

CONCRETE SOCIETY NORTHERN IRELAND REGION
SPONSORS



KNOWN LOCALLY FOR ITS EXTENSIVE BLUE CIRCLE BRAND OF CEMENTS, LAFARGE CEMENT IS ONE OF THE WORLD'S LEADERS IN CEMENT-BASED SOLUTIONS FOR BUILDING CONSTRUCTION.

Lafarge Cement Ireland, Lafarge House, Gotto Wharf, Northern Road, Belfast Harbour Estate, Belfast, BT3 9AL.
T: 028 9035 7120 - F: 028 9035 7127

www.lafargecement.co.uk



AS PART OF THE LARSEN GROUP OF COMPANIES, LARSEN HAS BEEN MANUFACTURING QUALITY BUILDING PRODUCTS SINCE 1975 TO BECOME A MARKET LEADING MANUFACTURER OF A COMPREHENSIVE RANGE OF PRODUCTS FOR THE CONSTRUCTION INDUSTRY.

Larsen Foundations, 4 West Bank Road, Belfast Harbour Estate, Belfast, BT3 9JL.
T: 028 9077 4000 - F: 028 9077 6945

www.larsenbuildingproducts.com



CEMEX IRELAND WAS FOUNDED IN DUBLIN IN 1965 AND WITH FACILITIES ALSO IN BELFAST, IT HAS GROWN TO BECOME ONE OF THE LARGEST AND MOST SUCCESSFUL BUILDING MATERIALS GROUPS IN IRELAND.

Cemex (NI) Ltd, Unit 6, Old Channel Road, Belfast
T: 028 9061 6611 - F: 028 9061 9969
E: sales@cemex.com

www.cemexni.com



NORTHSTONE (NI) LIMITED, HAS A BUSINESS PORTFOLIO WHICH INCLUDES TECHNICALLY DEMANDING CONSTRUCTION PROJECTS, AS WELL AS THE MANUFACTURE OF QUALITY BUILDING MATERIALS AND UTILITY ACCESS CHAMBERS.

Northstone (NI) Limited, 99 Kingsway, Dunmurry, Belfast, BT 17 9NU
T: 028 9055 1200

www.northstone-ni.co.uk



CURTIS ENTERPRISES IS THE LEADING SUPPLIER OF FIBRE REINFORCEMENT SOLUTIONS IN IRELAND AND A DISTRIBUTOR OF CONCRETE ADMIXTURES, INDUSTRIAL FLOORING SOLUTIONS, GEOTEXTILES AND INDUSTRIAL FABRICS.

Curtis Enterprises, Curtis Concrete Solutions Ltd, 19 Edenappa Road, Jonesborough, Newry, BT35 8HU
T: 028 3084 8319 - M: 07710 551999

www.curtis-enterprises.com



CONSTRUCTION TESTING SERVICES (CTS) OFFERS AN INDEPENDENT MATERIAL TESTING AND CONSULTANCY SERVICE TO CLIENTS IN THE CONSTRUCTION INDUSTRY.

CTS, The Old Mill Business Park, Seven Mile Straight, Muckamore, Antrim, BT41 4QE
T: 028 9446 9191 - F: 028 9446 9494

www.constructiontestingservices.com



CEMENTAID HAS BEEN AT THE FOREFRONT OF THE DEVELOPMENT OF ADVANCED ADMIXTURES AND SURFACE TREATMENTS FOR CONCRETE SINCE 1954.

Cementaid, Baird Close, Crawley, West Sussex, RH10 9SY
T: 0845 658 2000
E: info@cementaid.co.uk

www.cementaid.co.uk



DELIVERING QUALITY PRODUCTS TO THE CONSTRUCTION INDUSTRY. PART OF THE HIGHLY SUCCESSFUL LAGAN GROUP NI, IT CONSISTS OF FOUR COMPANIES INCLUDING ROADMIX, LAGAN SAND, LAGAN TILE AND LAGAN CEMENT.

Lagan Cement Group NI, 1b Sheepwalk Road, Lisburn, BT28 3RD
T: 028 9064 7100

www.lagancementproducts.com



PRODUCING A RANGE OF HIGH QUALITY BULK AND BAGGED CEMENT PRODUCTS FOR THE CONSTRUCTION INDUSTRY IN THE IRISH AND UK MARKETS.

