

moddex

—
built modular



moddex.com.au | 1800 663 339

Why Moddex

Moddex is Australasia's leading manufacturer of modular, no-weld, hot dip galvanized barrier systems.

Pre-engineered for integrity, our proprietary systems are load tested and configured to Australian and New Zealand Standards (AS/NZS), Workplace Health and Safety guidelines (WHS/OSH), Australia's National Construction Code (NCC/BCA) and the New Zealand Building Code (NZBC).



Smart Modular Designs

Unlike traditionally welded alternatives, our proprietary modular designs eliminate design and engineering costs and onsite fabrication issues while reducing installation costs. Supplied as a series of Ezibilt components with simple assembly instructions, every Moddex system can be adapted or extended with additional components, or cut to size on-site. Pre-engineered to minimise the cost of maintenance and repairs, damaged components are easily replaced with Ezibilt spare parts, available ex-stock.



Simple No-Weld Assembly

Moddex hot dip galvanized systems are assembled via a simple, no-weld construction method, reducing opportunities for corrosion. Ezibilt components, fittings and flexible knuckles eliminate the need for specialist trades, hot works permits, firespotters and welding protection to finished surfaces. We have advanced safety conditions for installers by eliminating toxic fumes, welding in wet areas and fire risk hazards.

Barrier Systems

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Type AR20

assistrail

disability handrails

Assistrail Disability Handrails are designed for use across ramps, stairs and walkways, with flush connections for a smoother, safer finish. Pre-engineered, preconfigured and independently tested for compliance with Australian Standard AS 1428.1:2009, Assistrail Disability Handrails are manufactured from hot dip galvanized steel. Retrofittable, with standard or fire stair handrail and balustrade configurations available.

APPLICATIONS

- DDA access ramps and stairs
- Fire and access stairs
- Schools and universities
- Aged care and accommodation
- Hospitals and medical facilities
- Public transport and sightseeing
- Community and recreation centres

Extract of 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. 75mm to 150mm above the finished floor.

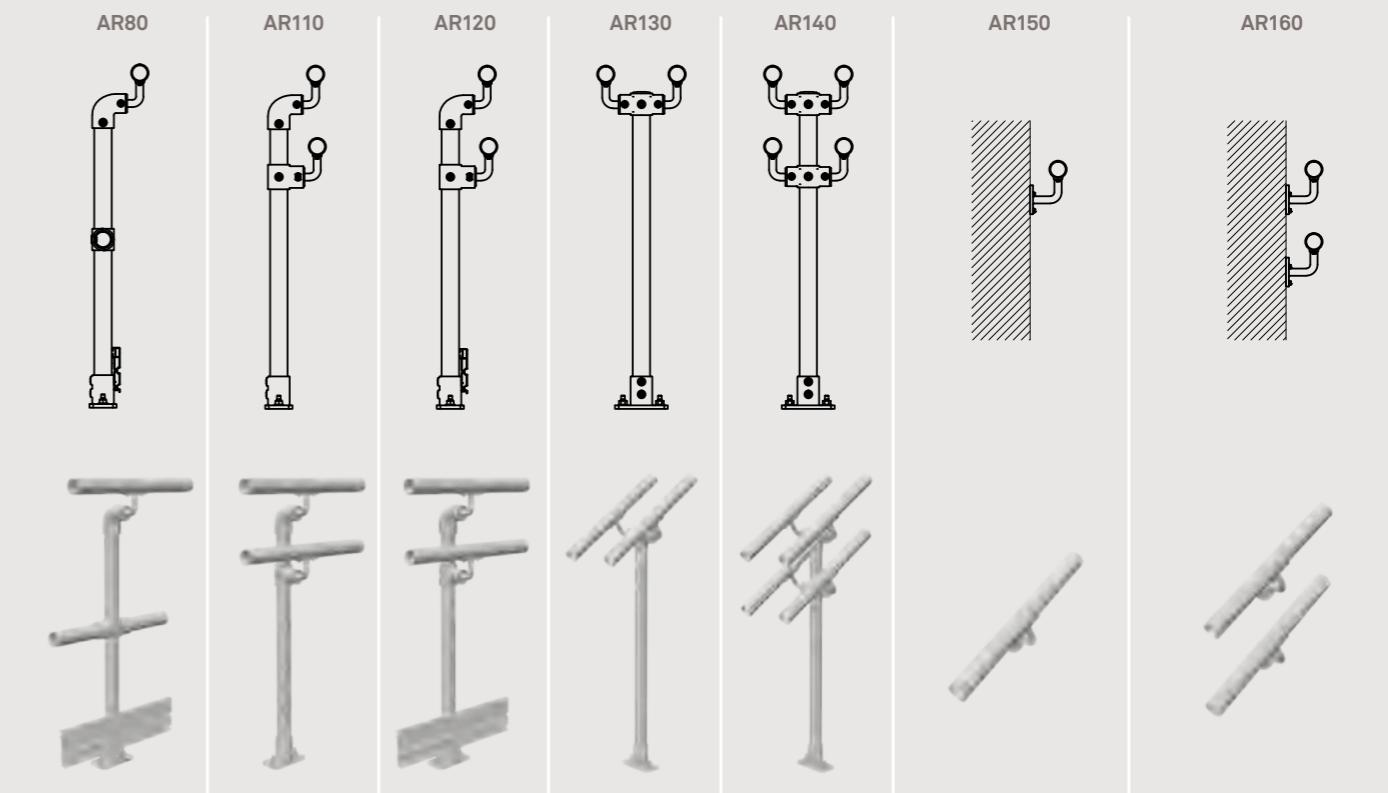
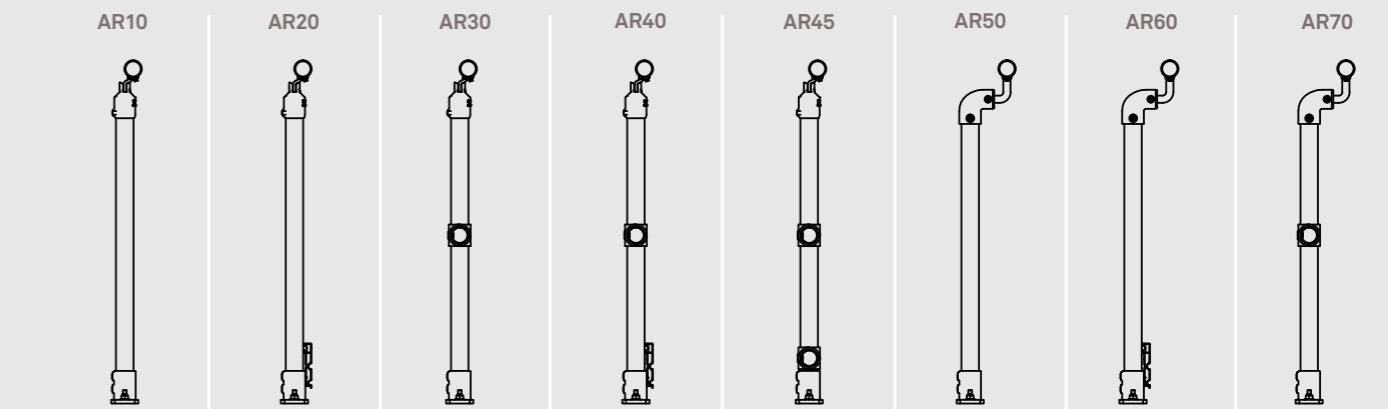
assistrail

