



Safety Barrier System Acceptance Conditions

TREND 350 Steel Rail Terminal

		Distributor Ingal Civil Products	
		Date Issued 1 January 2020	
Status	<p>Legacy – No new installations permitted. Existing installations may be maintained until the end of their service life.</p> <p>These acceptance conditions should be read in conjunction with the Product Manual and Transport for NSW Specification R132 – Safety Barrier Systems.</p> <p>These acceptance conditions take precedence over any instructions in the Product Manual.</p> <p>Transport for NSW may withdraw or modify this acceptance at any time without notice. Users should refer to the Transport for NSW website to ensure they have the latest version of the conditions related to this product.</p>		
Product accepted	<ul style="list-style-type: none"> 11.9 metre TREND 350 Steel Rail Terminal. <p>This is a gating terminal designed to allow a vehicle impacting the nose, or the side of the terminal at an angle near the nose, to pass through the terminal and behind the barrier. Gating terminals shall have a run-out area behind the terminal that is traversable and free of hazards.</p>		
Variants NOT accepted	<ul style="list-style-type: none"> Variants that are not on the list above are not accepted. Variants accepted in other jurisdictions, but not accepted in the local jurisdiction, are NOT permitted. 		
Speed limit (km/h)	110 km/h		
Tested containment	NCHRP 350 Test Level 3 (2,000 kg at 100 km/h and 20°)		
Accepted dynamic deflection	All speeds	1.2 metres	<p>Note: the accepted deflections are those measured in crash tests performed under controlled conditions. Crash tests represent an approximation of what is likely to be seen in the field. The use of interpolated/extrapolated deflection values is not accepted..</p>
Point of redirection	Post 3, 4.25 metres from the end of the Extruder Head		
System conditions	1. Installation on top of a kerb is not recommended, however if installed on top of a kerb, all system components must be free to operate.		

Approved connections <i>[A terminal must be fitted to both ends of a barrier]</i>	W-Beam guardrail	Permitted
	Thrie-Beam guardrail	Permitted
	Type F Concrete Safety Barrier	Not permitted
	Proprietary product	See safety barrier conditions for approved proprietary connections
Gore area use	Permitted – not suitable for impact on the post side	
Pedestrian area use	Permitted – consider potential for snagging, deflection and rail splay	
Cycleway use	Permitted – consider potential for snagging, deflection and rail splay	
Median use	Permitted – not suitable for impact on the post side	
Slope limit	Side slope limit: 10 Horizontal to 1 Vertical (10%)	
Foundation pavement conditions	Concrete	Permitted with coring holes
	Deep lift Asphaltic Concrete	Permitted with coring holes
	Asphaltic concrete over granular pavement	Permitted
	Flush seal over granular pavement	Permitted
	Unsealed compacted formation	Permitted
	Natural surface	Permitted
	Foundation pavement conditions must be smooth and free of snag points, kerbs or obstructions that may interfere with the operation of the product.	
Attachments and screens	<p>In accordance with the requirements of Australian/New Zealand Standard AS/NZS 3845, road furniture such as headlight screens, signs, lighting posts and fences for pedestrians, visual screens, debris screens, platforms for workers and other non-product hardware <u>must not be attached</u> to the product.</p> <p>Screens may be placed adjacent to the side of the product not exposed to traffic. The distance between the screen and the product shall be determined by a site specific risk assessment that considers the deflection distance.</p> <p>Screens must not have horizontal members that present a risk of impaling errant vehicles that impact the product.</p>	
	Acceptance of this product does not place any obligation on the Road Agency, or its contractors, to purchase or use the product.	