

DuraLED® PRIME REAR SIGNAL LAMP

Fitting requirements in New Zealand with reference to ECE regulations.

New Zealand lighting rules allows multiple standards for rear lamps, the predominate ones being Australian Design Rules (ADR), Federal Motor Vehicle Safety Standards (FMVSS – DOT / SAE) and Economic Commission for Europe (ECE).

The NZ lighting rule allows for one or two pairs of rearward-facing position lamps at the lower rear of the vehicle and one pair at the top.

Please refer to NZ Lighting rules for more detailed information.

www.nzta.govt.nz/resources/rules/vehicle-lighting-2004-index.html

The European regulations governing rear lighting approvals have been consolidated. Previously covered by multiple ECE regulations, rear combination lamps are now addressed under a single standard, ECE R148. This updated regulation also introduces revised approval marking requirements for the lamps.

The latest DuraLED Prime is compliant with ECE R148 and incorporates a rear position function across all three variants - Stop, Indicator, and Reverse. This function is delivered through a distinctive illuminated band along the top and bottom of the lamp, creating a glowing body effect.



**Stop /
Rear Position Lamp**



**Rear Direction Indicator /
Rear Position Lamp**



**Reversing /
Rear Position Lamp**

Each lamp complies with the requirements for its individual function (e.g., stop, indicator). In addition, every lamp meets ECE R1D compliance, referred to as Type D compliance.

Type D compliance

Type D compliance permits the installation of three lamps on the lower rear of each side of the vehicle when specific design and marking considerations are applied.

Shown is the approval engraving for the
Rear Direction Indicator / Rear Position lamp
P/N 2BA 350 300-011



The engraving above shows the compliance the lamp has: (All Prime variants have R1D engraving)

- E24 ECE approved, 24 indicates type approved by NSAI (Ireland), valid worldwide
- R1D R1 = Rear Position (Tail), D = Type D, Assembly of two independent lamps
- 2a Rear Direction Indicator
- 148R01 Compliant with ECE Regulation 148, Amendment 1
- 5945 Approval Number

The Type D function is a first for Hella New Zealand, and allows the following:

- When an assembly of two independent lamps, to be type approved as lamps marked "D" and having the same function, is deemed to be a single lamp, it shall comply with the requirements for:
 - (a) Maximum intensity if all lamps together are lit;
 - (b) Minimum intensity if either lamp has failed.

When two Type D lamps are installed together, they are deemed to be one lamp.

In the configuration shown, three lamps are present; however, due to their Type D compliance, they can be considered as two rear position lamps when fitted in accordance with ECE R48 for regulatory purposes and are therefore compliant in New Zealand



For two Prime rear position lamps to be treated as a single lamp, they must be installed with a separation of up to a maximum of **65mm** between them when measured edge to edge.

To clarify, only rear position lamps with specific Type D compliance - identified by an "R1D" marking that must be visible when installed - are permitted to be fitted in this configuration. Rear position lamps with conventional ADR or ECE approvals are limited to a maximum of two per side on the lower section of the vehicle.

Additionally, all lamps on the vehicle must be installed in accordance with an appropriate installation standard, such as ECE R48 or the New Zealand Lighting Rules.

Please see our web site for further information www.hella.co.nz