disability handrails

monox



Configurations | ASSISTRAIL



assistrail

disability handrails

modular





Type BS45

bikесafe

bikeway barriers

Bikesafe Bikeway Barriers are designed to provide the ultimate protection for pedestrians and cyclists travelling at speed.

Pre-engineered, preconfigured and independently load tested for compliance with Austroad's safety requirements for bikeways and paths,

Bikesafe Bikeway Barriers are manufactured from hot dip galvanized steel with flush connection points for a smoother, safer finish.

APPLICATIONS

- Cycle paths and bikeways
- Shared pedestrian paths
- Protection over culverts
- Footbridges

Extract from Austroads Guide To Road Design; Part 6A 7.2.2

The installation of a fence at the side of a path used by cyclists is desirable where:
there is a steep batter or large vertical drop located in close proximity to the path

- the path is adjacent to an arterial road and it is necessary to restrict cyclist access to the road
- a bridge or culvert exists on a path
- a hazard exists adjacent to a particular bicycle facility
- cyclists are likely to be 'blazing a separate trail' at an intersection between paths or around a path terminal.

bikewsafe

bikeway barriers

Product Guide | Bikewsafe

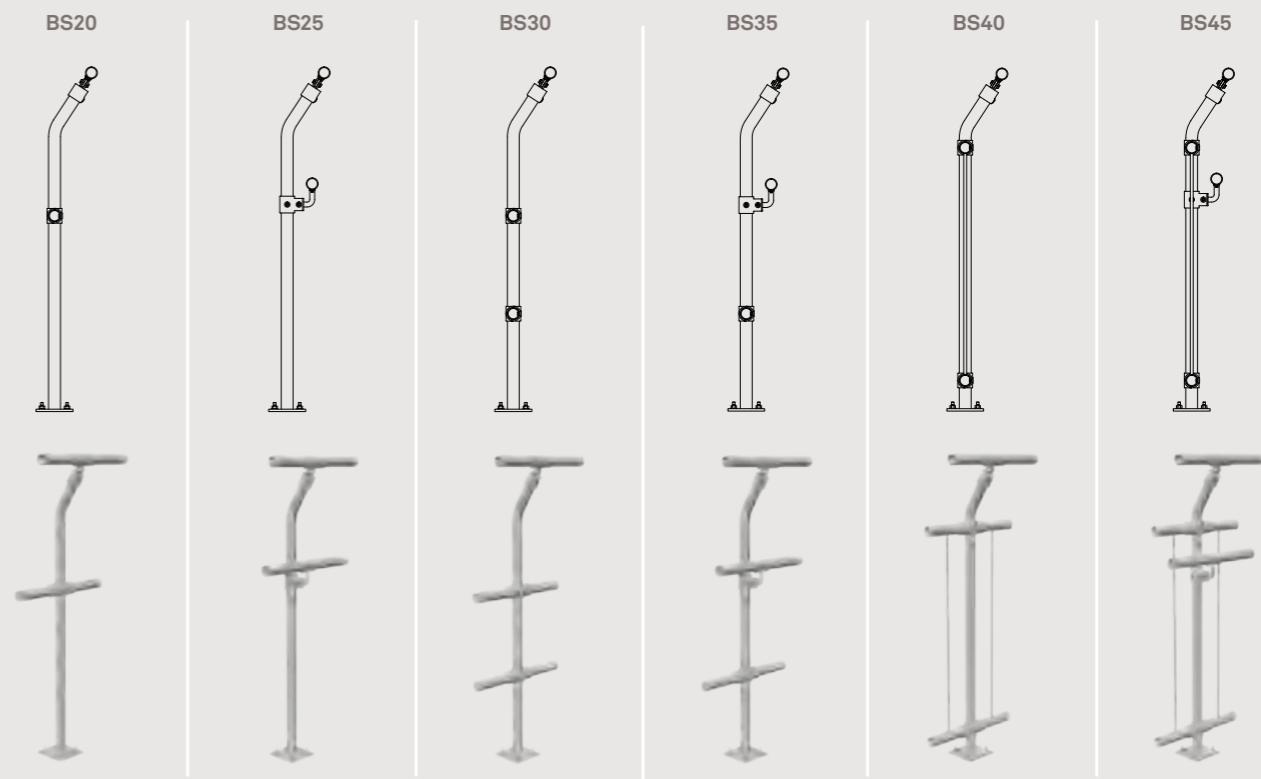


Type BS20



Type BS25

Configurations | BIKESAFE



*Austroad Compliant



Type BS45



Type CB40

conectabal

commercial balustrades

Conectabal Commercial Balustrades prevent injuries or falls from retaining walls and elevated areas, with single or double handrail options designed for AS 1428.1:2009 compliance.