Scotchtown, Ballyconnell, Co. Cavan
Freephone: 08000 322122
Tel: +353 49 9525200
info@quinn-cement.com

www.quinn-buildingproducts.com

Introduction...

THE CONCRETE SOCIETY, NORTHERN IRELAND REGION, CONTINUES TO GO FROM STRENGTH TO STRENGTH...

Building a better concrete industry

Networking has always been an important part of business but the Concrete Society, Northern Ireland Region, takes this vital skill to a whole new level.

With a motto of 'It's what you know, as well as who you know', the local committee sets out an annual programme of events that helps to boost both technical knowledge and business contacts.

The Concrete Society was formed to address the need for a single organisation embracing all those interested in concrete, whether as designers, contractors, research workers or suppliers of materials and services.

Here in the province the Northern Ireland Region committee has 28 members taken from a cross-section of the industry, all working to help promote the benefits of concrete.

"We have a very hard-working committee representing a wide range of specialisms, ranging from architects, contractors and consulting engineers through to producers, suppliers and academia," explained Roy Browne, current Chairman of the Concrete Society, Northern Ireland Region. "The society is very well supported and continues to carry out very essential work to maintain and enhance the standards of the wider concrete industry."

At the Northern Ireland Region's annual dinner, the Concrete Society marked the achievements of a wide variety of projects and individuals with its inaugural Concrete Society Awards and the event helped to show that interest in the concrete industry in Northern Ireland is as strong as ever.

"The awards have helped promote the profile of our industry and illustrate the world-class expertise we have here in the province," Roy added. "This was the first year we have hosted the awards and the judges were very pleased with the standard of the winning projects."

Roy, who is Co-Director at Construction Testing Services Ltd, has been on the Northern Ireland Region committee for 15 years and will complete his chairmanship in May.

"I have really enjoyed being chairman," he said. "We have a very strong and enthusiastic committee which allows our region to organise a wide range of events throughout the year."

The Northern Ireland Region is one of many Concrete Society regions and clubs from across the UK, all hosting a series of social and technical events throughout the year. The Concrete Society also works closely with the academic world to enhance the standards of concrete and the Northern Ireland Region has representation from both Queen's University, Belfast and the University of Ulster.

Roy added, "It is an objective of our society, both on a regional and on a national basis, to bring to our industry technical events in whatever guise that help keep us all abreast of the latest developments in our field and to do this we bring in the most suitable speakers to give us the best advice available."

"The social events are important for our industry to get together and network while the technical seminars and presentations are key to the future of our industry. I don't know who would provide this service if the Concrete Society was not here but there is no doubt that we couldn't carry out this role to the extent that we do if it were not for the generous support we receive."

"We have more events than ever before and I think it is important to note that I not only see the benefits that sponsorship affords us as a society but also the promotion that we give to businesses associated with it."

"I would like to thank all the sponsors for their continued support."

For more on the Concrete Society, visit www.concrete.org.uk



Roy Browne, Chairman, Concrete Society, Northern Ireland Region and Co-Director of Construction Testing Services Ltd.

Forthcoming events...

- January 10 – Joint event with IStructE on the Strata SE1
- January 27 – Technical site visit to Titanic Belfast
- February 23 – Annual 10-pin bowling competition
- March 12 – Joint event with ICE on the Olympic-sized swimming pool, Bangor

The Northern Ireland Region will also be hosting its Spring Seminar and Joint Technical weekend with the Irish Concrete Society in 2012.

For more details on any of these events, visit www.concrete.org.uk



Enjoying a quick drink before proceedings get underway are (from left, James McDonald, Cementaid, Jim Kerr, Albert Fry Associates, Ian Black, Ian Black Consulting, Martin Turner, Cementaid, Bryan Magee, Queen's University, Belfast, John Scullion, Arup, Edward Rea, Cementaid and David Crowe, Ian Black Consulting.



Representatives of Irish Cement along with guests - (from left) Colin Higgins, Premier Cement, Michael McCusker and Neil Cooke, Mattest, Bryan Liston, Irish Cement, Mark Lowry, Northstone, Martin Wills, Irish Cement.



