

Complete Solutions for the Machinery & Robotics Industry



## **Introduction & Content**

## See more at zonesystems.com.au



#### **Application Expertise**

It is important for designers to integrate safety technology into applications in such a way that optimum productivity, ergonomics and cost effectiveness are achieved whilst conforming to the relevant standards and specifications.

Make good use of the years of application experience of our engineers in deciding the optimum solution for you.

#### **Local Production**

Where required, we can solve applications either by the individual modification of standard components or by developing entirely new products.

To ensure complete suitability for your application, custom designs and fabrications are also delivered rapidly through local production.

#### Large Stock Holdings

Our large stock holding of standard components allows immediate delivery of guarding to allow you to get started without any delays. This also allows for changes in the design of the guarding should these be required during the installation.

#### Our Team

We deliver real value through an experienced project team and network of consultants, distributors and installers that provide:

- Formal hazard identification and risk assessment.
- Comprehensive on site product and application advice.
- Design drafting of customer specific configurations.
- · Project management.
- Mechanical and electrical installation.
- · Complete turn key project co-ordination.

## **Introduction & Content**



#### About Us

CellTec, through the development of our Zone Safety Systems range, specialise in providing safety guarding solutions which assist our customers in manufacturing their products safely whilst achieving maximum production and compliance with safety standards.

CellTec has been developing and producing the Zone Safety Systems range for over 10 years and enjoys a reputation as an innovation leader in safety technology for factory automation.

Our safety systems have been used in a widely diverse number of applications over the years. Our technical consultants work with you to develop the most effective and efficient solutions – whether this is achieved using standard products or an individually engineered solution.

#### **About Our System**

Our standard modular guarding system is supplied direct from stock. The patented post design allows unprecedented flexibility and rapid deployment. It combines perfectly with our hand rail system ensuring a uniform look across your plant.

Easy to specify, quick to install, reconfigurable and reusable.

We can also supply you with a complete range of accessories, including electrical and trapped key interlocks, light curtains and grids, safety relays and controllers, safety mats, warning beacons and sirens.

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## See more at zonesystems.com.au



#### Easy to Specify

Standardised dimensions allow for easy selection of components. In most applications the same panels can be used for fixed fence and doors, providing identical clearances, which allow changes to be made to the configuration during installation. Wall lengths are calculated by adding the panel widths plus 100mm per post.

Accessories are added to standard panels to convert them to access doors.

### Quick to Install

Posts and brackets are designed to come together without the need for any drilling or tapping. Simply slide brackets in the post profile then lock off in position. This method allows everything from interlock switches to sliding door tracks to be fitted easily.

Panels can freely rotate on the panel brackets to allow angled configurations and flexibility during installation.

The profile posts allow complete adjustment for uneven flooring.

#### Reconfigurable

As production requirements change, modifications and reconfiguration of the safety guarding is often required. The patented 'T' slot design of our posts makes this process quick and easy by enabling the interchange and reconfiguration of any panel, access point or attached component.

#### Reusable

The modular approach to guarding design allows the guarding to be reused and redeployed by enabling alterations to be easily managed.



#### Guarding Design and Ordering Assistance

- · Easy to specify part number system.
- Customer service and sales staff to assist in product specification.
- 3D models and AutoCAD blocks available for use in your drawings.
- Drafting services to assist in designing a solution that meets safety standards while ensuring minimal impact on production processes.
- · Full hazard identification and risk assessments.

### Drafting Service

Fax a sketch or email your AutoCAD plan view of your machinery and guard location and we will do the rest

Layout printouts are included with the shipment complete with an installation manual.

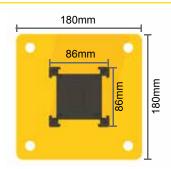




## See more at zonesystems.com.au

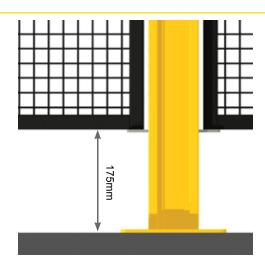
#### 'T' Slot Post

'T' Slot Posts have a cross section of 86mm by 86mm which provides excellent strength. The generous size contributes to the look of your installation. The posts have a 'T' slot on each face allowing panel brackets and accessories to be fitted to each face. The 'T' slot is 60mm x 7mm.



#### Floor Clearance

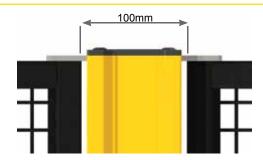
The floor clearance from the bottom of panels to the ground is 175mm, complying with safety standards AS4024.1802 (see Safety section).



#### Distance Between Panels

The 'T' slot post is 86mm in width and panel brackets add 14mm (7mm on each side) to the installation width. Post centres are exactly 100mm more than the panel width. The overall length of a guard is simply the sum of the panel widths plus 100mm per post.

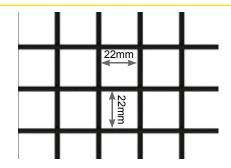
Panel and door clearances are the same so access door locations can be changed.

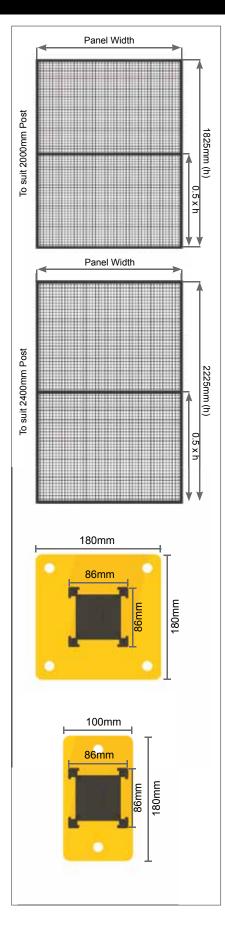


#### Mesh Aperture

Mesh Panels are constructed of 25mm x 25mm x 3mm welded mesh with an aperture of 22mm x 22mm, allowing our guarding to be located 120mm from hazards. (see Safety section for safety distances).

Other sizes available on request.





#### Heights and Widths

Guard heights should be chosen to ensure safety distances are maintained. Our standard guard height of 2000mm caters for nearly all applications.

Rather than using post centre distances, panels are specified according to their actual width and height. This allows the installer to measure the panels and relate them to the drawings and parts lists. This is also easier when working with small infill panels.

The panel height added to the ground clearance gives the guard height. The choice of panel widths will affect the rigidity of the guard and should be selected with the aim of ensuring adequate safety provisions for the required application.

Standard panels can be utilised either as fixed wall panels or as doors depending on the bracket and mounting components selected.

#### Foot Plate Sizing

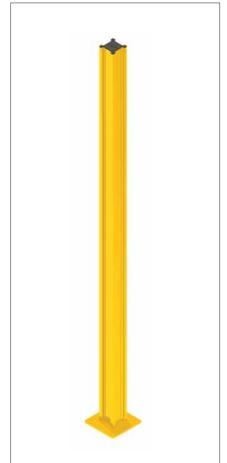
The mid mount, offset and corner post feet are 180mm by 180mm wide, while the narrow post foot is 180mm by 100mm wide.

Our footplates are generously sized to allow plenty of room when using large concrete drills. They are manufactured from 8mm steel plate for extra strength.

## **Standard Guard Posts**

## See more at zonesystems.com.au





#### **Product Description**

Posts are based on our unique aluminium profile that has been designed to provide a light weight, rigid section offering flexible mounting of components.

A 'T' slot on each post face provides mounting opportunities for panels, door kits, interlocks and accessories without special machining. It's use can be extended as a construction profile for the building of structures to further integrate the guarding.

#### **Product Features**

- 'T' slot on all four sides.
- · Durable powder coated finish.
- Choice of four different foot plates.
- Fitted plastic end cap.

- Modular system so it is quick and easy to install.
- 'T' slot design allows for easy mounting of locks, push buttons and other accessories.

## Standard Guard Posts

#### Technical data and order information

- Aluminium profile post and mild steel foot plate.
- Yellow powder coat finish.

- Comes with countersunk screws to fit foot plate to post.
- Trubolts for floor mounting of posts sold separately.

