

Your trusted partner in

# COLD STORAGE

INDUSTRY SOLUTIONS

Engineered access solutions built for  
performance, safety and reliability.



**BX**

**BX BUNKA AUSTRALIA**  
Bunka Shutter Group



# One Brand. Total Protection. End-to-End Performance.

In the cold storage industry, every second counts. Operational efficiency, energy management and product protection are critical - and the right access solutions make all the difference.

Our range of High Speed Doors, Insulated Doors and Dock Loading Systems are designed to meet these exact challenges, providing a complete, integrated solution under one trusted brand. Backed by the strength of multiple companies under one trusted group, we provide seamless project delivery, product compatibility and long-term support across every stage of your facility lifecycle.

**BX** ARCO AUSTRALIA DOOR SYSTEMS  
Part of BX Bunka Australia

**BX** MAX DOOR SOLUTIONS  
Part of BX Bunka Australia

**BX** SPRINT ROLLER SHUTTERS  
Part of BX Bunka Australia

**BX** INDUSTRIAL DOOR SERVICE  
Part of BX Bunka Australia

## High Speed Doors

High-speed doors are engineered for areas where traffic flow is constant and temperature control is critical. Their rapid opening and closing reduces the amount of time a doorway is exposed, helping maintain internal temperatures and lowering refrigeration demand.

### Product offering:

- RapidMAX® Plus
- RapidMAX® SS
- RapidMAX® SR
- RapidLift® (over 6m)

## Insulated Door Solutions

Insulated doors are built to provide maximum thermal performance in cold storage and freezer environments. Their high-performance construction creates a strong barrier that helps maintain consistent internal temperatures while reducing energy consumption.

### Product offering:

#### *Sectional Door*

- PanelMAX® 40 / ECO40 / 80

#### *Insulated Roller Shutter*

- ShutterMAX® 95R
- ShutterMAX® 100D
- ShutterMAX® ISO-SL

#### *Insulated Rapid Door*

- RapidMAX® iso-Chill
- RapidMAX® iso-Freeze

#### *Thermal Air Barrier*

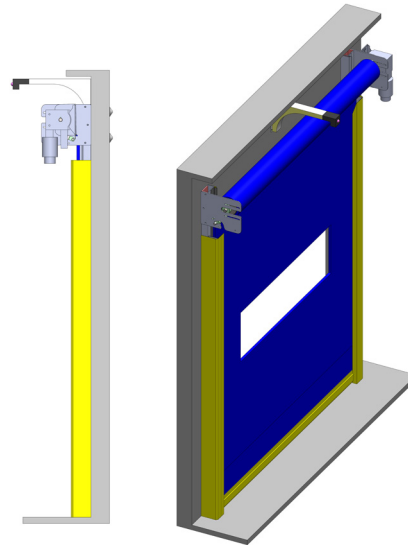
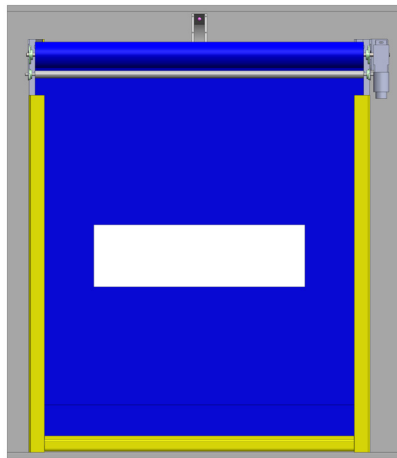
- Thermoshutter w/ Variable Speed Drive System (Horizontal Air Flow)
- Air Curtains (Vertical Air Flow)

## Dock Loading Systems

Loading docks are one of the most vulnerable areas for temperature loss within cold storage facilities. Dock loading systems are designed to create a tight seal between the building and transport vehicles, helping maintain internal temperatures during loading and unloading operations.

### Product offering:

- Dock Seals & Shelters
- Dock Accessories
- Vehicle Restraint



## RapidMAX® Plus / SS

High-performance doors for industrial, commercial and hygiene-critical environments.

### Standard

- Australian designed and manufactured high-speed doors for temperature-controlled environments
- RapidMAX® Plus for general cold storage and industrial applications
- RapidMAX® SS stainless steel model for hygiene and corrosive environments
- Designed to reduce energy loss and maintain temperature stability and improve operational throughput

### Performance & Compliance

- Opening speeds up to 2.5m per second (size dependent)
- Minimises cold air loss and refrigeration demand
- Designed to resist condensation and frost build-up
- Quiet, smooth operation suited to high-cycle environments
- Integrated safety systems supporting compliance

### Technical Highlights

- TOUGHFLEX® flexible and durable door curtain
- Vision panel options available
- Compact guide design with strong environmental sealing
- Steel or stainless steel construction options
- Powered by GfA Elektromaten Safedrive® motor with integrated safety brake
- Knockout crash system with quick manual reset
- Optional light curtain safety and wind tab reinforcement
- Manual override and emergency stop included

### Application

- Freezer and chiller internal openings
- High-traffic forklift access points
- Food processing and pharmaceutical facilities
- Distribution and logistics cold storage
- Washdown and hygiene-sensitive environments

RAPIDMAX SR  
CURTAIN

RAPIDMAX SR  
CURTAIN

RAPIDMAX SR  
CURTAIN

# RapidMAX® SR

High performance door for large openings and high wind loads.

