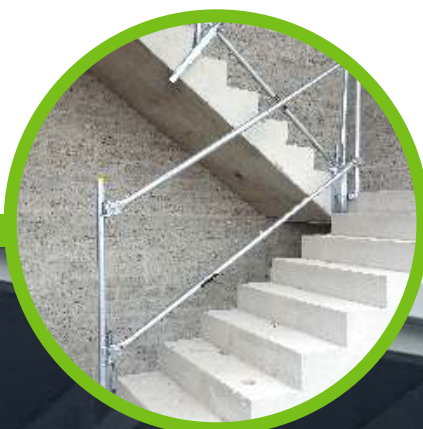


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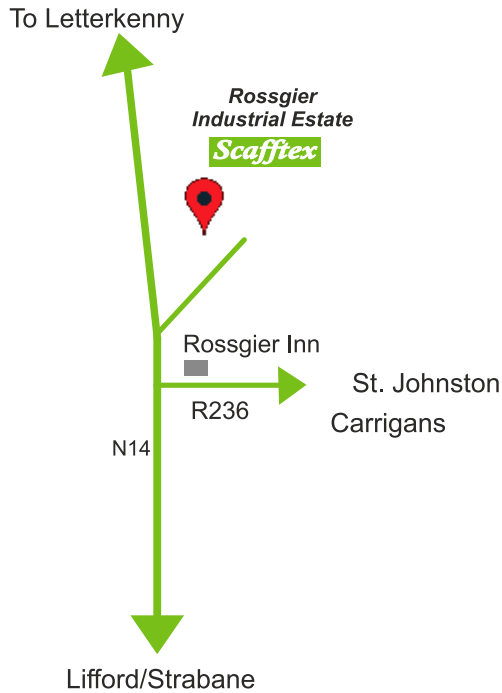


S-Guard

BS EN 13374
CLASS A 

Edge Protection systems are selected primarily based on the gradient of the surface for which they are to provide protection. The performance requirements for the various Classes are detailed within the Standard BS EN 13374:2013

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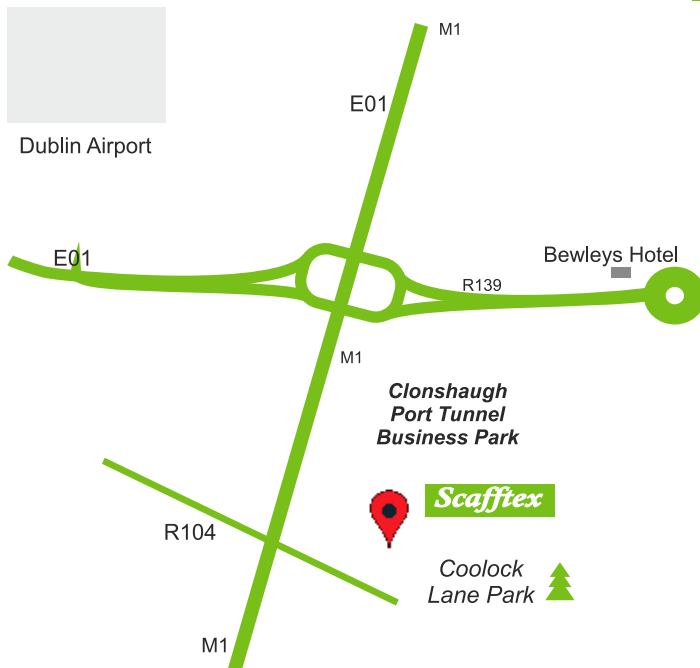
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The fixing methods for the types of edge protection will vary dependent on the application:

APPLICATIONS	CLASS A	CLASS B	CLASS C	FIXING METHOD
Bridge decks				Drilled Socket / clamped
Concrete frames				Drilled Socket / clamped Compression / friction posts
Steel frames				Bolted / clamped Compression / friction posts
Formwork decks				Clamped
Timber frame				Special
Stairways				Bolted / clamped / inserted
Flat Roofs (up to 10°)				Counterweighted / bolted
Sloping surfaces (up to 30°)				Bolted / clamped
Steeply sloping surfaces (over 30°)				Bolted / clamped

**DURING ERECTION AND DISMANTLING OF
EDGE PROTECTION, OPERATIVES AND
PERSONNEL MUST WEAR FALL ARREST
PROTECTION AT ALL TIMES.**