Manufactured from hot dip galvanized steel with solid steel balusters, Conectabal Commercial Balustrades are pre-engineered and preconfigured for compliance with the National Construction Code (NCC/BCA) and independently load tested for compliance with Australian Standard AS/NZS 1170.1:2002.

Flush connection points achieve a smoother, safer finish, with standard or fire stair configurations available.

APPLICATIONS

- Retaining walls and carparks
- DDA access ramps and stairs
- Accommodation units
- Sports and recreation centres
- Public transport and sightseeing
- Fire and access stairs
- Footbridges and culverts
- Loading bays and mezzanines

conectabal

commercial balustrades

oxy
mox



Type CB30



Type CB10 and CB50



Type CB30

Extract from National Construction Code (NCC) 2014

D2.16 Balustrades or other barriers

- (a) A continuous balustrade or other barrier, except for a barrier provided to an openable window covered by D2.24, must be provided along the side of any roof to which public access is provided, any stairway or ramp, any floor, corridor, hallway, balcony, deck, veranda, mezzanine, access bridge or the like and along the side of any delineated path of access to a building, if—
 - (ii) it is not bounded by a wall; and
 - (iii) its level above the surface beneath, is more than 1 m.
- (h) Openings in a balustrade or other barrier must be constructed in accordance with the following:
 - (ii) For a balustrade or other barrier other than those provided under (c)—
 - (A) any opening does not permit a 125 mm sphere to pass through it and for stairs, the opening is measured above the nosing line of the stair treads; and
 - (B) for floors more than 4 m above the surface beneath, any horizontal or near horizontal elements between 150 mm and 760 mm above the floor must not facilitate climbing.

Extract from Australian Standard AS/NZS 1170:2002

3.6 BARRIERS

Barriers, including parapets, balustrades and railings, together with members and connections that provide structural support, shall be designed to sustain the imposed actions given in Table 3.3. The top edge or handrail shall also be designed for the case where a concentrated load of 0.6 kN, positioned for the worst effect, acts inward, outward or downward.

The uniformly distributed line load and the uniformly distributed and concentrated loads applicable to the infill are not additive. They shall be considered as three separate load cases.

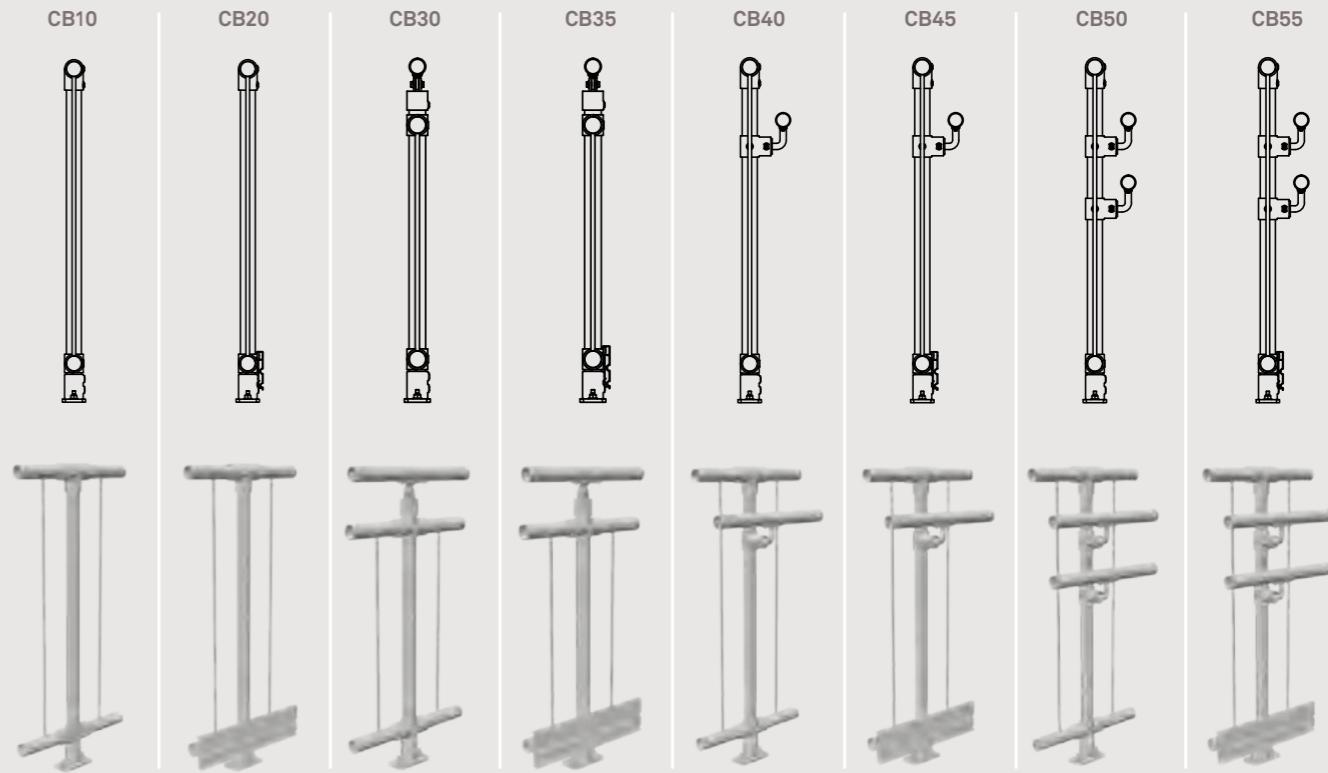
conectabal

commercial balustrades

modular



Configurations | CONNECTABAL





Type - Nexus

nexus

perimeter protection

Nexus Perimeter Barriers and Bollards create boundaries across sports and recreation fields, public parks and carparks. Pre-configured to cater for 30 plus metre radii or long straight distances,

Nexus Perimeter Barriers and Bollards are pre-engineered for rakes of up to four degrees in either direction without custom rolling or bending.