## Standard

- High-performance rapid door designed for cold storage environments and large openings
- Suitable for internal and external cold storage applications
- Engineered for high wind load areas and demanding industrial environments
- Provides exceptional perimeter sealing to support temperature-controlled operations
- Designed to maximise operational efficiency, safety and reliability in high-traffic facilities

## Technical Highlights

- Opening speed up to 1.2m/sec to reduce temperature loss and improve workflow efficiency
- Industry-leading air pressure retention supporting cold storage temperature stability
- Self-repairing curtain with auto-reset allowing operation to resume after impact
- Soft bottom seal for enhanced operator and equipment safety
- Optional vision panels for improved visibility in busy operational areas
- Integrated IP65-rated logic controller housed within the side frame for protected system control
- Designed to withstand wind gusts exceeding 120km/h for openings up to 33m<sup>2</sup>

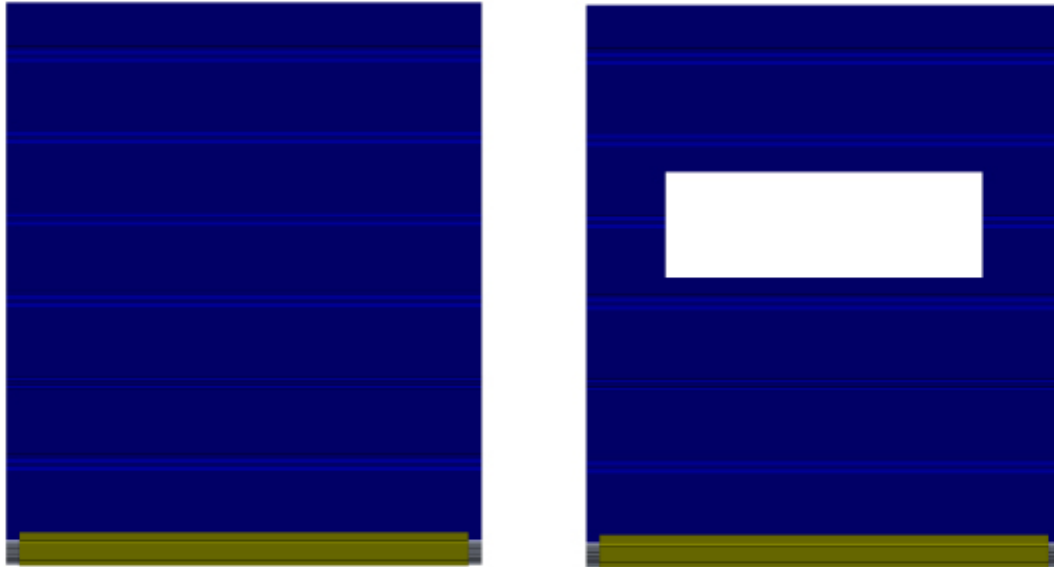
## Performance & Compliance

- Engineered for high-cycle cold storage operations requiring fast and reliable access
- Superior perimeter sealing supports temperature control and energy efficiency
- Self-repair curtain technology minimises downtime and maintenance disruptions
- Built to perform in large openings exposed to significant wind pressure
- Reliable operation suited to demanding cold chain and industrial environments

## Application

- Cold storage warehouses and refrigerated logistics facilities
- Food processing and distribution centres
- Large refrigerated loading bays and dispatch areas
- High-traffic internal cold rooms requiring rapid access
- External cold storage openings exposed to high wind loads





## RapidMAX® iso-Chill / iso-Freeze

High-performance insulated doors for freezer and chiller applications

### Standard

- Australian designed and manufactured insulated doors for freezer and chiller environments
- RapidMAX® iso-Chill designed for chilled and temperature-controlled applications
- RapidMAX® iso-Freeze engineered for demanding freezer environments
- Designed to reduce energy loss and improve environmental control
- Built for reliable operation in high-use cold storage facilities

### Performance & Compliance

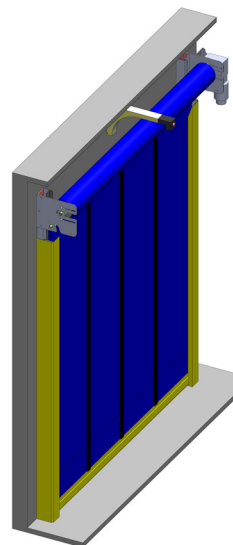
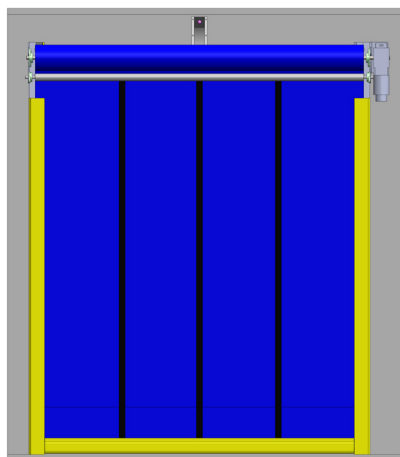
- High-speed operation reduces cold air escape and refrigeration demand
- Insulated curtain improves temperature stability and energy efficiency
- Perimeter sealing assists in maintaining controlled temperature zones
- Designed to perform in freezer and chiller conditions with reduced condensation and frost build-up
- Smooth, reliable operation suited to continuous cold storage workflows
- Integrated safety systems supporting industrial compliance requirements

