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

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Stanchions &amp; rails Steel/grade C250 &amp; 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamp fittings</td>
<td>Malleable Cast iron</td>
</tr>
<tr>
<td>Clamp locking screws</td>
<td>Stainless Steel (304)</td>
</tr>
</tbody>
</table>

Protective coating
- Stanchions & rails 390 Hot Dip Galvanized (min 390g/m²)
- Clamp fittings Hot-dip Galvanized with patented protective coating on threads

Optional
- Powder coating and paint specs*

Dimensions
- Variable depending on building/application/code
  - Stanchions
    - Diameter: 48.3mm OD
    - Nominal Thickness: 3.2mm - 4.0mm (loading dependent)
    - Rails
      - Diameter: 48.3mm OD
      - 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

Compliance
Moddex AR45 handrails are designed and manufactured in accordance with Australian Standard AS 1428.1-2009 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

*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.
### Technical Information

**Mount Dimensions**

<table>
<thead>
<tr>
<th>Mount Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2 - Top Mount (2 Fixings)</td>
<td>![Diagram of T2 Mount]</td>
</tr>
<tr>
<td>F2 - Face Mount (2 Fixings)</td>
<td>![Diagram of F2 Mount]</td>
</tr>
<tr>
<td>CL - Channel Mount (2 Fixings)</td>
<td>![Diagram of CL Mount]</td>
</tr>
<tr>
<td>GD - Inground Mount</td>
<td>![Diagram of GD Mount]</td>
</tr>
<tr>
<td>CD - Cored Mount</td>
<td>![Diagram of CD Mount]</td>
</tr>
<tr>
<td>AM - Angle Mount</td>
<td>![Diagram of AM Mount]</td>
</tr>
</tbody>
</table>

**Technical Information**

**FILE NAME:** D:\justine’s project folder\aaa\X - X - X DI.dft

<table>
<thead>
<tr>
<th>DRAWING/PART No.</th>
<th>ISSUE</th>
<th>Sheet</th>
<th>44 Kalman Drive</th>
<th>BORONIA VIC 3155</th>
<th>T 03 8727 9055</th>
<th>E <a href="mailto:technical@moddex.com.au">technical@moddex.com.au</a></th>
</tr>
</thead>
</table>

**STANDARDS TOLERANCE:** ±1mm

**MATERIAL FINISH:** Minimum of 1x1 bevel on all edges

**All pipe to conform to:**
- AS 1074
- Galvanized to: AS/NZS 4680:2006

**Scale:** 1:14

**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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### Standard References

**Excerpt from Australian Standard AS 1428.1:2009**

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.

**For information or technical support please contact us**

T 1800 663 339 (AU)
T 0800 663 339 (NZ)

moddex.com