



Hills ready-mixed concrete

Concrete is one of the Hills Group's product ranges and builds on the strength of our extensive aggregates business.

With state-of-the-art production plants at Shorncote near Cirencester, Lower Compton just outside Calne, Woodsford near Dorchester and Newbury, we are well placed to deliver ready-mixed concrete in Swindon, right across Wiltshire and into West Berkshire, Gloucestershire, West Oxfordshire, Dorset, Somerset and Avon. We can deliver to projects of all sizes, from major civil engineering projects to small house builders, farms, domestic driveways and DIY projects.

We can offer a full range of concretes to suit all requirements and our products include floor screed. We operate a delivery fleet which spans mixer trucks of 8m³, 6m³, and 4m³ capacity. You can also collect concrete in your own vehicle.

CONCRETE MIXES

Our aim is to ensure that our customers receive the right concrete for the job. Ready-mixed concrete is produced to the British and European Standards of BS 8500 and BS EN 206. Designated concretes can only be supplied by third party quality assured companies that conform to BS 8500 and BS EN 206 requirements.

Hills Quarry Products is proud that its concrete business is certified by the Quality Scheme for Ready-Mixed Concrete (QSRMC). The QSRMC logo appears on quotations and delivery docket, providing confidence that quality concrete will be delivered as specified and ordered.

The tables on the following pages have been extracted from BS 8500. Simply identify your application in the left column and read across to select a suitable type of concrete. Please call our sales team if you require any further advice.

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HOUSING APPLICATIONS		
Application	Designated Concrete	Recommended consistence class
Foundations & associated works requiring DC -1 concrete		
Blinding and mass concrete fill	GEN 1	S3
Strip footings	GEN 1	S3
Mass concrete foundations	GEN 1	S3
Trench fill foundations	GEN 1	S3 or S4
General application		
Kerb bedding and backing	GEN 0	S1
Drainage works to give immediate support	GEN 1	S1
Other drainage works	GEN 1	S2 or S3
Oversite below suspended slabs	GEN 1	S2 or S3
Unreinforced foundations requiring DC2 - DC4		
DC-2	FND 2	S3
DC-2z	FND 2z	S3
DC-3	FND 3	S3
DC-3z	FND 3z	S3
DC-4	FND 4	S3
DC-4z	FND 4z	S3
DC-4m	FND 4m	S3
Floors		
House floors with no embedded metal	GEN 1	S2
– Permanent finish to be added, eg a screed or floating floor		
– No permanent finish to be added, eg carpeted	GEN 2	S2
Garage floors with no embedded metal	GEN 3	S2
House/garage floors containing embedded metal	RC 25/30	S2
Paving		
House drives, domestic parking and external parking	PAV 1	S2
Heavy-duty external paving	PAV 2	S2

Notes

For structural reinforced concrete applications, please contact our sales team to discuss your requirements or refer to BS 8500 part 1.

Concrete containing any embedded metal should be specified as reinforced.

A higher strength or cement content concrete may be required for power float finish or other finish types. Some soils are potentially aggressive to concrete and it is important to take this into account. If there is no professional advisor, the local building control officer may be able to advise whether the local soil contains sulfates and if so, how aggressive it is. We stock different aggregate sizes from the usual 20mm if required. Please contact our sales team.

AGRICULTURAL APPLICATIONS		
Application	Designated Concrete	Recommended consistence class as required
Concrete in or on non-aggressive soils DC - 1		
Unreinforced foundations	GEN 1	S2 or S3
Reinforced foundations	RC 25/30	S2 or S3
Oversite concrete	GEN 2	S2 or S3
Blinding under slabs	GEN 1	S2 or S3
Mass concrete (non-structural)	GEN 2	S2 or S3
Column bases	RC 25/30	S2 or S3
Unreinforced foundations requiring DC2 - DC4		
DC-2	FND 2	S3
DC-2z	FND 2z	S3
DC-3	FND 3	S3
DC-3z	FND 3z	S3
DC-4	FND 4	S3
DC-4z	FND 4z	S3
DC-4m	FND 4m	S3
Floors and roads		
Livestock floors	RC 28/35	S2 or S3
Stable floors	RC 35/45	S2 or S3
Crop store floors	RC 28/35	S2 or S3
Floors (and walls) for silage	RC 35/45	S2 or S3
Sugar beet storage areas	RC 32/40	S2 or S3
Workshop floors and floors subject to small-wheeled forklift trucks	RC 32/40	S2 or S3
Brewers grain stores	RC 35/45	S2 or S3
Mushroom sheds	RC 32/40	S2 or S3
Toppings for floors such as parlours and dairies	RC 35/45	S2 or S3
Floors (and walls) for manure and slurry stores	RC 32/40	S2
External yards and roads subject to even occasional de-icing salts	PAV 1	S2
External yards and roads subject to heavy traffic and occasional de-icing salts	PAV 2	S2
Other applications		
Cavity infill to reinforced masonry	RC 32/40	S3

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Notes

1. S3 slump class concrete can be used in large foundations and should be used in trench fill foundations.
2. When concreting on steep slopes, S2 at 50mm slump target can be used but this will require vibrating equipment to compact it adequately. On flat surfaces, S3 slump class concrete may be specified if the concrete is to be compacted by hand tamping.
3. RC 35/45 is similar to concrete type C35A and meets the requirements of BS 8007 Code of Practice for design of concrete structures for retaining aqueous liquids demanded by the Control of Pollution Regulations 1991 and this concrete should be specified for any application that is to be used for holding/storing liquids.
4. Where the concrete is subject to even occasional de-icing salts, designated concrete PAV1 or PAV2 is recommended.
5. What used to be known as workability is now referred to as consistence. New consistence or slump classes have been introduced as follows:

Slump class	Target slump mm
S1	20
S2	70
S3	120
S4	170
S5	220 plus

Note: Slump is now specified and measured to the nearest 10 mm.

For further reading refer to:

1. BS EN 206-1: Concrete: Specification, performance, production and conformity
2. BS 8500-1: Method of specifying and guidance for the specifier
3. BS 8500-2: Specification for constituent materials and concrete

For quotations, sales contacts and technical advice visit: www.ready-mixed-concrete.co.uk



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