

DETAIL SHEET

IRONMAN SUITE OF BARRIERS - UNBALLASTED

NOTE: IRONMAN STATUS IS LEGACY IN VICTORIA. EXISTING UNITS MAY CONTINUE TO BE USED UNTIL THE END OF SERVICE LIFE, BUT NO NEW UNITS CAN BE MANUFACTURED.

Details

Category:	Longitudinal
Sub Category:	Semi-Rigid
Main Material:	Steel
Gating/Non Gating:	NA
Redirective/	Redirective
Non- Redirective:	
Permanent/	Temporary
Temporary:	

Description

The IronMan is a steel semi-rigid temporary safety barrier comprising of segments interlocked with steel pivot pins. The system functions as a portable longitudinal barrier to prevent errant vehicle penetration, vaulting or underriding.

NOTE: ONLY UNITS CONTAINING GREY/GALVANISED BULK HEADS ARE CURRENTLY ACCEPTED FOR USE IN VICTORIA. UNITS CONTAINING ORANGE COLOURED BULK HEADS OR ANY OTHER VARIANT ARE NOT CURRENTLY ACCEPTED.

CONRECTING PIN CONNECTING PIN CONNEC

State Government Victoria

Ownership & Supplier

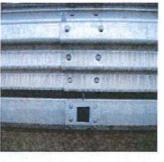
Saferoads P.O. Box 340 DROUIN VIC 3818 Website: <u>www.saferoads.com.au</u>

Accepted Test Level NCHRP 350 to Test Level 2 (TL2): 70km/h



Legacy Product: IRONMAN (LOW SPEED) Steel Rail Safety Barrier – Temporary – Anchored





Proponent: Email: Australian Distributor: Saferoads Pty Ltd Email: Status:

Saferoads Pty Ltd Sales@saferoads.com.au Sales@saferoads.com.au Legacy

Variants accepted as Legacy	4m and 12m units with deflection limiting spacers.
Variants not accepted as Legacy	 4m and 12m units without deflection limiting spacers. All 8m units. Units anchored to the surface. Units with anti-gawk screens attached.
Design speed limit (km/h)	70
Tested containment (kg)	2000
Terminals permitted	Quadguard CZ
Median use	Allowable – Consider the dynamic deflection of the system
Gore area use	Allowable – Consider the dynamic deflection
Pedestrian area use	Allowable – Consider the dynamic deflection and the top edge of the barrier
Cycleway use	Allowable – Consider the dynamic deflection and the top edge of the barrier
Frequent impact likely	Allowable in these situations but assess damage before reuse
Slope limit	 20H:1V (5%) for crossfall 20H:1V (5%) for longitudinal slope
Foundation conditions	Foundation in accordance with VicRoads Specifications or the requirements of the Supplier, whichever is the greater requirement. For the Suppliers conditions, refer to the Suppliers Product manual.
Anchor requirements	Required – See requirements of the permitted terminals
Point-of-need (location)	At leading end of a Quadguard CZ
Hazard free area beside barrier or terminal	See the requirements of the cushion
Minimum length between terminals (m)	56m when used with Quadguard CZ
Terminal length (m)	See the terminals permissible
Systems width (m)	0.6
Minimum offset to travel lane	See the terminals permissible
Vehicle roll allowance (m)	Use design guideline values
Performance needs	Low speed Ironman barriers are marked on the lower corners with black square to indicate it is a speed restricted barrier as well as having the speed restriction marked on the top of the barrier.



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Adopted Dynamic Deflection:

Vehicle: Utility (2000 kg) Adopted							
Speed	25°	20°	15°	10°	5°		
110							
100							
90							
80							
70	1.05						
60							
50							
40							
Note: The deflection is interpolated from a crash test carried out at 100km/h.The installation on that test was 56m between anchors and therefore the deflection for installations							

longer than 56m will be greater that indicated above

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Saferoads Pty Ltd Sales@saferoads.com.au Sales@saferoads.com.au Legacy

Variants accepted as Legacy	4m and 12m units with deflection limiting spacers.
Variants not accepted as Legacy	 4m and 12m units without deflection limiting spacers. All 8m units. Units anchored to the surface. Units with anti-gawk screens attached.
Design speed limit (km/h)	50
Tested containment (kg)	2000
Terminals permitted	Triton C.E.T
Median use	Allowable – Consider the dynamic deflection of the system
Gore area use	Allowable – Consider the dynamic deflection
Pedestrian area use	Allowable – Consider the dynamic deflection and the top edge of the barrier
Cycleway use	Allowable – Consider the dynamic deflection and the top edge of the barrier
Frequent impact likely	Allowable in these situations but assess damage before reuse
Slope limit	 20H:1V (5%) for crossfall 20H:1V (5%) for longitudinal slope
Foundation conditions	Foundation in accordance with VicRoads Specifications or the requirements of the Supplier, whichever is the greater requirement. For the Suppliers conditions, refer to the Suppliers Product manual.
Anchor requirements	Required – See requirements of the permitted terminals
Point-of-need (location)	30m from the beginning of TRITON C.E.T.
Hazard free area beside barrier or terminal	Equal to working width where the units are tapered through the Clear Zone
Minimum length between terminals (m)	72m when used with Triton C.E.T
Terminal length (m)	See the terminals permissible
Systems width (m)	0.6
Minimum offset to travel lane	See the terminals permissible
Vehicle roll allowance (m)	Use design guideline values
Performance needs	Low speed Ironman barriers are marked on the lower corners with black square to indicate it is a speed restricted barrier as well as having the speed restriction marked on the top of the barrier. Note that the 70km/h speed rating applies only when anchored with a cushion.

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Adopted Dynamic Deflection:

Vehicle: Utility (2000 kg) Adopted						
Speed	25°	20°	15°	10°	5°	
110						
100						
90						
80						
70						
60						
50	0.88					
40						
Note: The deflection is interpolated from a crash test carried out at 100km/h.						

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