### Technical Highlights

- ISO-FLEX® insulated curtain designed for superior thermal performance
- Fast opening speeds up to 2.5m per second (size dependant)
- Compact guide design with strong perimeter sealing
- Powered by GfA Elektromaten Safedrive® motors and controls
- Knockout crash system allowing quick manual reset after impact
- Integrated light curtain safety system for operator protection
- Manual chain override and emergency stop supplied as standard
- Engineered for durability in high-cycle industrial environments

### Application

- Freezer and chiller storage facilities
- Cold rooms and bulk storage areas
- Food processing and pharmaceutical storage environments
- Distribution and logistics cold chain operations
- High-traffic internal openings requiring thermal performance and speed



## RapidLift®

### High Performance Fast Action Door

#### Standard

- High-performance fast action door designed for durability and efficiency in industrial cold storage environments
- Engineered to support environmental control and reduce operational energy costs
- Built with a solid steel frame construction for long-term reliability
- Designed to maintain temperature stability in high-traffic access areas

#### Performance & Compliance

- High-speed operation reduces cold air escape and refrigeration demand
- Sealed door design improves thermal efficiency and environmental separation
- Strong structural construction designed for harsh industrial and cold storage environments
- Wind-resistant design suitable for external openings and exposed locations
- Safety features support modern industrial operational compliance
- Low maintenance design supporting long service life and reduced downtime

#### Technical Highlights

- Opening speeds up to 2.0m per second
- Solid steel frame with galvanised finish and optional powder coating
- Efficient perimeter sealing system designed to minimise air infiltration
- Integrated safety brake and dual photo electric beams for operator protection
- Emergency stop functionality supplied as standard
- Wind resistance rated for gusts exceeding 120km/hr
- Wear tabs and integrated sealing system designed to reduce maintenance requirements
- Whisper-quiet operation supporting high-cycle industrial use

#### Application

- External freezer and chiller access openings
- High-traffic forklift and material handling entry points
- Distribution and logistics cold storage facilities
- Industrial environments requiring wind resistance and durability
- Processing and storage areas requiring reliable high-speed performance



### Low Lift

The Low Lift is the ideal track system in situations where there is limited free space above the door. The system is available in three versions, for head space of 200, 250 or 320mm.



### Standard Lift

The Standard Lift is a standard track system which moves horizontally outside of the clear width.



### High Lift

The High Lift is a particularly space-saving track system. The door initially opens vertically before moving into the building close to the ceiling.



### Vertical Lift

The Vertical Lift is a track system in which the door opens vertically.

## PanelMAX® 40 / ECO40 / 80

### Insulated Sectional Doors – 40mm & 80mm Panels

#### Standard

- The PanelMAX® range offers insulated sectional doors designed for low to medium cycle cold storage applications where insulation, security and safety are essential
- Available in 40mm and 80mm panel thicknesses to suit operational requirements
- Full perimeter seals ensure optimal temperature control and reduce energy consumption
- PanelMAX®40 delivers reliable insulation for standard cold storage, while PanelMAX®80 provides superior thermal performance for demanding temperature-controlled environments

#### Technical Highlights

- Insulated panels with polyurethane core in 40mm or 80mm thickness for excellent thermal efficiency
- Full perimeter sealing combined with thermal breaks to minimise heat loss and energy costs
- Cable and spring brake safety devices included as standard for secure operation
- Durable construction designed to withstand wind gusts over 120km/h (Class 3 EU)
- Flexible operation with manual or motorised options
- Australian made with European design standards
- Cyclone-rated options available upon request for extreme weather locations

#### Performance & Compliance

- High-quality insulation maintains consistent internal temperatures, supporting cold storage efficiency
- Perimeter seals and thermal breaks reduce air infiltration and refrigeration load
- Robust panel construction ensures reliability in industrial and external environments
- Compliance with industry safety standards through integrated brake systems
- Wind and cyclone-rated options provide assurance for exposed locations

#### NEW PanelMAX® ECO40

Introducing the new PanelMAX® ECO40 – where proven performance meets next-generation efficiency. Built on the trusted foundation of the PanelMAX® 40, the ECO40 delivers **industry-leading energy savings** with a **powerful DC drive system** and **advanced thermally broken ISO profiles**.

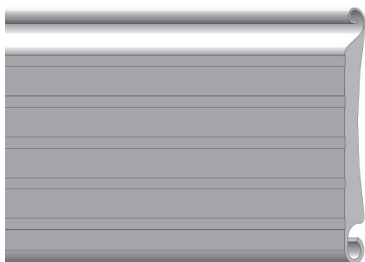
The result? A **25% improvement** in overall thermal performance, helping you reduce energy costs while maintaining reliability, durability and smooth operation. Upgrade to smarter, more efficient door technology with PanelMAX® ECO40.