Enjoying the Concrete Society's Annual Dinner and Awards night are (from left) Mark Magill, Creagh Concrete, Ken Smart, Creagh Concrete, Brendan McPeake, Cross Concrete and John Mulgrew, Lafarge Cement.



William Chambers, John Chambers, David Chambers all from WS Chambers with Alec Robinson from Robinson's Quarry (far right).



Representing the Quinn Group are (from left) Declan Cathcart, Quinn Cement, Rob Prince, Quinn Radiators, Gareth Melanathy, Richard Heuston, Jason Martin, and Kevin Maguire, from Quinn Building Products.



Nuala McKeever (second right), guest speaker, pictured with Alasdair Stables, President, Concrete Society, Kathy Calverley, Managing Director, Concrete Society, Clive Grudgings, Lafarge Cement and Roy Browne, Chairman, Concrete Society, Northern Ireland Region.



John McCaughey, Past Chairman, Concrete Society, Northern Ireland Region, John McFadden, Chairman, IstructE, Frank Robinson, Past Chairman Concrete Society, Northern Ireland Region, Norman Hutchinson, President, RSUA, Peter McGill, Larsen and Past Chairman Concrete Society, Northern Ireland Region.

NORTHERN IRELAND REGION ADDS NEW AWARDS CEREMONY TO ITS ANNUAL DINNER...

Inaugural awards night success for Concrete Society

The Concrete Society, Northern Ireland Region, hosted its annual dinner with a difference this year with the addition of its inaugural Concrete Society Awards, sponsored by Lafarge Cement.

Hosted at the Ramada Hotel, Belfast, the event proved a superb success, as Northern Ireland Region Chairman, Roy Browne, explained. "The annual dinner is always a well-supported event, attracting a diverse cross-section from the concrete industry, but the addition of the awards this year added a little extra for everyone and we now plan to make this a regular part of our schedule," he said. "We also managed to raise over £2,300 for the Northern Ireland Hospice in support of this fine cause."

Guests included representatives of the Concrete Society, Northern Ireland Region's membership as well as special guests Alasdair Stables, President Concrete Society and guest speaker, Nuala McKeever.



Jim Kirkpatrick, Macrete, Mohammed Sonebi, Queen's University, Belfast, David Courtney, Macrete, Su Taylor, Queen's University, Belfast, David Quinn and Abhey Gupta of Macrete.



Mark Lowry, President, CEF, John Irvine, Chairman, IHT, Gordon Best, Regional Director QPANI and Brian Curtis, Curtis Enterprises.



Dr Joe Gunning, QSRMC and Past Chairman of the Northern Ireland Region, Tom Patterson, Past Chairman Concrete Society, Northern Ireland Region, Graham McKillen, WD & RD Taggart, Professor Pam Basheer, Queen's University, Belfast pictured with Willy Doherty, Past Chairman of the Northern Ireland Region and Gerard McKeague of Creagh Concrete.



Past Chairmen of Concrete Society, Northern Ireland Region - John Robinson, Ken Quinn, Bert Crooks and David Stewart.



Clive Grudgings, Lafarge Cement, sponsors of the awards, along with guest speaker, Nuala McKeever and distinguished guest, Dr Mark Richardson, ICS.



Declan Wright, Larsen Building Products with Dr Kieran Owens, Hon Secretary, Concrete Society, Northern Ireland Region and Bob Cairns, Vice-Chairman, Concrete Society, Northern Ireland Region.



Enjoying the awards night are (from left) Antoni Lupari, Creagh Concrete, Mark Magill, Creagh Concrete, Eddie Gallagher, Creagh Concrete and Paul McBurnie, Grahams Dromore Ltd.



Alaistair Giffen, Past Chairman of the Concrete Society, Northern Ireland Region, Martin Cushman, Chairman, CIOB, Ian Long, Chairman, ICE and Diarmid Finnegan, Past Chairman of the Concrete Society Northern Ireland Region.

CONCRETE SOCIETY NORTHERN IRELAND REGION
SPONSORS



CREAGH CONCRETE IS ONE OF THE LARGEST AND MOST INNOVATIVE PRODUCERS OF CONCRETE PRODUCTS FOR THE CONSTRUCTION, CIVIL ENGINEERING AND AGRICULTURAL SECTORS ACROSS THE UK AND IRELAND.

