

PBS EXP 21 - A-Quad (3-2-4-2-4-2-4)

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

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The type of heavy vehicle:	Tri-drive A-Quad (3-2-4-2-4-2-4) (Level 4)
The standard/s under the Standards and Vehicle Assessment Rules that a vehicle built to the design may not comply with:	Gradeability (Part B) C2b – Speed on 1% Grage Standard: 60km/h This vehicle: 52km/h at masses from 165t to 183.5t, (Shortfall of 8 km/h)
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 Gradeability (Part B) C2b under the Standards and Vehicle Assessment Rules, with conditions applied it would comply with the intent of the standards and 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"> • The vehicle will have the following conditions applied when operating at Level 4 above 165t, the maximum grade must not exceed 3% as approved by the responsible Road Manager and the mass on the drive axle group must be at least GVM X 0.11 (t), minimum 20.2t drive axle mass at 183.5t GVM. • The grade restriction and drive mass requirements ensure that the vehicle will be able to maintain acceptable speed. • The vehicle is intended for roads with maximum 2% grade and road manager may also approve or not based on traffic volumes. • The vehicle is not likely to be a stalled vehicle hazard as it meets Startability and Gradeability A at level 4.
Particular Conditions: (brief description)	<p>When operating at Level 4 above 166.5t:</p> <ul style="list-style-type: none"> • the maximum grade on routes must not exceed 3%; and • the mass on the drive axle group must be at least 11% of the total combination mass e.g. at 183.5t total combination mass, $186.5 \times 0.11 = 20.2t$ is required on the drive axle group. This clause does not apply to an unladen vehicle.