Door Safety Risk Assessment Guide

For Eradicating Door Finger Trapping Risk Areas & Fire Door Misuse

If you require assistance with your risk assessment survey call the **Safety Assured Advice Line on +44 (0)1708 855777** 0900-1750 GMT, or leave a message. Importantly you could use our certified survey and fitting service which is supplied at cost and therefore is not a profit making service.

Where are the door finger trapping danger zones?

Hinge Cavity (HC)

The area inside the hinge is the most hazardous zone. The large exposed cavity combined with the enormous pressure exerted by the door closing [a guillotine effect of 32,000lbs psi] is where most common finger trapping accidents occur with the most severe injuries. This area of the door should be protected in all cases except those mentioned below.

Hinge Pin side (HP)

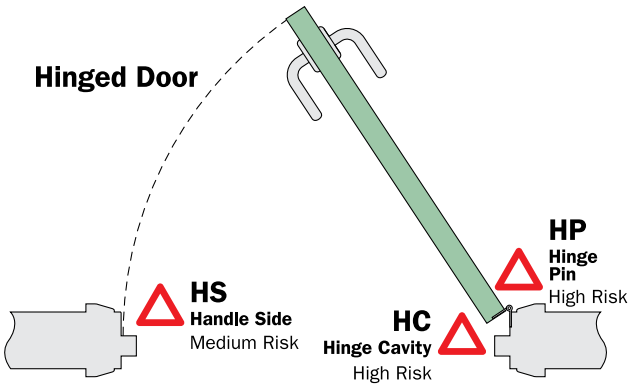
Although a smaller gap than the hinge cavity side, the Hinge Pin side should be protected where there is easy access.

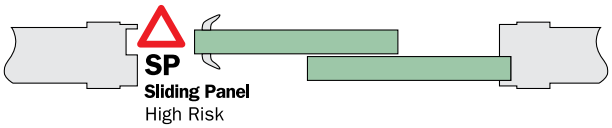
Handle Side (HS)

Accidents can occur on the handle side where the door meets the frame. This can happen when the door closes too fast or a draft takes hold of the door and it slams shut.

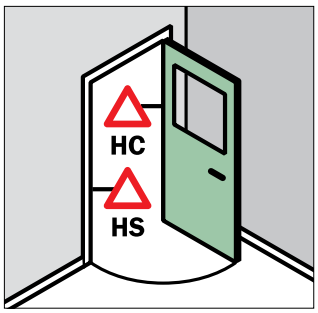
Sliding Panel (SP)

The area where a sliding door edge meets the frame is a hazard and should be protected in all cases.





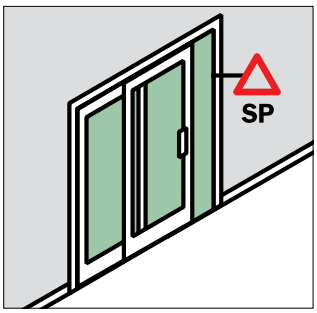
Which risk areas to protect?



Door with opening restricted to 90° by wall, furniture or door stop.

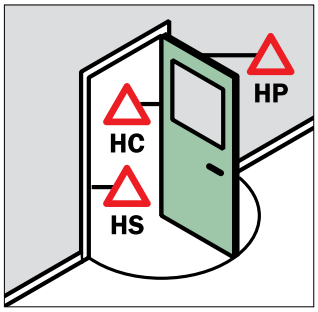
△ High Risk (Essential)
Hinge Cavity (HC)

△ Medium Risk (Discretional*)
Handle Side (HS)



Sliding doors. Outer or inner sliding panel.

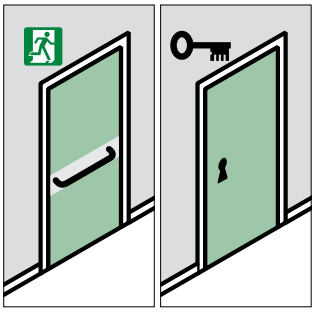
△ High Risk (Essential)
Slide Panel (SP)
both sides of each door



Door with opening unrestricted up to 180°.

△ High Risk (Essential)
Hinge Cavity (HC)
Hinge Pin side (HP)

△ Medium Risk (Discretional*)
Handle Side (HS)



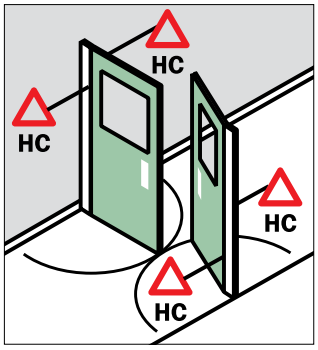
Fire exit door – kept closed
(Only opened in event of an emergency).

