

Elite Concrete technical specifications

Quality statement

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

Concrete specification RC40/50XF Equivalent
Minimum Cement Content = 360kg/m³
Maximum w:c ratio = 0.45
Cement type = CEM1 52.5N
Coarse Aggregate = Aggregate Industries
Fine Aggregate = Cemex

Durability The use of an RC40/50XF equivalent concrete ensures suitability for use in XF4 conditions as defined in BS 8500-1:2013

Freeze-thaw attack (XF classes - where concrete is exposed to significant attack from freeze-thaw cycles whilst wet)

Class designation	Class description	Informative examples applicable in the United Kingdom
XF4	High water saturation with de-icing agent or sea water (G)	Horizontal concrete surfaces, such as roads and pavements, exposed to freezing and to de-icing salts either directly or as spray or run-off. Concrete surfaces subjected to frequent splashing with water containing de-icing agents and exposed to freezing.

The units are unreinforced and have a design working life of 100 years as defined in BS EN1990:2002+A1:2005

ASR - the total alkali content of the concrete is calculated as:

$380 \times 0.75/100 = 2.7\text{kg/m}^3 \text{Na}^2\text{O}$ equivalent

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

Lifting points All units are provided with a central galvanized TERWA Spherical Head Lifting Anchor recessed into the concrete surface

Quality Management All products are manufactured under a Factory Production Control System equivalent to that required by EN1917, BS5911-3 and BS5911-6



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