



# Building Product Information Sheet | Class 1

**Product Name:** Humes Precast Concrete Bridges, Box Culverts, Wing Walls, Ducts, and Underpasses

**Product Line:** Humes Concrete Precast Products

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

Humes precast concrete products are suitable for a variety of hydraulic, structural and aesthetic purposes when specified and installed by appropriately qualified persons. The products come in a variety of load ratings outlined in the Humes literature. The items are often a component of a 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 precast concrete products 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 Precast Concrete Bridges, Box Culverts, Wing Walls, Ducts, and Underpasses, is described in product brochures provided on the Humes website. Refer to supporting documentation for the list of brochures.

To ensure compliance with the NZBC, the design to integrate the Humes precast components into the structure 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 the project specification, NZS3109, WorkSafe’s document “Safe Work with precast concrete”, and good trade practice.

- **Structure - B1:** Humes listed precast concrete products have concrete strengths, reinforcing contents, and reinforcing covers determined in accordance with NZS 3101 for loading conditions specified in Humes literature.
- **Durability - B2:** Humes listed precast concrete products have concrete strengths, concrete mix designs, and reinforcing covers determined in accordance with NZS 3101 for the exposure classifications specified in the Humes literature.
- **Surface Water - E1:** Humes listed precast products comply with the requirements of section E1.3.3 for inclusion in systems managing surface water.
- **Hazardous Building Materials - F2:** Humes precast products comply with the requirements of section F2.3.1 of the NZBC.

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

Humes precast concrete products are specifically engineered components that are often incorporated into larger designs. 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. Installation of Precast concrete products shall be conducted by persons experienced in the use of precast components and familiar with the project specification, NZS3109, and WorkSafe’s “safe work with precast” document.

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

To ensure compliance with the NZBC, design to determine the performance requirements of Humes precast concrete products shall be conducted by suitably qualified persons familiar with a range of New Zealand Design Standards and the preparation of specifications for construction.

### Supporting Documentation:

Humes Bridge Brochure, <https://www.humes.co.nz/assets/Uploads/231002-Double-T-Concrete-Bridges-v2.pdf>

Humes Concrete Box Culvert Brochure, <https://www.humes.co.nz/assets/Product-Guide/52509c1bc1/Humes-Concrete-Precast-Box-Culvert-Brochure.pdf>



Humes Concrete Underpass Brochure, <https://www.humes.co.nz/assets/Uploads/230601-Concrete-Box-Culverts-HR.pdf>

Humes Concrete Wing Wall Brochure, <https://www.humes.co.nz/assets/Product-Guide/e81cbad6e7/Humes-Precast-Concrete-Wing-wall-brochure.pdf>

Concrete Duct drawings- various sizes and load ratings, <https://www.humes.co.nz/concrete-precast/precast-concrete-duct/>

For further information supporting Humes Precast Concrete Bridges, Box Culverts, Wing Walls, Ducts, and Underpasses claims refer to our 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