



FutureGuard™

The slimline architectural crash barrier for car parks.

Crash-tested and compliant.

Carpark Barrier Systems



WHY FUTUREGUARD™

Structural performance meets architectural style

FutureGuard™ is a slimline vehicle crash barrier designed specifically for AS2890.1 off-street car park areas, crash-tested to AS/NZS 1170.1 Type F (30kN).

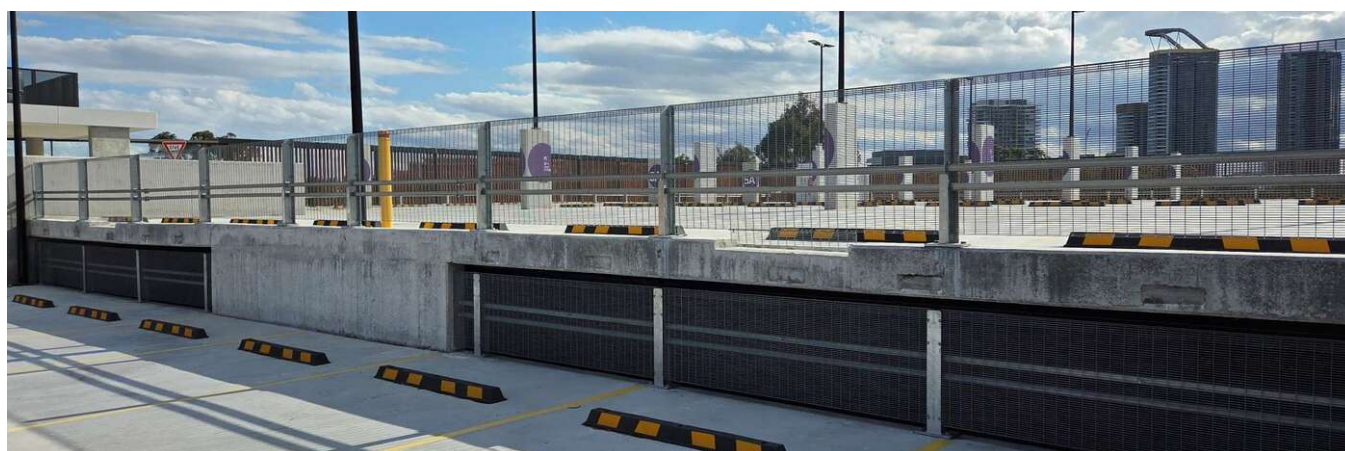
For too long, building designers have had to compromise on design intent, efficiency and functionality of car park construction due to the lack of alternatives to the legacy barrier systems of industrial-style steel W-beam barriers or costly, bulky concrete upstand walls.

FutureGuard™ is developed as a slim-line architectural alternative system, designed for fast, cost-effective installation while maximising the space, functionality, and design style of elevated car park areas.

Twin integrated crash rails give a 140mm system depth with minimal deflection, so the barrier provides full compliance without a wide offset zone behind it, and without the bulky appearance and industrial finishes of W-beam guardrail systems.

Comparison:

	FutureGuard™	W-beam	Cast concrete upstand
Footprint	140mm system depth	Typically 180 mm+ baseplate intrusion	Typically 200mm+
Deflection	Low deflection, smaller offset gap needed behind the barrier	High dynamic deflection under impact. Needs clear space behind the rail	Rigid, but adds significant dead load to the slab
Appearance	Clean architectural lines with crash barrier, mesh balustrades and sight rails fully integrated	Roadside industrial hardware	Solid wall, requires additional treatment for architectural outcome.
Installation	Option for FutureFix cast-in option removes slab drilling entirely, or conventional drilled/bolted fixings	Drilled fixings, time and cost of PT slab scanning and drilling risk	Slow and costly multi-step process, with formwork, reo, pour, stripping and cleanup
Sightlines	Improved visibility and ventilation for pedestrian and traffic safety	Bulky visual elements, detracting from architectural intent	Solid obstruction, blocks sightlines and ventilation

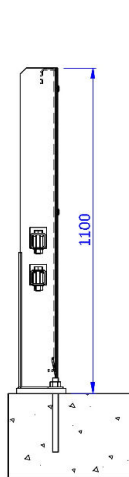


FutureGuard™ Series 1 protecting split level slab edges. AS/NZS 1170.1 Type F in a 140mm footprint.

