

## Solar Hot Water System Pressure Relief Drains

### Definitions

Uncontrolled Heat Source: A Close Coupled Solar Hot Water Systems that is not fitted with a Thermosiphon Arrestor Valve

TPR Valve: Temperature / Pressure Relief Valve

### Introduction

This Information sheet is relevant only to the termination point of a drain line from a TPR valve connected to an Uncontrolled Heat Source. It applies to new installations as well as alterations, additions or repairs to existing installations within the Livingstone Shire.

The purpose of this information sheet is to minimise the risk of damage to buildings and injury to persons by giving example methods that satisfy the intent of AS3500.4:2018 Clause 5.11.3(d):

*The point of discharge from each drain line shall be located so that the release of steam or hot water does not cause a nuisance, is readily discernible and incurs no risk of damage to the building or injury to persons.*

This document must be read in conjunction with the overarching legislation particularly the Plumbing and Drainage Act 2018, The Plumbing and Drainage Regulation 2019, The National Construction Code – Volume 3 and AS3500.4: Heated water Services

### Design Principals

The discharge termination point for a TPR Valve drain line from an Uncontrolled Heat Source satisfies the intent of AS3500.4 CL5.11.3(d) if:

- a) Physical protection from temperature/pressure relief valve discharge is provided;
- b) Waste riser and in-ground pipework are a minimum of 100 millimetres diameter;
- c) Temperature/pressure relief drain lines terminate at a disconnecter gully to sewer or to a rubble pit no less than 0.5 of a cubic metre in volume and located no less than two metres from the footings of any building;
- d) The termination point is visible; and
- e) An air gap is maintained.

Appendix A provides examples of accepted solutions. Appendix B provides examples of non-compliant Installations that pose a risk of injury to persons or damage to buildings.

This information sheet does not provide an exhaustive list of possible installations but rather provides a minimum standard for compliance with Legislation.

### Authority and Related Documents

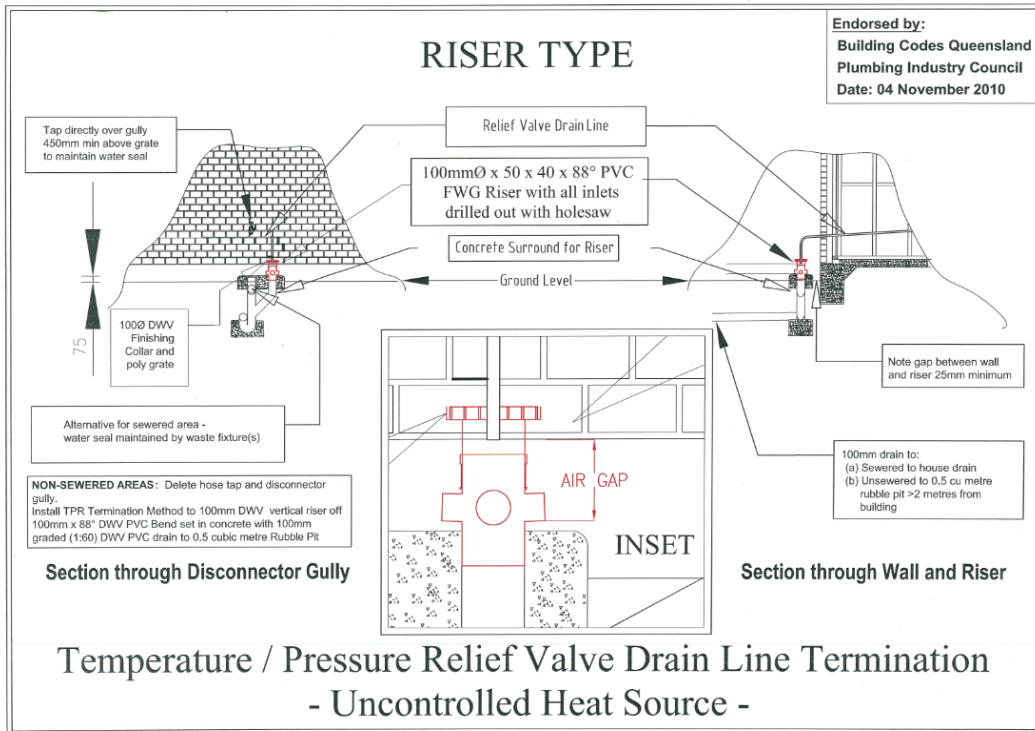
Plumbing and Drainage Act and Regulation, National Construction Code Vol 3, Local Government Act

### Further Information

If you require further information, please contact Built Environment on 49399935.

*This document is produced as a guide only. Whilst every effort has been made to ensure the information is correct at the time of printing, no responsibility or liability is accepted by Council of any of its representatives for any errors or omissions.*

# Appendix A



# Appendix B

