

Chemical Resistance Of Stanton Bonna Concrete Drainage Products

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This document provides guidance on the chemical resistance of Stanton Bonna concrete drainage products manufactured to BS EN 1916 and BS 5911-1:2002 for pipes and BS EN 1917 and BS 5911-3:2002 for manholes and ancillary products. The guidance is given in relation to both BRE Digest 363: 1966 and BRE Special Digest 1: 2001 published by the Building Research Establishment. Although superseded by Special Digest 1, the sulfate classes included within Digest 363 continue to be widely used, hence its inclusion in this document.

All concrete drainage products are manufactured using a combination of Ordinary Portland Cement to BS EN 197-1 and Pulverised Fuel Ash to BS 3892- 1:1997, containing between 25% and 40% of PFA by mass of PFA plus cement.

The chemical resistance of Stanton Bonna concrete drainage products may therefore be classified as follows:

Sulfate Class for Site
as BRE Digest 363

Class 4

Design Chemical Class
as BRE Special Digest 1

DC-4

Part 4 of BRE Special Digest 1 recommends that the structural performance level for concrete pipes should be considered as normal.

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