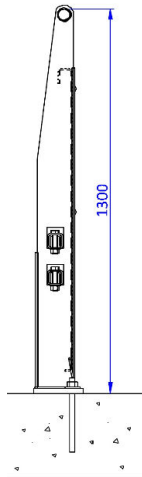
PRODUCT RANGE

One system, Four configurations

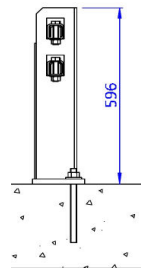
Every FutureGuard™ series shares the same integrated twin-rail structure. Mesh, post height and sight rails change to suit the project parameters and barrier location, for perimeters, ramps, split levels and end-of-space zones.



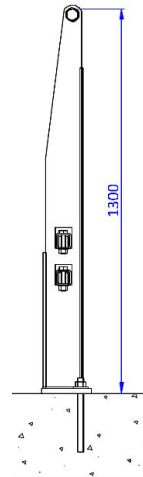
Series 1 • 1100mm



Series 2 • 1300mm



Series 3 • 596mm



Series 4 • 1300mm

Type	Description	Australian Standards conformance
Series 1	FutureGuard™ Crash barrier with balustrade anti-climb mesh to 1100mm	AS/NZS 2890.1 (2.4.5.3) AS/NZS 1170.1 Type F 30kN vehicle loading AS/NZS 1170.1 Table 3.3 F/G pedestrian loading
Series 2	FutureGuard™ Crash barrier with balustrade anti-climb mesh to 1100mm, and sighting rail to 1300mm	AS/NZS 2890.1 (2.4.5.3) AS/NZS 1170.1 Type F 30kN vehicle loading AS/NZS 1170.1 Table 3.3 F/G pedestrian loading
Series 3	FutureGuard™ Crash barrier, 596mm high	AS/NZS 2890.1 (2.4.5.3) AS/NZS 1170.1 Type F 30kN vehicle loading
Series 4	FutureGuard™ Crash barrier, 596mm high and sighting rail to 1300mm	AS/NZS 2890.1 (2.4.5.3) AS/NZS 1170.1 Type F 30kN vehicle loading



