REDI•ROCK®

BY MOORE CONCRETE

Precast interlocking blocks for retaining and freestanding walls

HAPAS

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 95/3191

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Introduction

CE 1029 HAPAS BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE 95/3191

REDI-ROCK®

What is Redi-Rock?

Redi-Rock® is a complete retaining wall solution that combines engineered strength, rapid installation, and outstanding aesthetics.

The innovative precast concrete blocks are created in moulds and have a natural-effect cobblestone finish that produces a highly aesthetic appearance. The Redi-Rock range comprises of Retaining Blocks, XL Blocks and Freestanding Blocks. These can be combined to provide a range of retaining & landscaping solutions.

Manufactured in Northern Ireland and supplied across the UK and Ireland, Redi-Rock blocks are CE marked, produced under accredited factory control conditions, and backed by BBA HAPAS approval.

Why Choose Redi-Rock?

- **Rapid Installation** – Construct walls up to ten times faster than traditional retaining wall methods.
- **Cost-Effective Solution** – Reduced labour, programme time, and site costs deliver excellent project value.
- **Engineered Performance** – Proven structural strength capable of achieving substantial wall heights, often with reduced geogrid requirements.

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Applications

Versatile Solutions Across Every Sector

Transportation Infrastructure

Fast, efficient retaining solutions for highways, roads, and transport corridors.

Rail Network Projects

Minimise disruption and accelerate delivery for rail infrastructure works.

Riverbank Stabilisation

Durable retaining systems designed to resist erosion and protect waterways.

Coastal Protection

Robust solutions for shorelines, flood plains, sea defences, and coastal environments.

Bridge & Structural Support

Ideal for bridge abutments, wing walls, and heavy-duty retaining applications.

Landscaping & Amenity Areas

Create attractive terraces, planters, curves, and feature walls with a natural stone appearance.

Residential & Commercial Development

Maximise usable land, manage level changes, and enhance the visual appeal of developments.

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Retaining Blocks

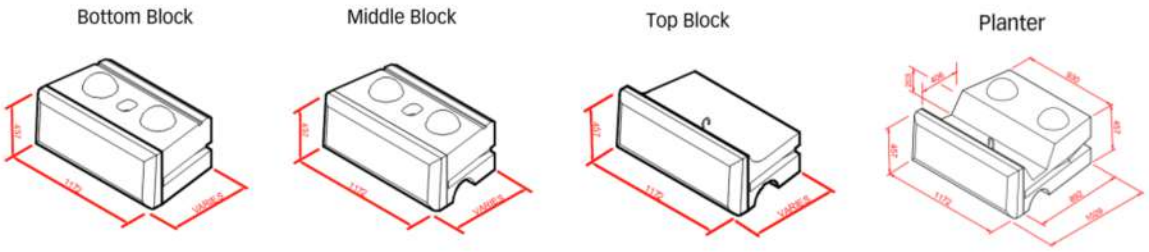
↘ Gravity Retaining Walls

Gravity retaining walls can be used for a variety of land control and protection applications, including the creation of terraces, leveling ground for construction, preventing erosion, or providing support to **roadways, bridges, parking areas, trails, and other structures.**

- **Massive Structure** - Gravity retaining walls are typically constructed using heavy materials such as concrete, stone, or masonry blocks. This mass provides stability and resistance against the lateral pressure exerted by the retained material.
- **Self-Supporting** - Gravity walls rely on their own weight and mass to resist the forces acting upon them. They do not require additional reinforcement, such as tiebacks or anchors, to maintain stability.
- **Bigger Base Blocks** - The blocks found near the base of a gravity retaining wall are typically the largest featured in the wall. This broader base distributes the weight of the wall over a larger area, reducing the pressure on the underlying soil and enhancing stability. Block size can be reduced as the wall gets taller to keep costs lower without compromising the strength of the wall.
- **Standard block size** - 1172mm × 457mm front face. Half blocks are also available to accommodate wall layouts and corners.

