


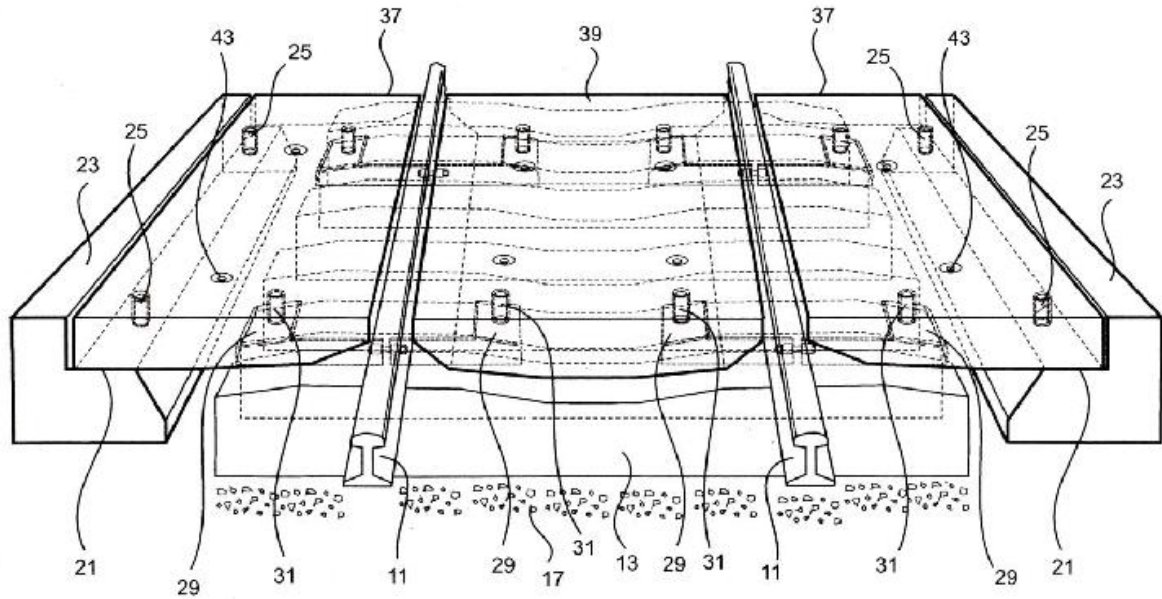




(i)	<b>Use in other rail networks</b>	Supplied in excess of 100 linear metre panels now in service for the heavy haulage iron ore railway in the Pilbara. (Refer to photos) Iron Ore Railway - BHP Billiton and Pilbara Rail in the Pilbara NWA.						
(ii)	<b>Use in the ARTC network</b>	Not used yet.						
(iii)	<b>Issues arising from usage of the equipment/system</b>	<ol style="list-style-type: none"> <li>1. Designed to accommodate 600mm sleeper spacing.</li> <li>2. Dimension/sleeper drawing, rail and fastening.</li> <li>3. Specify Identify tangent or curve + radius.</li> </ol>						
(iv)	<b>Changes required to infrastructure or systems for use of the equipment</b>	5 concrete sleepers to be spaced at 600mm.						
9	<b>Reliability</b>	<ol style="list-style-type: none"> <li>1. Vandal proof with no exposed tie rods or locking attachment.</li> <li>2. Fully insulated.</li> <li>3. Panels are locked together to form an interlocking triangulated section preventing separation.</li> <li>4. Fast fit for initial installation- removal/reinstatement for track maintenance.</li> <li>5. Panels can remove/install easily and safer by tamper and rail grinder operators, by a 2.5 tonne crane fitted to each machine eliminate the use of track gang.</li> </ol>						
10	<b>Maintainability</b>	Solid construction well tested in the Pilbara.						
11	<b>Approval *</b>	JD Rail machines (Aust) Pty Ltd standard and heavy haul precast concrete interlocking concrete crossing is approved for use where suitable across the ARTC network.						
12	<b>Conditions of Approval *</b>	<ol style="list-style-type: none"> <li>1. Only to be used for road crossings where road geometry (not speed signs) limits the speed of heavy road vehicles to 80 km/h. These limits could be due to - proximity to tight curves, T junctions, crown of hill, etc. For NSW, see also condition in 5.3 of XDS - 01.</li> <li>2. Installation and training manual will be supplied.</li> <li>3. JD Rail can provide representative to supervise installation - at cost.</li> <li>4. Spare parts are available with reasonable stocks in Australia.</li> <li>5. Crossings to comply with all applicable regulations from State road Authorities, especially with respect to surface finish e.g. skid resistance.</li> <li>6. Supplier to retain QA accreditation and supply Quality Plan to ARTC. This is to include sample testing of concrete and reinforcement and dimensional tolerances as a minimum. Summary checklists confirming compliance, to be supplied to ARTC with each delivery.</li> </ol>						
13	<b>Does the Originator accept the additional Conditions of Approval as set by the Review Panel:</b>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">No</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">N/A</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>			

14	<b>Sign off</b>		<b>ARTC office use only</b>
	<b>Review Panel:</b>		
	J F Furness		Date: 3/3/08
	T S Calver		Date: 3/3/08
	W Potter		Date: 3/3/08

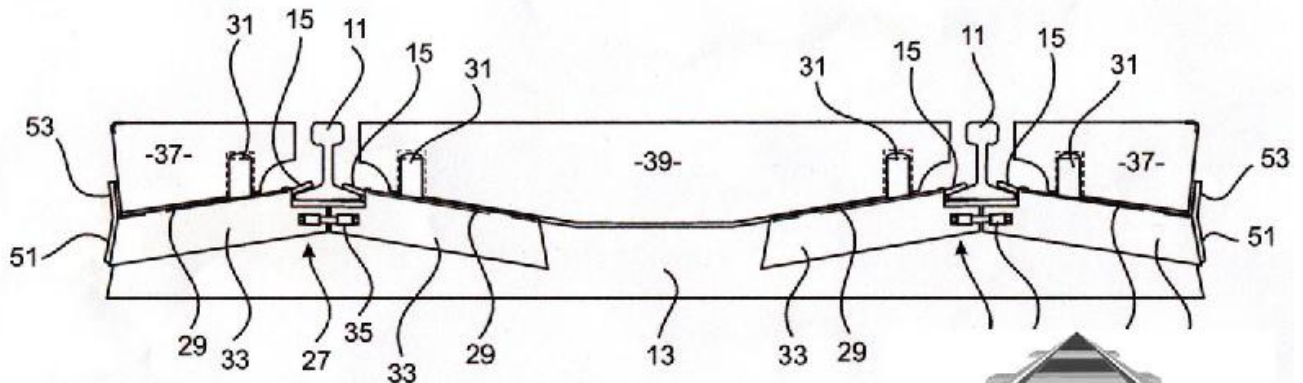




**Fig 4**

Description	Weight (kg)	Dimensions (mm)
Center Panel	1800	3000 x 1340 x 240
Field Side Panels	800	3000 x 850 x 190
Foundation Block	1200	3000 x 500 x 400
Crossover Total Weight	3800	
Cat 785C Gross Weight	250,000	

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 Patent No. 2006/03555  
 World Patent Pending



**Fig 5**

Description	Weight (kg)	Dimensions (mm)
Center Panel	1800	3000 x 1340 x 240
Field Side Panels	800	3000 x 850 x 190
Foundation Block	1200	3000 x 500 x 400
Crossover Total Weight	3800	
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