the door)
- ✓ Resistant to commonly used cleaning agents used in nutritional facilities
- ✓ Lightweight yet very strong – increased widths and heights available, all easy to operate
- ✓ High hygiene and fire rating in one door
- ✓ Fire certificated to BS, EN, UL, China, Singapore, Australia and NZ standards



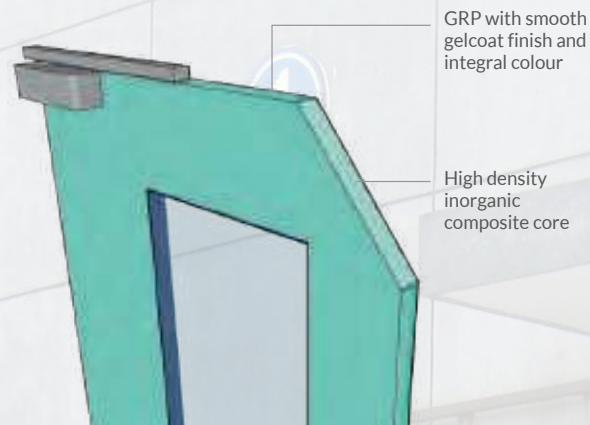
# Dortek GRP Doors

## Engineered for hygiene, strength and longevity

GRP (glass reinforced polyester) is an extremely tough, clean, water resistant material ideal for demanding environments where performance and hygiene are crucial.

Our doors are produced using a unique closed mould process, creating a strong, uniform product with no seams or joins on the door surface.

Unlike alternatives, colour is built into the door during the manufacturing process, ensuring that our doors will never require repainting or refinishing.



## Your trusted partner for access solutions

Dortek are recognised throughout the markets we serve for our commitment to innovation, quality and customer care.

Our clients rely on our technical expertise to find the right solution for every project and every door and to deliver that solution on time and to budget.

Dortek provide all the services and products that are needed to deliver a comprehensive solution. All Dortek doors can be supplied as complete door systems with the door leaf, frame, hardware, automations and vision panels to provide a fully-integrated system.



**GUARANTEE**  
**25**  
**YEARS**  
**GRP DOOR**  
\*subject to Dortek's terms and conditions.

- ✓ Wide range of colours
- ✓ Fire resistant
- ✓ Different frame options

## Fire rated up to 5 hours

Dortek's fire doors combine safety without compromising high standards of hygiene and durability.

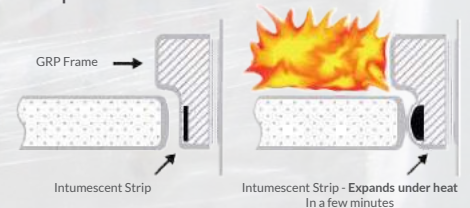
Unique to Dortek, our patented concealed intumescent strip is built into the door during the manufacturing process. This maintains a smooth, seamless profile ensuring that there are no seams or ledges where dirt and germs can gather.

The intumescent strip is activated by the heat of a fire and expands to create a sealed fire door.

We have attained fire certification across the following worldwide locations:

- US
- UK
- Europe
- SE Asia
- Australia
- Middle East
- New Zealand
- Africa

We are able to offer an inherently superior product, a product which is more hygienic, more intelligent and capable of providing the ultimate fire protection.



## Door frame options

### GRP frame

Fire rated GRP frame with patented concealed intumescent strip

### Stainless steel frames in various grades

Fire rated stainless steel frame available as an option

## Wall system integration

Dortek offers a complete line of cleanroom doors and windows designed to integrate seamlessly into wall systems.

\*Dortek door blades are subject to a 25 year guarantee, assuming normal wear and tear. Conditions and usage must be in accordance with our terms and conditions.





**DorteK GRP Doors**

VS



**Steel Doors**

### Reasons TO specify DorteK GRP

- ✓ Smooth, seamless, easy to clean construction. Does not harbour bacteria.
- ✓ Will not rot, rust, swell or warp. Completely sealed and impervious to the elements.
- ✓ Unaffected by moisture, disinfectants, chlorine and VHP (vapourised hydrogen peroxide).
- ✓ Choice of gel coat colours which are moulded into the door. Never needs painting.
- ✓ 42% lighter than steel, making them much safer and easier to operate.
- ✓ Naturally friendly to the environment. Longevity, cleanliness, strength and stability. Low lifecycle costs.
- ✓ Can be guaranteed for up to 25 years against failure due to corrosion, swelling, rotting, delamination or expansion.

Resistant to water & chemicals. Will not corrode.

Extremely lightweight blade, minimal wear on hinges.



\* DorteK door blades are subject to a 25 year guarantee, assuming normal wear and tear.

### Reasons NOT TO specify Steel

- ✗ Large seams, voids and crevices which are hard to clean and perfect breeding grounds for bacteria.
- ✗ Rusts from the inside out, causing health and security hazards.
- ✗ Not waterproof and often oxidises when exposed to regular cleaning regimes.
- ✗ Unhygienic painted surfaces which mark and dent easily and require continuous maintenance and upkeep.
- ✗ Heavy to operate. Needs expensive maintenance work & replacement due to excessive wear on hinges / closers.
- ✗ Continuous painting / replacement is harmful to the environment. 25 years could see up to 10 replacement doors.
- ✗ The standard warranty for a steel door is only 1 year & this does not cover failure due to corrosive environments.

Corrosion on door and frame.

Hinge failure due to weight. Unhygienic crevices & rusting.



# Product Selection

All DorteK doors can be supplied as complete door systems with the door leaf, frame, hardware, automations and vision panels to provide a fully-integrated system.

DorteK have invested extensively in third party BIM creation to enable us to offer a wide range of our products as BIM objects (objects are then imported into building models). These are available to download from the DorteK website.



## Hygienic Hinged Doors



Our hinged doors are ideally suited to areas requiring maximum hygiene, cleanability and water resistance. They are extremely strong and durable, yet light and easy to operate. Available as singles or pairs, single swing or double swing.



## Automated Doors



Automations are essential for providing safe and efficient access in high traffic areas. Our range of doors can be automated with safe, reliable operations.



## Hygienic Fire Doors



Tested for up to 5 hours fire resistance to global standards, our fire doors combine safety without compromising the high standard of hygiene and moisture resistance demanded in Plant facilities.



## Hermetic Sliding Sealing Doors



These doors are essential for areas where control of air leakage is required. The unique, patented track system has a 99% air-tight seal helping to reduce cross contamination and expensive air handling costs. Doors are available in glass or with fire ratings and as single sliding or bi-parting.



## Hygienic Sliding Doors



Our sliding doors offer the same hygiene and safety features of our hinged doors, but with the added benefit of wider openings on a durable runner system. Available as single or bi-parting doors.



## Ironmongery



Our range of Ironmongery is nylon or powder coated to prevent corrosion. All our ironmongery is factory installed to ensure our doors meet the highest standards of compliance and operating efficiency. Doors are available in glass or with fire ratings and as single sliding or bi-parting.

# Hygienic GRP Doors

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## Our Product Range:

- Hinged GRP Doors
- Hygienic FRP Doors
- Fire Doors
- X-ray Rated Doors
- Glass Doors
- Hermetically Sealing Doors
- Crash / Traffic Doors
- Industrial Doors
- Windows and Vision Panels
- Transfer and Trolley Hatches