BS EN 13374: 2013

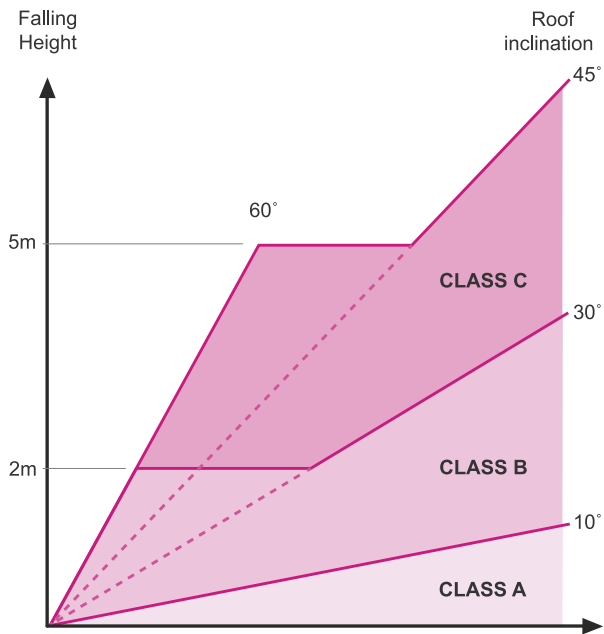
Temporary Edge Protection Systems

The standard for temporary edge protection systems

Class A

Provides protection to flat surfaces and slopes generally up to 10°. It provides resistance to static loads and is based on the requirements to support a person leaning against, walking beside, and possibly stumbling against the edge protection.

Edge Protection Classifications within BS EN 13374: 2013

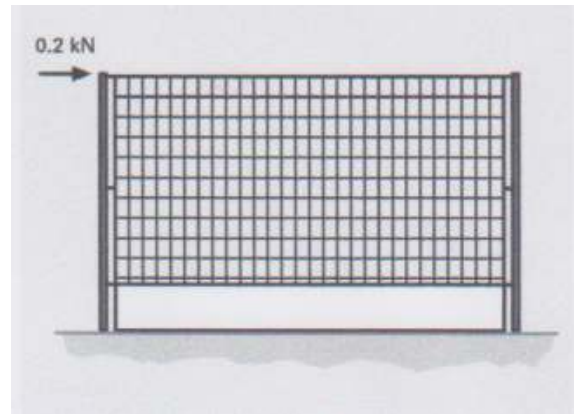
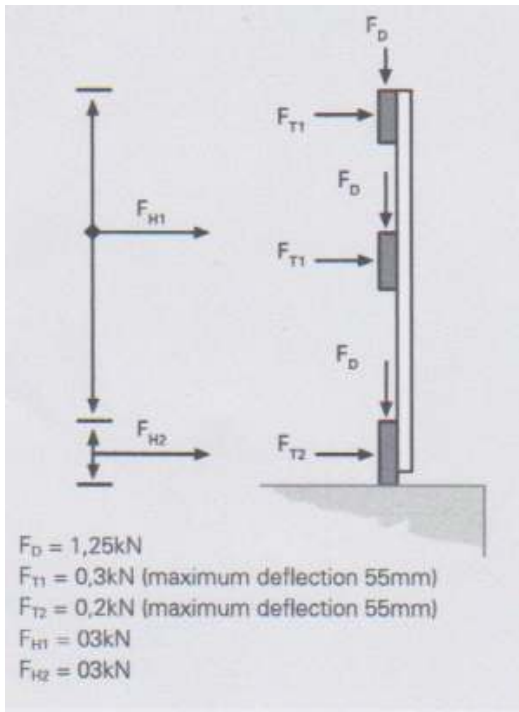


The above graph indicates the normal expected application range for the different classes of edge protection. It appears in an informative annex to BS EN 13374: 2013 and as such, compliance with the graph is not a requirement of the standard. There is therefore a degree of freedom left to select classes and systems for more shallow slopes than those indicated within the graph, where the specific hazard identification and risk assessment might suggest the use of a Class with a steeper gradient capacity.

Further clarification of the detailed classification requirements can be found within the Standard, BS EN 13374: 2013.

S Guard is class A only.

Extracts from BS EN 13374:



Loads parallel to the guardrail

The edge protection system and any of its components, except the toeboard, shall be able to withstand a horizontal load of 0,2 kN in its worst position

Loads perpendicular, horizontal and vertical, to the system

FD Load FD shall act downwards within an angle of +/- 100 to the face of the edge protection system, anywhere along the top edge of the guardrails and toeboards.

