

# ForkSafe 600-A

## Low Level Modular Traffic Barrier

### Function



Modular  
Design



Quick + Easy  
To Install



Weather  
Resistant Options

### Features



Unique Crumple  
Zone Technology



Screw Bolt  
Fasteners



Replaceable  
Parts

### Configurations

- Overall Height:  
610mm
- Rail Lengths:  
1200mm, 2400mm, custom lengths available  
(Centre to centre of posts)



### Specifications

- Steel construction posts and rails
- Crumple Zone helps protect floor damage
- Modular system - easy to cut down and replace parts
- 610mm high single rail style impact barrier
- Suitable for forklift and MHE areas
- Posts have 4 anchors for superior stability
- Screw bolt concrete anchors supplied
- High tensile 8.8 rail bolts
- Impact simulation tested

## Product Information

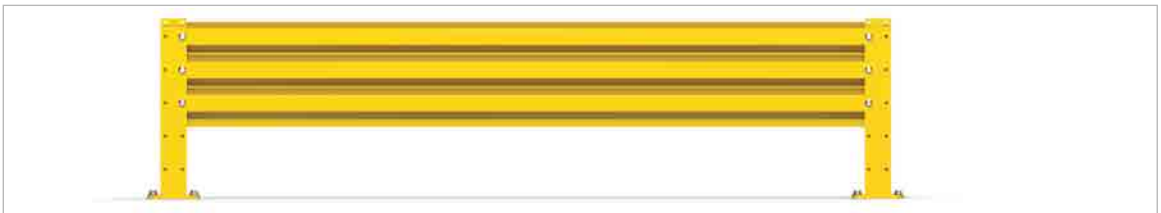
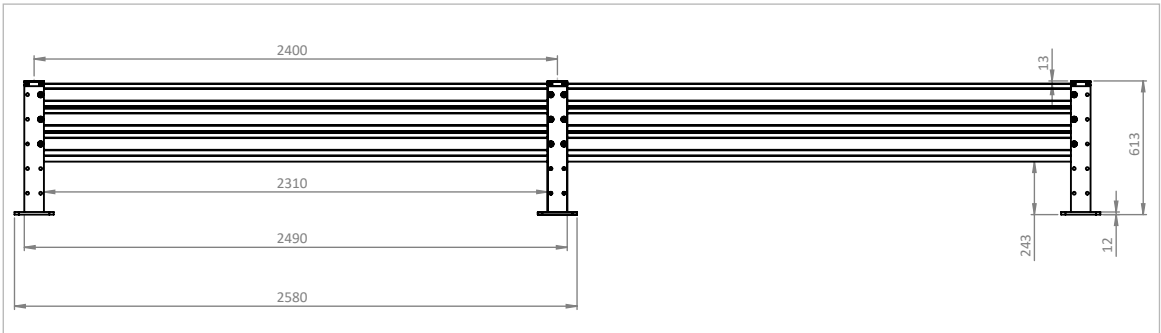
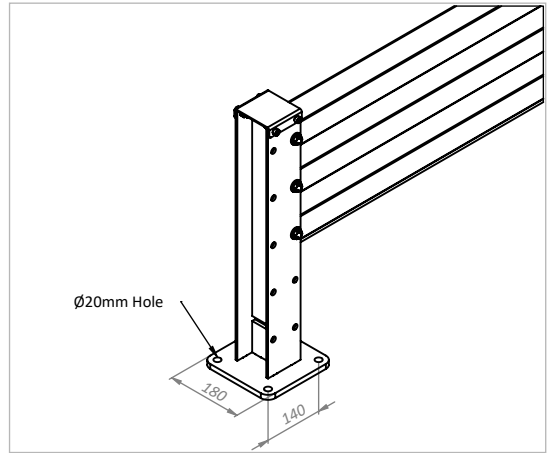
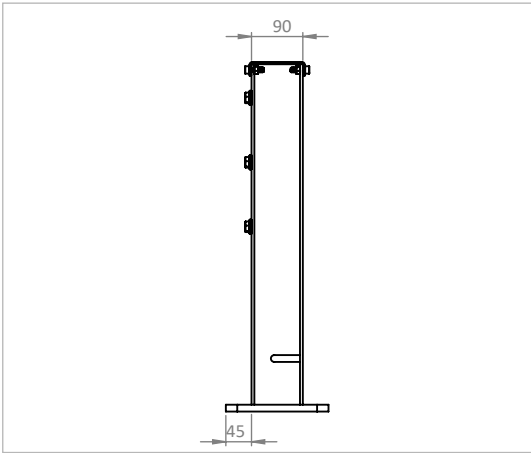
| Kitset Bays | Length | Type        | Finish                | Image                                                                                |
|-------------|--------|-------------|-----------------------|--------------------------------------------------------------------------------------|
| FS6A12SB-P  | 1200mm | Starter Bay | Powder Coat           |   |
| FS6A24SB-P  | 2400mm | Starter Bay | Powder Coat           |                                                                                      |
| FS6A12AB-P  | 1200mm | Add-On Bay  | Powder Coat           |   |
| FS6A24AB-P  | 2400mm | Add-On Bay  | Powder Coat           |                                                                                      |
| FS6A12SB-PG | 1200mm | Starter Bay | Powder Coat Over Galv |   |
| FS6A24SB-PG | 2400mm | Starter Bay | Powder Coat Over Galv |                                                                                      |
| FS6A12AB-PG | 1200mm | Add-On Bay  | Powder Coat Over Galv |   |
| FS6A24AB-PG | 2400mm | Add-On Bay  | Powder Coat Over Galv |                                                                                      |
| FS6A12SB-G  | 1200mm | Starter Bay | Galv                  |   |
| FS6A24SB-G  | 2400mm | Starter Bay | Galv                  |                                                                                      |
| FS6A12AB-G  | 1200mm | Add-On Bay  | Galv                  |  |
| FS6A24AB-G  | 2400mm | Add-On Bay  | Galv                  |                                                                                      |