#### Standard Guard Posts

Height (mm)	Footplate	Description	Part no.
	Mid mount	Aluminium post, powder coated yellow	PSTM4
2000	Narrow	Aluminium post, powder coated yellow	PSTM2
	Offset mount	Aluminium post, powder coated yellow	PSTO
	Corner mount	Aluminium post, powder coated yellow	PSTC
	Mid mount	Aluminium post, powder coated yellow	PSTM4-2400
2400	Narrow	Aluminium post, powder coated yellow	PSTM2-2400
Offset	Offset mount	Aluminium post, powder coated yellow	PSTO-2400
	Corner mount	Aluminium post, powder coated yellow	PSTC-2400
As specified		Aluminium post powder coated yellow (foot plate specified separately)	APY-CS-YTBE

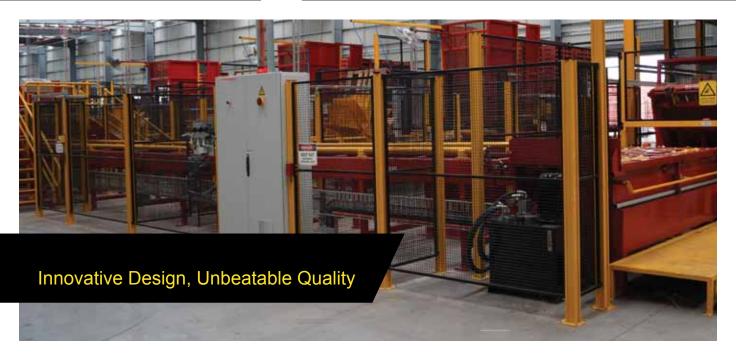
#### Foot & Nut Plates

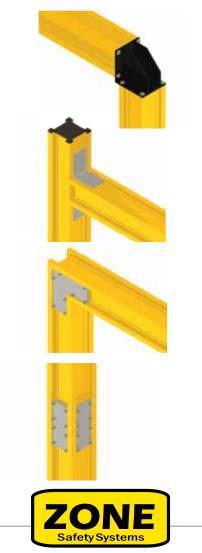
Item	Description	Part no.
Mid Mount Foot Plate	Standard centre mid mount foot plate	FPM4
Narrow Foot Plate	Narrow mount foot plate	FPM2
Offset Foot Plate	Offset mount foot plate, ideal for use where obstructions prevent a mid mount foot plate to be used	FPO
Corner Foot Plate	Corner mount footplate, ideal for guarding cell corners and areas where obstructions prevent a mid mount foot plate being used.	FPC
4 Bolt Nut Plate	Used to weld to steel platforms as a base plate for post installation (suit FPM4, FPO, FPC)	NP4
2 Bolt Nut Plate	Used to weld to steel platforms as a base plate for post installation (suit FPM2)	NP2

Item	Description	Part no.
Trubolt	12 x 75mm anchor bolt used to attach posts to concrete floors	TB1275
Slot nut	Used to assist mounting on 'T' slot posts	SN44
Post Brace	Used to increase post rigidity where there is an external load	PSTB

## **Post Connectors**

## See more at zonesystems.com.au





#### **Product Description**

Post connectors can be utilised for the extension of post lengths and construction of roofing structures to protect the top of machinery and enclose hazardous areas. Construction profile can also assist in the mounting of devices, such as lights, signals, sirens, scanners, sensors etc... By providing a easy mounting surface for our range of bracketry.

#### **Product Features**

- Made to easily slide down the face of our 'T' slot posts.
- No need to drill and tap, screws to tighten brackets in place are provided with kits.

#### **Customer Benefits**

 Uniform look across plants as the same profile can be used in the guarding post as well as extensions and construction of roofing structures.

## **Post Connectors**

#### Technical data and order information

Made from mild steel plate.

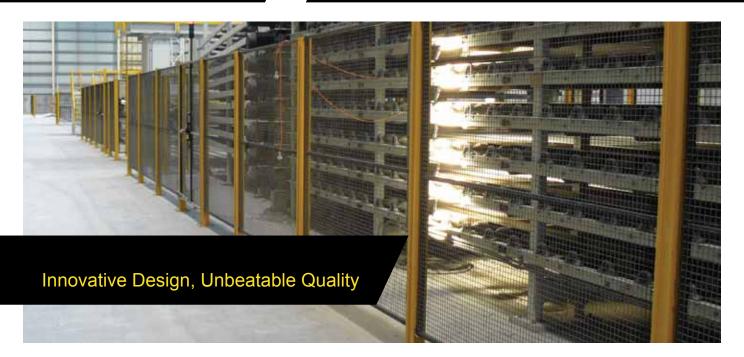
- Zinc plated (except CNB-AB90K powder coated black).
- Fasteners required to attach to profile post included.

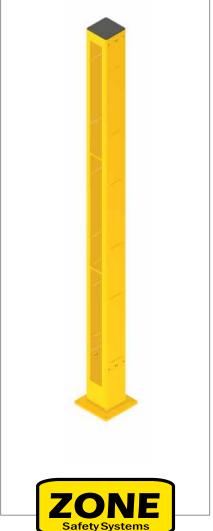
#### Connectors

Item	Description	Part no.
Corner Post End Joiner	Connects two post ends to make a right angled structure	CNB-AB90K
Right Angled Post-End Joiner Kit	Connects two post to make a T joint, allowing one post to be positioned at any point along another post	CNB-AICK
Right Angle Joiner Bracket Kit	Connects two post ends that have been mitre cut to 45 degrees	CNB-SP90K
Straight Joiner Bracket Kit	Connects two post lengths to create an extended post	CNB-SPK

## **Light Curtain Posts**

## See more at zonesystems.com.au





#### **Product Description**

Light curtain posts can be used instead of our standard posts to provide very rigid support for light curtains as well as protection against damage and accidental misalignment.

#### **Product Features**

- Comes with standard light curtain mounting brackets.
- Durable powder coated finish.
- Provides for easy attachment of our muting bars.

#### **Customer Benefits**

Protects expensive light curtain equipment from accidental damage from forklifts and other plant machinery.

## **Light Curtain Posts**

#### Technical data and order information

Post size: 125 x 125 x 4mm RHS.

- Yellow powder coated finish.
- 200mm x 200mm x 8mm mild steel foot plate welded

#### **Light Curtain Posts**

Height (mm)	Description	Part no.
2400	125x125x4 RHS with welded foot plate, powder coated yellow	PSTLC2400
2000	125x125x4 RHS with welded foot plate, powder coated yellow	PSTLC2000

#### Accessories

Item	Description	Part no.
Standard Light Curtain Mounting Kit	Set of mounts, one set required per post (may not suit all light curtain types and models)	LC-SM
Trubolt	12 x 75mm anchor bolt used to attach posts to concrete floors	TB1275

#### **Muting Bars**

Width (mm)	Description	Part no.
400	Standard muting bar kit, comprising of two muting bars (sensor rods not included)	MB400
1200	Long muting bar kit, comprising of two muting bars (sensor rods not included)	MB1200

#### Muting Bar Accessories

Item	Description	Part no.
Sensor Rod - Female	12mm rod for mounting of sensors and reflectors (suit MB400)	SR-F12
Sensor Rod - Male	12mm rod for mounting of sensors and reflectors (suit MB1200)	SR-M12



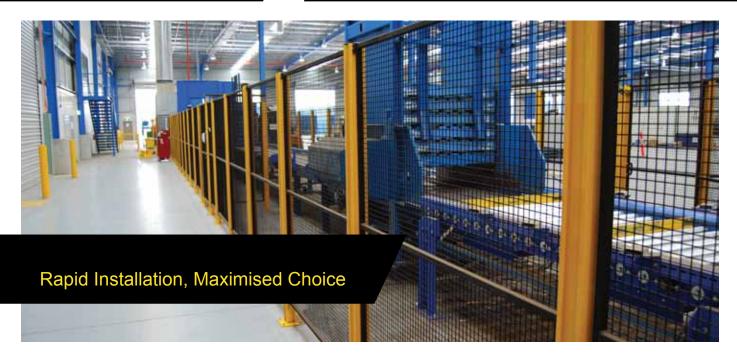
MB400 - 400mm Muting Bar with SR-F12 Sensor Rods

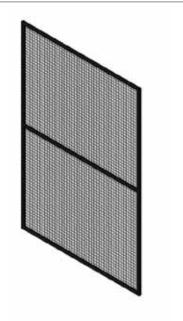


MB1200 - 1200mm Muting Bar with SR-M12 Sensor Rods

## Standard Weldmesh Panels

## See more at zonesystems.com.au





#### **Product Description**

Weldmesh panels suit most guarding applications. The panels provide long life and excellent visibility of industrial processes. Weldmesh panels are available in a wide range of standard stock sizes. While our manufacturing facilities allow for alterations and custom panel sizes and designs to be manufactured to your specified requirements.