⊘ Low risk

Cupboard door – kept locked at all times.

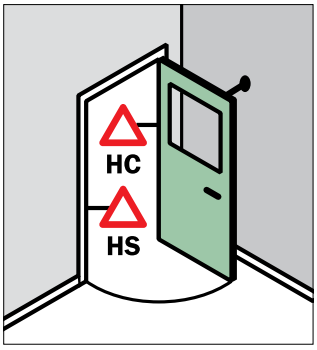
⊘ Low risk

Not essential to fit door safety device



Pivot hinge doors with opening unrestricted up to 180° (Typically corridor doors).

△ High Risk (Essential)
Hinge Cavity (HC)
both sides of each door



Doors constantly held open on an automatic door release system.

△ Medium Risk (Discretional*)
Hinge Cavity (HC)
Hinge Pin side (HP)

Apply the same principle shown in the examples above to glass and toilet cubicle doors.

*Based on usage.

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Which product to order?

Hinge Cavity (HC) Finger Protector®

Check the door type

There are two basic Finger Protector® hinge cavity products for:

Standard Doors (HC) or Large (HCL)
Conventional doors with standard butt, rising butt or pivot hinges, including glass.

Non Standard Doors (HC-N)
All other non standard door and frame types including PVCu, Crittall, steel, glass, aluminium, non-standard pivot hinge, bi-folding doors etc.

Check the door size

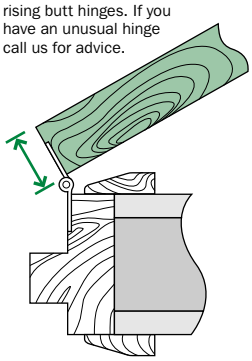
Most doors can be protected with a single Finger Protector® Hinge Cavity **(HC/HCL)** shield section, however the unique (patent) piggy-back design allows the shield section to be extended safely to fit any door size.

Open the door as far as it will go to measure the door thickness and determine the maximum opening angle. Use the table below to see if the shield section needs to be extended. If you prefer you can restrict the door opening angle with a door stop etc. as an alternative to extending the shield.

Standard Door thickness	Maximum door opening angle up to 90°	up to 135°	up to 180°
up to 33mm	1 x HC	1 x HC	1 x HC
up to 45mm	1 x HC	2 x HC + 1 x HCL	2 x HC + 1 x HCL
up to 60mm	1 x HC	2 x HC + 1 x HCL	2 x HC + 1 x HCL
up to 100mm	2 x HC + 1 x HCL	2 x HCL	2 x HCL

This guide is for standard butt hinged doors as shown in the diagram.

Large 2 shield combinations are very rare.
Ask our advice when ordering this item.



Fits all standard and rising butt hinges. If you have an unusual hinge call us for advice.

Hinge Pin (HP) Finger Protector®

The Hinge Pin side **(HP)** Finger Protector® is supplied in one size to fit all hinged doors – except large parliament hinges etc. These however can be shielded, call for advice.

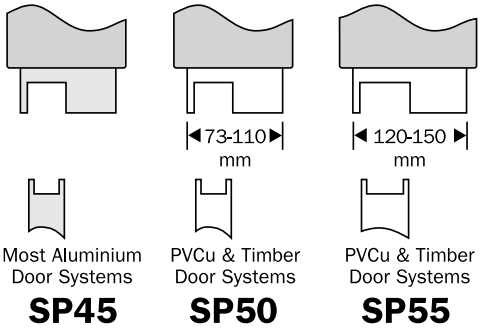
Slam Stop™ Handle Side (HS) Finger Protector®

The safest device available to protect fingers from a slamming door whilst allowing the door to fully close. Alternative products that block full door closure are a hazard in the event of a fire. The Slam Stop™ Handle Side **(HS)** system is supplied in one size to fit nursery/domestic doors and doors not using a door closer.

Slide Safe™ Sliding Panel (SP) Finger Protector®

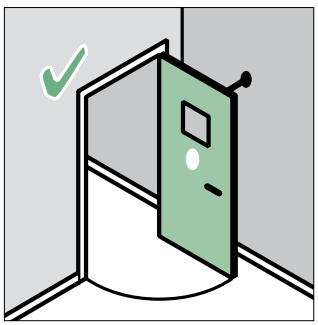
Slide Safe™ has been designed primarily for external two-panel in-line sliding door systems, either left-hand or right-hand opening. Slide Safe™ is not intended for use with 'tilt and slide' or 'lift and slide' door systems.