Series 1: Deck with anti-climb mesh



Series 2: Perimeter, end-of-space



Series 3: Internal ramp edge



Series 4: Perimeter, end-of-space zone

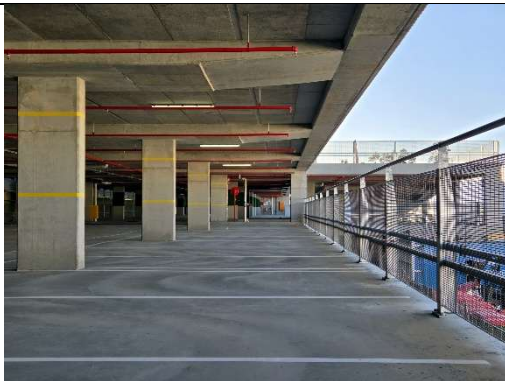
EXAMPLES



Series 1



Series 1



Series 2



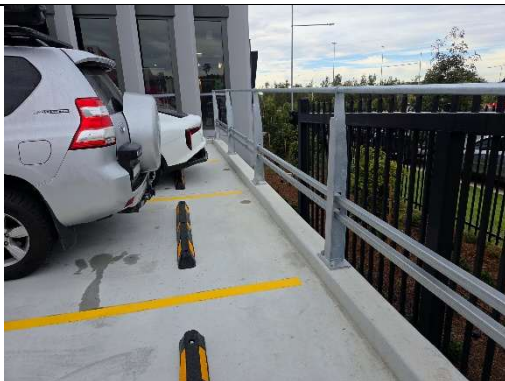
Series 2



Series 3



Series 3



Series 4



Series 4

PRODUCT DATA

Futureguard™ Specifications

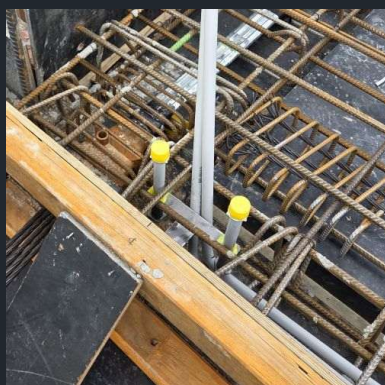
System depth	140mm (at 0.5m above slab level)
Heights	Series 1: 596mm with 1100mm mesh Series 2: 596mm with 1100mm mesh and 1300mm top sighting rail Series 3: 596mm Series 4: 596mm with top sighting rail at 1300mm
Post spacing	2450mm c/c maximum, minimum 3 posts
Base plate	165mm deep x 250mm wide, 2x M20 fixings
Slab edge distance	150mm from slab edge to centre of fixing (minimum). Recommended hob allowance 200mm.
Anchors	1/ FutureFix cast-in with 2x M20 bolts, or 2/ 2x M20x250mm Chemset, or 3/ Custom engineering (e.g. bolt-through thin slabs)
Finish	Hot dip galvanised (AS/NZS 4680:2006, AS/NZS 4792:2006, AS/NZS 1214:2016)
Crash rating	AS/NZS 1170.1 Type F 30kN, crash tested

Why specifiers choose FutureGuard™:

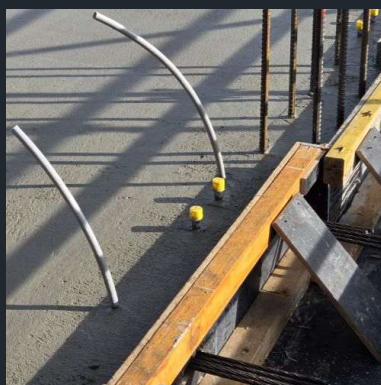
- **Crash tested:** Full-scale crash testing by Holmes Solutions, certified to AS/NZS 1170.1 Type F
- **Slim profile:** 140mm system depth maximises available space for bays and aisles
- **Minimal deflection:** smaller offset gap needed behind the barrier
- **Open structure:** mesh and twin rail system maximises natural ventilation, sightlines and safety
- **Designed for PT slabs:** FutureFix cast-in system, or engineer-approved fixing options
- **Unlimited run lengths:** continuous twin independent rails to suit any layout or opening size

FutureFix. Cast in with the pour, no drilling after it.

FutureFix modules are a pre-assembled hold-down bolt system, set out and fixed in place prior to each slab pour so that barrier posts can be bolted down immediately after slab curing. This methodology enables immediate edge protection, 50% faster barrier installation, no slab scanning, reduces RCS risks, and guaranteed fixing performance with no slab compromises.



Pre-pour: exact setouts; PT, reo and services protected



During pour: minimal intrusion, easy slab finishing



After pour: immediate barrier installation, no scanning or drilling

No drilling

Posts bolt directly into the cast-in module

No PT or reo clashes

Placement is fixed before the pour with full visibility

No silica dust

No drilling means no dust, noise or vibration

50% faster install

Permanent edge protection straight after curing

CASE STUDIES

Proven across major infrastructure projects



Liverpool Hospital, NSW

Series 3: Perimeter edges in front of mesh facade



Logan Hospital, QLD

Series 3: Perimeter and internal ramp edges



Ballarat Base Hospital, VIC

Series 1: Internal ramp edges



Brisbane Airport P2X, QLD

Series 4: Perimeter edges in front of swaged facade panels

Specifying?

Everything you need to document FutureGuard™ is ready to send. Drop it straight into your model and specification.

Request the full specifier pack

- Revit files
- DWG / STEP files
- Tech Sheets

Call **1300 716 766**

Email sales@carparkbarriersystems.com.au



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