



0815 Drinking Water Dispersers

Document version: 2.0

Published date: 30/11/2022

Disclaimer: The information within this document once printed/exported will be classed as an uncontrolled copy. Its currency must be checked by visiting the EFSG/Technical Standards website prior to using the information for any purposes.

Table of contents

0815 Drinking Water Dispensers	0
Table of contents.....	1
List of tables	1
List of figures	1
00 Design principles.....	2
0.01 Main considerations	2
Specification	2
01 General.....	2
2 Product	2
3 Execution.....	2
4 Selections.....	3
4.1 Drinking Water Dispenser Schedule	3

List of tables

Table 01: Water dispenser system schedule	3
Table 02: Drinking fountains	4
Table 03: Water bottle fillers	4
Table 04: Fabricate SS Trough – Wash / Drinking Trough PS + HS	4
Table 05: Chilled Drinking Water System PS + HS - West of 33 deg Isotherm.....	7

List of figures

Figure 01: Wash Trough	6
------------------------------	---

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).

GUIDE NOTE: Refer to Design Guide sections [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST – HYDRAULIC](#), [08 HYDRAULIC/0822 WASTEWATER](#).

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 [08 HYDRAULIC](#) 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

As per current NATSPEC except as follows

4.1 Drinking Water Dispenser Schedule

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

Table 01: Water dispenser system schedule

Property	A	B	C
Manufacturer			
Dispenser system			
Capacity / flow rate			
Water delivered			
Warranty			
Options			
Finish			
Font			
Air cooled model			
Mixer tap			
Sink mixer disabled lever			
Dispenser style			
Filter			
Tundish / outlet			
Mounting			

Table 02: Drinking fountains

Property	
Location	General
	Single unit Drinking Fountains not to be used in schools. Refer to Wash / Drinking Trough below.

Table 03: Water bottle fillers

Property	
Location	General
	Provide water bottle fillers at each drinking water dispenser station.

Table 04: Fabricate SS Trough – Wash / Drinking Trough PS + HS

Property			
Location	Boys + Girls Toilets, Outdoor learning areas, Drinking facilities general, HS showers + change		
Type	SS trough with support assembly, ss splashback Refer to Figure 1 Wash Trough.		
Material	Stainless steel Grade 304 No4 finish 0.9 mm thick		
Outlet	50mm, SS grate with sufficient fall to effectively drain water to the grate.		
Corners + Edging	Radius rounding finish to all corners, Return folds to remove all exposed leading edges. Sharp edges are not accepted.		
Identification	Manufacturers name to be permanently embossed in a clear visible location on the trough		
Plumbing	Chrome plated copper or SS. PVC piping or PVC waste pipes or traps or flexible piping are not to be used.		
Rim height to ground or FFL		Wash Trough	Drinking Trough
	Pre school	550mm	550mm
	Primary	650mm	700mm
	Secondary	700mm	900mm
Bottle Filler Outlet	Provide for minimum 1 water bottle filling outlet in addition to bubbler outlets		

Property	
Trough Guard	Refer to Drinking / Wash Trough Guard in 05 INTERIOR/0552 METALWORK . Drinking Trough Guards to be installed on all external Drinking Troughs.
Splash Back	Height 300mm Fixed securely to wall
Support Assembly	40mm x 6mm MS assembly with pre-drilled fixing holes. Fully welded. Hot dip Galvanised after fabrication. Fix securely to wall through pre drilled holes with noncorrosive fasteners and 10mm dia min masonry anchors. Refer to Bracket for Drinking / Wash Trough in 05 INTERIOR/0552 METALWORK .

LOCATION
PS603.03 Drinking Facilities
HS603.02 Drinking Facilities

Metal Fixtures
Wastewater
Freshwater

Guide only; do not use as a construction detail.
Trough standard lengths up to 4800 in 400 increments.



INFANTS	550
PRIMARY	650
SECONDARY	700

INFANTS	550
PRIMARY	700
SECONDARY	900



NTS

Table 05: Chilled Drinking Water System PS + HS - West of 33 deg Isotherm

Property	
Location	Only to be provided west of 33 degree Isotherm
Type	Mains connected storage system water cooler with tin plated reservoir fitted with drain to facilitate periodic cleaning.
Reservoir Capacity	123 litre
Refrigerant	Non-toxic and inflammable
Temperature Control	Thermostat, factory pre-set
Compressor	½ hp capacity, 1120 watts. Hermetically sealed for silent running
Condenser	Copper tube and aluminium fin
Rating Conditions – Performance	In accordance with manufacturer's instructions
Installation	Provide for minimum 1 water bottle filling outlet in addition to bubbler outlets
Bottle Filler Outlet	Height 300mm Fixed securely to wall
Number of Units	GUIDE NOTE: Refer to Accommodation Schedule for determining number of chilled drinking water units.
	The above unit is capable of supplying up to 4 outlets during peak periods.