

**PBS EXP 14 - PM Semi with 2 or more axle groups L2**

Approval under section 9(1)(b)(i) of the Heavy Vehicle (General) National Regulation – Noncompliance

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The type of heavy vehicle:	PM Semi with 2 or more axle groups (Level 2)
The standard/s under the Standards and Vehicle Assessment Rules that a vehicle built to the design may not comply with:	Maximum of Difference (C8b) Standard: 400mm Difference of Maxima (C8c) Standard: 200mm This vehicle design:   MOD 430 mm (exceedance of 30mm) DOM 280 mm (exceedance of 80mm)
Reasons why the non-compliance will not pose any additional risk to safety or infrastructure if the particular conditions are imposed and complied with.	<p>The Regulator undertook a risk assessment before determining its support for the design. The Regulator concluded that although a heavy vehicle built to the design would not comply with Maximum of Difference (C8b) and Difference of Maxima (C8c) under the Standards and Vehicle Assessment Rules, it would not pose any greater risk than a heavy vehicle that did comply with the standard for the following reasons:</p> <ul style="list-style-type: none"> <li>• The front of the trailer falls within a 1.9m making the outswing of the front of the trailer on turns no worse than can be expected for a vehicle meeting the prescriptive standards, and other aspects of the vehicle’s PBS performance further reduce the risk.</li> <li>• It exceeds the requirements of Low-Speed Swept Path (C7) in a way that offsets the failure to comply with Maximum of Difference (C8b) and Difference of Maxima (C8c). (Standard: 8.7m; This vehicle: 7.9m)</li> <li>• Because of its 800mm margin for Low Speed Swept Path (C7), it will operate comfortably within Level 2, despite its non-compliance with C8b and C8B, the vehicle will require less road space than other vehicles that comply with Level 2 standards.</li> <li>• The vehicle could be made to fully comply by installing a bulbar; however, Low-Speed Swept Path (C7) and Frontal Swing (C8a) would then be on the level 2 limit. The benefits higher performance in C7 and C8a would be lost by fixing the minor nonconformance with Maximum of Difference (C8b) and Difference of Maxima (C8c).</li> </ul>