### Detailed Specifications

|               |                                                                       |
|---------------|-----------------------------------------------------------------------|
| Application   | Pedestrian and vehicle physical segregation, walkways and safe zones. |
| Impact        | ForkSafe is recommended for a 5km/h impact with 2.5T at 90 degrees    |
| Post Material | Steel - 5mm & 8mm wall thickness                                      |
| Rail Material | Steel - 2mm wall thickness                                            |
| Connector     | M12x30mm 8.8 High Tensile Bolt                                        |
| Finish        | Powder coated to AS/NZS 3715 - Dulux Powder Coat                      |
| Anchors       | Concrete screw bolt anchors - M12 x 100mm                             |
| Post Size     | 90x90mm 'I' Beam Type Section                                         |
| Rail Size     | 610mm to top of rail                                                  |
| Base Plate    | 180x180mm square, 12mm thick, 4x anchor holes 20mm Ø                  |
|               |                                                                       |
|               |                                                                       |

Product Information

Dimension Drawings & Product Photos



## ForkSafe Impact Simulation Test



### Barrier Details:

|                         |                       |
|-------------------------|-----------------------|
| Barrier type            | Forksafe 600-A        |
| Barrier height          | 600mm                 |
| Bay length              | 2400mm centres        |
| Number of rails per bay | 1 set (1set = 3rails) |
| Number of bays          | 3                     |

### Forklift + load Details:

|                     |                                           |
|---------------------|-------------------------------------------|
| Mass of forklift    | 6000kg                                    |
| Speed               | 5.2 km/hr                                 |
| Impact region       | Centre of all three rails, 1.5m wide area |
| Height from ground  | 300 mm                                    |
| Concrete strength   | 31 MPa minimum                            |
| Energy from vehicle | 8000 Joules                               |
| Force applied       | 30000N                                    |

### Methodology:

|                 |                              |
|-----------------|------------------------------|
| Model           | Plasticity-von mises         |
| Study type      | Non-linear static structural |
| Angle of impact | 90 Degrees                   |

### Results:

|                     |           |
|---------------------|-----------|
| Deflection expected | 46.3 mm   |
| Deformation         | Permanent |

## Simulated Deformation Images:

