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Dangerous Goods Tank Design Approval Application - AS 2809.4:2022 Compliance Report

#### AS2809.4 – Requirements for vehicles transporting toxic or corrosive cargoes

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 does the design 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.

##### Note about tank type selection

AS 2809.4:2022 uses portable tank instructions to assign the tank type used for AS 2809.4, however the standards technical committee observed that this is an imperfect correlation. The note to Table 1.6 in the standard notes that the choice of tank type should be confirmed with the competent authority prior to design and construction to ensure that the appropriate tank type is selected.

##### Clauses that refer to other parts of AS 2809

Clauses in the table below that are marked with an asterisk (\*) refer to other parts of AS 2809. Comments provided in these sections should assess compliance against the relevant provisions in the referred parts of the standard.

| Clause | | Compliant (Y, N, N/A) | Comments | Reference (specs / drawings) |
| --- | --- | --- | --- | --- |
| 2.1 | Application – type 1, 2 or 3 |  |  |  |
| 2.2.1 | Design criteria |  |  |  |
| 2.2.2 | Design pressure |  |  |  |
| 2.3.1 | Shut-off valves |  |  |  |
| 2.3.2 | Pressure relief devices |  |  |  |
| 2.3.3 | Outlet connection |  |  |  |
| 2.3.4 | Piping |  |  |  |
| 2.3.5 | Location of tank openings |  |  |  |
| 2.4.1 | Piping |  |  |  |
| 2.4.2 | Pumping equipment |  |  |  |
| 2.4.3 | Tank openings |  |  |  |
| 3.1 | Application – type 4 or 5 |  |  |  |
| 3.2.1 | Standards – tank materials |  |  |  |
| 3.2.2\* | Material grades |  |  |  |
| 3.2.3 | Chemical resistance |  |  |  |
| 3.3.1\* | Type 4 tank design and construction |  |  |  |
| 3.3.2\* | Type 5 tank design and construction |  |  |  |
| 3.3.3 | Baffles |  |  |  |
| Tank info\*  SEE [[1]](#footnote-2)NOTE | Tank type |  |  |  |
| Cargo density |  |  |  |
| Rated capacity per metre |  |  |  |
| Maximum shell radius |  |  |  |
| Unreinforced length of shell & material |  |  |  |
| Compliance with minimum thickness |  |  |  |
| 3.4.1 | Openings, valves and vents – general |  |  |  |
| 3.4.2\* | Compartment openings |  |  |  |
| 3.4.3 | Valves |  |  |  |
| 3.4.4\* | Provision of vents |  |  |  |
| 3.4.5 | Top openings |  |  |  |
| 3.5.1 | Pipework – suitability |  |  |  |
| 3.5.2 | Pipework – Provisions for movement |  |  |  |
| 3.6.1 | Pumps – suitability |  |  |  |
| 3.6.2 | Prevention of overpressure |  |  |  |
| 3.7.1 | Pump drives – protection |  |  |  |
| 3.7.2 | Shielding of pump shaft |  |  |  |
| 3.7.3 | Location of controls |  |  |  |
| 3.8.1\* | Tank test |  |  |  |
| 3.8.2\* | Hatch assembly test |  |  |  |
| 3.8.3\* | Piping test |  |  |  |
| 3.8.4\* | Inspection and test hoses |  |  |  |
| 4.1 | Application – Type 6 |  |  |  |
| 4.2\* | Materials |  |  |  |
| 4.3 | Chemical resistance |  |  |  |
| 4.4\* | Enclosed air spaces |  |  |  |
| 4.5 | Tank design and construction |  |  |  |
| 4.6 | Compartment openings |  |  |  |
| 4.7 | Valves |  |  |  |
| 4.8.1 | Free venting |  |  |  |
| 4.8.2.1 | Emergency venting – general |  |  |  |
| 4.8.2.2 | Aluminium tanks |  |  |  |
| 4.8.2.3 | Steel and stainless-steel tanks |  |  |  |
| 4.8.3 | Fire |  |  |  |
| 4.8.4 | Security |  |  |  |
| 4.8.5 | Ullage |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 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. |

1. NOTE Provide information on the parameters from AS 2809.2 : 2023 table 2.2.12(A) (and modified by Table 3.1 as required): in order to ascertain which shell, head and baffle thickness requirements should apply to this design, the following information is required: tank type rated capacity per metre of tank length, maximum shell radius and maximum unreinforced length of shell. [↑](#footnote-ref-2)