Manufactured from galvanized, powdercoated steel with custom colours and logo options for architectural styling available on request.

APPLICATIONS

- Sports and recreation fields
- Public parks and ovals
- Carparks and sightseeing



Type TR20

tuffrail

industrial guardrails

Tuffrail Industrial Guardrails offer robust protection for workers across mezzanines, service platforms, pedestrian walkways and fall edges.

Pre-engineered, preconfigured and independently load tested for compliance with Australian Standard AS 1657:2013, Tuffrail Industrial Guardrails are manufactured from hot dip galvanized steel, with Safety Yellow options available.

APPLICATIONS

- 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

tuffrail

industrial guardrails

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ox
od
m



Extract from Australian Standard AS 1657:2013

3.2.1.2 A toe-board complying with Clause 3.4.3 shall be provided at the edge of a platform, walkway, or landing, which is greater than 10mm distant from a permanent structure and where an object could fall more than 2000mm.

3.4.3 The toe-board shall be firmly attached to the floor or posts, and any gap between the toe-board and the floor shall not exceed 10mm. The top of the toe-board shall be not less than 100mm above the top of the floor.

5.4 GUARDRAILING

5.4.1 Provision of guardrailing

Guardrailing complying with Clause 6.2.1 shall be installed on all sides and ends of a walkway except in the following situations:

(a) At the points of access from a stairway or ladder.

(b) Where there is a permanent structure not more than 100 mm distant from the edge of the walkway, capable of providing protection at least equivalent to that of guardrailing.

(c) On the sides and ends of a walking surface that is not more than 300 mm above an adjacent area upon which it is safe to step or stand without risk of falling, and—

(i) the slope of the walkway perpendicular to the direction of travel (cross-slope) does not exceed 3°;

(ii) the angle of slope of the adjacent area is less than 12°; and

(iii) the width of the area adjacent to the walkway is greater than 2000 mm

5.4.2 Requirements for walkways with slopes within the range of 15° to 20°

On sloping walkways between 15° and 20°, a handrail complying with Clause 5.6 shall be provided. Where there is a risk of a person sliding or rolling along the sloping surface of the walkway, a means of limiting this linear distance to 18 m shall be installed.

NOTE: On walkway slopes of lesser angles where there is a risk of a person sliding, a handrail should also be provided.

5.5 TOEBOARD

A toeboard complying with Clause 6.1.2 shall be installed on the edge of a walkway where there is no permanent structure within 10 mm of the edge, and from which an object could fall to where persons have access to the area below and to the side of the walkway. Any gap between the underside of the toeboard and the walkway surface shall be not greater than 10 mm. The top of the toeboard shall be not less than 100 mm above the floor.

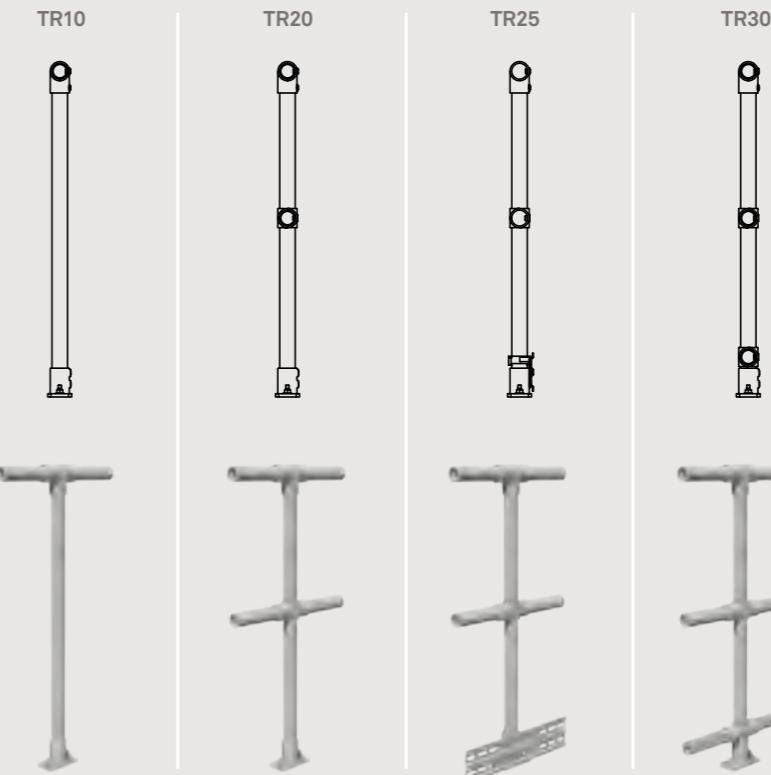
tuffrail

industrial guardrails

modular



Configurations | TUFFRAIL



*Safety Yellow configurations available





Type TS15

tuffstop

trolley bays & safety bollards

Pre-engineered, preconfigured and independently load tested to Australian Standard AS 1170, Tuffstop Trolley Bays are manufactured from hot dip galvanized steel for enhanced corrosion protection.

Available in single or double-sided options, Tuffstop Trolley Bays establish secure storage for trolleys at shopping complexes and airports.

Tuffstop Safety Bollards provide permanent protection for pedestrians and equipment.

