

Heavy duty high speed natural rubber rail level crossings

Rubber Level Crossing Panels

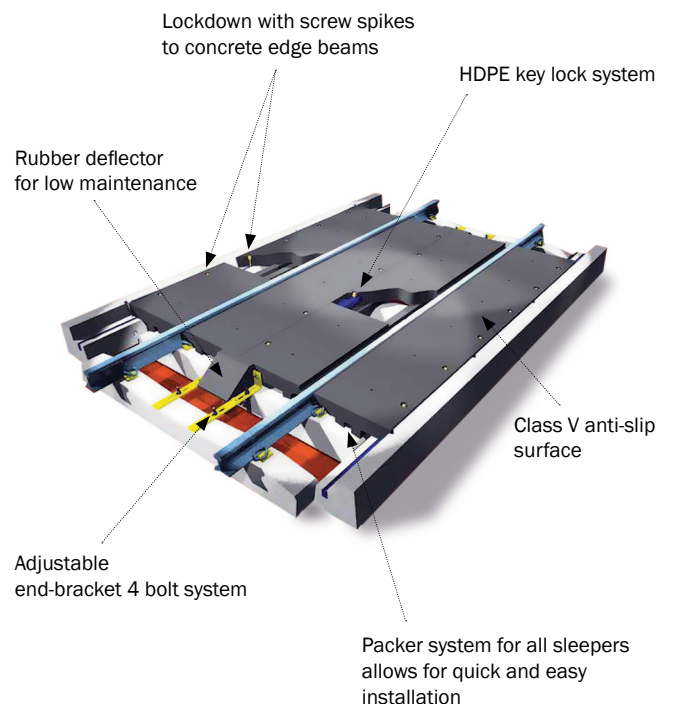
Trelleborg Rubber Level Crossing Panels, made from natural rubber allow for years of maintenance-free service and ensures that panel separation cannot occur while providing maximum load bearing capabilities for heavy duty applications.

The raised anti-slip road surface pattern, ASNZ 4586 Class V (IS > 44 = V.Low), has been designed to allow for efficient water drainage to minimise fouling of the track bed with debris.

Outside panels (field panels) are designed to fit our unique pre-fabricated concrete edge beam assembly used for retaining the panels in place. They also allow for the panels to be removed for track maintenance without any disturbance to the road surface on either side while keeping road material away from track drainage areas.

Another feature is the quick removal of individual panels for safety and maintenance inspections without disturbance to the remainder of the crossing.

Trelleborg's applied technologies operation in Australia has a quality assurance accreditation and maintains a comprehensive in-house testing facility to ensure components surpass industry standards.



Benefits

Durable

- Type tested since 1991. Access to Trelleborg technical staff for assistance with specification details and installation training

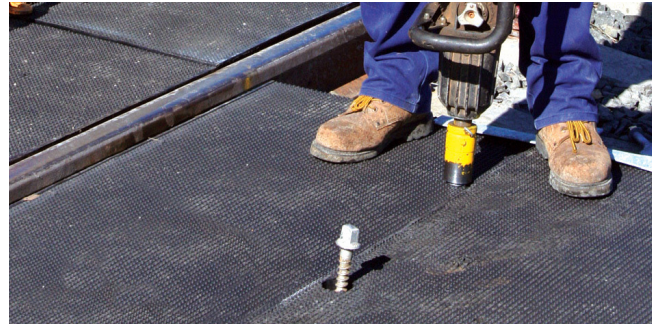
ARTC approved

- Concrete edge beams are ARTC approved for high speed and are rated to 110km/h and tested to 140km/h - within the tyre load ratings 'Inter state Road Transport Regulations 1986 -Schedule 4'
- The system comprises a minimum number of components, resulting in less track possession time and road closures
- Trelleborg use Delkor screws on both field panels & guage panels ensure stable structure

Flexible design

- The design flexibility ensures compatibility with all types of rail and sleeper combinations

Easy Installation



Load tested to 3 times the required safety factor

Trelleborg Rubber Level Crossing Panels exceed all loading criteria as laid down in Australian regulations by a minimum factor of 3, i.e.:

