`

Dangerous Goods Tank Design Approval Application – AS 2809.5:2001 Compliance Report

## AS2809.5: Requirements for vehicles transporting bitumen-based products

You must explain how the tank vehicle will comply with each of the clauses in the standard listed below. It is not sufficient to state that the vehicle complies: you must explain **how** the vehicle complies with the relevant requirements contained in the standard, with reference to evidence where necessary. This ensures the reviewer can confirm whether the vehicle is compliant.

If there are any items that are not compliant, contact the EPA to discuss these non-compliances before submitting the application. While in some circumstances the EPA may approve a tank vehicle that does not comply with a particular requirement, you will need to explain:

* why the variation from the standard is necessary
* what alternative criteria the variation should be assessed against
* why the design does not result in greater risk than one that complies with the requirement.

This document must be submitted along with an application for a dangerous goods tank design and the other relevant compliance reports.

| Clause | Comment or explanation | Reference(specs or drawings) | Compliant(Y, N, N/A) | Office use only |
| --- | --- | --- | --- | --- |
| 1.7.1 | Spillage hazards |  |  |  |  |
| 1.7.2 | Propulsion engine exhaust |  |  |  |  |
| 1.7.3 | Auxiliary engine intake and exhaust |  |  |  |  |
| 1.7.4 | Rear impact protection |  |  |  |  |
| 2.1 | Materials |  |  |  |  |
| 2.2.1 | Tank design criteria |  |  |  |  |
| TABLE 2.2.12(A) [[1]](#footnote-1)NOTE | Tank type |  |  |  |  |
| Rated capacity per metre |  |  |  |  |
| Maximum shell radius |  |  |  |  |
| Unreinforced length of shell & material |  |  |  |  |
| Compliance with minimum thickness |  |  |  |  |
| 2.2.2 | Stiffening heads and baffles |  |  |  |  |
| 2.2.3 | Circumferential reinforcement |  |  |  |  |
| 2.2.4 | Access through baffles |  |  |  |  |
| 2.2.5 | Distribution of loads |  |  |  |  |
| 2.2.6 | Rollover protection |  |  |  |  |
| 2.2.7 | Component attachment |  |  |  |  |
| 2.2.8 | Welding |  |  |  |  |
| 2.2.9 | Fire tube design |  |  |  |  |
| 2.3.1 | Tank openings – general |  |  |  |  |
| 2.3.2 | Manholes |  |  |  |  |
| 2.3.3 | Valves |  |  |  |  |
| 2.3.4 | Sampling valves |  |  |  |  |
| 2.3.5 | Vents and venting |  |  |  |  |
| 2.3.6 | Loading protection |  |  |  |  |
| 2.4.1 | Loading |  |  |  |  |
| 2.4.2 | Dipstick |  |  |  |  |
| 2.5.1 | Piping |  |  |  |  |
| 2.5.2 | Circulating pipework |  |  |  |  |
| 2.5.3 | Hoses and couplings |  |  |  |  |
| 2.5.4 | Ladders and walkways |  |  |  |  |
| 2.5.5 | Flushing system |  |  |  |  |
| 2.6.1 | Pump suitability |  |  |  |  |
| 2.6.2  | Pump pressure |  |  |  |  |
| 2.6.3 | Pump engine |  |  |  |  |
| 2.6.4 | Auxiliary engine protection |  |  |  |  |
| 2.6.5 | Location of controls |  |  |  |  |
| 2.7.1 | Label equipment and valves |  |  |  |  |
| 2.7.2 | Identification plate |  |  |  |  |
| 2.7.3 | Burner operation signs |  |  |  |  |
| 2.8.1 | Cabling or electrical equipment |  |  |  |  |
| 2.8.2 | Protection of wiring |  |  |  |  |
| 2.8.3 | Battery |  |  |  |  |
| 2.8.4 | Battery isolation switch |  |  |  |  |
| 2.8.5 | Rollover device |  |  |  |  |
| 2.8.6 | Hazardous locations |  |  |  |  |
| 2.8.7 | Cabling Zone 2 |  |  |  |  |
| 2.8.8 | Cabling Zone 1 |  |  |  |  |
| 2.8.9 | Sparking equipment |  |  |  |  |
| 2.8.10 | Electrical bonding |  |  |  |  |
| 2.8.11 | Earthing point |  |  |  |  |
| 2.9.1 | Tank testing |  |  |  |  |
| 2.9.2 | Hatch assembly test |  |  |  |  |
| 2.9.3 | Piping test |  |  |  |  |
| A2.1 | LPG installation |  |  |  |  |
| A2.2 | Gas pipework |  |  |  |  |
| A3.1 | Burner types |  |  |  |  |
| A3.2 | Manual ignition system |  |  |  |  |
| A3.3 | Electronic ignition system |  |  |  |  |
| A3.5 | Heating in transit system |  |  |  |  |
| A3.6 | Heating in transit sensors |  |  |  |  |
| A3.7 | Burner rollover protection |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Vehicle description | enter text. | Manufacturer | enter text. |
| Capacity | enter text. | Number of compartments | enter text. |
| I declare the information I have supplied in this application is not false or misleading and is an accurate assessment of the design against the standard. |
| Name | enter text. |
| Position | enter text. |
| Email | enter text. |
| Signature |  | Date | enter text. |

NSW Environment Protection Authority

Email: info@epa.nsw.gov.au

Website: [www.epa.nsw.gov.au](http://www.epa.nsw.gov.au/)

EPA 2021P3175

July 2021
The EPA [disclaimer](http://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer) and [copyright](http://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright) information is available on the EPA website.

1. NOTE TABLE 2.2.12(A): To ascertain which shell, head and baffle thickness requirements should apply to this design, the following information is required: tank type (small compartment, large compartment U-type, large compartment R-type) rated capacity per metre of tank length, maximum shell radius and maximum unreinforced length of shell. [↑](#footnote-ref-1)