

Elite Concrete technical specifications

Quality statement

If in doubt after reading this guide contact 01952 588885 for technical advice.

Concrete specification C40/50 mix design
Minimum Cement Content = 320kg/m³ as standard
Maximum w:c ratio = 0.45
Cement type = CEM 1/11 52.5N
Coarse Aggregate = Tarmac/NRS
Fine Aggregate = NRS

Durability The use of C40/50 concrete ensures suitability for use in XF2 conditions as defined in BS 8500-1:2015.

The units have a design working life of over 100 years.

ASR - the total alkali content of the concrete is calculated as:
<3.5kg/m³ Na²O equivalent.

Limiting value 3.5kg/m³ for normal reactivity aggregates (BS EN 8500-2 Annex B).

Total chloride content less than 0.4%.

Quality Management All products are manufactured under certification ISO 9001 Quality Management Control System.

Concrete manhole cover slabs and inspection chamber products are manufactured to BS EN 1917 and BS 5911-3 and Kitemarked where applicable.

Concrete road gullies and gully cover slabs are manufactured to BS 5911-6 and Kitemarked.

Concrete products made with maximum 1% organic materials in the concrete composition may be declared as being in accordance with fire class A1 without the need for testing. Concrete products which include organic materials in the concrete composition greater than 1% by mass or volume shall be tested and classified according to EN 13501-1.



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Class A1 fire resistant in accordance with clause 4.3.4.4 of EN 13369.