

Quality Concrete Pipeline Systems

A recent Partners in Innovation project undertaken by principally the Concrete Pipeline Systems Association (CPSA) and the Building Research Establishment (BRE) has confirmed the inherent high quality of precast concrete pipes made in the UK to the requirements of the National Standards published by the British Standards Institution. The products used all carried the Kitemark.

The key elements assuring the quality of the products were the raw materials controls, the concrete mix proportions and the manufacturing processes. In particular the curing procedures employed were crucial to the surface carbonation of the finished concrete.

Two requirements of CPSA membership are to be manufacturing precast concrete pipeline systems products to the current National Standards^{*see Note} and to be operating under a Third Party Certification Scheme. In addition, members of the CPSA adhere to the principle that for surface carbonation to be effective, the products that they manufacture must be cured for a minimum period, currently deemed to be 10 days.

This is in line with the advice in the BRE Special Digest 1 SD1:2005, 'Concrete in Aggressive Ground', Part F, the Design Guide for Pipeline Systems, that assumes a 10 day curing period before use of these products.

* **Note.** Current National Standards:-

BS EN 1916:2002	Concrete pipes and fittings, unreinforced, steel fibre and reinforced
BS 5911-1:2002	Precast concrete pipes, fittings and ancillary products. Specification for unreinforced and reinforced concrete pipes (including jacking pipes) and fittings with flexible joint (complementary to BS EN 1916:2002)
BS EN 1917:2002	Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced
BS 5911-3:2002	Precast concrete pipes, fittings and ancillary products. Specification for unreinforced and reinforced concrete manholes and soakaways (complementary to BS EN 1917:2002)
BS 5911-4:2002	Precast concrete pipes, fittings and ancillary products. Specification for unreinforced and reinforced concrete inspection chambers (complementary to BS EN 1917:2002)
BS 5911-6:2004	Concrete pipes and ancillary concrete products. Specification for road gullies and gully cover slabs.

For further information please contact your usual supplier:

Buchan Concrete Solutions
01606 843 500
www.buchanconcrete.com

CPM Group
0117 981 2791
www.cpm-group.com

Ennstone Building Products
01952 502 772
www.ennstone.co.uk

F P McCann
01530 240 000
www.fpmccann.co.uk

Hughes Concrete
01538 380 500
www.hughesconcrete.co.uk

Milton Precast
01795 425 191
www.miltonprecast.com

Stanton Bonna
01159 441 448
www.stanton-bonna.co.uk

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