New colour finish:

- PanelMAX® ECO40 is RAL 9010 (pure white)
- Standard PanelMAX® 40 / 80 is RAL 9002 (grey-white)



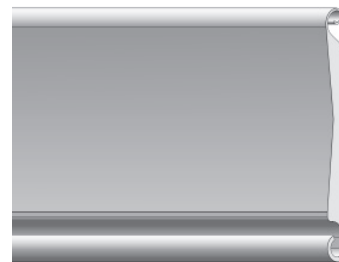
ShutterMAX® 95R



ShutterMAX® 100D



ShutterMAX® ISO-SL



## ShutterMAX® ISO-SL / 95R / 100D

High-performance insulated shutters for security, thermal and acoustic control



Environmental  
Product  
Declaration

**ShutterMAX® ISO-SL** – balanced performance for general industrial and commercial use

**ShutterMAX® 95R** – enhanced thermal and acoustic insulation

**ShutterMAX® 100D** – heavy-duty performance for demanding environments

### Standard

- The ShutterMAX® insulated roller shutter range delivers high-performance security, thermal insulation and operational efficiency for cold storage environments
- German-designed and Australian-made, engineered for reliability in demanding industrial facilities
- Available in three models to suit different operational need
- Ideal for facilities requiring temperature control, noise reduction and secure access points

### Performance & Compliance

- Designed to maintain thermal stability in cold storage facilities by reducing air infiltration
- Insulated curtain construction supports energy efficiency and operational cost reduction
- Robust shutter construction provides high security and durability for external openings
  - Smooth, quiet operation supports
- Continuous industrial use in high-traffic environments
- Integrated safety and drive systems engineered for reliable operation and long service life

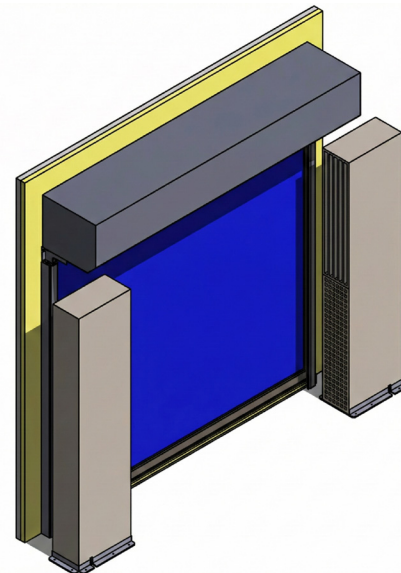
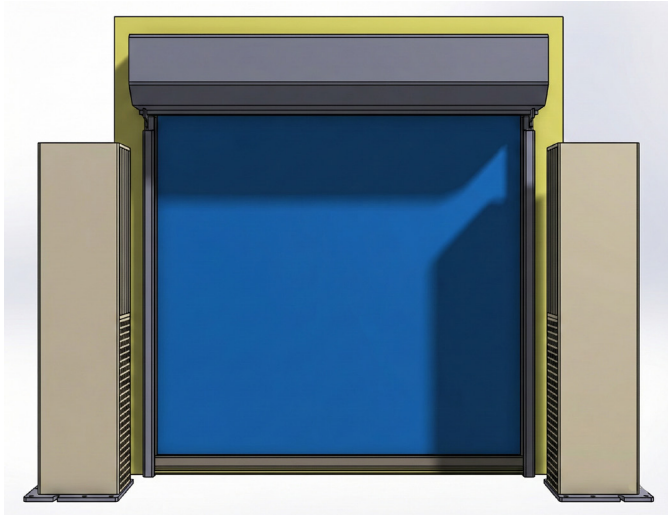
### Technical Highlights

- Insulated slat profiles designed to support thermal efficiency and acoustic control in temperature-controlled environments
- European design with German-engineered drive systems for reliable performance
- GfA Safedrive® drive technology featuring integrated safety brake and manual override capability
- Whisper-quiet operation with smart soft start and stop functionality (Plus model)
- Wet painted finish options available to suit facility requirements and aesthetics
- Optional integrated safety systems to enhance operational safety

### Application

- Cold storage warehouses and temperature-controlled logistics centres
- Food processing and refrigerated distribution facilities
- Industrial warehouses and manufacturing environments
- Retail or commercial premises requiring thermal and acoustic performance
- External building openings requiring secure, insulated shutter solutions





# Thermoshutter

## Horizontal Air Curtain for Cold Rooms and Freezers

### Standard

- Horizontal air curtain for cold rooms, industrial freezers and chillers
- Dual-sided airflow creates equalised pressure across the threshold
- Reduces cold air leakage and energy loss
- Maintains hygienic storage conditions and safe, ice-free floors
- Reliable performance in demanding temperature-controlled environments

### Performance & Compliance

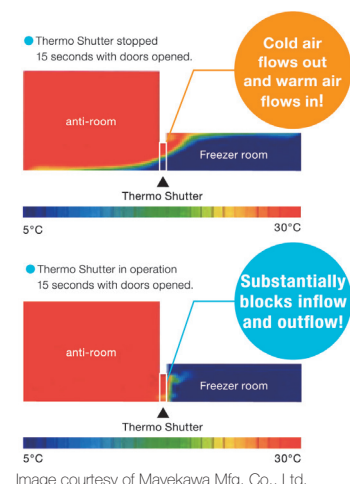
- Reduces energy usage and operational costs
- Minimises defrosting cycles for better efficiency
- Maintains consistent temperature for product protection
- Supports safe, hygienic operations