APPLICATIONS

- Airports and shopping centres
- Warehouses and loading bays
- Pedestrian pathways and footbridges
- Carparks and community centres
- Vehicle designation and protection
- Sports and recreation centres

tuffstop

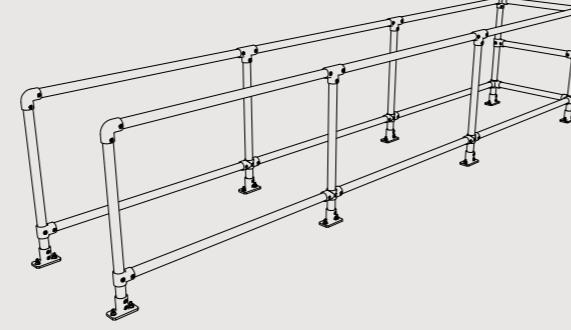
trolley bays & safety bollards

Configurations | TUFFSTOP Trolley Bays

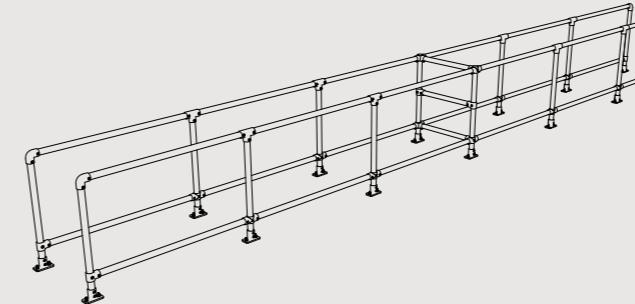
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Tuffstop

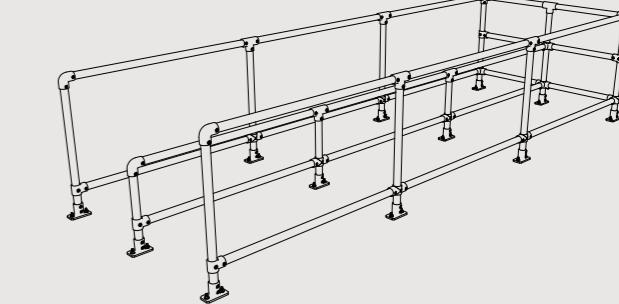
TS10



TS15

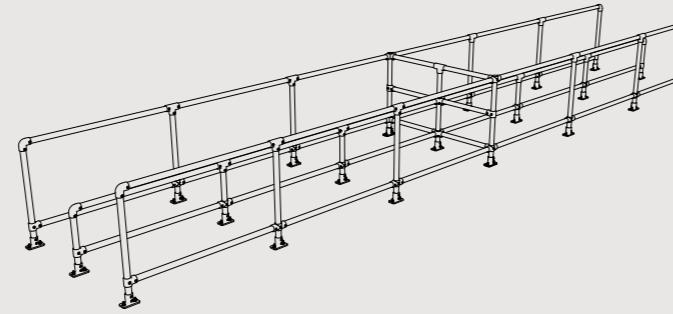


TS20

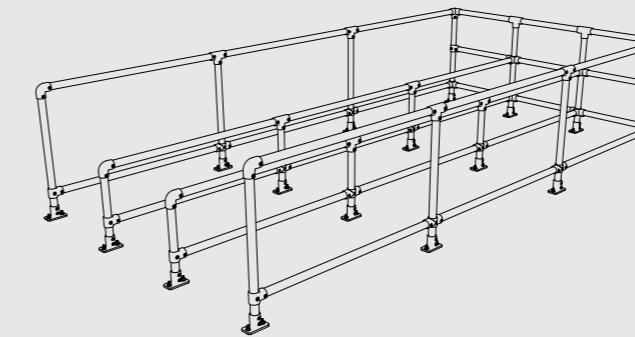


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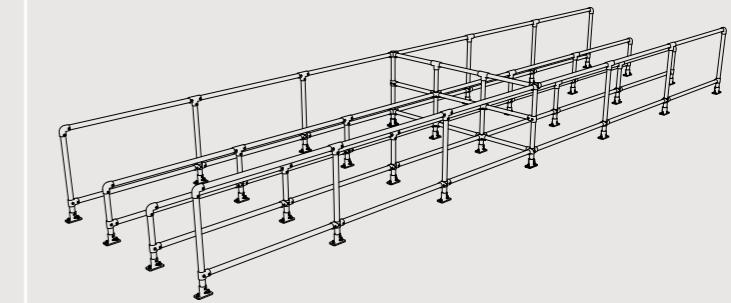
TS25



