

AR45 Assistrail®

Disability Handrail Specifications

Single Inline Handrail / Mid & Bottom Rails
For stairs and level applications under one metre (FFL)
and typical fire stair applications



AR45

Key features

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

Applications suited to

- › DDA access ramps and stairs
- › Fire and access stairs
- › Aged care and accommodation
- › Hospitals, schools, universities
- › Public transport and sightseeing
- › Community and recreation centres

Specification Summary

Supply and install the proprietary AR45 handrail system to substrate according to Moddex specifications, or by a Moddex accredited installer.

Technical Data

Material

Stanchions & rails	Steel/grade C250 & 350
Clamp fittings	Malleable Cast iron
Clamp locking screws	Stainless Steel (304)

Protective coating

Stanchions & rails	G390 Hot Dip Galvanized (min 390g/m ²)
Clamp fittings	Hot-dip Galvanized with patented protective coating on threads
Optional	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

Diameter	48.3mm OD 41.9mm ID
Nominal Thickness	3.2mm - 4.0mm (loading dependent)

Rails

Diameter	48.3mm OD 41.9mm ID
Nominal Thickness	3.2mm

Clamp fittings

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

Weight

Variable depending on building/application/code

Stanchion with clamps	7.2 to 8.0kg
Rail @ 6.0m	21.6kg

Fixings

Stanchion attachment to

Concrete	M12 galvanized mechanical concrete anchor
Structural steel	M16 galvanized high tensile bolt set

*Other Fixing options are available on request

Compliance

Moddex AR45 handrails are designed and manufactured in accordance with Australian Standard AS 1428.1-2021 and relevant statutory WHS Codes of Practice/Guidelines. Galvanized to AS 4792 and AS/NZS 4680:2006 (where applicable).

Testing

Testing and performance based on requirement of Australian Standard AS1170.1 Clause 3.6 Table 3.3. Stringent vibration endurance tests have been performed

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.

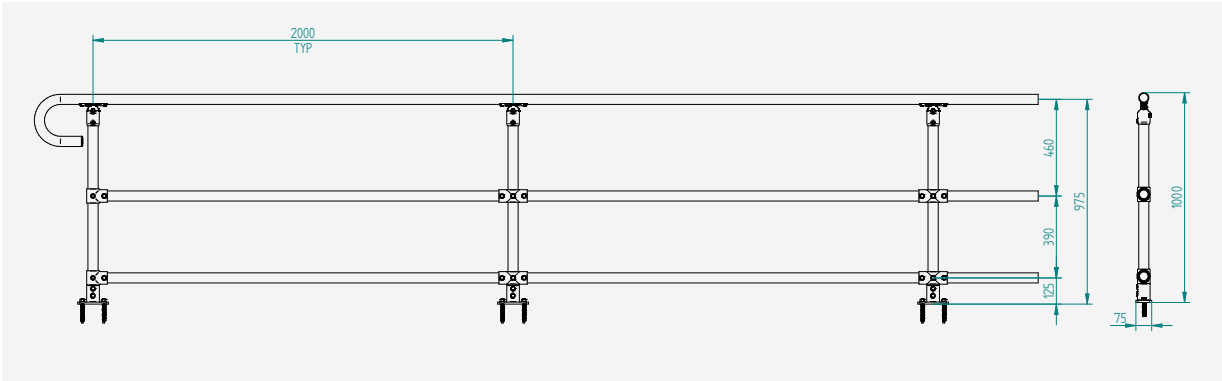
— Refer maintenance manual

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

Technical Information



Mount Dimensions

T2 - Top Mount (2 Fixings)	F2 - Face Mount (2 Fixings)	CL - Channel Mount (2 Fixings)
GD - Inground Mount	CD - Cored Mount	AM - Angle Mount

Standard References

Excerpt from Australian Standard AS 1428.1:2021	
10.3 (e)	Ramps shall have a handrail complying with Clause 12 on each side of the ramp
10.3 (i)	Ramps and intermediate landings shall have kerb rails on both sides that comply with the following:
i.	The minimum height above the finished floor shall be 65mm.
ii.	The height of the top of the kerb or kerb rail shall not be within the range 75mm to 150mm above the finished floor.
iii.	There shall be no longitudinal gap or slot greater than 20mm in the kerb or kerb rail within the range 75mm to 150mm above the finished floor.
12 (i)	Handrails shall have no obstruction to the passage of a hand along the rail.