### Technical Highlights

- Dual-sided airflow for superior cold air retention
- Durable stainless steel construction (except fans)
- Flexible sizing: 2000mm – 5000mm height
- Optimised energy efficiency with reduced power consumption
- Integrated Variable Speed Drive (VSD) control system provides dynamic speed modulation - ramps to full operational speed during door-open cycles and automatically reduces to low-speed standby when closed, eliminating standard fixed 100% on / 0% off operation and improving thermal stability and energy efficiency

### Specifications Summary

| Parameter               | Details                                                          |
|-------------------------|------------------------------------------------------------------|
| <b>Application</b>      | Cold rooms, freezers, chillers                                   |
| <b>Height Range</b>     | 2000 - 5000mm (custom in 100mm steps)                            |
| <b>Standard opening</b> | 3000mm (max.)                                                    |
| <b>Panel/Body</b>       | Stainless steel (except fans)                                    |
| <b>Fans</b>             | 6-12, 75 W each                                                  |
| <b>Power Supply</b>     | 240 V, single phase                                              |
| <b>Operating Range</b>  | -10°C to +45 °C, up to 90% humidity                              |
| <b>Accessories</b>      | Control panel (std), optional cover for outward-opening chillers |



# Complete Loading Bay Solutions for Cold Storage Facilities

## Dock Seals & Shelters

### Value

- **Energy Efficiency:** Create a tight seal between truck and building to minimise cold air loss and reduce energy costs.
- **Temperature Control:** Maintain consistent internal temperatures for sensitive products during loading and unloading.
- **Hygiene & Safety:** Protect goods from dust, pests and weather, while keeping floors free from ice and condensation.
- **Durable Design:** Built to withstand high-frequency use in demanding cold storage environments.

### Product Range

- DSS Cushion Dock Shelter
- DSI-NG Inflatable Dock Shelter
- DSCM Curtain Dock Shelter
- Power Shelter 405
- DSI-NG Dock Shelter with Inflatable Top Cushion and Side Curtains

## Dock Accessories

### Value

- **Enhanced Safety:** Wheel chocks, dock bumpers and guides prevent vehicle and facility damage.
- **Operational Efficiency:** Dock lights, levelers and traffic control systems streamline loading processes
- **Customisation:** Accessories can be tailored to match specific warehouse and vehicle requirements.
- **Maintenance Reduction:** Protects doors, floors and equipment, reducing downtime and repair costs.

### Product Range

- ATL LED Traffic Light
- ADL Dock Lights
- AWG Wheel Guides
- Dock Bumpers
- Dock Control Systems

## Vehicle Restraints

### Value

- **Accident Prevention:** Secure trailers in position during loading/unloading to prevent movement and accidents.
- **Compliance:** Meets occupational health and safety regulations for cold storage operations.
- **Operational Efficiency:** Speeds up docking operations by ensuring consistent and safe trailer alignment.
- **Peace of Mind:** Protects staff, equipment and product integrity in high-traffic loading areas.

### Product Range

- TPR Rotating Hook Vehicle Restraint
- VRM-NG Manual Wheel Restraint
- VRA-NG Automatic Wheel Restraint

## Technical Sheet Comparisons

### Industry Comparison

| Criteria/Feature                       | High Speed Doors                           | Insulated Doors                             | Dock Loading Systems                           |
|----------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------------|
| <b>Primary Purpose</b>                 | Fast access, minimise air exchange         | Temperature retention and energy efficiency | Facilitate loading/unloading & thermal sealing |
| <b>Energy Efficiency</b>               | Good (reduces open time)                   | Excellent (strong insulation)               | Very Good (reduces air loss at docks)          |
| <b>Temperature Control</b>             | Good (reduces infiltration)                | Excellent (prevents heat gain/loss)         | Very Good (when paired with seals/curtains)    |
| <b>Airflow / Air Exchange Control</b>  | Excellent (fast open/close)                | Moderate (slower operation)                 | Good (with proper seals and levellers)         |
| <b>Durability in Cold Environments</b> | High (designed for frequent cycles)        | High (robust construction)                  | Variable (depends on model and maintenance)    |
| <b>Maintenance Cost</b>                | Moderate (mechanical wear)                 | Low - Moderate                              | Moderate - High (multiple components)          |
| <b>Impact on Workflow Efficiency</b>   | High (reduces wait times)                  | Medium (stable environment, slower access)  | High (simplifies for forlift/truck interface)  |
| <b>Best For</b>                        | High traffic areas (freezer/chiller doors) | Long-term temperature retention zones       | Loading docks and transition zones             |
| <b>Typical ROI Driver</b>              | Reduced energy loss and faster throughput  | Lower utility costs                         | Reduced product spoilage and faster turnover   |
| <b>Safety Features</b>                 | Sensors, soft edges                        | Manual / automatic locks                    | Guides, bumpers, levellers                     |

### High Speed Doors

| Feature                      | RapidMAX® Plus                                                                                                        | RapidMAX® SS                                                               | RapidMAX® SR                                                                                                                | RapidLift®                                                                                                                                                                                            |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Primary Application</b>   | High-traffic internal cold rooms                                                                                      | Hygienic cold storage environments                                         | Large openings with high wind exposure                                                                                      | Internal cold storage access points                                                                                                                                                                   |
| <b>Application Type</b>      | Internal / External                                                                                                   | Internal                                                                   | Internal / External                                                                                                         | Internal                                                                                                                                                                                              |
| <b>Max Width</b>             | 4500mm                                                                                                                | 4500mm                                                                     | 6000mm                                                                                                                      | 7500mm (other sizes upon request)                                                                                                                                                                     |
| <b>Max Height</b>            | 5500mm                                                                                                                | 5500mm                                                                     | 6000mm                                                                                                                      | 7150mm (other sizes upon request)                                                                                                                                                                     |
| <b>Opening Speed</b>         | Up to 2.5m/sec                                                                                                        | Up to 2.5m/sec                                                             | Up to 1.2m/sec                                                                                                              | Up to 1.5m/sec                                                                                                                                                                                        |
| <b>Curtain</b>               | TOUGHFLEX® 2350gsm with full-width vision panel (std) or no vision (opt)                                              | TOUGHFLEX® 2350gsm with full-width vision panel (std) or no vision (opt)   | 680gsm reinforced PVC (std) or 680gsm with Vision Panels (opt)                                                              | 900gsm Vinyl Vision Panel (opt)                                                                                                                                                                       |
| <b>Door Frame / Fascia</b>   | Powdercoated steel                                                                                                    | Stainless steel 304 standard (316 opt)                                     | Galvanised steel (powdercoated std) / Stainless steel (opt)                                                                 | Galvanised steel (powdercoated opt) / Stainless steel                                                                                                                                                 |
| <b>Top Roll Cover</b>        | Fascia standard/ hood optional                                                                                        | Fascia standard/ hood optional                                             | Hood standard                                                                                                               | Hood standard                                                                                                                                                                                         |
| <b>Top Roll Tube</b>         | Galvanised steel                                                                                                      | Galvanised steel (316 stainless steel option)                              | Powdercoated (std)                                                                                                          | Galvanised steel                                                                                                                                                                                      |
| <b>Drive System</b>          | GfA SafeDrive® IP54, 240 V single phase                                                                               | GfA SafeDrive® IP65, 240 V single phase                                    | 240V Single Phase VSD                                                                                                       | GfA SafeDrive® IP65-415V Three Phase                                                                                                                                                                  |
| <b>Control System</b>        | GfA TS971 IP54 (std), TS971-XL IP65 (opt)                                                                             | GfA TS971 IP54 (std), TS971-XL IP65 (opt)                                  | Logic Controller IP65 integrated into side frame                                                                            | GfA TS971 IP65 (std), GfA TS971-XL IP65 (opt)                                                                                                                                                         |
| <b>Safety</b>                | Bottom beam edge, optical / pneumatic sensor, PE beam, integrated safety brake, emergency stop, manual chain override | Same as Plus, with optional 1800mm light curtain and optional manual crank | Door-line PE Beam (std) and optional second PE Beam; emergency stop button (std) and optional escape curtain break-away tab | Dual door-line PE beam, SafeDrive® integrated safety brake, emergency stop button, manual chain over-ride and optional light curtain (1800mm active height) and optional manual crank handle override |
| <b>Crash System</b>          | Knockout with manual reset                                                                                            | Knockout with manual reset                                                 | Knockout with Auto Reset                                                                                                    | N/A                                                                                                                                                                                                   |
| <b>Wind Load Rating</b>      | >30km/hr standard; >100km/hr optional (Class 2, ≤12m²)                                                                | >30km/hr standard; >72km/hr optional (Class 1, ≤12m²)                      | >120km/h (at 33m²)                                                                                                          | >120km/hr (Class 3 EU)                                                                                                                                                                                |
| <b>Air Leakage (m³/h·m²)</b> | Low leakage                                                                                                           | Low leakage                                                                | Positive: 10.3   Negative: 7.9                                                                                              | Moderate leakage                                                                                                                                                                                      |

