



## Quality

All BRMCA members hold product conformity certification.

All BRMCA members hold either: QSRMC, BSI Kitemark Scheme or equivalent product conformity certification based on product testing and surveillance. The QSRMC and the BSI Kitemark Schemes are accredited by the United Kingdom Accreditation Service (UKAS) for the relevant areas of product conformity certification. It is important to note that only those producers who have this high level of product conformity certification are permitted to supply designated concretes – GEN, FND, PAV and RC.

It is worth noting that a CE Mark is not a quality assurance mark such as those used by the QSRMC and the BSI Kitemark Scheme. CE Marking only covers the declaration of performance levels as set out in an appropriate harmonised standard, and as the European Standard for Concrete EN 206 is not harmonised it is not possible to CE Mark ready-mixed concrete.

## Health and Safety

All BRMCA members operate company systems to Occupational Health and Safety Assessment Series (OHSAS) 18001 standards and are committed to developing and maintaining a fully competency-assured workforce.

This OHSAS standard and the accompanying OHSAS 18002, guidelines for the implementation of OHSAS 18001, have been developed in response to customer demand for a recognisable occupational health and safety management system standard against which their management systems can be assessed and certified. These OHSAS documents set out the requirements for an occupational health and safety (OH&S) management system, to enable an organisation to control its OH&S risks and improve its performance.

## BRMCA Members

### Allen Newport Ltd

[www.allen-newport.co.uk](http://www.allen-newport.co.uk) • 01638 720 228

### Bardon Concrete

[www.aggregate.com](http://www.aggregate.com)

### Batchmix Ltd, Rotherham Sand & Gravel

[www.batchmix.co.uk](http://www.batchmix.co.uk) • 01777 818 203

### Breedon Aggregates

[www.breedonaggregates.com](http://www.breedonaggregates.com)

### Brett Concrete

[www.brett.co.uk](http://www.brett.co.uk) • 01622 793 800

### CEMEX UK

[www.cemex.co.uk](http://www.cemex.co.uk) • 0800 667 827

### Hanson Limited

[www.hanson.com](http://www.hanson.com) • 01628 774 100

### Hills Quarry Products Ltd

[www.hills-group.co.uk](http://www.hills-group.co.uk) • 01793 714 999

### J Clubb Ltd

[www.jclubb.co.uk](http://www.jclubb.co.uk) • 01322 225 431

### KRM Concrete, Kendall Brothers

[www.kendalls.co.uk](http://www.kendalls.co.uk) • 02392 670 775

### Lafarge Aggregates & Concrete UK

[www.lafarge.co.uk](http://www.lafarge.co.uk) • 08445 610 037

### London Concrete

[www.aggregate.com](http://www.aggregate.com) • 02083 807 300

### Morris & Perry Ltd

[www.morrisandperry.co.uk](http://www.morrisandperry.co.uk) • 01749 840 441

### Readymix Huddersfield, Myers Group

[www.readymix-huddersfield.co.uk](http://www.readymix-huddersfield.co.uk) • 01484 558 448

### Tarmac Limited

[www.tarmac.co.uk](http://www.tarmac.co.uk) • 08001 218 218

### Tuck-mix concrete, H Tuckwell & Sons

[www.tuckwells.co.uk](http://www.tuckwells.co.uk) • 01235 521 251

### Tudor Griffiths Group

[www.tgggroup.co.uk](http://www.tgggroup.co.uk) • 01691 626 262

## Affiliates

### Angle Park Sand & Gravel Co

01337 830 303

### Bonnar Sand & Gravel

[www.bonnar.com](http://www.bonnar.com) • 01499 600 269

### Hillhouse Quarry Group Ltd

[www.hillhousegroup.co.uk](http://www.hillhousegroup.co.uk) • 01292 313 311

### Northstone (NI)

[www.northstone-ni.co.uk](http://www.northstone-ni.co.uk) • 02879 650 461



## Ready-mixed concrete

An essential sustainable  
construction material - locally available

## A vital industry

The British Ready-Mixed Concrete Association represents members that supply 15 million m<sup>3</sup> of concrete a year, around 75% of the UK industry.