F11 Force applied to meet deflection requirements (applied to guardrails and posts perpendicular to the edge of the protection system in the outward direction and downwards parallel to the edge protection system)

F12 Force applied to meet deflection requirements (applied to toeboards)

FH1 Ultimate Limit State point load force applied to meet strength requirements, and shall act perpendicular to the edge protection system in the outward direction

FH2 Ultimate Limit State point load force applied to toeboard

SOCKET BASE

SE004

1.5kg



Socket Base

1. Drill anchor hole 20mm to accommodate M16 Anchor
2. Holes to be no less than 200mm in from the edge of slab
3. Make sure the hole is free from debris prior to inserting the anchor
4. Anchors must at all times be flush with the slab
5. Expand the anchor with the setting tool
6. Screw in the socket base to anchor and tighten with adjustment tool

1.2m SAFETY POST

SE003

5kg

1.2m Safety Post

(Positioned up to 2.4m centres)

Insert post into the socket base

twist 360 degrees to lock into position



2.6m GUARD BARRIER

SE001

21.60kg

1.3m GUARD BARRIER

SE002

12.50 kg



1.3m/2.6m Guard Barriers

1. Important guard barriers must always be fitted to the inside of the safety post
(See opposite illustration)
2. Once barrier is in position the locking bracket must be closed to the vertical position
(See opposite illustration)



DROP IN ANCHOR M16

TE009 Drop in anchor m16 (x25)
2.20 kg

TE010 Drop in anchor m16 (Single)
0.10 kg



M16 SETTING TOOL

TO009 SETTING TOOL M16
0.60 kg



**SPARE SOCKET
BASE
STUD**

SE010 .2kg

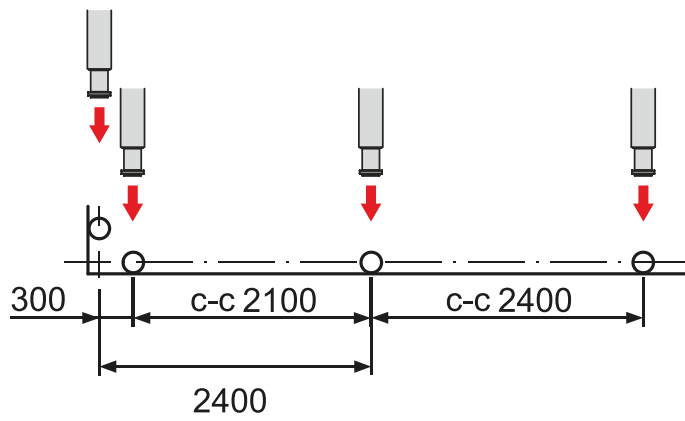


**SOCKET BASE
ADJUSTMENT
TOOL**

SE018

INSTALLATION

Anchor being installed will depend on base material available
i.e. the strength & thickness of concrete



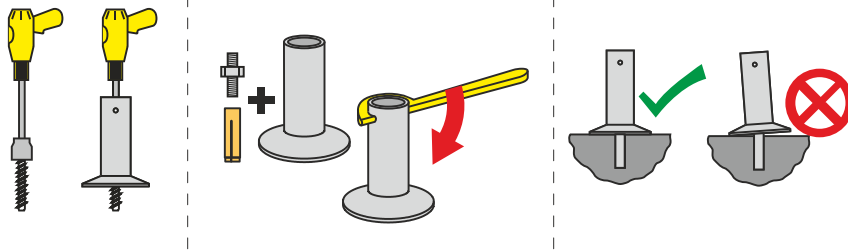
Drill anchor hole
Please note distance of drilling points