Creagh Concrete Products Ltd, Blackpark Road, Toomebridge, County Antrim, BT41 3SL T: 028 7965 0500 E: info@creaghconcrete.com

www.creaghconcrete.com



ARUP IS AN INDEPENDENT FIRM OF DESIGNERS, PLANNERS, ENGINEERS, CONSULTANTS AND TECHNICAL SPECIALISTS OFFERING A BROAD RANGE OF PROFESSIONAL SERVICES.

Arup, The Linenhall, 8th Floor, 32-38 Linenhall Street, Belfast, BT2 8BG T: Paul Johnston 028 9089 0900 E: belfast@arup.com

www.arup.com



GRAHAM IS A PRIVATELY OWNED COMPANY OPERATING IN THE CONSTRUCTION, ASSET MANAGEMENT AND PROJECT INVESTMENT MARKETS

Graham, Ballygowan Road, Hillsborough, County Down, BT26 6HX T: 028 9268 9500 - F: 028 9268 9600 E: info@graham.co.uk

www.graham.co.uk



FARRANS CONSTRUCTION ONE OF THE NORTHERN IRELAND'S LEADING BUILDING AND CIVIL ENGINEERING CONTRACTORS. THE CONTRACTOR OF CHOICE.

Farrans (Construction) Ltd, 99 Kingsway, Dunmurry, Belfast, BT17 9NU T: 028 9055 1300 F: 028 9062 9753

www.farrans.com



PREMIER CEMENT LTD IS THE UK PARTNER OF IRISH CEMENT LTD WITH OFFICES IN BELFAST AND SWANSEA.

Premier Cement Ltd, 99 Kingsway, Dunmurry, Belfast, BT17 9NU T: Colin Higgins at 028 9055 1357 Fax 028 9061 3518

www.irishcement.ie



RPS IS ACKNOWLEDGED AS AN EXPERT IN PLANNING, TRANSPORT, LANDSCAPE ARCHITECTURE AND ENVIRONMENTAL ISSUES AND IS ALSO AN AWARD WINNING CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERING COMPANY.

RPS Belfast, Elmwood House, 74 Boucher Road, Belfast, BT12 6RZ T: 028 9066 7914 - F: 028 9066 8286

www.rpsgroup.com



THE QUARRY PRODUCTS ASSOCIATION NORTHERN IRELAND WORKS ON MEMBERS' BEHALF TO PROMOTE A SECURE FUTURE AND A SOCIALLY RESPONSIBLE AGGREGATES INDUSTRY.

QPANI, Unit 10 Nutts Corner Business Park, Dundrod Road, Crumlin, BT29 4SR T: 028 9082 4078 - F: 028 9082 5103 E: info@qpani.org

www.qpani.org



JOHN SISK & SON IS AN INTERNATIONAL CONSTRUCTION COMPANY THAT PLACES A STRONG EMPHASIS ON PERFORMANCE, QUALITY, TEAMWORK AND A 'HANDS-ON MANAGEMENT APPROACH TO ENSURE CLIENT SATISFACTION.

John Sisk & Son, Suite 3, 10 Cromac Place, The Gasworks, Belfast, BT7 2JD T: 028 9024 4144 - F: 028 9023 7898

www.sisk.ie



ESTABLISHED IN 1991 MATTEST MATERIALS TESTING LTD IS A COMMERCIAL MATERIALS TESTING LABORATORY THAT ALSO PROVIDES MATERIALS CONSULTANCY AND ADVISORY SERVICES.

Mattest, 99 Kingsway, Dunmurry, Belfast, BT17 9NU T: 028 9043 0592 - F: 028 9061 5762 E: test@mattest.com

www.mattest.com



Catriona Toner from Queen's University, Belfast (centre), is presented with the Architecture Award by Alasdair Stables, President, Concrete Society (left) and Roy Browne, Chairman, Concrete Society, Northern Ireland Region.



Christopher Lagan, Queen's University, Belfast with the Civil Engineering Award, presented by Alasdair Stables, President, Concrete Society.



