

Gas Information Sheet 63

Gas piping support systems and AS/NZS 5601.1:2013



Introduction

This gas information sheet explains how to achieve compliance when a gas piping support system varies from the AS/NZS 5601.1:2013 'means of compliance' requirements.

A gas piping support system must comply with the 'means of compliance' requirements of AS/NZS 5601.1:2013 (Section 5.8). Where a proposed support system varies from these requirements—for example, a support system that includes the support of single and multiple pipes at the one support point using undersized diameter rod hangers and/or non-compliant support spacing—then a performance-based design application (as per Section 2 of AS/NZS 5601.1:2013) must be submitted to Energy Safe Victoria (ESV) for review and acceptance.

Submitting an acceptable performance-based design application

To submit an acceptable performance-based design application:

1. Create and submit a gas application using ESV's online system (GasTrac). Note within the scope of works that you are using a performance-based design for the pipe support system and attach a separate document that outlines your performance-based design proposal.
ESV Information sheet No.45 - Performance-Based Complex Gas Installations provides guidance on making a performance-based design application.

Supporting documentation from both the applicant and a competent person must be submitted to verify that the design meets the required performance outcomes.

The applicant must provide:

- a detailed description of the performance outcomes the alternative solution is required to meet from Section 2 - AS/NZS 5601.1:2013, in particular clauses 2.1 and 2.4.5, or other clauses deemed relevant
- clear identification of:
 - which 'means of compliance' clause/s from Sections 3 to 6 of AS/NZS 5601.1:2013 the performance-based design relates to
 - the specific section of the gas installation (scope of work) that the performance-based design relates to. (For example, 'the piping in the basement car park', or 'piping in the Level 5 commercial kitchen', etc.)

Additional information from a competent person to support the application must include:

- details of the relevant site address and location of the installed piping system
- evidence from the competent person that the supplied piping support system is based on their assessment of the proposed installation's support requirements
- a schematic of the piping route clearly showing how many pipes are supported, with pipe size and support spacing noted
- details of the materials to be used in the piping support system, for example, the size and type of anchors, rod hangers, horizontal supports, clip heads, etc.,
- information about whether the piping support system requires additional design or components for flexibility (expansion) demands, and if so, then how that will be managed.

2. Supporting documentation will only be accepted if it is supplied and signed off by a competent person.

A 'competent person' is defined as either:

- a suitably qualified engineer if it is a custom designed system with no supporting information from a piping support manufacturer, or
- an authorised representative from the piping support system manufacturer if it is a proprietary system with supporting information from the piping support manufacturer.

GasTrac applications

If the application is:

- a new application, then attach the performance-based design for the proposed gas piping support system as a separate document with your GasTrac gas application
- in response to an identified non-compliance, then if the installed system is to remain unmodified, then submit a performance-based design application for review and approval.

Further information

Contact ESV's Technical Information Line on 1800 652 563, or email gastechnicalenquiry@energysafe.vic.gov.au.

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