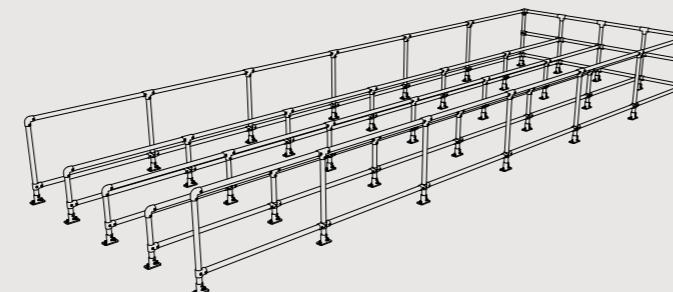
TS30



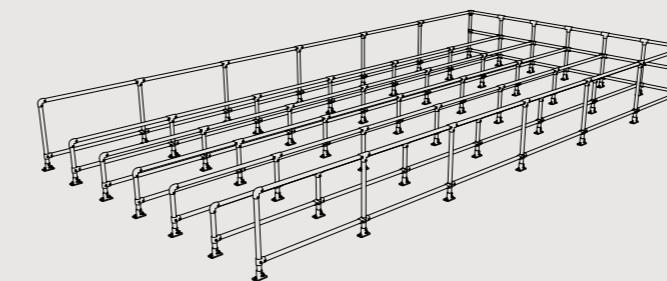
TS35



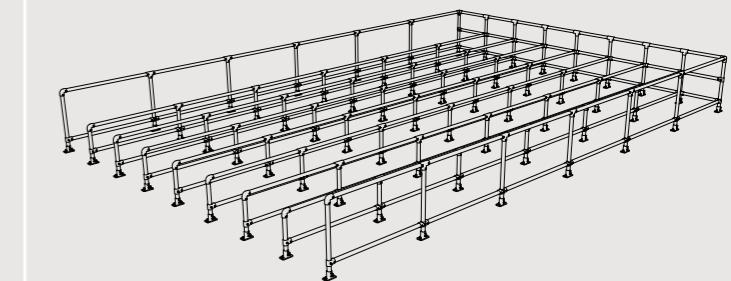
TS40



TS60



TS80

*All configurations are available in **WIDE** option

tuffstop

trolley bays & safety bollards

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Type TS20

Configurations | TUFFSTOP Signboard

TS01 - Signboard Kit - Single Sided



TS02- Signboard Kit - Double Sided



Type TS10.W

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tuffstop

trolley bays & safety bollards

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trolley bays

safety bollards

accessories

spare parts



Type TS550Y.1050.T4

tuffstop

trolley bays & safety bollards

monotrollex



Configurations | TUFFSTOP Bollards

TS530.0900.T4/
TS530Y.0900.T4



TS550.1050.T4/
TS550Y.1050.T4



TS550Y.1300.T4



TS560.1050.T4/
TS560Y.1050.T4



TS530.0900.GD/
TS530Y.0900.GD



TS550.1050.GD/
TS550Y.1050.GD



TS550Y.1300.GD



TS560.1050.GD/
TS560Y.1050.GD





Type IN101

intac

tactile indicators

Intac Tactile Indicators provide walkway or directional guidance for the blind or visually impaired to establish an early warning of impending hazards.

For application across all public walkways, including stairs, ramps, escalators and railway platforms, Intac Tactile Indicators are manufactured from ceramic tile or UV resistant PVC, with self-adhesive backing for immediate installation.

Suitable for interior or exterior applications with a wide colour range, Intac Tactile Indicators can satisfy the 30% luminance contrast requirements of Australian Standard AS/NZS 1428.4.1:2009.

APPLICATIONS

- DDA access ramps and stairs
- Public walkways and thoroughfares
- Railway platforms and traffic crossings
- Escalators, shopping centres & carparks
- Sports and recreation centres

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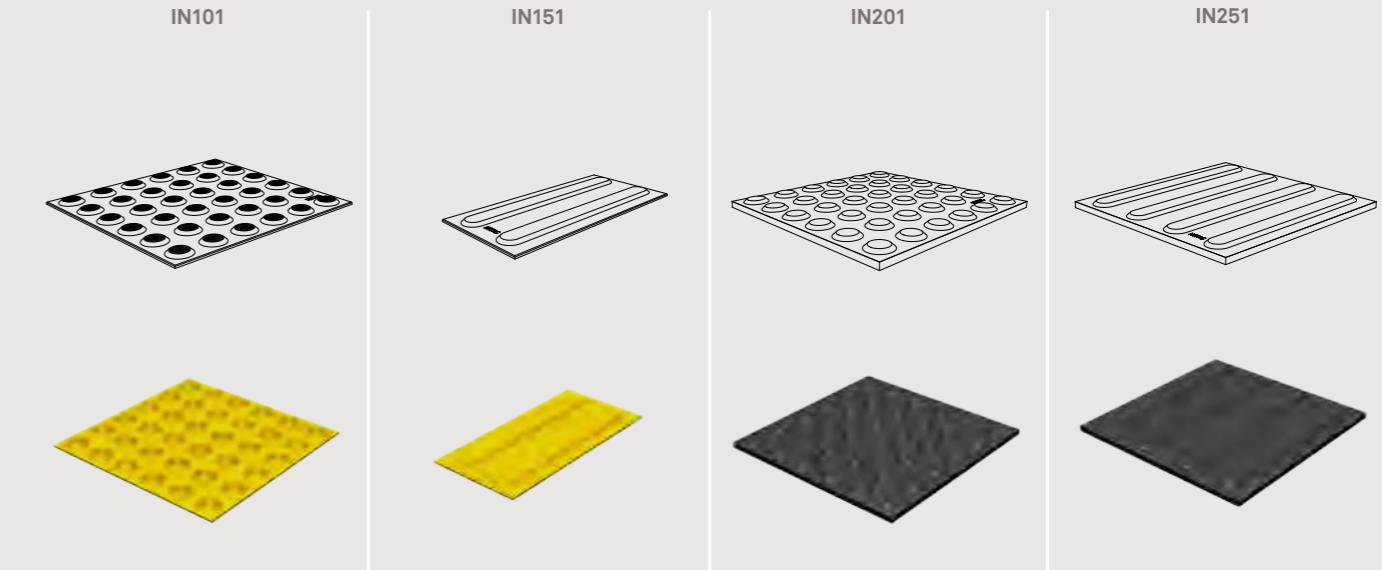


Type IN101



Type IN201

Configurations | INTAC



Intac PVC Tactile Indicator Types

PVC Hazard Type

300 x 300mm (Silver, Yellow, Black, White, Blue, Beige, Grey, Red, Green)

PVC Directional Type

300 x 150mm (Silver, Yellow, Black, White, Blue, Beige, Grey, Red, Green)

Intac Ceramic Tactile Indicator Types

Ceramic Hazard Type

300 x 300mm (Yellow, Ivory, Charcoal)

Ceramic Directional Type

300 x 300mm (Yellow, Ivory, Charcoal)

Extract from Australian Standard AS/NZS 1428.4:2009

2.4 STAIRWAYS, RAMPS, ESCALATORS AND MOVING WALKS

Where required on a path of travel, warning indicators shall be located at both the top and bottom of stairways, ramps, escalators and moving walks, as shown in Figures 2.2(A), 2.2(B), 2.3(A), 2.3(B) and 2.4.

2.5 PEDESTRIANS AND VEHICLES AT THE SAME GRADE

Where a pedestrian area joins a carriageway at grade (i.e. on the same level) or to delineate the pedestrian area from the carriageway, TGSIs shall be provided in accordance with Figures 2.5(A) and 2.5(B).

