

KLIPTREAD™

WALKWAY AND HANDRAIL SYSTEM

Making your bridge walkway and barrier installation seamless...

Patent Pending 767353

Moddex proprietary KlipTread™ System ensures walkways and handrails on bridges can be specified and fitted effortlessly, with compliance guaranteed.

KlipTread™ has been specially designed and manufactured for upgrades on existing bridge infrastructure that are no longer compliant due to changes in standards over the years, and/or due to deterioration of walkways under the harsh environment in which they are found.

- Modular Flexibility
- No-weld assembly
- Flat pack delivery
- Reduce corrosion
- Available ex-stock
- Retrofittable

Technical Data

Material	
Stanchions and rails	Steel/grade C250
Clamp fittings	Ferrous Casting
Clamp locking screws	Stainless Steel (304)
Protective coating	
Stanchions and rails	G390 Hot-dip Galvanized (min 390g/m ²)
Clamp fittings	Hot dip Galvanized with patented protective coating on threads
Arm	G 600. Minimum 500g/m ²
Optional	Powder coating and paint specs*
<small>*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.</small>	

HANDRAIL Dimensions

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

Rails

Diameter	48.3mm OD 41.9mm ID
Nominal Thickness	3.2mm

Clamp fittings

Thickness	5.0mm (approx)
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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
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Structural steel	M16 galvanized high tensile bolt set
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*Other Fixing options are available on request

WALKWAY

Angle Side Supports	75x75x6mm
Material	FRP Grating

CANTILEVER ARM

Dimensions	8mm Plate 50mm Plate Hooks
Material	C350

Retrofittable

- Can be added to a bridge prior to any maintenance and used as an access platform.
- Installs directly onto bridge structure, separate to sleepers and tracks. Allows for the sleepers to be removed and replaced without dismantling the walkway or handrail – allows the bridge to be safe for access prior and during sleeper and track work.
- Supplied in modular kitset form including all fixings, packed in 6.5m sections. Benefit of this makes transport to site straight-forward.

Safe, Compliant and Approved

- Fully compliant – pre-engineered and certified.
- A compliant retrofittable walkway proprietary system.
- It has type approval. Which means if you are on the KiwiRail network, this solution is approved for use.
- Remove risk of falling during inspections and future maintenance.
- Modular, pre – engineered retrofit system means JSA/SSSP requirements will be consistent and reliable, allowing for a greater margin of safety.

Speed and Ease of install

- Simple installation from above the structure.
- Easy and fast installation – specifically designed with KiwiRail to overcome traditional long-winded and difficult walkway installation.
- Cuts downtime to a fraction of previous walkway installs. (Installation completed in hours not days).
- Safety of install – designed to be installed from the top. Removes scaffolding costs and downtime.
- Speed of install – Uses a completely different methodology of install. What currently takes them 2months will be reduced to days.
- No welding or hotworks on site. No drilling to existing structure required.
- Moddex offers support and training for teams to get a full understanding of install methodology.

Warranty

50 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.*

*Excludes FRP

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.

Compliance

Moddex KlipTread™ system is designed and manufactured in accordance with AS/NZS 1657:2018. 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. FEA modelling, static load testing with a PS1 provided.

Design Life

Standard design life of Walkway is 50 years.*

*Excludes FRP

Applications suited to

- Interchangeable clamp hooks ensure fitting to a range of different I-beam profiles is seamless.
- Clipon walkways allow safety for pedestrians and service personnel by segregation from vehicles.
- Access requirements on I-beam structures
- Platforms and plantdecks