For aluminium sliding door systems doors use 'SP45'. For PVCu or Timber sliding door systems measure the overall width of the frame and specify 'SP50' for door frames 73-110mm wide and 'SP55' for frames 120-150mm wide.

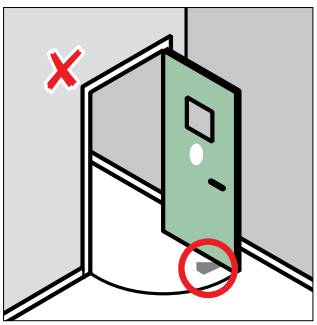


All products are supplied with complete fitting instructions.

Fire Doors – Safe options where the door is held open

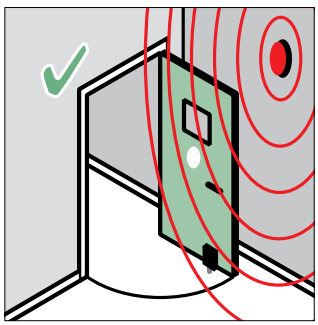


Automatic door release system
No risk where installed.



Door stop (wedge)
High risk. In the event of a fire this relies on someone remembering to release the door or delayed evacuation.

Door stop (object)
High risk. In the event of a fire this relies on someone remembering to release the door or delayed evacuation.



Dorgard™ – door release system
No risk where installed. The low cost solution that doesn't require wiring into alarm system. Activated by alarm sound wave sensor to release door.

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The risk assessment survey

To prepare for the survey you will require:

1 Pen

2 Tape Measure or Measuring Guide (see left)
To check door thickness

3 Door Labels
These are available on request from Safety Assured Limited or use small plain labels to number and apply to each door. Position label adjacent to the risk and visible when door is closed, also out of reach of young children.

4 Risk Assessment Survey Forms
Make a sufficient number of photocopies of the Risk Assessment Survey Form (or print from the PDF file supplied if applicable).

Examine every door and complete the form by carefully itemising each risk area, safety product and colour against the door number. In the example shown below 'Door 1' requires a Hinge Cavity Standard Finger Protector® in white **(HC-WHI)** and a Hinge Pin Finger Protector® **(HP).**

Survey form example

Site Name/Address: *Westpark School*		
Westpark Road, Newtown, Newshire NT12 3AB		
Survey completed by: *J. R. Danson*	Date: *25th April 2013*	Telephone No: *01234 567890*
Approved by: *K. Anderson*	Date: *1st May 2013*	Sheet: *1* of *4*

Colours							
WHI	White	**GRY**	Grey	**BEE**	Beech	**MAH**	Mahogany

	Hinge Cavity (HC)					Hinge Pin (HP)	Handle Side (HS) (HS)	Slide Panel (SP)			Fire Dorgard (DG)
	Standard	Large	Non Standard	Standard Extended	Colour use code above i.e. WHI for white	One Size (White)	One Size (White)	Size 1 (White)	Size 2 (White)	Size 3 (White)	One Size (Black)
Door No.	**HC**	**HCL**	**HC-N-**	**HC-X-**		**HP**	**HS**	**SP45**	**SP50**	**SP55**	**DG**
1	*1*				*WHI*	*1*					
2	*1*				*WHI*						*1*
3			*1*		*GRY*	*1*					
4		*1*			*WHI*				*1*		
5							*1*				

Note regarding scale on left-hand edge:
If this page is printed from an Adobe Acrobat PDF file ensure that 'page scaling' is set to 'none'.
Page scaling will have the effect of changing the measure.

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Door Safety Risk Assessment Survey Form

Refer to the Risk Assessment Guide before completing this form

SAFETY assured™ ACCIDENT PREVENTION

Site Name/Address:		
Survey completed by:	Date:	Telephone No:
Approved by:	Date:	Sheet: of

For price quotation fax this form to: **01708 855 125**
or copy and post to address below.

Colours	**WHI** White	**GRY** Grey	**BEE** Beech	**MAH** Mahogany

	Hinge Cavity (HC)					**Hinge Pin (HP)**	**Handle Side (HS)**	**Slide Panel (SP)**			**Fire Dorgard™ (DG)**
	Standard	Large	Non Standard	Standard Extended	Colour **use code above i.e. WHI for white**	One Size (White)	One Size (White)	Size 1 (White)	Size 2 (White)	Size 3 (White)	One Size (Black)
Door No.	**HC**	**HCL**	**HC-N-**	**HC-X-**		**HP**	**HS**	**SP45**	**SP50**	**SP55**	**DG**

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