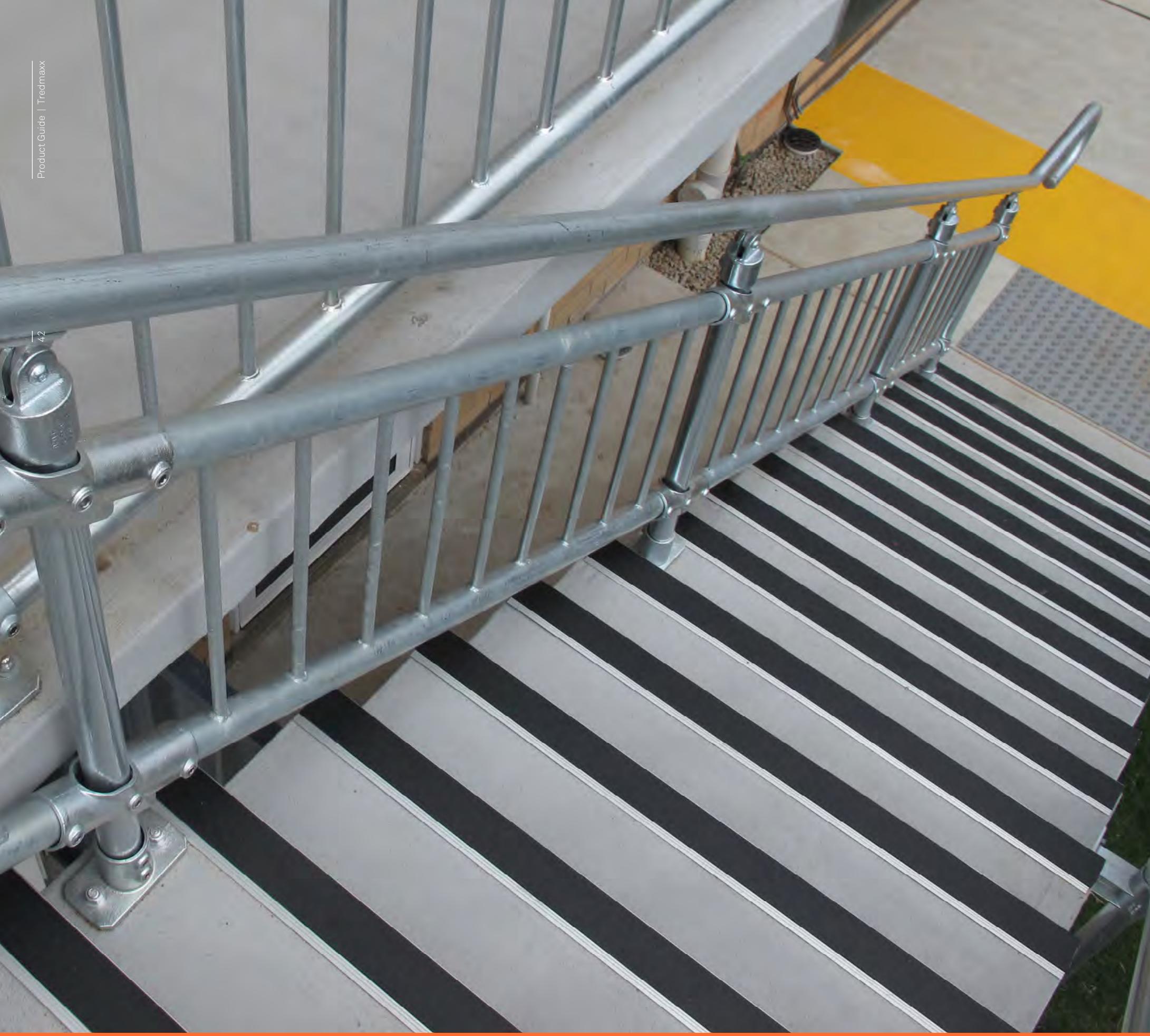
2.6 WARNING OF HAZARDS WITHIN THE CIRCULATION SPACE, OR ADJACENT TO A CONTINUOUS ACCESSIBLE PATH OF TRAVEL

Where there are impediments or hazards with less than 2000 mm clearance in an accessible open public space with no clearly defined continuous accessible path of travel (e.g., areas under a stairway, escalator or moving walkway), contact with overhead hazard shall be prevented by a suitable barrier such as—

(a) enclosing the area; or

(b) providing handrails with kerbs or kerb rails in accordance with AS 1428.1,

In the absence of a suitable barrier, TGSIs shall be installed as shown in Figures 2.6(B).



tredmaxx

non slip safety

Tredmaxx Non-Slip Safety delivers non-slip surfacing and stair nosing for internal or external stairs, walkways and platforms.

Used as a heavy duty safety measure to secure firm footing while highlighting the edge of the step, Tredmaxx products are manufactured from industrial grade fibre-reinforced plastic (FRP) or marine grade aluminium with a silicon oxide gritted wear and corrosion resistant surface.

Supplied cut to length for installation on any substrate, Tredmaxx products can be easily installed with adhesives and / or mechanical fixings.

COMPLIANCE

- Tredmaxx products have achieved the highest slip resistance classification V - "very low risk" of slipping when wet.
- Tredmaxx products have been wet pendulum and dry floor friction tested in accordance with Australian Standard AS/NZS 4586:2004 – Slip Resistance Classification of New Pedestrian Surface Materials.

APPLICATIONS

- Service platforms and mezzanines
- Warehouses and loading bays
- Airports and shopping centres
- Pedestrian pathways and footbridges
- Community centres and carparks
- Firestairs

tredmaxx

non slip safety

Index



Extract from National Construction Code (NCC) 2014

D2.13 Goings and risers

- (a) A stairway must have—
- (v) treads which have—

(A) a surface with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; or

(B) a nosing strip with a slip-resistance classification not less than that listed in Table D2.14 when tested in accordance with AS 4586; and

Extract from Australian Standard AS 1428.1:2009

11.1 Stair construction

Where required, stairs shall be constructed as follows:

(f) At the nosing, each tread shall have a strip not less than 50 mm and not more than 75 mm deep across the full width of the path of travel. The strip may be set back a maximum of 15 mm from the front of the nosing. The strip shall have a minimum luminance contrast of 30% to the background. Where the luminous contrasting strip is affixed to the surface of the tread, any change in level shall comply with Clause 7.2 and Clause 7.3.

(g) Where the luminance contrasting strip is not set back from the front of the nosing then any area of luminance contrast shall not extend down the riser more than 10 mm.

Extract from Australian Standard AS/NZS 4586:2004

2 APPLICATION

The test methods in this Standard shall be used for the classification of pedestrian surface materials for use in either the 'wet' or the 'dry' condition.