Insert M16 anchor

Secure anchor using

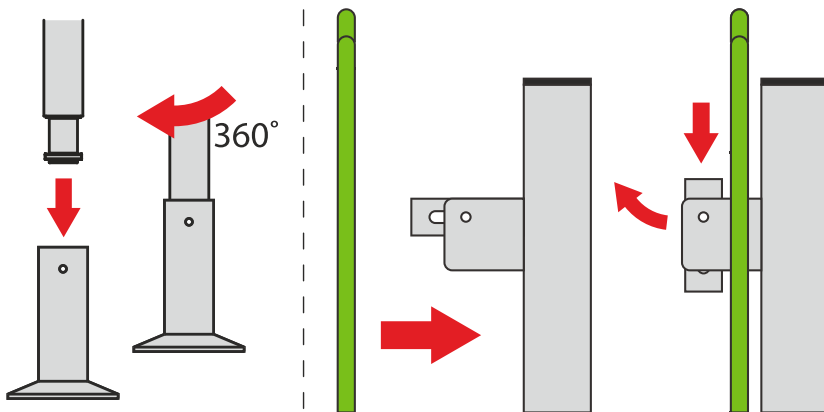
Fix socket base into the anchor

Tighten Socket base using S-Guard tool



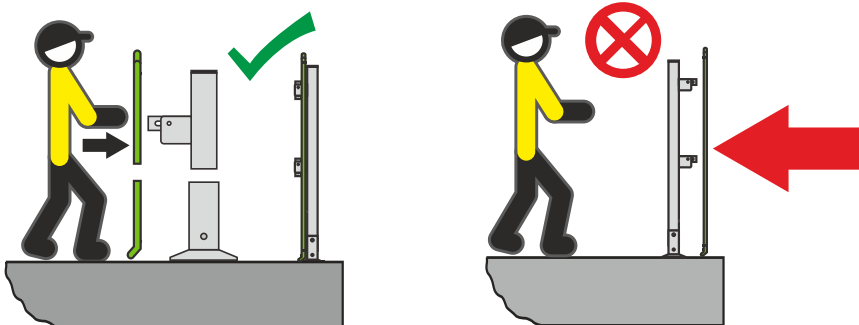
Insert safety post into tightened socket base, & twist to lock

Place guard barrier onto locking latches on the safety posts & lock into position



Please note:

barrier must always be on the 'inside' of the safety posts as illustrated above



Please note: S-Guard Safety Barriers are NOT designed for anchorage / clipping-off of safety harnesses or fall arrest devices

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EDGE
PROTECTION

MULTI SLAB CLAMP

SE005

10.5kg

Multi Slab Clamp

1. This clamp can be used both vertically and horizontally for varied use of applications i.e. concrete slabs, bridges etc...
2. Adaptable from 100mm – 600mm
3. Fully compatible with the S-guard safety post and barriers
4. Clamp to be fixed transversely and plumb. Tighten jack nut with a hammer until solid
5. Fix socket base to clamp using socket bases stud into designated holes
6. Position safety post into socket base and fix guard barriers as previous



ADJUSTABLE STAIRCASE CLAMP

SE006

8.2kg

Stair Case Clamp

1. Can be used on both concrete and steel stairs
2. Fits most staircase designs
3. Fixed to both right and left sides
4. Adjustment from 20mm – 550mm
5. Erected as previous clamps to accommodate safety post
6. Make sure to always tighten the clamp properly
7. Use in conjunction with link bar



STAIRCASE ADJUSTABLE LINK BAR

SE009

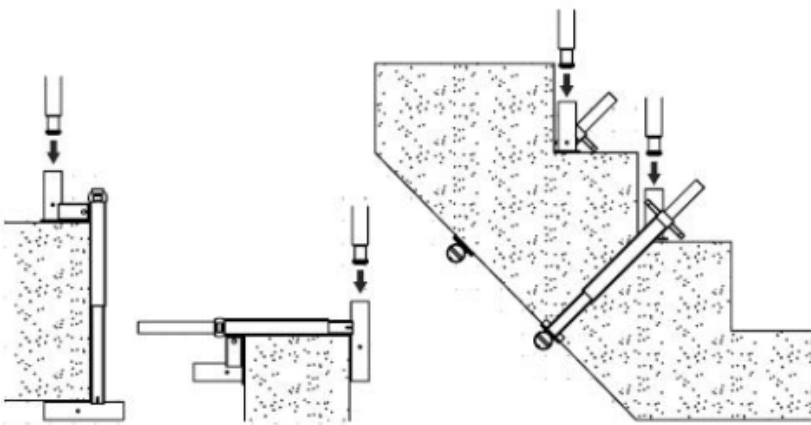
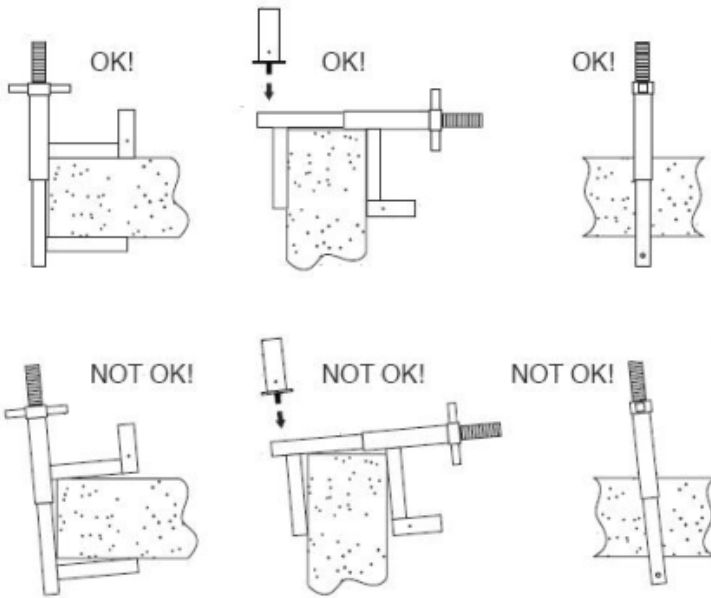
Adjustable Link Bar