#### **Product Features**

- The small mesh aperture of 25mm x 25mm allows for a close safety distance of 120mm.
- Durable powder coated finish.

- Excellent visibility of enclosed area allows for uninhibited management of processes while maintaining a high level of personal safety.
- The 120mm safety distance enables guarding to be placed close to hazards and other structures. Therefore it does not take up valuable floor space or obstruct movement of forklifts and personnel.



## Standard Weldmesh **Panels**

#### Technical data and order information

- Custom sizes available upon request.
- 25 x 25 x 1.6mm RHS frame.

- 25 x 25 x 3mm mesh.
- Black powder coated finish.

#### Weldmesh Panels

Height of Guarding (incl. ground clearance of 175mm)	2000mm	2400mm
Width (mm)	Part no.	Part no.
100	PNL100	PNL100-2225
200	PNL200	PNL200-2225
300	PNL300	PNL300-2225
400	PNL400	PNL400-2225
500	PNL500	PNL500-2225
600	PNL600	PNL600-2225
700	PNL700	PNL700-2225
800	PNL800	PNL800-2225
900	PNL900	PNL900-2225
1000	PNL1000	PNL1000-2225
1100	PNL1100	PNL1100-2225
1200	PNL1200	PNL1200-2225
1300	PNL1300	PNL1300-2225
1400	PNL1400	PNL1400-2225
1500	PNL1500	PNL1500-2225
1600	PNL1600	PNL1600-2225
1700	PNL1700	PNL1700-2225
1800	PNL1800	PNL1800-2225
1900	PNL1900	PNL1900-2225
2000	PNL2000	PNL2000-2225
2400	PNL2400	PNL2400-2225

Item	Description	Part no.
Panel Bracket Kit	Used to attach panel to 'T' slot posts	РВК
Panel Bracket Fixed Kit	Used for fixed attachment of panel to a single post	PBFK



PB - Panel Bracket

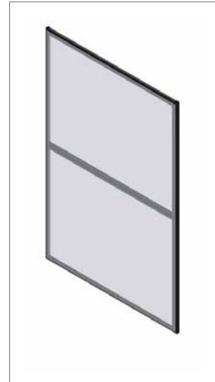


PBF - Fixed Panel Bracket

## Polycarbonate Panels

## See more at zonesystems.com.au





#### **Product Description**

Polycarbonate panels protect against flying particles, without obstructing vision of guarded area and machinery.

Polycarbonate panels are designed in a range of standard sizes, which will suit most applications.

Our drafting and manufacturing facilities allow for alterations and custom panel sizes and designs to be manufactured to your specified requirements.

#### **Product Features**

- Clear polycabonate providing unobstructed view of guarded area and machinery.
- Solid protection from projectiles that may cause injury to personnel and equipment.

#### **Customer Benefits**

 Ideal for situations that require clear and unobstructed vision of guarded area and machinery.



## Polycarbonate Panels

#### Technical data and order information

- 25 x 25 x 1.6 RHS frame.
- Black powder coated finish.

- 6mm clear polycarbonate.
- Anodised aluminium profile support frame for polycarbonate.

#### Polycarbonate Panels

Height of Guarding (incl. ground clearance of 175mm)	2000mm	2400mm
Width (mm)	Part no.	Part no.
100	PNLPC100	PNLPC100-2225
200	PNLPC200	PNLPC200-2225
300	PNLPC300	PNLPC300-2225
400	PNLPC400	PNLPC400-2225
500	PNLPC500	PNLPC500-2225
600	PNLPC600	PNLPC600-2225
700	PNLPC700	PNLPC700-2225
800	PNLPC800	PNLPC800-2225
900	PNLPC900	PNLPC900-2225
1000	PNLPC1000	PNLPC1000-2225
1100	PNLPC1100	PNLPC1100-2225
1200	PNLPC1200	PNLPC1200-2225
1300	PNLPC1300	PNLPC1300-2225
1400	PNLPC1400	PNLPC1400-2225
1500	PNLPC1500	PNLPC1500-2225
1600	PNLPC1600	PNLPC1600-2225
1700	PNLPC1700	PNLPC1700-2225
1800	PNLPC1800	PNLPC1800-2225
1900	PNLPC1900	
2000	PNLPC2000	

Item	Description	Part no.
Panel Bracket Kit	Used to attach panel to 'T' slot posts	PBK
Panel Bracket Fixed Kit	Used for fixed attachment of panel to a single post	PBFK



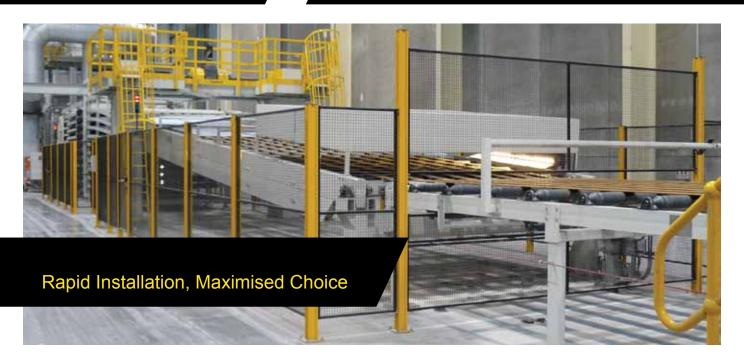
PB - Panel Bracket

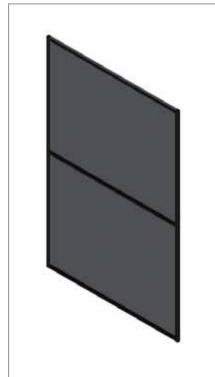


PBF - Fixed Panel Bracket

## **Steel Clad Panels**

## See more at zonesystems.com.au





#### **Product Description**

Steel Clad panels sit within an steel RHS frame, and are an ideal solution for areas where small parts may be projected from a welding or other hazardous area.

Steel Clad panels are designed in a range of standard sizes, which will suit most applications. While our drafting and manufacturing facilities allow for alterations and custom panel sizes and designs to be manufactured to your specified requirements.

#### **Product Features**

- Solid screen from hazardous areas and equipment.
- Protection from projectiles that may cause injury to personnel and equipment.
- Durable powder coated finish.
- Protection from weld flash.

#### **Customer Benefits**

 Ideal use in the welding industry, to protect personal from welding lights and sparks.



## **Steel Clad Panels**

#### Technical data and order information

- 25 x 25 x 1.6mm RHS frame.
- 0.9mm steel cladding.

Black powder coated finish.

#### Steel Clad Panels

Height of Guarding (incl. ground clearance of 175mm)	2000mm	2400mm
Width (mm)	Part no.	
100	PNLSC100	PNLSC100-2225
200	PNLSC200	PNLSC200-2225
300	PNLSC300	PNLSC300-2225
400	PNLSC400	PNLSC400-2225
500	PNLSC500	PNLSC500-2225
600	PNLSC600	PNLSC600-2225
700	PNLSC700	PNLSC700-2225
800	PNLSC800	PNLSC800-2225
900	PNLSC900	PNLSC900-2225
1000	PNLSC1000	PNLSC1000-2225
1100	PNLSC1100	PNLSC1100-2225
1200	PNLSC1200	PNLSC1200-2225
1300	PNLSC1300	PNLSC1300-2225
1400	PNLSC1400	PNLSC1400-2225
1500	PNLSC1500	PNLSC1500-2225
1600	PNLSC1600	PNLSC1600-2225
1700	PNLSC1700	PNLSC1700-2225
1800	PNLSC1800	PNLSC1800-2225
1900	PNLSC1900	PNLSC1900-2225
2000	PNLSC2000	PNLSC2000-2225

Item	Description	Part no.
Panel Bracket Kit	Used to attach panel to 'T' slot posts	PBK
Panel Bracket Fixed Kit	Used for fixed attachment of panel to a single post	PBFK



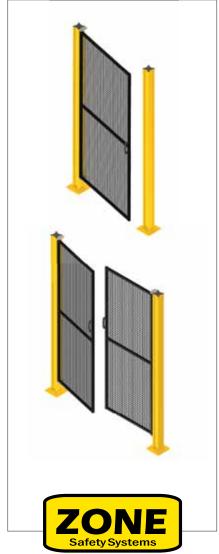


PBF - Fixed Panel Bracket

## **Hinge Doors**

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as hinged doors by simply applying door kits in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Single hinge doors come with durable rubber stoppers, to prevent doors from swinging through.
- Dual hinge doors come with a drop bolt for each door, to secure doors in place.