Stephen McLaughlin, University of Ulster (centre), who won the Civil Engineering Award, receiving his accolade from Alasdair Stables, President, Concrete Society (left) and Roy Browne, Chairman, Concrete Society, Northern Ireland Region.



Ryan Morgan, University of Ulster (centre), is presented with the Construction Engineering & Management Award by Alasdair Stables, President, Concrete Society (left) and Roy Browne, Chairman, Concrete Society, Northern Ireland Region

STUDENTS FROM QUEEN'S UNIVERSITY, BELFAST AND THE UNIVERSITY OF ULSTER ARE RECOGNISED FOR THEIR WORK IN THIS SPECIAL SECTION...

Students celebrate success!

The Concrete Society, Northern Ireland Region has been a long-time supporter of the academic world and this continued with the presentation of four students awards.

This year Catriona Toner, Christopher Lagan, Stephen McLaughlin and Ryan Morgan were presented with awards in recognition of their work.

Roy Browne, Chairman, Concrete Society, Northern Ireland Region, explained the importance of recognising the achievements of the industry's next generation.

"We maintain strong links with the academic world and have representation from Queen's University, Belfast and the University of Ulster on our committee.

"It is our belief that our Student Awards raise

the profile of the Concrete Society among students thinking about their career paths, but additionally it also allows us to reward students who have been involved in projects which largely engage concrete."

To win a Concrete Society Student Award, applicants have to go through a rigorous judging process. First, students are interviewed by senior members of the Concrete Society at each university and then their schemes are judged.

Two schemes are awarded to students from each university. For Queen' University, the awards are given in the categories of Civil Engineering and Architecture, and for the University of Ulster the categories are Construction Engineering and Management and Civil Engineering.

Student Awards...

THE WINNERS OF THIS YEAR'S STUDENT AWARDS ARE:

Queen's University, Belfast
 Architecture - Catriona Toner
 Civil Engineering - Christopher Lagan

University of Ulster
 Civil Engineering - Stephen McLaughlin
 Construction Engineering & Management - Ryan Morgan

"It is our belief that our Student Awards raise the profile of the Concrete Society among students thinking about their career paths."



The award-winning Belfast Metropolitan College, Titanic Quarter campus.

WORK BY PATTON ON THE NEW £44MILLION TITANIC QUARTER CAMPUS IN BELFAST PICKS UP ANOTHER AWARD...

Belfast Met puts Patton in a class of its own!

Patton picked up the Building Category award for its work at the new Titanic campus of Belfast Metropolitan College. This stunning £44million project forms one of the key founding developments of Belfast's new Titanic Quarter, rising from the old shipyards where the famous vessel was built.



Neil Patton (centre) is presented with the Building Category award for Patton's work at Belfast Metropolitan College, Titanic Quarter by Alasdair Stables, President Concrete Society (left) and Roy Browne, Chairman of the Concrete Society, Northern Ireland Region.

Construction began at a sod cutting ceremony on May 6 2009 with the finished project handed over on schedule on August 12, 2011.

The 22,000m² state-of-the-art college campus represents a spectacular sight with its unique design resembling a ship, in homage to its historic surroundings, and has a capacity for 2,500 full-time students and over 300 full-time and part-time staff. Over 10,000m³ of concrete was supplied to the Belfast Met throughout the duration of the project. Approximately half of this was 40N used in the superstructure and the floor slabs, designed with high flow characteristics to allow placement around heavily congested steelwork and to ensure cohesion throughout placement. Other concrete types used throughout the project included high strength concrete and specially designed waterproof concrete for basements and lift pits.

All the concrete was supplied from the highly automated Cemex Concrete plant

situated at Airport Road West while excellent use was also made of precast concrete.

As well as showing excellence through the use of concrete from design through to construction, the new campus has set a benchmark in its dedication to environmental issues.

The project has already been recognised not only for its high level of 'green' credentials, winning the Environmental Project of the Year award at the Sustainable Ireland Awards 2011. This recognition also took into consideration the fact that Patton managed to divert 99% of the waste produced from landfill, while recycling 100% of the available hard core on site and totally eradicating ground contamination.

Roy Browne, Chairman of the Concrete Society, Northern Ireland Region, said, "This building really does show excellence from design through to construction and we congratulate Patton and the other main associates involved in this project."

