



# Hills ready-mixed concrete

Concrete is the most recent addition to the Hills Group's product range and builds on the strength of our extensive aggregates business.

With new state-of-the-art production plants at Shorncliffe, near Cirencester, and Lower Compton, just outside Calne, we are well placed to deliver ready-mixed concrete in Swindon, right across Wiltshire and into West Berkshire, Gloucestershire and West Oxfordshire. 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 8m<sup>3</sup>, 6m<sup>3</sup>, and 4m<sup>3</sup> 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 following from BS 8500. Simply identify your application in the left column and read across to select a suitable type of concrete. Please call one of our sales team if you require any further advice.

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## HOUSING APPLICATIONS

Application	Designated Concrete	Recommended consistence class
<b>Foundations &amp; associated works requiring DC -1 concrete</b>		
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 4
<b>General application</b>		
Kerb bedding and backing	GEN 0	S1
Drainage works to give immediate support	GEN 1	S1
Other drainage works	GEN 1	S2/S3
Oversite below suspended slabs	GEN 1	S2/S3
<b>Unreinforced foundations requiring DC2 - DC4</b>		
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	FND4z	S3
DC-4m	FND 4m	S3
<b>Floors</b>		
House floors with no embedded metal	GEN 1	S2
- Permanent finish to be added, e.g. a screed or floating floor		
- No permanent finish to be added e.g. carpeted	GEN 2	S2
Garage floors with no embedded metal	GEN 3	S2
House/garage floors containing embedded metal	RC 25/30	S2
<b>Paving</b>		
House drives, domestic parking & 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 if required from the usual 20 mm. Please contact our sales team.

## AGRICULTURAL APPLICATIONS

Application	Designated Concrete	Recommended consistence class As required
<b>Concrete in or on non-aggressive soils DC -1</b> Un-reinforced foundations Reinforced foundations Oversight concrete Blinding under slabs Mass concrete (non-structural) Column bases	GEN 1 RC 25/30 GEN 2 GEN 1 GEN 2 RC 25/30	S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3
<b>Unreinforced foundations requiring DC2 - DC4</b> DC-2 DC-2z DC-3 DC-3z DC-4 DC-4z DC-4m	FND 2 FND 2z FND 3 FND 3z FND 4 FND 4z FND 4m	S3 S3 S3 S3 S3 S3 S3
<b>Floors and roads</b> Livestock floors Stable floors Crop store floors Floors (and walls) for silage Sugar beet storage areas Workshop floors and floors subject to small-wheeled forklift trucks Brewers' grain stores Mushroom sheds Toppings for floors such as parlours and dairies Floors (and walls) for manure and slurry stores External yards and roads subject even to occasional de-icing salts External yards and roads subject to heavy traffic and occasional de-icing salts	RC 28/35 RC 35/45 RC 28/35 RC 35/45 RC 32/40 RC 32/40 RC 35/45 RC 32/40 RC 35/45 RC 32/40 PAV 1 Pav 2	S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 or S3 S2 S2 S2 S2
<b>Other applications</b> 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 may 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.  
BS 8500-1 : Method of specifying and guidance for the specifier  
BS 8500-2 : Specification for constituent materials and concrete

**For quotations, sales contacts and technical advice visit: [www.hills-group.co.uk](http://www.hills-group.co.uk)**

The Hills Group does its best to ensure that any advice, recommendations or information given is accurate. However, no liability of any kind (including liability for negligence) is accepted in this respect by the company, its servants or agents.



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