

## Top Rail / Handrail

Bikeway barrier with offset top rail and handrail for level and rake



### Key features

- > Modular flexibility
- > No-weld assembly
- > Flat pack delivery
- > Reduced corrosion
- > Colour options
- > Available ex-stock
- > BIM & CAD Support

### Applications suited to

- > Cycle paths and bikeways
- > Shared pedestrian paths
- > Protection over culverts
- > Footbridges
- > Refer to applicable Aust Standards and Building Codes.

### Specification Summary

Supply and install the proprietary BS25 barrier system to substrate according to Moddex specifications, or by a Moddex accredited installer.

### Technical Data

#### Material

<b>Stanchions, rails &amp; balustrades</b>	Steel/grade C250 & 350
<b>Clamp fittings</b>	Malleable Cast iron
<b>Clamp locking screws</b>	Stainless steel (304)

#### Protective coating

<b>Stanchions, rails and balustrades</b>	G390 Hot-dip Galvanized (min 390g/m <sup>2</sup> )
<b>Clamp fittings</b>	Hot-dip Galvanized with patented protective coating on threads
<b>Optional</b>	Powder coating and paint specs*

\*The standard process for Powder Coated and Painted handrail products is as follows: black steel is used for fabrication. The steel is sand blasted and a zinc primer coating is applied. The powder coat / paint coat is then applied over the zinc primer creating a dual shield coating with a decorative finish.

### Dimensions

Variable depending on building/application/ code

#### Stanchions

<b>Diameter</b>	48.3mm OD 41.9mm ID
<b>Nominal Thickness</b>	3.2mm – 4.0mm (loading dependent)

#### Rails

<b>Diameter</b>	48.3mm OD 41.9mm ID
<b>Nominal Thickness</b>	3.2mm

#### Clamp fittings

<b>Thickness</b>	5.0mm (approx)
<b>Locking screws</b>	M12 x 1.75 x 11mm - DEXX® Drive

### Weight

Variable depending on building/application/ code

<b>Stanchion with clamps</b>	7.2 to 8.0kg
<b>Rail @ 6.0m</b>	21.6kg
<b>Balustrade Panel @ 2.0m</b>	29kg

### Fixings

Stanchion attachment to

<b>Concrete</b>	M12 galvanized mechanical concrete anchor
<b>Structural steel</b>	M16 galvanized high tensile bolt set

\*Other Fixing options are available on request

### Compliance

Moddex balustrades and handrails are designed and manufactured in accordance with Austroads Guide to Road Design and relevant statutory WHS Codes of Practice/ Guidelines. Galvanized to AS 4792 and AS/NZS 4680:2006 (where applicable).

### Testing

Stringent vibration endurance tests have been performed and independent testing has been carried out to confirm the suitability of the Moddex system in maritime conditions. Tested and certified to AS/NZS 1170 C3 loadings.

### Warranty

5 years from date of purchase subject to correct installation, use and maintenance in accordance with manufacturer's specifications and recommendations, unless otherwise negotiated at the time of purchase.

— Refer maintenance manual

### Inspection & Maintenance

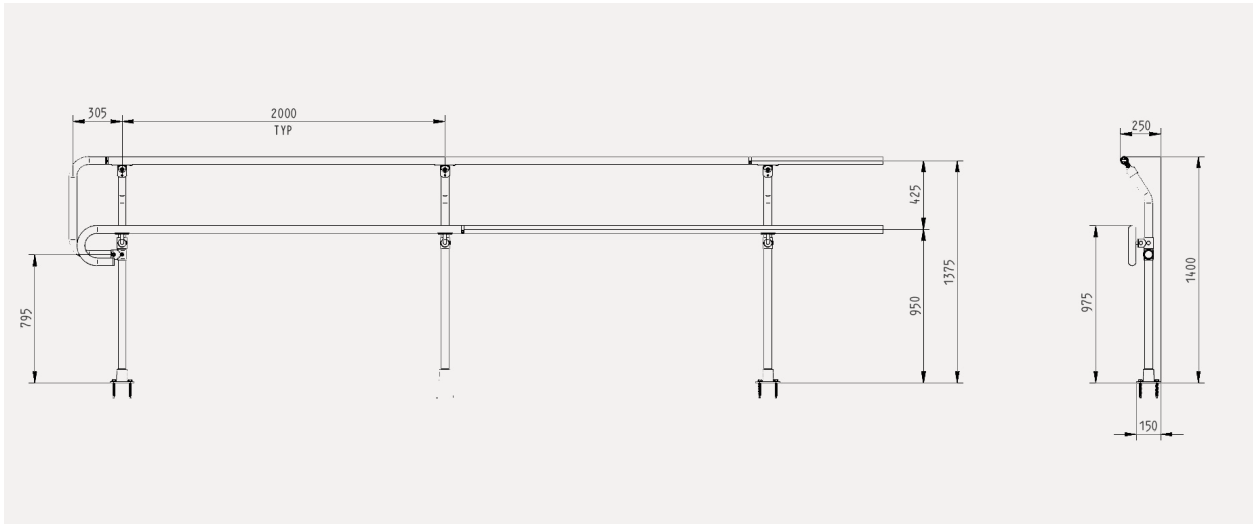
Visual inspection for any damage or loose fixings must be done periodically and prior to use. No certified maintenance required. Basic wear and tear preventative maintenance is recommended, as per manufacturer's specifications and recommendations.

— Refer maintenance manual

### Design Life

Standard design life of barrier is 75 years in C2 corrosivity zones.

## Technical Information



## Mount Dimensions

T4 - Top Mount (4 Fixings)	GD - Inground Mount	CD - Cored Mount
<p>Diagram of T4 Top Mount (4 Fixings) showing a post on a base with dimensions 102x102x75.</p>	<p>Diagram of GD Inground Mount showing a post in a concrete base with a height of 500.</p>	<p>Diagram of CD Cored Mount showing a post in a concrete base with a height of 150.</p>

## Standard References

### Austrroads Guide To Road Design; Part 6A

5.5.3 The installation of a fence at the side of a path used by cyclists is desirable where:

- there is a steep batter or large vertical drop located in close proximity to the path
- the path is adjacent to an arterial road and it is necessary to restrict cyclist access to the road
- a bridge or culvert exists on a path
- a hazard exists adjacent to a particular bicycle facility
- cyclists are likely to be 'blazing a separate trail' at an intersection between paths or around a path terminal.

**Important Note:** Failure to supply and/or install proprietary product in accordance with above Standards and codes, specification and instructions, voids complete system certification and/or warranty.

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