- Provide simple and easy access to guarded areas.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.

#### Technical data and order information

Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).

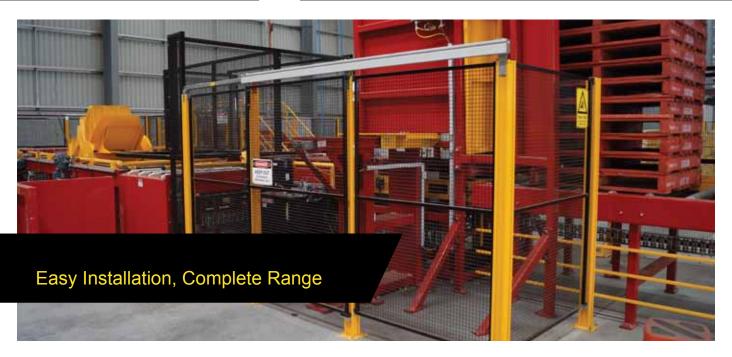
#### Door Kits (Panels sold separately)

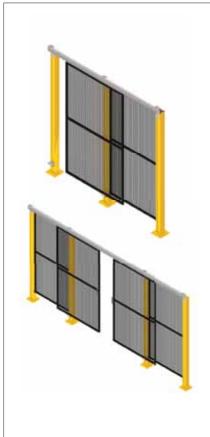
Item		Description		Part no.			
Hinge Do	oor Kit	Convert panel to a sin	gle hinge door	HDK			
Kit Inclusi	ons						
Item	Hinge Bracket Kit	Hinged Door Stop Kit	Door Handle	End Cap: 25 x 25 RHS			
Part no.	HBK	HDSK	DH	EC-PNL			
Qty Incl.	1	1	1	2			
Image							
Hinge Do	oor Spring Kit	Convert panel to a sin	gle self closing hinge door	HDSK			
Kit Inclusi	ons						
Item	Hinge Bracket Spring Kit	Hinged Door Stop Kit	Door Handle	End Cap: 25 x 25 RHS			
Part no.	HBSK	HDSK	DH	EC-PNL			
Qty Incl.	1	1	1	2			
Image	C HERRITHIAN OF THE PARTY OF TH						
Dual Hin	ge Door Kit	Convert panel to a dua	al hinge door	HDK2			
Kit Inclusi	ons						
Item	Hinge Bracket Kit	Hinged Door Drop Bolt	Door Handle	End Cap: 25 x 25 RHS			
Part no.	HBK	HDDB	DH	EC-PNL			
Qty Incl.	2	2	2	4			
Image							

Item	Description	Part no.
Drop Bolt	Heavy duty drop bolt for doors	DB

## Sliding Doors Single Track

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as sliding doors by simply applying door kits and track in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with easy glide trolley wheels, providing a smooth in track performance.
- In track cushioned end stops mean panels will always remain safely in the track.

- Provide simple and easy access to guarded areas.
- Sliding doors are ideal in areas were the use of hinge doors is obstructed.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.

#### Technical data and order information

- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).
- Track is supplied separately (see item listing below).
- Track length specified on order.

#### Door Kits (track and panels sold separately)

Item			Description			Part no.	
Sliding Door Kit - Single			Convert panel to single sl	iding door		SDK-S	
Kit Inclusion	ons						
Item	End Cap - Sliding Door Track	Sliding Door Cushioned End Stop	Sliding Door Trolley	Sliding Door Single Track Bracket	le Sliding Door Single Guide		Door Handle
Part no.	EC-SD	SDCES	SDT	SDSTB	SDSG		DH
Qty Incl.	2	2	2	3	2		1
Image		ची	•				
Sliding D	oor Kit - Single Track	C = 7 LIMME	Convert two panels to dua rack	al sliding door on a s	ingle	SDK-ST2	
Kit Inclusion	ons						
Item End Cap - Sliding Cushioned E		Sliding Door Cushioned End Stop	Sliding Door Trolley	Sliding Door Single Track Bracket			Door Handle
Part no.	EC-SD	SDCES	SDT	SDSTB	SDSG		DH
Qty Incl.	2	4	4	4	2		2
Image		ची	9	1	4	9	

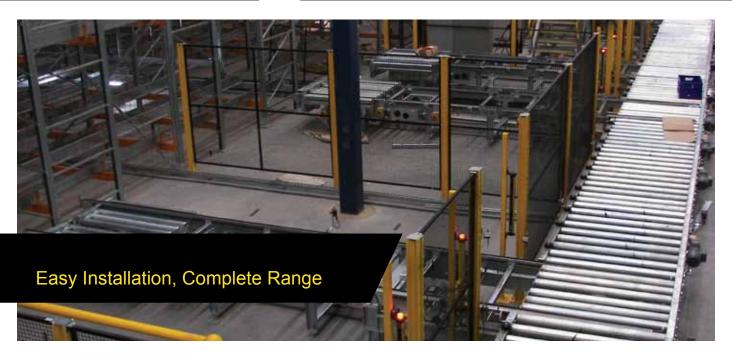
#### Sliding Track

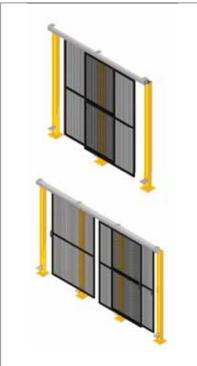
Item	Description	Part no.
Sliding Door Track	For use with standard and underslung door kits (length as specified)	SDT4080

Item	Description	Part no.
Pneumatic Cylinder Kit	Pneumatic cylinder with bracket kit for sliding door	SD-PC

## Sliding Doors Double Track 2 & 3 Doors

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as sliding doors by simply applying door kits and track in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with easy glide trolley wheels, providing a smooth in track performance
- In track cushioned end stops mean panels will always remain safely in the track.

- Provide simple and easy access to guarded areas.
- Sliding doors are ideal in areas were the use of hinge doors is obstructed.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.



#### Technical data and order information

- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).
- Track is supplied separately (see item listing below).
- Track length specified on order.

Door Kits (track and panels sold separately)

Item			Description			Part no.		
Sliding D	oor Kit - Double Trac	k - 2 Door		Convert two panels to dual sliding door, with panels on separate tracks				
Kit Inclusion	ons							
Item End Cap - Sliding Door Cushioned E Stop					Sliding Door Double Track Bracket Sliding Door Double Guide		Door Double	Door Handle
Part no.	EC-SD	SDCES		SDT	SDDTB	SDDG		DH
Qty Incl.	4	4		4	3	3		2
Image		T		9		4		
Sliding D	oor Kit - Double Trac	k - 3 Door			ual sliding door, with o panels on the othe		SDK-DT3	
Kit Inclusion	ons							
Item	Item End Cap - Sliding Door Cushioned E Stop				Sliding Door Double Track Bracket Sliding Door Doubl Guide		Door Double	Door Handle
Part no.	EC-SD	SDCES		SDT	SDDTB	SDDG		DH
Qty Incl.	4	6		6	4	4		3
Image		T		9		4		

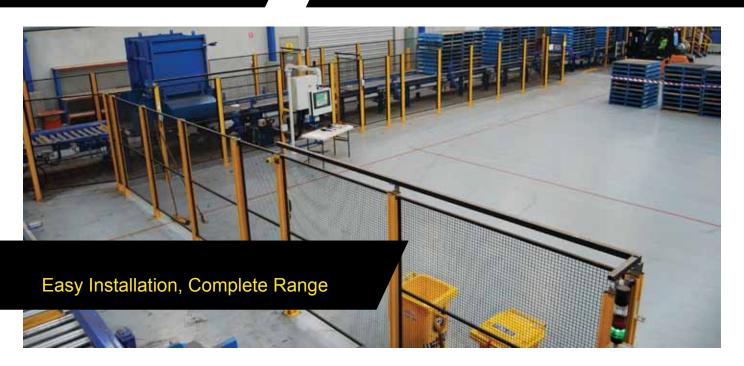
#### Sliding Track

Item	Description	Part no.
Sliding Door Track	For use with standard and underslung door kits (length as specified)	SDT4080

Item	Description	Part no.
Pneumatic Cylinder Kit	Pneumatic cylinder with bracket kit for sliding door	SD-PC

## Sliding Doors Double Track 4 Doors

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as sliding doors by simply applying door kits and track in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with easy glide trolley wheels, providing a smooth in track performance.
- In track cushioned end stops mean panels will always remain safely in the track.

- Provide simple and easy access to guarded areas.
- Sliding doors are ideal in areas were the use of hinge doors is obstructed.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.



#### Technical data and order information

- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).
- Track is supplied separately (see item listing below).
- Track length specified on order.

#### Door Kits (track and panels sold separately)

Item			Desc	Description			Part no.	
Sliding Door Kit - Double Track - 4 Door			Conve per tra	ert four panels to slic				
Kit Inclusion	ons							
Item	End Cap - Sliding Door Track	g Sliding Door Cushioned En Stop		Sliding Door Trolley	Sliding Door Double Sliding Track Bracket Guide		Door Double	Door Handle
Part no.	EC-SD	SDCES		SDT	SDDTB	SDDG		DH
Qty Incl.	4	8		8	5	5		4
Image		TO		9	4	4		

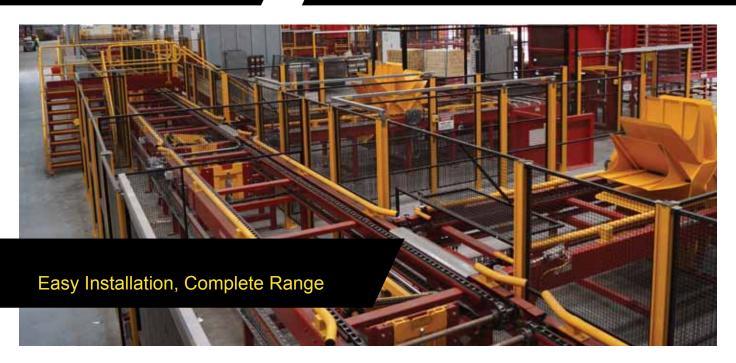
#### Sliding Track

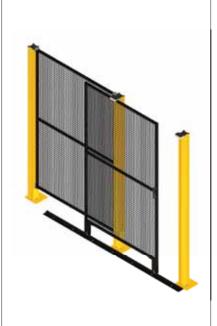
Item	Description	Part no.
Sliding Door Track	For use with standard and underslung door kits (length as specified)	SDT4080

Item	Description	Part no.
Pneumatic Cylinder Kit	Pneumatic cylinder with bracket kit for sliding door	SD-PC

## Sliding Door Floor Track

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as floor track sliding doors by simply applying a door kit and track in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with moulded guide wheels, providing a smooth and stable on track performance.
- Durable rubber stoppers mean door panels will always remain safely on the track.

- Ideal in situations where overhead track is not suitable.
- Ensures unobstructed access to forklifts and plant vehicles.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.



#### Technical data and order information

- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).
- Track is supplied separately (see item listing below).
- Track length specified on order.

Door Kits (track and panels sold separately)

Item		Description	Description	
Sliding D	oor Kit - Floor Track	Convert single panel to t	Convert single panel to track on floor sliding door	
Kit Inclusi	ons			
Item	Sliding Door Single Top Guide	Sliding Door Floor Wheel Kit	Door Handle	Sliding Door Stop
Part no.	SDSTG	SDFWK	DH	SDS
Qty Incl.	2	1	1	2
Image				0 0

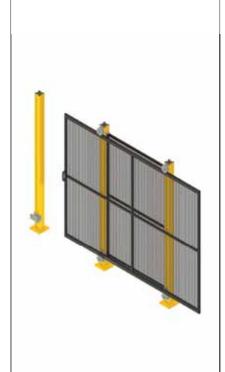
#### Sliding Track

Item	Description	Part no.
Sliding Door Floor Track	For use with floor track door kits (length as specified)	SDFT

# Sliding Door Cantilever

## See more at zonesystems.com.au





#### **Product Description**

Modified panels are used in combination with a cantilever door kit to become cantilever sliding doors.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with heavy duty machined guide wheels, providing a smooth and easy glide performance.
- Stopping tabs are welded to cantilever door panels to ensure they cannot glide off wheels.

- Ideal in situations where overhead or floor track is not suitable.
- Ensures unobstructed access to forklifts and plant vehicles.



## Sliding Door Cantilever

#### Technical data and order information

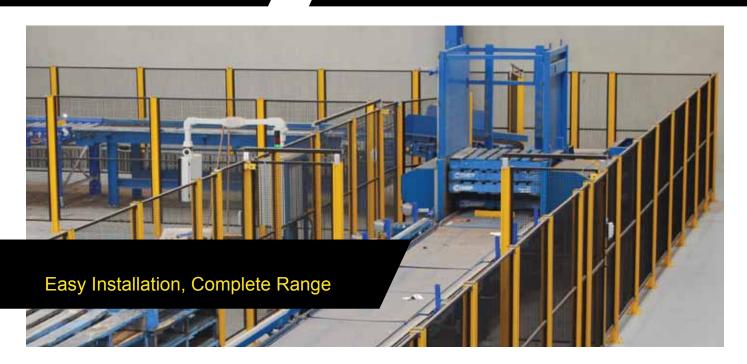
- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification). Note: modified panels are used.
- Panels must be a minimum of 11/2 times the size of the opening.

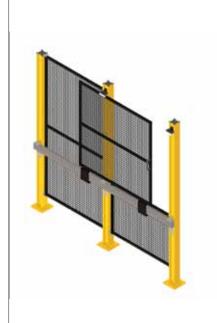
#### Door Kits (panels sold separately)

Item Description		Description			Part no.
Sliding D	oor Kit - Cantilever Convert single panel to trackless cantilever door		or	SDK-C	
Kit Inclusions					
Item	Sliding Door Cantilever Wheel Kit	Sliding Door	Cantilever Guide	Door H	andle
Part no.	SDCWK	SDCG		DH	
Qty Incl.	1	1		1	
Image	66				

## Sliding Door Underslung

## See more at zonesystems.com.au





#### **Product Description**

Panels can be utilised as underslung sliding doors by simply applying door kits and track in place of panel brackets.

Our versatile components can be combined with either standard or customised panels ensuring the right solution for your requirements.

#### **Product Features**

- Come with easy glide trolley wheels, providing a smooth in track performance.
- In track cushioned end stops mean panels will always remain in the track.

- Provide simple and easy access to guarded areas.
- Underslung doors can be used in areas where partial or infrequent access to guarded a area is required
- Ideal in situations where production line samples are required for quality assurance, without completely inhibiting the production process.
- Mechanical or electrical interlocks can be easily applied to create a secure monitored solution.



# Sliding Door Underslung

#### Technical data and order information

- Panels are not supplied with kits and must be purchased separately (refer to Panel sections for panel specification).
- Track is supplied separately (see item listing below).
- Track length specified on order.

#### Door Kits (track and panels sold separately)

Item			Description		Part no.	Part no.	
Sliding D	oor Kit- Underslu	ng	Convert single panel to underslung track sliding door		r SDK-U	SDK-U	
Kit Inclusion	ons						
Item	End Cap - Sliding Door Track	Sliding Door Cushioned End Stop	Sliding Door Trolley	Sliding Door Single Track Bracket	Sliding Door Single Top Guide	Door Handle	Sliding Door Underslung Bracket Kit
Part no.	EC-SD	SDCES	SDT	SDSTB	SDSTG	DH	SDUBK
Qty Incl.	2	2	2	3	2	1	1
Image		TO TO	9		9		tt

## Sliding Track

Item	Description	Part no.
Sliding Door Track	For use with standard and underslung door kits (length as specified)	SDT4080

Item	Description	Part no.
Pneumatic Cylinder Kit	Pneumatic cylinder with bracket kit for sliding door	SD-PC

## **Powered Doors**

## See more at zonesystems.com.au

## Uses & Benefits

Zone Safety Systems' powered doors are available for the automatic opening and closing of gates and doors in both horizontal and vertical opening applications.

These doors can be used in a range of situations including:

- Doors that are required to be closed after entry or exit.
- Areas in which doors are prone to not being closed properly.
- Reduction on entrance and exit times to high passage areas.
- AGV or Forklift loading and unloading stations.

# Powered Operation

The powdered doors are available with two types of opening mechanisms:

- An intelligent control system utilizing a SIL 3 rated Variable speed drive, and a PLC, provides a solution that utilizes torque feedback for collision detection and safe shut down. An operator panel allows push button operation, or optionally a touch screen station can be integrated. Optionally an additional Safety PLC (SIL 3) can be added to allow autonomous operation and integration into automated production system.
- A pneumatic cylinder system utilising either the Zone Safety Systems' 'T' slot aluminium post design or a linear bearing provides an accurate and low-friction guide for the doors

Each system is uniquely designed for the operational requirements of the application. For further information please contact us.



## **Powered Doors**

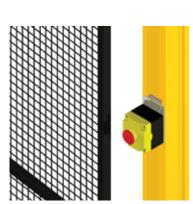


## Control Station & Interlock Brackets

## See more at zonesystems.com.au









#### **Product Description**

Interlock and control station brackets are designed to slide down T-slot post and be fixed into place with out the need for drilling or tapping, this saves time and money when installing.

We have a range of standard brackets in stock, but can also design and manufacture to suit the interlocks or control stations required for your project or company standard.

#### **Product Features**

- Designed to slide down into position down 'T' slot post.
- Tighten into place without the need for drilling or tapping of post or bracket.

- We have a range of either in stock or pre-designed standard brackets to suit a variety of interlocks.
- We can make custom brackets to suit your interlock or application needs.
- The ability to slide brackets freely down the 'T' slot post and tighten into place means you can adjust and reposition interlocks and control stations for easy and flexible installation.

# **Control Station** & Interlock Brackets

# Technical data and order information

Zinc plated or powder coated.

- Complete with mounting kit.
- To suit customer specified interlock and control stations

# **Control Station Brackets**

Item	Part no.
Bracket to suit 1 hole control station (incl. E-stop station), zinc plated	CS-M1
Bracket to suit 2 hole control station, zinc plated	CS-M2
Bracket to suit 3 hole control station, zinc plated	CS-M3
Bracket to suit 4 hole control station, zinc plated	CS-M4

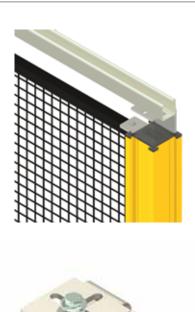
# Interlock Mounting Brackets

Item	Description	Part no.
Interlock Mounting Bracket	To suit interlock as specified, zinc plated or powder coated	IMB

# **Cable Ducting**

# See more at zonesystems.com.au





Cable Ducting is made from steel and comes in standard 3000mm lengths. Joiners are then used in order for ducting to be extend along the required path. Using cable duct brackets the ducting can be placed along the top of posts, ensuring that cables and electrical wiring is safely organised and away from possible hazards.

### **Product Features**

- Slotted channel allows cable and wiring to be passed into the ducting at any position along the guarding.
- Custom lengths can be cut as required.

### **Customer Benefits**

- Protects wiring from becoming tangled and damaged.
- Cables can be laid in and retrieved from the ducting without treading through an enclosed system or hazardous area.

# **Cable Ducting**

# Technical data and order information

Cable ducting is available in both zinc plated or in a durable black powder coated finish.

# Cable Duct

Item	Description	Part no.
Cable Duct - Galvanised	3000mm long galvanised slotted cable ducting	CD3000G
Cable Duct - Black	3000mm long black powder coated cable ducting	CD3000B

### Accessories

Item	Description	Part no.
Cable Duct Bracket	Use to attach cable duct to posts	CDB
Joiner Bracket Straight	Use to connect sections of cable duct together	CDJS
Duct Cover	3000mm long grey PVC cover for cable ducting	CD3000C
Cable Duct End Cap	Use to close off the ends of cable ducting	EC-CD

# **Hand Railing**

# See more at zonesystems.com.au





### **Product Description**

Ensure pedestrian safety in areas of forklift use with easy to assemble modular hand railing.

Hand Railing can be used in the guarding of low risk areas,

Though 1000mm is the standard post height used for our hand railing any height 'T' slot post can be used as required.

### **Product Features**

- Stops on swing gates ensure they do not swing into or out of the guarded area as specified.
- Durable powder coated finish.

### **Customer Benefits**

 'T' slot system allows integration of full height guarding with hand railing, for a uniform look throughout your plant or factory.

# Technical data and order information

Yellow powder coated finish.

- Trubolts for floor mounting of posts sold separately.
- Rail kits include all brackets and mounting fasteners.

# **Posts**

Height (mm)	Footplate	Description	Part no.
	Mid mount	Aluminium post, powder coated yellow	PSTM4-1000
1000	Narrow	Aluminium post, powder coated yellow	PSTM2-1000
1000	Offset mount	Aluminium post, powder coated yellow	PSTO-1000
	Corner mount	Aluminium post, powder coated yellow	PSTC-1000
As specified		Aluminium post powder coated yellow (foot plate specified separately)	APY-CS-YTBE

### Rail Kits

Length (mm)	Description	Part no.
735	Railing kit for 800mm post centres, powder coated yellow	HRK-800
835	Railing kit for 900mm post centres, powder coated yellow	HRK-900
935	Railing kit for 1000mm post centres, powder coated yellow	HRK-1000
1035	Railing kit for 1100mm post centres, powder coated yellow	HRK-1100
1135	Railing kit for 1200mm post centres, powder coated yellow	HRK-1200
1235	Railing kit for 1300mm post centres, powder coated yellow	HRK-1300
1335	Railing kit for 1400mm post centres, powder coated yellow	HRK-1400
1435	Railing kit for 1500mm post centres, powder coated yellow	HRK-1500
1535	Railing kit for 1600mm post centres, powder coated yellow	HRK-1600
1635	Railing kit for 1700mm post centres, powder coated yellow	HRK-1700
1735	Railing kit for 1800mm post centres, powder coated yellow	HRK-1800
1835	Railing kit for 1900mm post centres, powder coated yellow	HRK-1900
1935	Railing kit for 2000mm post centres, powder coated yellow	HRK-2000

# **Swing Gates**

Width (mm)	Description	Part no.
800	Swing door kit, powder coated yellow	HRSDK-800
	Swing door kit, self closing hinge, powder coated yellow	HRSDK-800-SC
000	Swing door kit, powder coated yellow	HRSDK-900
900	Swing door kit, self closing hinge, powder coated yellow	HRSDK-900-SC
1000	Swing door kit, powder coated yellow	HRSDK-1000
	Swing door kit, self closing hinge, powder coated yellow	HRSDK-1000-SC

# **Bollards & Barriers**

# See more at zonesystems.com.au





# **Product Description**

Protect valuable equipment and stock from forklift impact damage with heavy duty bollards and barriers.

Bollards are suited to both domestic and commercial applications, providing protection for property and personnel against vehicle impacts and collisions.

# **Product Features**

- Bollards and barriers come with welded footplates and in a durable powder coated finish.
- Custom sizes can be manufactured as required.

### **Customer Benefits**

- Forklift barriers are ideal in minimising damage caused to machinery and equipment by forklifts and other mobile plants.
- Save time and money on costly repairs.

# **Bollards & Barriers**

# Technical data and order information

- Yellow powder coated finish.
- Welded on footplates.

Trubolts for floor mounting are sold separately (see item listing below).