## Insulated Doors

| Feature                     | PanelMAX® 40                                                                                                                                                                             | PanelMAX® ECO40                                                                                                                                                                          | PanelMAX® 80                                                                                                                                                                             | RapidMAX® iso-Chill                                                                 | RapidMAX® iso-Freeze                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Application Type</b>     | External /Internal                                                                                                                                                                       | External /Internal                                                                                                                                                                       | External /Internal                                                                                                                                                                       | Chiller environments                                                                | Freezer Environments                                                            |
| <b>Max Width</b>            | 6000mm (other sizes upon request)                                                                                                                                                        | 4000mm (other sizes upon request)                                                                                                                                                        | 6000mm (other sizes upon request)                                                                                                                                                        | 3500mm                                                                              | 3500mm                                                                          |
| <b>Max Height</b>           | 6000mm (other sizes upon request)                                                                                                                                                        | 4000mm (other sizes upon request)                                                                                                                                                        | 6000mm (other sizes upon request)                                                                                                                                                        | 5500mm                                                                              | 5500mm                                                                          |
| <b>Opening Speed</b>        | Up to 0.18m/sec                                                                                                                                                                          | Up to 0.18m/sec                                                                                                                                                                          | Up to 0.18m/sec                                                                                                                                                                          | Up to 2.5m/sec                                                                      | Up to 2.5m/sec                                                                  |
| <b>Curtain</b>              | Insulated 40mm Polyurethane panel                                                                                                                                                        | Insulated 40mm Polyurethane ISO-panel                                                                                                                                                    | Insulated 80mm Polyurethane panel                                                                                                                                                        | ISO-FLEX® 15 insulated 15mm (std), 30mm (opt) Vision panel (opt) or no vision (std) | ISO-FLEX® 30 insulated 30mm (std)                                               |
| <b>Thermal Insulation</b>   | U=0.51 /R =1.96                                                                                                                                                                          | U=0.51 /R =1.96                                                                                                                                                                          | U=0.26 /R =3.85                                                                                                                                                                          | U = 1.12 / R = 0.89                                                                 | U = 0.65 / R = 1.54                                                             |
| <b>Acoustic Performance</b> | 25dB, 40mm panel                                                                                                                                                                         | 28dB, 40mm panel                                                                                                                                                                         | 25dB, 80mm panel                                                                                                                                                                         | N/A                                                                                 | N/A                                                                             |
| <b>Door Frame</b>           | N/A                                                                                                                                                                                      | N/A                                                                                                                                                                                      | N/A                                                                                                                                                                                      | Powdercoated steel Full frame heating system (opt)                                  | Powdercoated steel Full frame heating system (std)                              |
| <b>Drive System</b>         | Manual /Motorised                                                                                                                                                                        | Motorised (Base 50 DC motor)                                                                                                                                                             | Manual /Motorised                                                                                                                                                                        | GfA Safedrive® IP65, 240 V single phase                                             | GfA Safedrive® IP65, 240 V single phase                                         |
| <b>Control System</b>       | N/A                                                                                                                                                                                      | N/A                                                                                                                                                                                      | N/A                                                                                                                                                                                      | GfA TS971-XL IP65                                                                   | GfA TS971-XL IP65                                                               |
| <b>Safety</b>               | Springbrake safety device, standard cable brake safety device, standard doorline PE safety beam/ light curtain<br>Optional: Auto reversing optical safety edge and emergency stop button | Springbrake safety device, standard cable brake safety device, standard doorline PE safety beam/ light curtain<br>Optional: Auto reversing optical safety edge and emergency stop button | Springbrake safety device, standard cable brake safety device, standard doorline PE safety beam/ light curtain<br>Optional: Auto reversing optical safety edge and emergency stop button | Light curtain (1800mm), integrated brake, emergency stop, manual chain override     | Light curtain (1800mm), integrated brake, emergency stop, manual chain override |
| <b>Wind Load Rating</b>     | >120km/hr (class 3 EU)                                                                                                                                                                   | >100km/hr (class 2 EU)                                                                                                                                                                   | >120km/hr (class 3 EU)                                                                                                                                                                   | >30km/h standard; optional Wind tabs system<br>>72km/h (Class 1, ≤12m²)             | >30km/h standard; optional Wind tabs system<br>>72km/h (Class 1, ≤12m²)         |
| <b>Primary Applications</b> | Warehouses, logistics hubs, manufacturing, commercial sites, cold chain logistics                                                                                                        | Warehouses, logistics hubs, manufacturing, commercial sites, cold chain logistics                                                                                                        | Warehouses, logistics hubs, manufacturing, commercial sites, cold chain logistics                                                                                                        | Chiller rooms, food processing, pharmaceuticals                                     | Freezer storage, cold chain logistics, distribution facilities                  |