1. To be used with staircase clamp and safety post
2. Adjustment from 1.5m to 2.5m
3. Can also be used in shifts and opening with the S-guard wall bracket
4. Always lock telescopic stop screw

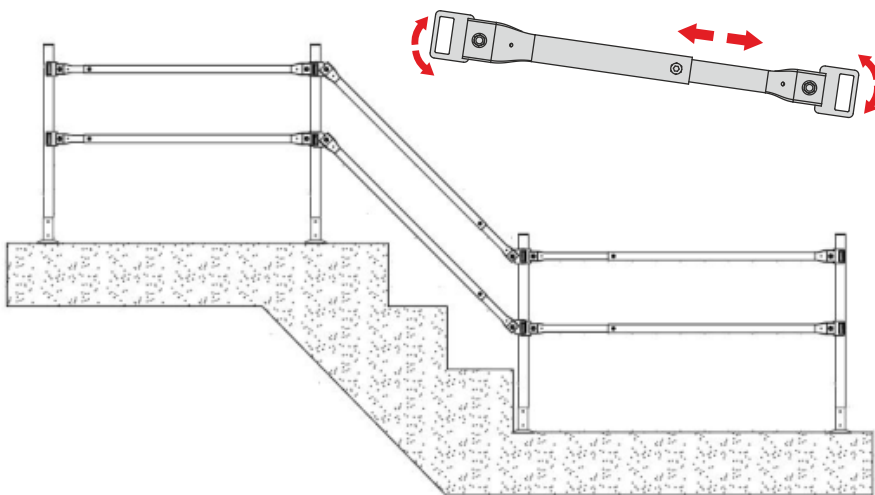


INSTALLATION

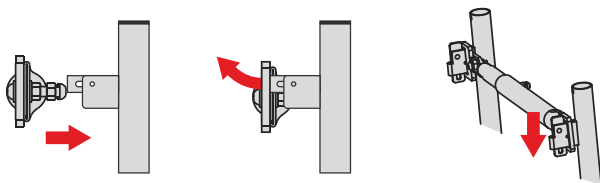
Check that the clamp is mounted transverseley to the mounting surface - see picture opposite. Make certain to have as large a mounting surface as possible. The clamp can be mounted both horizontally & vertically. Protect sensitive surfaces that the clamp may damage when tightened. Tighten so that the clamp is properly secured in a stable manner.



Clamp 550 can be mounted either in horizontal or vertical positions, and in staircases the clamp can be mounted to the right or the left. The gap can be adjusted from 20mm - 550mm make sure to tighten the clamp properly



Adjustable link bars are available in three different length and each of these is adjustable. Mount Adjustable link bars onto brackets of the posts and lock them in vertical position. Adjust the link bar and tighten the top positioning screw properly



ADJUSTABLE I-BEAM CLAMP

SE007

10kg



I Beam Clamp (up to 1000mm)

1. Used for clamping S-guard system to horizontal beams
2. Position fixed jaw to I-beam flange and fully tighten opposite jaw to opposite flange with the jack nut
3. Adjustment horizontally with predrilled holes
4. Adjustment vertically with predrilled safety flute post
5. Make sure all locking pins are in position and locked
6. Position safety post into socket section of the flute post
7. Roll pin to be level with beam top surface fix guard barrier as previous

