



# Building Product Information Sheet | Class 1

**Product Name:** Humes Concrete Pipe Detention Tank

**Product Line:** Humes Concrete Pipes

**Product Description & its intended use (*measurements, materials, usage*):**

Humes Concrete Pipe Detention Tanks are suitable for a variety of gravity drainage applications when specified and installed by appropriately qualified persons. The items are manufactured using reinforced concrete and are available in a variety of diameters, lengths and load ratings as outlined in the Humes literature. The items are often a component part of a drainage system designed by others (design or consultant engineers).

**Product Identifier:** N/A

**Place of Manufacture:** New Zealand

**Legal & Trading name of Manufacturer(s):** Fletcher Concrete & Infrastructure Limited trading as Humes Pipeline Systems

**Address for Service:** 810 Great South Rd, Penrose, Auckland 1062

**Website:** [www.humes.co.nz](http://www.humes.co.nz)

**Email Address:** [info@humes.co.nz](mailto:info@humes.co.nz)

**Phone No.:** 0800 502 112

**NZBN (If applicable):** 9429037777548

### Relevant Building Code Clauses:

With appropriate design, construction, and maintenance (see below), Humes Concrete Pipe Detention Tanks can demonstrate compliance with:

- B1 Structural Performance B1.3.1 to B1.3.4
- B2 Durability - B2.3.1 (a)
- E1 Surface Water – E1.3.3
- F2 Hazardous building materials - F2.3.1

### Statement on how the building product is expected to contribute to compliance:

The scope of use for Humes Concrete Pipe Detention Tanks is described in the product brochure provided on the Humes website.

To ensure compliance with the NZBC, the design to integrate the Humes Concrete Pipe Detention Tanks into a gravity drainage network shall be conducted by suitably qualified persons familiar with a range of NZ Design Standards. In addition, construction shall be conducted by appropriately skilled persons in strict accordance with AS/NZS 3725, the project specification, Worksafe's document "Safe Work with precast concrete", and good trade practice.

- **Structure - B1:** Humes Concrete Pipe Detention Tanks have concrete strengths, reinforcing contents, and reinforcing covers determined in accordance with AS/NZS 4058:2007 and NZS 3101 for loading conditions specified in Humes literature.
- **Durability - B2:** Humes Concrete Pipe Detention Tanks have concrete strengths, concrete mix designs, and reinforcing covers determined in accordance with AS/NZS 4058:2007 and NZS 3101 for the environment classifications specified in Humes literature.
- **Surface Water - E1:** Humes Concrete Pipe Detention Tanks comply with the requirements of section E1.3.3 for inclusion in systems managing surface water.
- **Hazardous Building Materials - F2:** Humes Concrete Pipe Detention Tanks comply with the requirements of section F2.3.1 of the NZBC.

### Limitations on the use of the building product:

Standard Humes Concrete Pipe Detention Tanks are:

- not suitable for use in applications where water temperature is greater than 65°C.
- not suitable for use in pressure applications.

Humes Concrete Pipe Detention Tanks are specifically engineered components that are often incorporated into a larger design. The review of Humes product literature and the selection of the appropriate product shall be conducted by suitably qualified persons familiar with the requirements NZ Building Code.

### Design Requirements that would support the use of the building product:

Humes Concrete Pipe Detention Tanks that are designed and installed in accordance with AS/NZS 3725 and NZS 3101 are expected to deliver a service life in excess of 100 years. Any deviation from AS/NZS 3725 may compromise the service life of the concrete pipes.

### Installation Requirements:

Installation of Humes Concrete Pipe Detention Tanks shall be conducted by experienced, licensed building practitioners who are familiar with the requirements of AS/NZS 3725, the project specification and Worksafe's "safe work with precast" document.



### **Maintenance Requirements:**

Once in service, Humes Concrete Pipe Detention Tanks shall be appropriately maintained with sufficient frequency to ensure correct function.

Maintenance contractors shall have full and comprehensive knowledge of the maintenance requirements of gravity drainage systems. Maintenance shall be carried out in accordance with the designer's specification and Territorial Local Authority regulations.

For further information about the installation and maintenance of Humes Concrete Pipe Detention Tanks refer to Humes website

### **Supporting Documentation:**

For further information supporting Humes Precast Pipe Detention Tanks refer to the Humes website.

**Is the building product/building product line subject to warning or ban under section 26?:** No

**If yes, description of warning or ban under section 26:**

**Date:** 30 November 2023