Ready-mixed concrete is a mixture of coarse and fine aggregates, cement and water. By its nature ready-mixed concrete is produced locally and is delivered just in time to construction sites where it can be cast into any conceivable shape. Hardened plain concrete can withstand substantial compressive loads but most concrete is reinforced to enhance its load-carrying capacity in tension and flexure. It is the design and detailing of this reinforced concrete that means the largest and highest structures or buildings can be realised.

Ready-mixed concrete is essential to a modern society that requires sufficient and reliable housing, water, health, energy, transport, education, retail, commercial and industrial facilities. As sustainability becomes increasingly important, the positive role that ready-mixed concrete can play is being better understood and its contribution to society recognised as increasingly vital.

### Key facts

- The ready-mixed concrete industry has an annual turnover of around £1 billion.
- It is a crucial supplier to the £110 billion construction industry.
- It uses UK materials and generates UK employment.

### Environmental Management Systems (EMS)

By 2010 around 86% of BRMCA ready-mixed concrete plants were covered by an EMS, demonstrating the industry commitment to maintain high levels of environmental performance.

*Over 700 Sites of Special Scientific Interest (SSSIs) are former quarries. The industry restores sites and promotes biodiversity.*



## A sustainable product

BRMCA is a founder member of the Concrete Industry's Sustainability Strategy, launched in 2008. Its members deliver sustainable products and are committed to continued improvement. The industry is a leader in sustainable construction and fully supports the updated strategy as launched on 20 February 2012. Details of the Concrete Sustainable Strategy and performance against targets for UK concrete can be found at [www.sustainableconcrete.org.uk](http://www.sustainableconcrete.org.uk).

### Responsible sourcing

Ready-mixed concrete is the leading product sector in delivering responsibly sourced products. In 2010 94% of BRMCA concrete was accredited to the responsible sourcing standard BES 6001.

### Embodied CO<sub>2</sub>

The largest proportion of the embodied CO<sub>2</sub> in concrete is attributable to the cement that binds the aggregates together. However, the availability of cements that incorporate low carbon materials such as ground granulated blastfurnace slag (ggbs), fly ash and limestone has increased and their use is actively encouraged.

### Waste

There is very little waste associated with ready-mixed concrete as there is no packaging and the precise volume required can be delivered. The small amounts of concrete that are returned, and any washout, is normally processed to reclaim the aggregate or left to harden for use as recycled concrete aggregate. Notwithstanding this, BRMCA members have reduced waste by around 60% since 2008.

### Recycled aggregates

With more than 28% of GB aggregates coming from recycled and secondary sources, Great Britain is the best country in the EU at minimising the use of primary materials. Secondary and clean recycled concrete aggregates are safe to use as a constituent of ready-mixed concrete where they are in accordance with the appropriate British Standards and industry protocols.

For more info on sustainability see:  
[www.mineralproducts.org/sustainability](http://www.mineralproducts.org/sustainability)  
[www.sustainableconcrete.org.uk](http://www.sustainableconcrete.org.uk)

## Enabling sustainable solutions

Ready-mixed concrete is both a versatile material and one with many beneficial inherent properties. This allows designers to optimise the sustainable credentials of concrete solutions.

Designers and suppliers can work together to design a mix of constituents that optimise the product for its intended use. A limitless range of concretes can therefore be produced. See *Specifying Sustainable Concrete* from MPA The Concrete Centre\*.

Concrete is a fluid that can be formed into optimum geometries – linear, planar or complex three dimensional shapes. This allows designers to maximise performance and material use. See *Material Efficiency* and other design guides from MPA The Concrete Centre\*.

### Sustainable solutions can be designed and built in concrete because of its inherent benefits:

- Durability – increases lifetime
- Robustness – decreases maintenance costs
- Flood resistance – where mass resists the dynamic and hydrostatic forces and is dimensionally stable when wet
- Fire resistance – reduces risk, lowers insurance costs
- Acoustic performance – minimises need for special finishes
- Thermal mass – reduces operational energy costs

See *Concrete Credentials* by MPA The Concrete Centre\*.

\*To download these guides, visit  
[www.concretecentre.com/publications](http://www.concretecentre.com/publications)

*The durability of concrete makes it the material of choice for critical infrastructure supporting the UK economy. The winning project of the 2011 BRMCA Customer Service Award was East Kent Access which included a jacked tunnel structure, see [www.brmca.org.uk](http://www.brmca.org.uk)*

