

# Moddex Tuffrail Handrails

## BPIR Declaration

Version: v1

**Designated building product:** Class 2

### **Declaration:**

Moddex has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

### **Product/system**

**Name:** Moddex Tuffrail Industrial Handrails

### **Identifier:**

- TR10 - SINGLE TOP RAIL - For level and rake applications
- TR20 - TOP & MIDRAIL- For level, rake or stair applications with no access beneath, or where there is a permanent structure within 10mm of the edge
- TR25 - TOP & MID RAIL | TOEBOARD. FEATURING TUFFGARD TOEBOARD - For level or rake applications with open access beneath, where an object could fall from a platform, landing or structure.
- TR30 - TOP | MID & BOTTOM RAILS - For level, rake or stair applications with no access beneath, or where there is a permanent structure within n10mm of the edge – with a bottom rail for additional fall protection
- TR35 - TOP | MID & BOTTOM RAILS WITH TOEBOARD - For level or rake applications with no access beneath, or where there is a permanent structure within 10mm of the edge – with a bottom rail for additional fall protection.



## Description

Moddex Tuffrail industrial handrail systems ensure workers, pedestrians, employees and site visitors are protected. This range boasts three material options – being suited for general warehouse use, through to use in extremely high corrosion areas.

With five configurations available in the Tuffrail family (with variations), Moddex industrial handrails offer:

- Single rail edge protection for “on ground” applications
- Top and mid rail designs incorporating Tuffgard® Toeboard
- Hot Dip Galvanized Steel, Aluminium – Mill Finish and 316 Grade Stainless Steel options
- Y14 Safety Yellow powder coat (Dulux Duralloy) finish product in stock
- Custom powder coating options (available on request)

## Scope of use

This range boasts three material options – being most suited for general warehouse use, through to use in extremely high corrosion areas. The Moddex Industrial guardrails offer robust protection for workers and the general public across mezzanines, service platforms, pedestrian walkways and potential fall edges.

Applications suited to:

- Service platforms and mezzanines
- Warehouses and loading bays
- Airports and shopping centres
- Retaining walls and culverts
- Roof service areas and fall edges
- Pedestrian pathways and footbridges
- Carparks and community centres



## Conditions of use

Moddex Tuffrail Systems have the following live loading requirements. Line: 0.35kN/m Concentrated: 0.6kN Any project requirements that exceed these loadings, it is recommended to use the Conectabal product line which are specifically designed and manufactured for higher load-bearing requirements.

The Moddex Tuffrail Handrail range is not recommended for use in routes used for public access. The Moddex Tuffrail Range is designed specifically under NZS 1657 for places used by operating, inspection, maintenance and servicing personnel. Unlike the Moddex Assistrail range, the Tuffrail design features interruptions on it's top rail, rather than a continuous top-rail. Consequently, it does not align with compliance requirements for use on public access routes. (As per NZBC D1 Access Routes: Handrails shall have a profile which can be readily grasped by an adult hand (32-50mm) and are to have no obstruction to the passage of a hand along the rail).

## Relevant building code clauses

- B1 Structure — B1.3.1, B1.3.2, B1.3.3 (f, h, j), B1.3.4
- B2 Durability — B2.3.1 (a), B2.3.2 (a, b)
- NZS 1657: 1992

## Contributions to compliance

**B1 Structure:** Moddex Tuffrail Systems have been designed for barrier loading class B/E (Service & Maintenance), as set out in AS/NZS 1170.1. Tested in accordance with loadings AS/NZS 1170.1:2002 table 3.3 and AS 1657:2013 CL6.1. Stringent vibration endurance tests have been performed and independent testing has been carried out to confirm the suitability of the Moddex Tuffrail system in maritime conditions. Refer to Moddex Tuffrail Producer Statement - PS1.



**B2 Durability:** Moddex Assistrail are galvanized to AS 4792 and AS/NZS 4680:2006 and can provide a durability of at least 15 years in all Exposure Zones. The Tuffrail Range has 3 material options - Hot Dipped Galvanised Steel, Aluminium or 316 Stainless steel which makes them tough, corrosion-resistant handrails for use in areas where chemical fumes or sea spray could cause corrosion. Durability is dependent on the Tuffrail Handrail being installed and maintained in accordance with Moddex specifications and recommendations. Refer to Moddex Care and Maintenance Manual.

**NZS 1657: 1992:** Moddex Tuffrail Systems have been designed and manufactured to create safe working at places normally used by operating, inspection, maintenance and servicing personnel. They are designed with 5 different configurations available, to offer flexibility to meet specific safety and accessibility needs of a project.

## Supporting documentation

The following additional documentation supports the above statements:

**Moddex Installation Guide (Installation) May 2021**

[https://3284798.fs1.hubspotusercontent-na1.net/hubfs/3284798/NZ\\_Moddex\\_InstallGuide\\_Update\\_May2021\\_90254\\_M2.pdf](https://3284798.fs1.hubspotusercontent-na1.net/hubfs/3284798/NZ_Moddex_InstallGuide_Update_May2021_90254_M2.pdf)

**Moddex Care and Maintenance Manual (Maintenance) September 2023**

[https://3284798.fs1.hubspotusercontent-na1.net/hubfs/3284798/Moddex\\_Care%20&%20Maintenance%20Manual.pdf](https://3284798.fs1.hubspotusercontent-na1.net/hubfs/3284798/Moddex_Care%20&%20Maintenance%20Manual.pdf)

**Moddex Tuffrail PS1 (Design) February 2021**

<https://3284798.fs1.hubspotusercontent-na1.net/hubfs/3284798/033-004-PS1-01.Rev%205%20tuffrail%20updated.pdf>

For further information supporting Moddex Tuffrail Handrails claims refer to our website - [www.moddex.com](http://www.moddex.com)



## Contact details

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