- Interstate Road Transport Regulations 1986 -Schedule 4
- National Heavy Vehicle Reform, Vehicle Operations, Heavy Vehicle Mass, Loading and Access - Roads and Traffic Authority, NSW

Product specifications

Field panels:

Length - 1200 mm
Width - to suit sleeper length
10 Ton Type Load \leq 1.7 mm Deflection

Gauge panels:

Length - 1200 mm
Width - to suit track gauge and sleeper profiles
10 Ton Type Load \leq 1.72 mm Deflection

Weight:

Field panel - Approximately 140 kg
Gauge panel - Approximately 140 kg

Concrete edge beams:

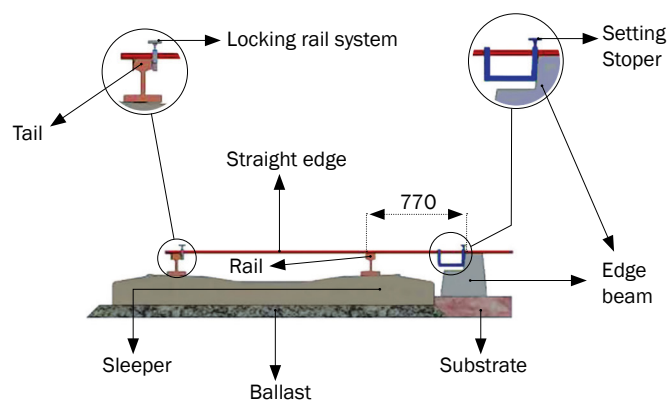
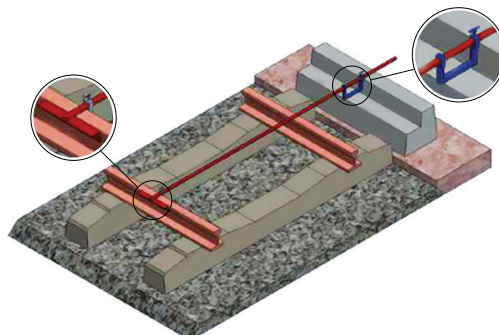
40 mpa concrete with HDPE inserts

Steel edge beams:

Galvanised beams also available with same high density plastic inserts to lock down panels

Simple installation tools for onsite solutions

Setting the edge beam



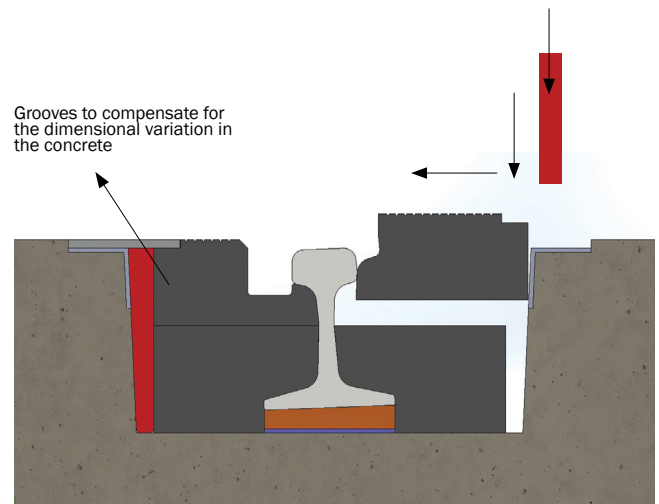
Custom solutions

Flexible ballastless solutions for rail yard and bulk handling areas

We can custom manufacture panels for special applications. Examples would include rubber crossing panels for concrete areas, loading zones, bulk handling, tunnels and rail yards or weigh stations.

Trelleborg's custom solutions have been used when the rail has had to be lifted to maintain or allow access to the foundations below the rail infrastructure or where drainage maintenance is required.

HD-RX-68S Custom Panel



Contact us

Trelleborg Applied Technologies delivers innovative and reliable solutions, materials and smart systems that maximizes performance for our customers. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.



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