

# Elite Precast Concrete **case study**

## Cannock Chase community art event

For more information or technical advice, contact 01952 588885.

Elite Precast Concrete was asked to supply our TCVB concrete safety barriers to AA Installations who were contracted to secure a 10 metre high ramp specially constructed for local artist/sculptor Keith Harrison's installation and event in Cannock Chase.



A clay model of a Rover 75, the last car produced at the Longbridge works nearby, was lifted onto the 10 metre high ramp by crane. Then the 1.5 ton car was made to freefall down the ramp and crash into the TVCB concrete safety barriers at the end of the safety zone.

The event was watched by 500 paying spectators who were treated to a spectacular one-off event that will never be replicated... all safe and secure behind the perimeter built from Elite's TVCB barriers.



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## Cannock Chase community art event



AA Installations is a specialist lifting and contracting business owned and operated by Andy Fones. Andy has many years of experience of operating at the highest level of safety standard whilst completing some of the most challenging lifting/placing/installing projects involving heavy precast concrete elements.

Elite Precast Concrete carry large stocks of our high strength barriers so AA Installations were able to order them straight 'off-the-shelf'. The barriers are cast from Elite's well-regarded high-strength concrete (50N/mm<sup>2</sup>) which, combined with approved steel reinforcing, means that they meet the requirements of EN 1317 'Compliant Road Restraint Systems for Temporary Safety Barriers'.

**PLEASE NOTE: That in the staging of the event no barriers were damaged or even moved when the 1.5 ton car hit them.**



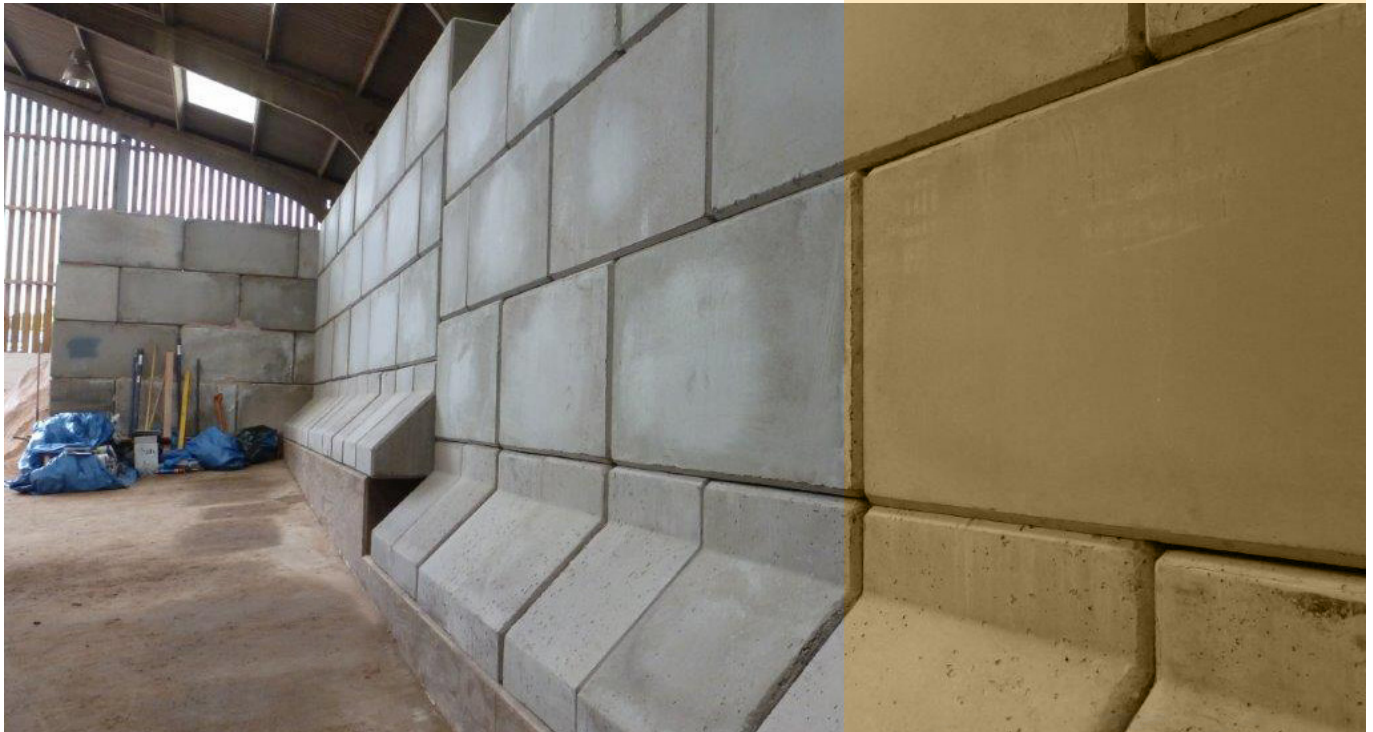
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# Elite Precast Concrete **case study**

## Hilton Park Services Salt Barn Refurbishment

For more information or technical advice, contact 01952 588885.