Patton, Greenmount House, Woodside Road Industrial Estate, Ballymena, BT42 4PT
T: 028 2564 2141 – F: 028 2565 8584 – E: info@patton.co.uk
www.patton.co.uk





COLLABORATION BETWEEN MACRETE IRELAND AND QUEEN'S UNIVERSITY, BELFAST, DEVELOPS INNOVATIVE SYSTEM THAT CREATES TRADITIONAL MASONRY-BUILT ARCH BRIDGES WITHOUT THE STONE MASON...

FlexiArch provides a bridge to the Precast award

Macrete Ireland Ltd, in conjunction with Queen's University, Belfast, was the winner in the Precast category. The FlexiArch is a patented arch bridge system based on modern precast concrete methods whilst performing like a masonry arch bridge. The system is the result of years of research in the School of Civil Engineering at Queen's University, Belfast, and five years of intense development with Macrete, which has provided the commercial, manufacturing and installation expertise. Providing designers, contractors and clients with a cost-effective arch bridge, the system is based on the same principles as traditional stone masonry arch bridges, but overcomes the requirement for the labour of a stone mason and expensive formwork. Individual concrete voussoirs (tapered blocks) are precast with the correct taper for a given span and rise and are then connected by a

polymeric flexible membrane, which allows the arch to fall into its shape as it is craned into position. It can be used for any kind of new crossing or bridge replacement for up to 15m span and as FlexiArch flexible arch rings are made in 1m widths, it can be installed using any number of 1m wide units. When the FlexiArch is lifted, transforms under the forces of gravity into the desired arch shape and it can be delivered to site in flat-pack form, reducing transportation costs. The FlexiArch has been used successfully in a variety of projects since it was brought to market and it has been found to perform exceptionally well for a range of bridges with different span/rise ratios. Since its launch three years ago, there have been a number of technical developments. Not only has the span of the arch units been increased to 15m but the system has also



Winners of the Precast category are presented with their award by Alasdair Stables, President Concrete Society (left) and Roy Browne, Chairman of the Concrete Society, Northern Ireland region (second right). Included in the picture are (from left) Su Taylor, Queen's University, Belfast, David Courtney, Macrete, Jim Kirkpatrick, Macrete, Abhey Gupta, Macrete, Belfast, and David Quinn, Macrete.

been adapted for skew arch bridges with angles of skew up to 30°. The FlexiArch bridge system has attracted the attention of construction organisations worldwide and Macrete is hoping to sign its first forward licensing agreement with an Australian company, while it is anticipated that further licences will follow in Japan and USA.

SPECIAL CATEGORY AWARD WINNER
TITANIC BELFAST



Special Category award winner for the Titanic Signature Project, Gerald Doyle (second left) and Paul Stevenson (second right) both from CES Quarry Products, receiving the award from Alasdair Stables, President, Concrete Society (left) and Roy Browne, Chairman, Concrete Society, Northern Ireland Region.



Special Category award winner for the Titanic Signature Project, Noel Malloy, Harcourt Construction (second left) and Matthew Rodden, M.R Concrete (second right) receiving the award from Alasdair Stables, President, Concrete Society (left) and Roy Browne, Chairman, Concrete Society, Northern Ireland Region.

PLANNING AND EXPERTISE OF THE TEAM BEHIND IRELAND'S LARGEST CONCRETE POUR IS RECOGNISED...

TITANIC TEAM wins award for a titanic effort!

The team behind the organisation and placement of the largest concrete pour ever to be placed in Ireland were the clear winners in the Special Category section of the awards.

This record-breaking achievement at Titanic Belfast – formally known as Titanic Signature project – was, quite literally, a titanic undertaking for the team involved. Yet it was fitting that it signalled the start of a project that is set to be Northern Ireland's most talked about attraction.

Noel Molloy, Project Director, Harcourt Construction and Matthew Rodden, M.R. Concrete, collected the award on behalf of the entire team that included main

associates Harcourt Construction, MR Concrete, RPS and TODD Architects as well as main suppliers Lafarge Cement, Grace Construction Products, CES Quarry Products and Stoneyford Concrete.

