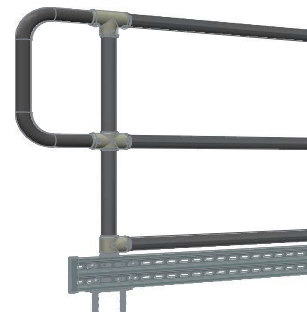


TR35 Tuffrail® Hot-dip Galvanized Industrial Handrail Specifications

Top / Mid / Bottom Rails & Toeboard Featuring Tuffgard® Toeboard

Robust guardrail protection for workers across mezzanines, service platforms, pedestrian walkways and fall edges.



Key features

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

Applications suited to

- > Service platforms and mezzanines
 - > Warehouses and loading bays
 - > Wastewater Treatment Plants & Reservoirs
 - > Retaining walls and culverts
 - > Roof service areas and fall edges
 - > Pedestrian pathways and footbridges
 - > Carparks and community centres
- Refer to applicable NZ Standards and Building Codes

Specification Summary

Supply and install the proprietary TR35 barrier system to substrate according to Moddex specifications, or by a Moddex accredited installer.

Technical Data

Material

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

Material

| | |
|----------------------------|---|
| Toeboard type MD415 | Marine Grade Aluminium |
| Toeboard type MD515 | Hot-dip Galvanized Steel/grade C250 & 350 |
| Toeboard type MD615 | Stainless Steel/316 grade |

Protective coating

| | |
|--|---|
| Stanchions, rails and balustrades | G390 Hot Dip Galvanize (min 390g/m ²) |
| Clamp fittings | Hot dipped 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 | N3.2 – 4.0 (loading dependent) |

Rails

| | |
|--------------------------|------------------------|
| Diameter | 48.3mm OD 41.9mm ID |
| Nominal Thickness | 3.2mm |

Toeboard

| | |
|------------------|-------|
| Diameter | 120mm |
| Thickness | 9mm |

Clamp fittings

| | |
|-----------------------|---------------------------------|
| Thickness | 5.0mm |
| 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 TR35 handrails and barriers are designed and manufactured in accordance with New Zealand Standard NZS 1657 and relevant statutory OHS Codes of Practice/Guidelines. Galvanized to AS 4792 and AS/NZS 4680:2006 (where applicable).

Testing

Testing and performance based on requirement of Australian Standards AS1170.1 Clause 3.6 Table 3.3. 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. The system had been tested by a NATA accredited laboratory to AS 1657:2018.

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.

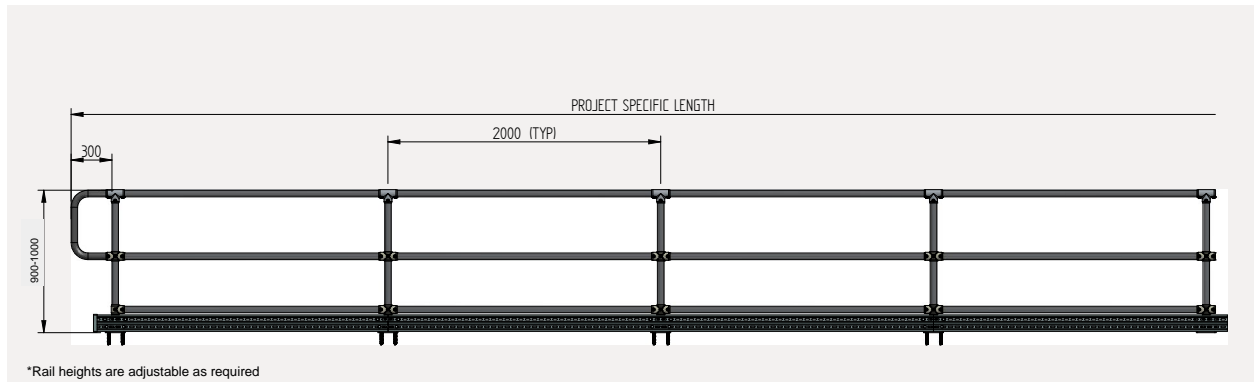
— Refer maintenance manual

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

New Zealand Standard NZS 1657

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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TR35