Elite Precast Concrete were approached by Midlands-based contractor Currall, Lewis and Martin (Construction) Ltd (CLM) to provide their high strength interlocking Legato blocks as part of the Salt Barn refurbishment project being carried by Kier Construction on behalf of the Highways Authority.



The Legato blocks were to be used to line the walls of the salt barn creating additional safe storage for the road salt which is kept on hand for gritting during the winter months.

Key elements of the project included the difficult access into the building, the fact that the building floor was sloping and issue of there being thousands of tonnes of salt already stored in the building.



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# Hilton Park Services Salt Barn Refurbishment

CLM took on the task of casting level plinths onto which the blocks could be placed and organised the timing of installation of the blocks by making sure the salt already stored on the barn was moved over to one side.



The off-loading and installing of the blocks was contracted to the specialist lifting and contracting business owned and operated by Andy Fones – AA Installations. Andy has many years of experience of operating at the highest level of safety standard whilst completing some of the most challenging lifting / placing / installing projects involving heavy precast concrete elements.



By close liaison between CLM, AA Installations and Elite Precast Concrete the blocks were safely installed in two parts – one side of the salt barn and then the other – thus insuring minimal disruption to the day-to-day running of the facility at Hilton Park.

Elite Precast Concrete carry large stocks of their high strength Legato blocks so AA Installations were able to order them straight 'off-the-shelf' and the fact that the blocks are designed to a minimum 100 year working life means that the client will have benefit of the newly refurbished salt barn as part of their annual challenge of keeping the motorways open during the winter months for many years to come.



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# Elite Precast Concrete **case study**

## West Midlands... Legato retaining wall

For more information or technical advice, contact 01952 588885.

Elite was contacted by a West Midlands client regarding an old, derelict warehouse that had become dangerous. The issue was that it had a high, bowing gable-end and the same on the connecting wall, both walls being of brickwork, caused by a build-up of material outside pressing against the rear and side of the building.



The building would have to be demolished but there was a requirement for something to strengthen the inner part of the building whilst keeping a proportion of the existing brickwork to a set height - then the roof and metalwork could be safely taken down.

The solution was to build a row of Elite Legato blocks, three rows high at a set distance from the brickwork on the inside of the gable-end of the building, joining at right angles to an interlocking row of blocks at the same height running down the inside of the external brick wall. This would then lower to a row of two blocks as the external ground tapers down thus leaving a void between the existing brick wall and the blocks.



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## West Midlands... Legato retaining wall



With 177 Legato blocks to be erected, this was a job for Elite's partner team AA Installations from Cannock.

The far ends of the Elite Legato blocks were set at an angle inwards to the wall, free-draining fill material was placed in the void between the rows of blocks and the existing retaining walls, and drainage measures were constructed to prevent groundwater from building up behind the wall. The wall was therefore designed with no retained water pressures.

Once the Legato blocks had been erected, all the gable-end brickwork above the blocks was demolished. Subsequently the rest of the building was taken down leaving a nice L-shaped row of blocks where the two sides of the warehouse had been... looking aesthetically pleasing to the eye and carrying out the retaining job that they were designed for.



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## West Midlands... Legato retaining wall



AA Installations is a specialist lifting and contracting business owned and operated by Andy Fones. Andy has many years of experience of operating at the highest level of safety standard whilst completing some of the most challenging lifting / placing / installing projects involving heavy precast concrete elements.

Elite Precast Concrete carry large stocks of interlocking blocks so AA Installations were able to order them straight 'off-the-shelf'. The Legato blocks used are cast from Elite's well-regarded high-strength concrete (50N/mm<sup>2</sup>) which, combined with approved steel reinforcing, means that they meet all current requirements.

Elite Precast Concrete offer a choice and size range of interlocking blocks in addition to the Legato blocks used in this project - just browse the Elite website for more options.



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