# Bollards

Height (mm)	Internal Diameter (mm)	Description	Part no.
900	65	3.6mm thick wall, welded footplate, powder coated yellow	NB65
1000	100	4.5mm thick wall, welded footplate, powder coated yellow	NB100
1200	150	4.88mm thick wall, welded footplate, powder coated yellow	NB150

### **Barriers**

Width (mm)	Description	Part no.
1000	Forklift barrier, powder coated yellow	FB

### Accessories

Item	Size	Description	Part no.
Trubolt	12 x 75mm	Anchor bolt used to attach bollards / barriers to concrete floors (suit NB65, NB100 & FB)	TB1275
Trubolt	16 x 105mm	Anchor bolt used to attach bollards to concrete floors (suit NB150)	TB16105

# Safety Standards Assessing Risk

# See more at zonesystems.com.au

### AS 4024.1301 Iterative Process to Achieve Safety

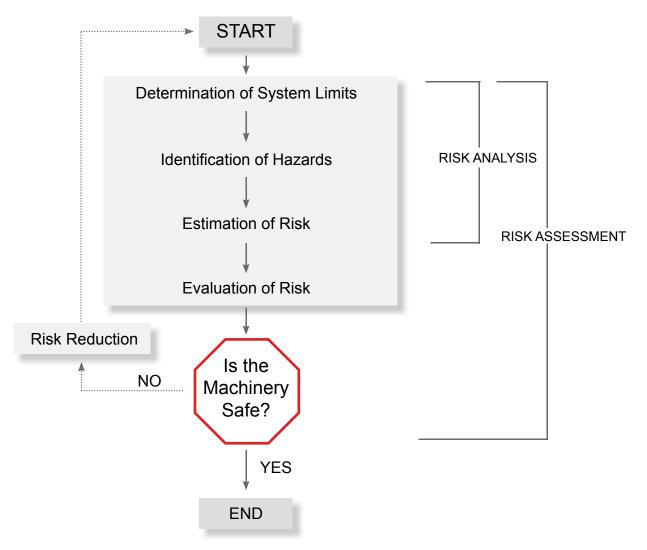


FIGURE 1: Iterative Process to Achieve Safety

### Assessing Risk to Achieve Workplace Safety

To achieve a safe working environment risk assessment is performed. The logical process to be followed to insure the elimination of hazards associated with machinery is shown in Figure 1.

### Risk assessment involves:

- · Risk analysis (Determination of machinery limits, identification of hazards, estimation of risk)
- Risk Evaluation

When the analysis and evaluation is completed judgements can then be made on the safety of machinery.

# Safety Zones: Reaching (AS 4024.1801)

Selecting an appropriate safety distance for reaching upwards or over protective structures should be based on the conclusions of the risk assessment conducted. The risk assessment is based on the foreseeable probability of the an injury occurring and the severity of that injury.

### Reaching upwards

Low risks are identified by the height of the danger zone (h) being more than 2500mm. High risks are identified by the danger zone (h) being 2700mm or more.

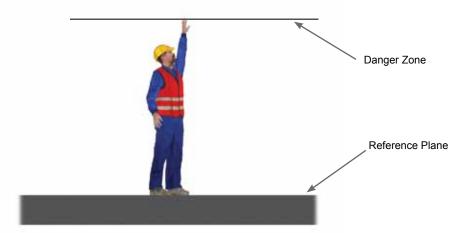
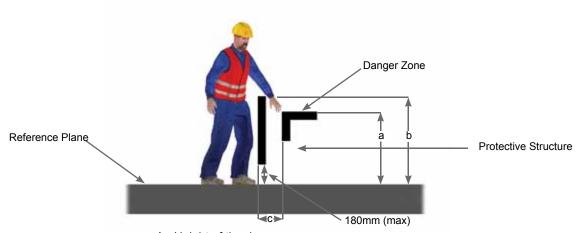


FIGURE 2: Danger Zone - Reaching Upwards

### Reaching over protective structures

The relationship between points a, b and c are used in determining the safety distance when reaching over protective structures. The Table 1 indicates the appropriate distance in relation to the relationship of the three points.



- A Height of the danger zone
- b Height of the protective structure
- c Horizontal distance to danger zone

FIGURE 3: Danger Zone - Reaching Over

# Safety Standards High Risk Distances

# See more at zonesystems.com.au

### High Risk Reach Over Safety Distances

If either values a, b or c are between two values in Table 1 then the value giving the higher level of safety should be used.

Hairbt of				Heigh	t of protec	tive structu	re, (b)			
Height of danger	1000	1200	1400	1600	1800	2000	2200	2400	2500	2700
zone (a)				Horizont	al distance	to danger	zone (c)			
2700	-	-	-	-	-	-	-	-	-	-
2600	900	800	700	600	600	500	400	300	100	-
2400	1100	1000	900	800	700	600	400	300	100	-
2200	1400	1300	1100	900	800	600	400	300	-	-
2000	1400	1300	1100	900	800	600	400	-	-	-
1800	1500	1400	1000	900	800	800	-	-	-	-
1600	1500	1400	1000	900	800	500	-	-	-	-
1400	1500	1400	1100	900	800	-	-	-	-	-
1200	1500	1400	1100	900	700	-	-	-	-	-
1000	1500	1400	1000	800	-	-	-	-	-	-
800	1500	1300	900	600	-	-	-	-	-	-
600	1400	1300	800	-	-	-	-	-	-	-
400	1400	1200	400	-	-	-	-	-	-	-
200	1200	900	-	-	-	-	-	-	-	-
0	1100	500	-	-	-	-	-	-	-	-

<sup>1.</sup> Protective structures less than 1000mm in height are not included because they do not sufficiently restrict movement of the body, or toppling over the structure.

TABLE 1: Safety Distances where High Risk Exists

### Example:

If the height (a) of the danger zone is 1500mm and the horizontal distance of the protective structure from the danger zone (c) is 700mm then the height of the structure must be 1800mm.

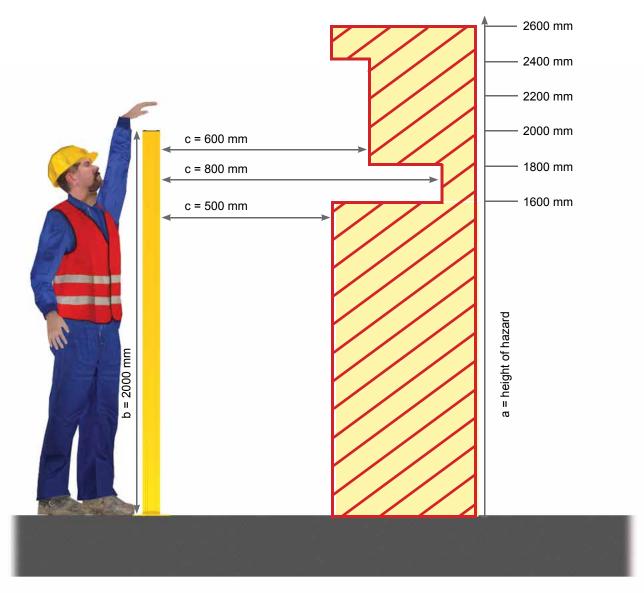
<sup>2.</sup> Protective structures lower than 1600mm should not be used without additional safety measures.

<sup>3.</sup> For danger zones above 2700mm, either the height of the danger zone must be ≥ 2700mm or additional safety measures are to be used.

# Safety Standards High Risk Distances

# High Risk Reach Over Safety Distances

This graphic shows hazard location relative to the height of the protective structure when reaching over the protective structure. This graphic does not apply to reaching under the guarding..



- a Height of Danger Zone
- b Height of protective structure
- c Horizontal distance to danger zone



Hazard

# Safety Standards Low Risk Distances

# See more at zonesystems.com.au

# Low Risk Safety Distances

If either values a, b or c are between two values in Table 2 then the value giving the higher level of safety should be used.

