



Building Product Information Sheet | Class 1

Product Name: Humes Concrete Manholes

Product Line: Humes Concrete Manholes

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

Humes Concrete Manholes 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 and lengths 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

Email Address: 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 Manholes 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 Manholes is described in the product brochure provided on the Humes website.

To ensure compliance with the NZBC, the design to integrate the Humes Concrete Manholes 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 Humes literature, the project specification, Worksafe's document "Safe Work with precast concrete", and good trade practice.

- **Structure - B1:** Humes Concrete Manholes 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 Manholes 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 Manholes comply with the requirements of section E1.3.3 for inclusion in systems managing surface water.
- **Hazardous Building Materials - F2:** Humes Concrete Manholes comply with the requirements of section F2.3.1 of the NZBC.

Limitations on the use of the building product:

Standard Humes Concrete Manholes are:

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

Humes Concrete Manholes 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 Manholes that are designed and installed in accordance with CPAA Guidance Note: Loads on Circular Precast Concrete Manholes and Access Chambers, AS/NZS 4058 and NZS 3101 are expected to deliver a service life in excess of 100 years.

Installation Requirements:

Installation of Humes Concrete Manholes shall be conducted by experienced, licensed building practitioners who are familiar with the requirements of CPAA Guidance Note: Loads on Circular Precast Concrete Manholes and Access Chambers, AS/NZS 3725, the project specification and Worksafe's "safe work with precast" document.



Maintenance Requirements:

Once in service, Humes Concrete Manholes 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 Manholes refer to Humes website product page - <https://www.humes.co.nz/manholes/precast-manholes/>

Supporting Documentation:

The following additional documentation supports the above statements:

Humes Concrete Manholes Brochure, (2018), <https://www.humes.co.nz/assets/Uploads/8d8c8ae342/Humes-Manhole-System-Spun-Concrete-Brochure-2018.pdf>

For further information supporting Humes Concrete Manholes 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