## Insulated Roller Shutter

| Feature                     | ShutterMAX® 95R                                                                                                                                                                                                           | ShutterMAX® 100D                                                                                                                                                                                                                                                            | ShutterMAX® ISO-SL                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Type</b>     | External /Internal                                                                                                                                                                                                        | External /Internal                                                                                                                                                                                                                                                          | External                                                                                                                                                                                                                 |
| <b>Max Width</b>            | 6500mm                                                                                                                                                                                                                    | 11000mm                                                                                                                                                                                                                                                                     | 6000mm                                                                                                                                                                                                                   |
| <b>Max Height</b>           | 6000mm                                                                                                                                                                                                                    | 10000mm (other sizes upon request)                                                                                                                                                                                                                                          | 6000mm                                                                                                                                                                                                                   |
| <b>Opening Speed</b>        | 0.15m/sec                                                                                                                                                                                                                 | 0.15m/sec                                                                                                                                                                                                                                                                   | Up to 1.70m/sec                                                                                                                                                                                                          |
| <b>Closing Speed</b>        | 0.15m/sec                                                                                                                                                                                                                 | 0.15m/sec                                                                                                                                                                                                                                                                   | 0.70m/sec                                                                                                                                                                                                                |
| <b>Curtain / Slats</b>      | Galvanised steel profile filled with PU foam (std).<br>Hardened PVC profile end guides.<br>Colours available upon request (opt).<br>Window/Ventilation Profiles (opt).<br>Door Head Lintel and Bottom Profile seal (std). | Galvanised steel profile filled with Rockwool (std).<br>Aluminium profile filled with Rockwool (opt).<br>Hardened PVC profile end guides.<br>Colours available upon request (opt).<br>Window/Ventilation Profiles (opt).<br>Door Head Lintel and Bottom Profile seal (std). | Anodised Aluminium external profile bonded to hardened PVC longitudinal profile filled with polyurethane foam. Surf-mist (RAL9002) (std).<br>Colours available upon request (opt).<br>Window/Ventilation Profiles (opt). |
| <b>Top Roll Tube</b>        | Galvanised steel / Springless Drum                                                                                                                                                                                        | Galvanised steel / Springless Drum                                                                                                                                                                                                                                          | Galvanised steel / Springless Drum                                                                                                                                                                                       |
| <b>Frame / Guides</b>       | Galvanised steel / Powdercoated (opt), PVC wear strip with Lintel Rubber seal / PVC wear strip with integrated seal (opt)                                                                                                 | Galvanised steel / Powdercoated (opt), PVC wear strip with Lintel Rubber seal / PVC wear strip with integrated seal (opt)                                                                                                                                                   | Galvanised steel / Powdercoated (opt)                                                                                                                                                                                    |
| <b>Drive System</b>         | GfA Safedrive® with integrated safety brake & manual hauling chain                                                                                                                                                        | GfA Safedrive® with integrated safety brake & manual hauling chain                                                                                                                                                                                                          | GfA Safedrive® with integrated safety brake & soft start/soft stop                                                                                                                                                       |
| <b>Safety</b>               | Safedrive integrated brake, emergency stop button and manual chain over-ride.<br>Optional: Door-line safety PE beam, Door-line safety light curtain (1800mm active), BottomProfile "Soft-touch" reversing edge.           | Safedrive integrated brake, emergency stop button and manual chain over-ride.<br>Optional: Door-line safety PE beam, Door-line safety light curtain (1800mm active) and BottomProfile "Soft-touch" reversing edge.                                                          | Safedrive integrated brake, Door-line safety light curtain (1800mm active), emergency stop button and manual chain over-ride.<br>Optional: BottomProfile "Soft-touch" reversing edge.                                    |
| <b>Wind Load Rating</b>     | >170km/h (Class 5 EU)                                                                                                                                                                                                     | >170km/h (Class 5 EU)                                                                                                                                                                                                                                                       | >170km/h (Class 5 EU)                                                                                                                                                                                                    |
| <b>Thermal Insulation</b>   | U= 3.47/R0.29 (23mm Profile)                                                                                                                                                                                              | U=4.4/R=0.23                                                                                                                                                                                                                                                                | U=0.875/R=1.14                                                                                                                                                                                                           |
| <b>Acoustic Performance</b> | 27dB                                                                                                                                                                                                                      | 36dB - 41dB with 2 x Door System                                                                                                                                                                                                                                            | 16dB (calculated value-untested)                                                                                                                                                                                         |
| <b>Primary Applications</b> | Warehouses, logistics hubs, manufacturing, commercial sites                                                                                                                                                               | Warehouses, logistics hubs, manufacturing, commercial sites, Auditorium                                                                                                                                                                                                     | Warehouses, logistics hubs, manufacturing, commercial sites, cold chain logistics                                                                                                                                        |

## Dock Levellers

| Type             | O/A Length (mm) | Platform Length (mm) | Platform Width (mm) | Construction Height (mm) | Working Range (mm) |       | Weight (kg) | Load Lip Length (mm) |
|------------------|-----------------|----------------------|---------------------|--------------------------|--------------------|-------|-------------|----------------------|
|                  |                 |                      |                     |                          | Above              | Below |             |                      |
| SWING LIP        |                 |                      |                     |                          |                    |       |             |                      |
| DLH-NG Min.      | 2080            | 2000                 | 1830                | 500                      | 160                | 270   | 545         | 400                  |
| DLH-NG Max.      | 4080            | 4000                 | 2250                | 600                      | 350                | 305   | 1320        | 500                  |
| DLH-NG-M100 Min. | 2080            | 2000                 | 2000                | 500                      | 165                | 275   | 540         | 400                  |
| DLH-NG-M100 Max. | 4080            | 4000                 | 2250                | 600                      | 345                | 315   | 1790        | 500                  |
| DLH-NG-J Min.    | 4590            | 4500                 | 2000                | 900                      | 347                | 600   | 1675        | 400                  |
| DLH-NG-J Max.    | 5090            | 5000                 | 2250                | 900                      | 355                | 600   | 1910        | 500                  |
| DLH-NG-JNG Min.  | 3580            | 3500                 | 2000                | 750                      | 240                | 400   | 1100        | 400                  |
| DLH-NG-JNG Max.  | 5080            | 5000                 | 2250                | 900                      | 640                | 620   | 2000        | 500                  |
| TELESCOPIC LIP   |                 |                      |                     |                          |                    |       |             |                      |
| DLE-NG Min.      | 2080            | 2000                 | 2000                | 700                      | 270                | 340   | 740         | 500                  |
| DLE-NG Max.      | 3080            | 3000                 | 2250                | 700                      | 455                | 465   | 1275        | 1000                 |
| DLE-NG-M Min.    | 3580            | 3000                 | 2000                | 700                      | 310                | 340   | 950         | 500                  |
| DLE-NG-M Max.    | 4080            | 4000                 | 2250                | 700                      | 465                | 450   | 1900        | 1000                 |
| DLE-NG-J Min.    | 3580            | 2000                 | 2000                | 1000                     | 400                | 450   | 1280        | 500                  |
| DLE-NG-J Max.    | 5090            | 2250                 | 2250                | 1000                     | 720                | 700   | 2310        | 1000                 |
| DLC-NG Min.      | 3580            | 3000                 | 2000                | 800                      | 480                | 600   | 1370        | 500                  |
| DLC-NG Max.      | 6080            | 6000                 | 2250                | 1000                     | 600                | 800   | 2525        | 1000                 |