				Height of p	protective st	ructure, (b)						
Height of danger	1000	1200	1400	1600	1800	2000	2200	2400	2500			
zone (a)	Horizontal distance to danger zone (c)											
2500	-	-	-	-	-	-	-	-	-			
2400	100	100	100	100	100	100	100	100	-			
2200	600	600	500	500	400	350	250	-	-			
2000	1100	900	700	600	500	350	-	-	-			
1800	1100	1000	900	900	600	-	-	-	-			
1600	1300	1000	900	900	500	-	-	-	-			
1400	1300	1000	900	800	100	-	-	-	-			
1200	1400	1000	900	500	-	-	-	-	-			
1000	1400	1000	900	300	-	-	-	-	-			
800	1300	900	600	-	-	-	-	-	-			
600	1200	500	-	-	-	-	-	-	-			
400	1200	300	-	-	-	-	-	-	-			
200	1100	200	-	-	-	-	-	-	-			
0	1100	200	-	-	-	-	-	-	-			

<sup>1.</sup> Protective structures less than 1000mm in height are not included because they do not sufficiently restrict movement of the body, or toppling over the structure.

TABLE 2: Safety Distances where High Risk Exists

### Example:

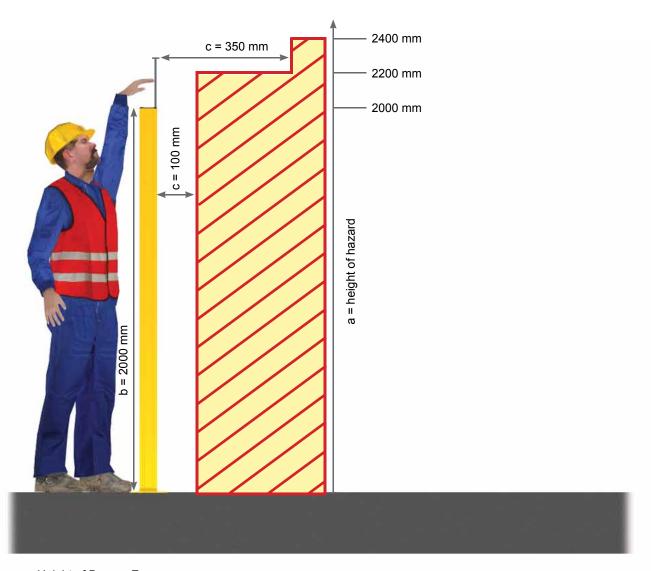
If the height (a) of the danger zone is 1500mm and the horizontal distance of the protective structure from the danger zone (c) is 700mm then the height of the structure must be 1800mm.

<sup>2.</sup> For danger zones above 2500mm the height of the danger zone must be  $\geq$  2500mm.

# Safety Standards Low Risk Distances

# Low Risk Reach Over Safety Distances

This graphic shows hazard location relative to the height of the protective structure when reaching over the protective structure. This graphic does not apply to reaching under the guarding.



- a Height of Danger Zone
- b Height of protective structure
- c Horizontal distance to danger zone



- Hazard

# Safety Standards Crushing Zones

# See more at zonesystems.com.au

# Minimum Gaps to Avoid Crushing: AS 4024.1803

Crushing zones are characterised by hazards in which persons are exposed to a crushing hazard. Crushing hazards are generated it either two moving parts are moving towards one another or one moveable part is moving towards a fixed part.

Part of Body	Minimum Gap, a (mm)	Illustration
Body	≥ 500	a
Head	≥ 300	a
Leg	≥ 180	a
Foot	≥ 120	a

a - Gap between the two moving parts, or one moving and one fixed part.

TABLE 3: Safety Distances to avoid crushing zones

Part of Body	Minimum Gap, a (mm)	Illustration
Toes	≥ 50	a
Arm	≥ 120	a
Hand Wrist Fist	≥ 100	a
Finger	≥ 25	a

a - Gap between the two moving parts or one moving and one fixed part.

TABLE 3: Safety Distances to avoid crushing zones (cont...)

# Safety Standards Upper Limbs

# See more at zonesystems.com.au

# Reaching through openings

Table 4 shows the safety distances for reaching through protective structures. For openings more than 120mm safety distances for reaching over protective structures is to be used. Slot openings less than 65mm the thumb serves as a stopper and the safety distance can then be reduced to 200mm

Part of Body	Illustration	Opening	Safety Dista	nce (sr)	
,		. 0	Slot	Square	Round
Finger tip		e ≤ 4	≥2	≥ 2	≥ 2
		4 < e ≤ 6	≥ 10	≥ 5	≥ 5
Finger up to knuckle joint or hand		6 < e ≤ 8	≥ 20	≥ 15	≥ 5
		8 < e ≤ 10	≥ 80	≥ 25	≥ 20
		10 < e ≤ 12	≥ 100	≥ 80	≥ 80
		12 < e ≤ 20	≥ 120	≥ 120	≥ 120
		20 < e ≤ 30	≥ 850	≥ 120	≥ 120
Arm up to junction with shoulder	N T T T T T T T T T T T T T T T T T T T	30 < e ≤ 40	≥ 850	≥ 200	≥ 120
		40 < e ≤ 120	≥ 850	≥ 850	≥ 850

e - Side dimension of a square opening or the narrowest diameter of a slot opening

TABLE 4: Safety Distances for reaching through openings

# Reaching around openings

Table 5 show the safety distance required for reaching around openings of protective structures.

Limitation of movement	Safety distance, (sr)	Illustration (mm)
Limitation of movement only at shoulder and armpit	≥ 850	e - ≤ 120 sr
Arm supported up to elbow	≥ 550	e - ≤ 120 A
Arm supported up to wrist	≥ 230	e - ≤ 120 ≥ 620  A
Arm and hand supported up to knuckle joint	≥ 130	e - ≤ 120 sr ≥ 720

- A Range of the movement of the arm.
- e Diameter of round, square or slot opening.

TABLE 5: Safety Distances for reaching around openings

# Safety Standards Lower Limbs

# See more at zonesystems.com.au

### Safety Distance for Lower Limbs: AS 4024.1802

Table 6 shows the safety distances required to prevent access by lower limbs hazards. Slot openings with dimension e greater than 180mm or square/round openings with diameters greater than 240mm are required to have access for the whole body.

Part of Body	Illustration	Opening	Safety Distance Slot	Square or Round
Toe Tip		e ≤ 5	0	0
Toe		5 < e ≤ 15	≥ 10	0
		15 < e ≤ 35	≥ 80¹	≥ 25
Foot		35 < e ≤ 60	≥ 180	≥ 80
		60 < e ≤ 80	≥ 650 <sup>2</sup>	≥ 180
Leg (toe to knee)		80 < e ≤ 95	≥ 1100³	≥ 650 <sup>2</sup>
Leg (toe tip to crotch)		95 < e ≤ 180	≥ 1100³	≥ 1100³
		180 < e ≤ 240	not permitted	≥ 1100³

e side dimension of a square opening or the narrowest diameter of a slot opening

- 1. If the slot opening is  $\leq$  75mm in length then the distance can be reduced to  $\geq$  50mm.
- 2. Value corresponds to the Leg, toe tip to knee.
- 3. Value corresponds to Leg, toe tip to crotch.

TABLE 6: Safety Distances for Lower Limbs

# See more at celltec.com.au









# ABB

- Drives
- Pump Control
- Micro Drives
- Soft Starters
- Contactors
- **Pilot Devices**









# Segi Biz

- ABS terminal boxes
- Aluminium terminal boxes
- Push button boxes
- Terminal strips









### Renu

- Expandable PLC's
- Text / Touch panels
- Keypad / Touch HMI
- Protocol converters
- I/O Modules





# CellTec LED Warning Lights

- Forklift warning lights
- Pedestrian caution lights
- Vehicle entering/ exiting warning lights





# Macron Dynamics

- Single & Multi Axis **Linear Actuators**
- Belt & Screw Driven Actuators







# Edco - Vacuum Technology

- Multi-stage pumps
- Single stage pumps
- Air amplifiers
- Transfer tubes
- Bellows cups









# Cables & Connectors

- Connectors
- Distribution boxes
- Cables
- **Splitters**
- Cable spool



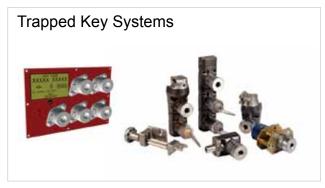




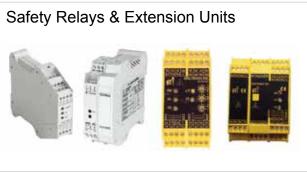
### Kübler

- Incremental encoders
- Absolute encoders
- Inclinometers
- Counters
- **Process Controllers**

# Safety Interlocks











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