This Standard may also be used for evaluating surface applications and treatments including products such as sealers, polishes and etchants which may modify the surface characteristics of pedestrian surfaces.

As a minimum, one of the three methods specified for the measurement of wet slip resistance (Appendix A, C or D) shall be used for all external pedestrian surfaces and those internal pedestrian surfaces that have a reasonably foreseeable risk of the presence of wet substances such as water, grease and oil.

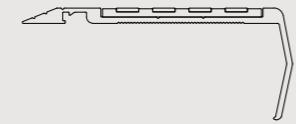
tredmaxx

non slip safety

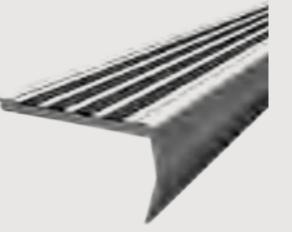
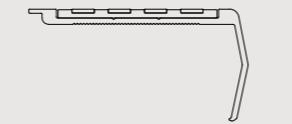
TREDMAXX

Configurations | TREDMAXX

GLA110



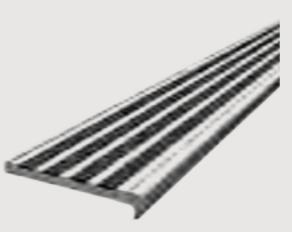
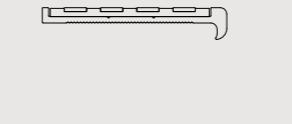
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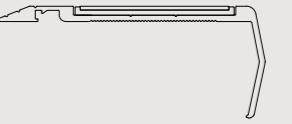
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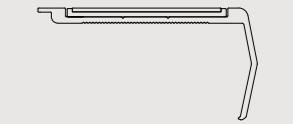
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GLA210



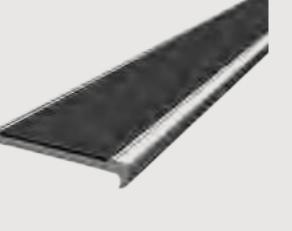
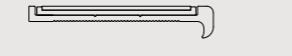
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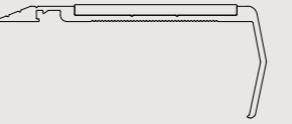
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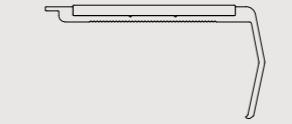
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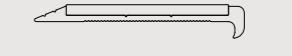
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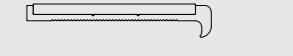
GLA311



GLA312



GLA313



tredmaxx

non slip safety

modulox



Type GLI070

Configurations | TREDMAXX

GLA510



GLA511



GLA513



GLI070



GLI171



GLI150



GLI230



Mount Options



T2 - Top Mount (2 Fixings)
Concrete - using M12 x 100mm galvanized screwbolts
Steel - using M16 hi-tensile galvanized bolts



F2 - Face Mount (2 Fixings)
Concrete - using M12 x 100mm galvanized screwbolts
Steel - using M16 hi-tensile galvanized bolts



C11 - Channel Mount (2 Fixings)
110 mm Offset
Steel - using M16 hi-tensile galvanized bolts



C13 - Channel Mount (2 Fixings)
130 mm Offset
Steel - using M16 hi-tensile galvanized bolts



T4 - Top Mount (4 Fixings)
Concrete - using M12 x 100mm galvanized screwbolts
Steel - using M16 hi-tensile galvanized bolts



GD - Inground Mount
As per engineers' specifications



CD - Cored Mount
As per engineers' specifications



AM - Angle Mount (2 Fixings)
Concrete - using M12 x 100mm galvanized screwbolts
Steel - using M16 hi-tensile galvanized bolts

IMPORTANT

Fixing type, size & number per mount are recommendations only. Consequent selection & use remains the specifiers and/or installers responsibility, taking into account the intended application, load ratings & actual conditions on the particular site. Refer manufacturer's recommendations & specifications, user manuals and engineers' specifications /recommendations.

How to Order

SIMPLE STEPS TO ORDER MODDEX

STEP 1 - SELECT Barrier Configuration

Assistrail AS 1428 compliant disability handrails	Nexus Perimeter barriers & bollards
Bikesafe Austroads compliant bikeway barriers	Tuffrail AS 1657 compliant industrial guardrails
Conectabal NCC/BCA compliant commercial balustrades	Tuffstop AS 1170 load tested trolley bays & safety bollards

Refer to the product pages for relevant excerpts/references (Australian Standards, Austroads, NCC/BCA and DDA).

STEP 2 - SELECT Gradient (level, rake or stair)

Level - 0°

i.e. Level retaining walls, walkways and service platforms

Rake - 1° to 29°

i.e. Wheelchair ramps, undulating bikeways, retaining walls and culvert wings

Stair - 30° to 45°

i.e. Commercial and industrial stairs including fire stairs

STEP 3 - SELECT Mount Type

Identify which mounting option you will require.

- T2- Top Mount (2 Fixings)
- F2- Face Mount (2 Fixings)
- C11/13 - Channel Mount (2 Fixings)
- T4 - Top Mount (4 Fixings)
- GD - Inground Mount
- CD - Cored Mount
- AM - Angle Mount (2 Fixings)
- CY - Conveyor Mount (2 Fixings)

STEP 4 - SELECT Components & Safety Accessories

- 4.1 Select end, intermediate, corner and step-down stanchions as required
- 4.2 Select top and mid handrails, including joiners
- 4.3 Select infill panels, including balustrade panels and closures
- 4.4 Select necessary fixings, hardware and spares
- 4.5 Select Safety Accessories to complete your project

Flexalyte - AS 1428 compliant kerbrail system

Intac - AS 1428 and NCC/BCA compliant tactile Indicators

Tredmaxx - AS 1428 & AS 4586 compliant surfacing and non-slip stair nosings

Tuffgard - AS 1657 compliant toeboard system

STEP 5 - SUBMIT Order

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