1.2m 'FLUTED' SAFETY POST

SE020

5.5kg

To be used in conjunction with Eye-beam

1. To be used in conjunction with adjustable I-Beam Clamp and adjustable I-Beam Bracket in a vertical position

Make sure all safety pins are installed at all times



SLAB EDGE BRACKET

SE008

4.5kg

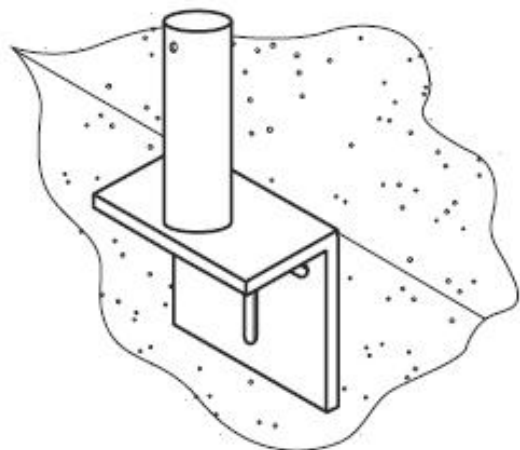
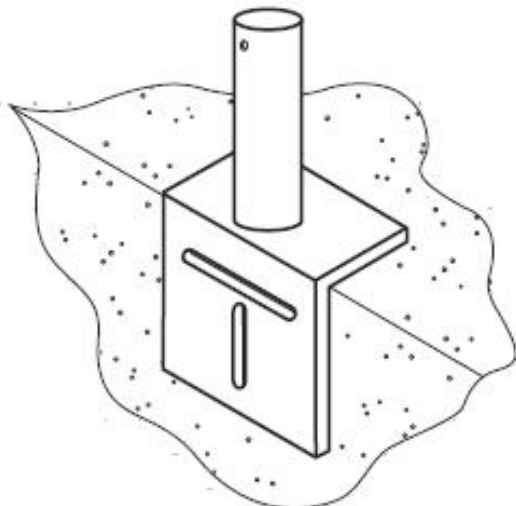
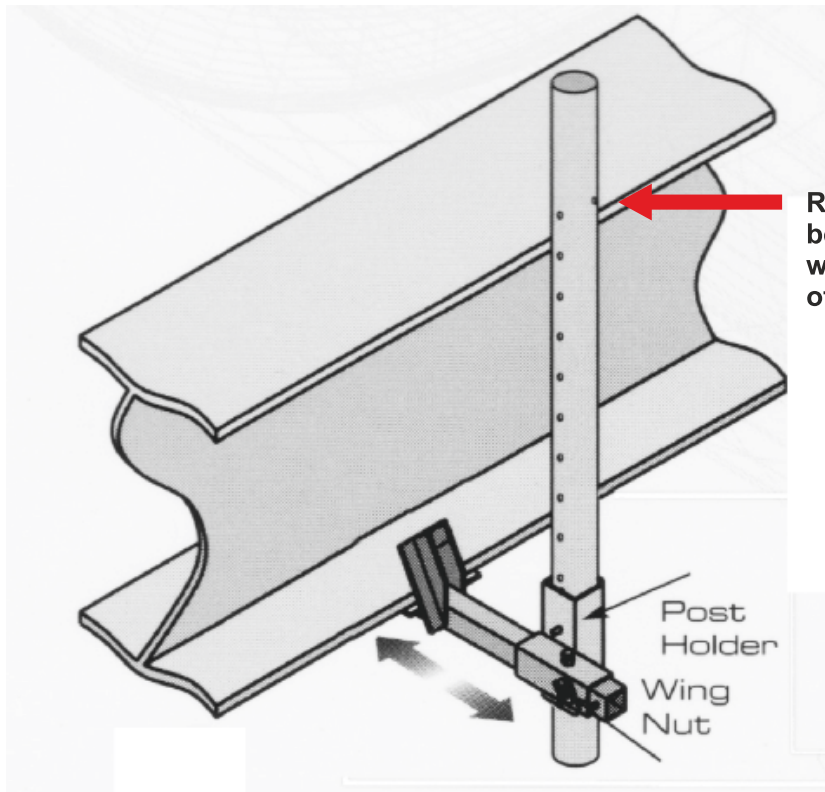
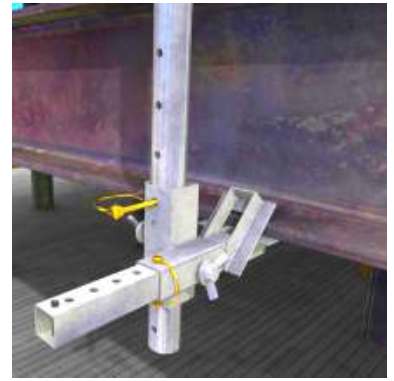
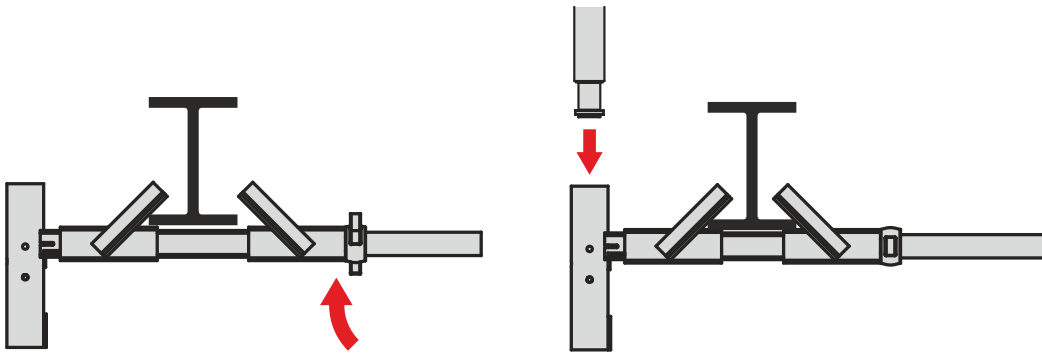
Slab Edge Bracket