The record-breaking concrete pour was to form the basement slab for Titanic Belfast. It started at 5pm on December 4, running through to 2pm the following day. The continuous pour by CES Quarry Products and Stoneyford Concrete saw 4,200 cubic metres of concrete laid 8m below ground level across an area of 3,800 square metres near the slipway at the 185-acre Titanic Quarter development in Belfast city centre.

Over 100 men from five different companies

worked in shifts throughout the night on Friday on the historic pour, which involved 50 concrete trucks delivering circa 250 cubic metres of concrete per hour – or one load every two minutes.

But you don't complete a record-breaking pour of this nature without proper planning and teamwork.

This concrete placement involved the largest logistical and planning exercises for a concrete pour ever likely to be seen, with everything planned down to the smallest detail to ensure that everything ran smoothly. But it didn't stop there. After this successful pour, the team went on to subsequently place pours of 1,500m³, 3,000m³ and 1,000m³ over the next three months, all with the same level of planning and expertise and commitment.

Presenting the award, Chairman of the Concrete Society, Northern Ireland Region, Roy Browne, said, "It would be difficult to host our first awards event without including this extraordinary achievement. This was a truly titanic project that highlights the expertise in our industry."





Facts about Ireland's largest single concrete pour

- On the evening of the pour, over 700 loads of concrete were delivered to the site at an average of one truck load every two minutes.
- Eight concrete pumps were used, while more were kept in reserve, just in case.
- The concrete was designed using eco-friendly CEMblend 50 cement, helping not only to reduce heat development but also to help improve the eco rating of the project.
- The concrete included waterproofing and super plasticising admixtures to aid workability and help the concrete cope with marine conditions. Fibres were also added to increase the durability of the concrete slab.
- Over 100 sets of cubes were taken by Construction Testing Services Ltd.
- And after placement, 4,000m² of insulation was used to protect the slab from the effect of thermal cracking and thermo couples were installed to help monitor temperature variations within and the base.

PROJECT PARTNERS...

THE SUCCESS OF THE LARGEST CONCRETE POUR IN IRELAND AT TITANIC QUARTER WAS ONLY POSSIBLE DUE TO THE HARD-WORKING COMPANIES LISTED BELOW WORKING TOGETHER PERFECTLY...



HARCOURT CONSTRUCTION - The design and build contractor behind Titanic Belfast was charged with overseeing the overall project.
Site Management Office, Sydenham Road, Belfast, BT3 9DJ
T: 028 9040 9960 - F: 028 9040 9979
E: info@harcourtconstruction.com
www.harcourtconstruction.com



M.R. CONCRETE LTD - Supplied the eight concrete pumps to place the concrete, with more pumps kept in reserve, as well as the concrete gang that placed the record breaking pour.
154 Ardallee, Culmore Road, L'Derry, BT48 8RT.
T: 00353 749320790 - F: 00353 749363819
E: info@mrconcreteltd.com
www.mrconcreteltd.com/contact



LAFARGE CEMENT - The concrete was designed using eco-friendly CEMblend 50 cement supplied by Lafarge Cement, helping not only to reduce heat development but also to help improve the eco rating of the project.
Lafarge Cement Ireland, Lafarge House, Gotto Wharf, Northern Road, Belfast Harbour Estate, Belfast, BT3 9AL.
T: 028 9035 7120 - www.lafargecement.co.uk



GRACE CONSTRUCTION PRODUCTS - The concrete pour included waterproofing and super plasticising admixtures supplied by Grace Construction Products. The concrete pour included Adprufe waterproofing and ADVA super plasticising admixtures.
C/O Unit 42 O'Casey Avenue, Parkwest Industrial Estate, Nangor Road, Dublin 12, Ireland. Tel: +353 1-401-0222
Email paul.osullivan@grace.com
www.graceconstruction.com



As Civil and Structural Engineers for the iconic project RPS was responsible for the structural design and detailing of the concrete basement
RPS Belfast, Elmwood House, 74 Boucher Road, Belfast, BT12 6RZ
T: 028 9066 7914 - : 028 9066 8286



STONEYFORD CONCRETE - Stoneyford Concrete utilised all its skills to deliver this record-breaking concrete pour.
50 Stoneyford Road, Lisburn, BT28 3SP
T: 028 9264 8600 www.stoneyford.com