



0816 Tanks

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Table of contents

0816 Tanks	0
Table of contents.....	1
List of tables	1
List of figures	1
00 Design principles.....	2
0.01 Main considerations	2
0.02 Roof water harvesting and tank storage.....	2
Specification	2
01 General.....	2
2 Product	3
3 Execution.....	3
4 Selections.....	3
4.1 Tank Schedule	3

List of tables

Table 01: Tank schedule.....	3
Table 02: Gravity Pressure Tank – Animal Space HS.....	4

List of figures

No table of figures entries found.

00 Design principles

0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

0.02 Roof water harvesting and tank storage

It is DoE policy to include roof water harvesting in projects and tank storage must be included in new schools and encouraged where practical in existing schools, to reduce the demand on drinking water supplies.

The rainwater tank water must be connected to irrigation systems for adjacent landscape/gardens with the major preference being for gravity fed supply to minimise ongoing maintenance.

The rainwater tanks must be connected to toilets for toilet flushing. If this is not feasible, approval must be granted by SINSW.

Where schools are required to install a sprinkler system for fire safety, a closed loop system must be installed to capture and reuse testing and maintenance water, or an alternative non-potable water source.

For more details see [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - WATER](#) and [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - SUSTAINABILITY](#).

Specification

01 General

As per current NATSPEC except as follows:

In accordance with the NSW Government Resource Efficiency Policy, all fixtures and fittings must be at least the average WELS star rating by product type. Where WELS rating is not available, use the alternative WaterMark rating scheme.

All new water-using appliances must be at least 0.5 stars above the average Water Efficiency Labelling and Standards (WELS) star rating by product type, except toilets and urinals, which must be purchased at the average WELS star rating.

Appliances and equipment purchased with star ratings under the WELS scheme will be at least as scheduled in 0800 / Hydraulics general for WELS rating.

Consult with the local health authority and the School Principal for specific requirements for Infectious disease control for drinking water outlets and water bottle filling outlets at the school.

2 Product

As per current NATSPEC.

3 Execution

As per current NATSPEC.

4 Selections

GUIDE NOTE: Delete subclause "4.1 Tanks" nominated in NATSPEC Building Template/ Worksection and replace with the following text:

4.1 Tank Schedule

GUIDE NOTE: Remove fixtures not required. Insert project specific locations. Refer to Educational Facilities Standards and Guidelines.

Table 01: Tank schedule

Property	T1	T2	T3
Type			
Colour			
Shape			
Roof			
Inlet connection			
Outlet connection			
Location			

Property	T1	T2	T3
Net capacity (litres)			
Approximate Dimensions (mm)			
Minimum manufacturer's warranty period (years)			

Table 02: Gravity Pressure Tank – Animal Space HS

Property	
Location	HS Animal Space
Type	Gravity pressure tank
Capacity	56 litre
Valve	Fit with automatic refilled valve operated by a copper ball cock and a stop cock. All approved by the water supply authority.
Plumbing	25mm copper pipe at 2100mm. Blank off