1. For use in a vertical surface to accommodate safety post and barrier
2. Can be fitted with one bolt
3. Vertical and horizontal options for fixing
4. Can be fitted in opposite sides
5. Fix safety post and guardrail as previous

Adjustable Slab Edge Brackets

1. This bracket is to give greater adjustment as the slab edge bracket fixing
2. Installation as above





ADJUSTABLE I-BEAM BRACKET

SE021

10.2kg

BS EN 13374:2013
CLASS A



Adjustable I Beam Clamp

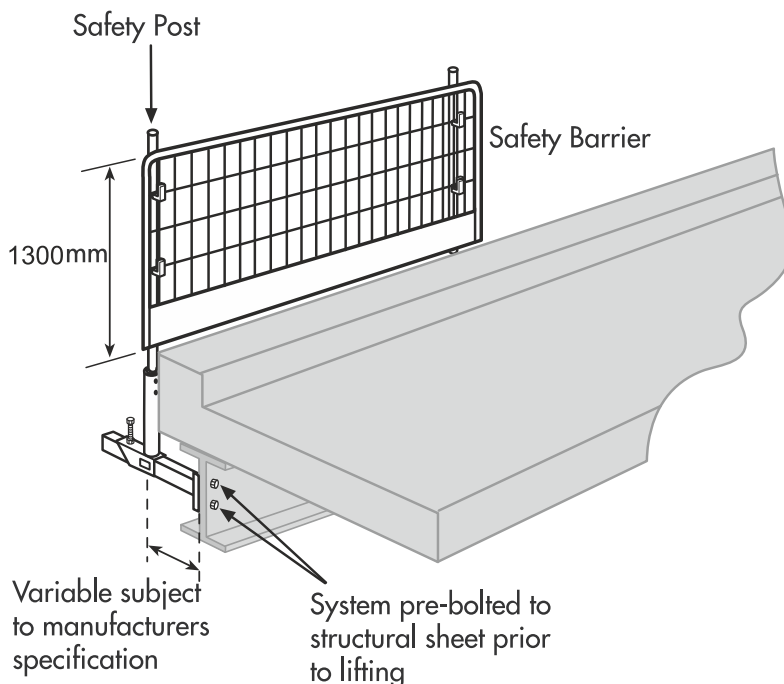
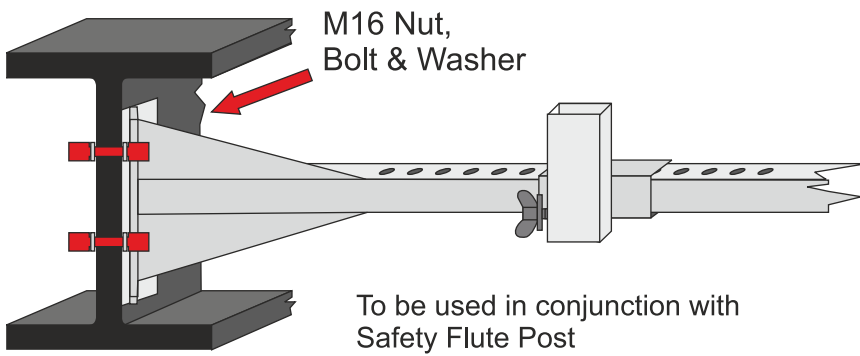
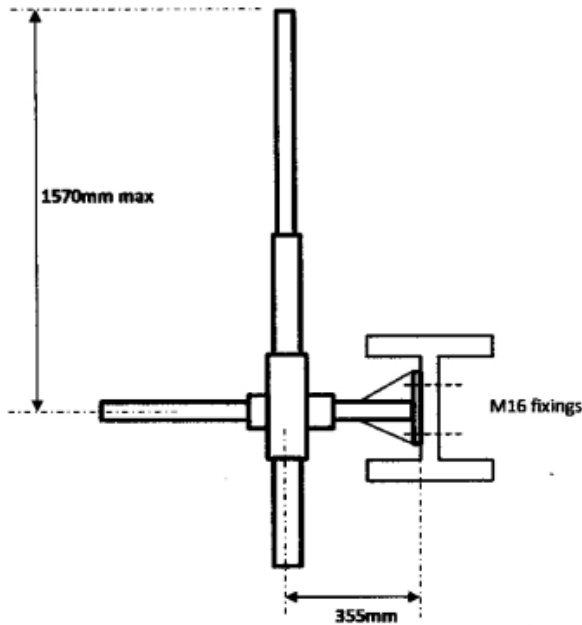
1. To be used in conjunction with flute post on predrilled steel I-beams
2. Holes to be predrilled to accommodate adjustable I-beam base plate
3. Clamp to be fixed into position with two bolts
4. Predrilled holes up to 2.4m centres
5. Adjustment horizontally with predrilled holes adjustment vertically with predrilled flute post
6. Position safety post into socket section of flute post (Roll pin to be level with top surface of beam)
7. Make sure all locking pins on safety post are in position and locked
8. Fix guard barrier make sure all locking brackets are closed



INSTALLATION

Maximum recommended tightening torques using M16 Nut & Bolts complete with washers grade 8.8 Nm 175 / ft-lb 129

Make sure all fixings are securely tightened & all safety pins are in place



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EDGE
PROTECTION

WALL BRACKET

.7kg

SE017

Wall Bracket

Used for fixing of barriers to openings e.g. lift shafts, doorways, window opening etc... It can also accommodate the link bar
(See opposite fitting illustration)



WEDGE COUPLER

1.1kg

SE016

Wedge Coupler

Used to fix onto a safety post of 48.3mm pipe and can accommodate the guard barrier as different positions. Always make sure the wedge is tightened properly.



COUNTER BALANCE FOOT PLATE

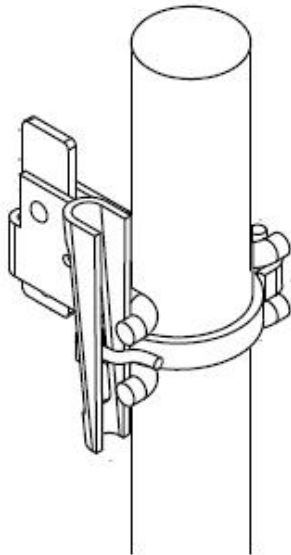
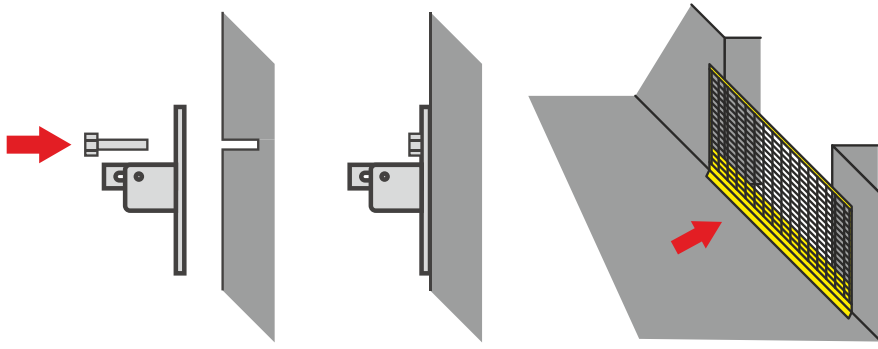
SE015

8.4kg

Counter Balance Foot Plate

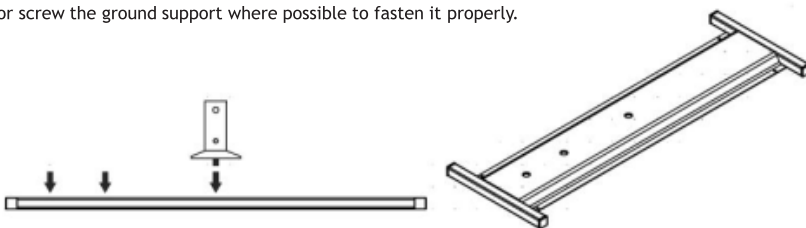
To accommodate a free standing barrier system. The socket base can be fixed at three different distances on the plate. It also allows for the positioning of the safety post and guard barrier as previously described





GROUND SUPPORT PLATE

Is used to protect sensitive surfaces or for building walk ways.
The Socket Base can be mounted at three different distances.
Nail or screw the ground support where possible to fasten it properly.



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EDGE

PROTECTION