Key Benefits

- 60 blocks can be laid per day with one worker and digger driver. One customer reported laying 115 blocks in one day (with two workers and a digger driver)
- Space saving designs as geogrid is rarely needed
- The interlocking blocks do not need mortar, so can be dry laid in any weather
- Flexibility as blocks can be easily moved
- Reduce number of people and time on site means reduced risk and program
- Up to 3.5 times faster install than small blocks and geogrid system
- Redi-Rock has the ability to create curves and corners
- Three depths available:
- 0.71m (28”)
- 1.04m (41”)
- 1.52m (60”)



Moore Concrete manufacture under license from Redi-Rock International of USA. The Redi-Rock product is BBA approved with Roads and Bridges Agreement Certificate 12/R149. They are also designed in accordance with BS EN 1997-1:2004.

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XL Block

What is XL Block?

Redi-Rock XL Block is a new, hollow-core retaining block that extends the reach of the most comprehensive retaining wall system on the market. The XL Block has double the face height of a standard Redi-Rock block, meaning half the installation time. As well as this, it has a hollow core with a lighter weight, therefore this lowers the cost of shipping. At Moore Concrete, we are the only manufacturer of XL blocks in the UK and Ireland.

Key Benefits

- Double height face
  - 914mm (36")
- Three depths available
  - 1.37m (54")
  - 1.83m (72")
  - 2.44m (96")
- Taller gravity walls can be designed up to 7.6 metres without any geogrid
- The XL Block interlocks with all existing blocks in the Redi-Rock system, providing more tools to build the most efficient retaining wall solution

Our XL Blocks are BBA HAPAS certified up to 7.6m high

BBA BRITISH BOARD OF AGRÉMENT

Optimise Your Retaining Wall Design with Redi-Rock XL

- Reduced construction programme and cost
- Double the face height – cover more area with fewer blocks
- Reduced site time resulting in reduced risk of slippage
- Less backfill required compared to traditional methods
- Less excavation

www.moore-concrete.com

Scan the QR Code to view a Timelapse video of XL Redi-Rock Wall installed at a site in Dungannon

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Freestanding Walls

What are Freestanding Walls?

Freestanding walls make for great **top-of-wall finishes** or **stand-alone structures.**

Whether it's a seat wall adjacent to or a barrier on top of a retaining wall, the seamless look and feel of freestanding and retaining products from Redi-Rock makes coordination a breeze. The eyecatching textures are perfect for high-visibility projects like privacy screening, entrances and gates, and sign foundations.

Freestanding Wall Applications

Residential

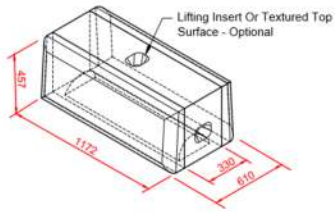
Seat Walls

Steps

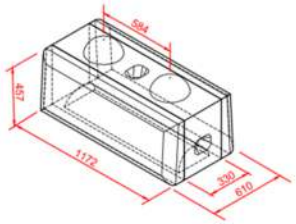
Planters

Landscape Design

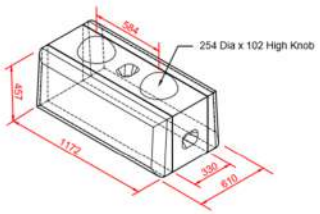
Freestanding Wall Specifications



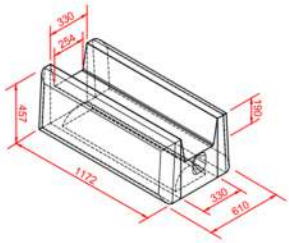
Straight Top
Block Weight: 623kg
Block Volume: 0.272m³



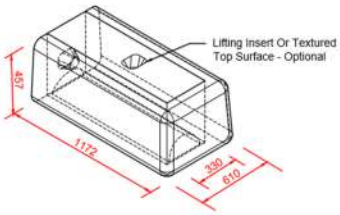
Straight Middle
Block Weight: 638kg
Block Volume: 0.279m³



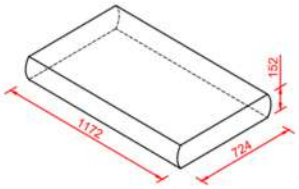
Straight Bottom
Block Weight: 638kg
Block Volume: 0.279m³



Straight Garden Top
Block Weight: 476kg
Block Volume: 0.208m³



Corner Top
Block Weight: 620kg
Block Volume: 0.270m³



Two-Sided Cap
Block Weight: 486kg
Block Volume: 0.125m³

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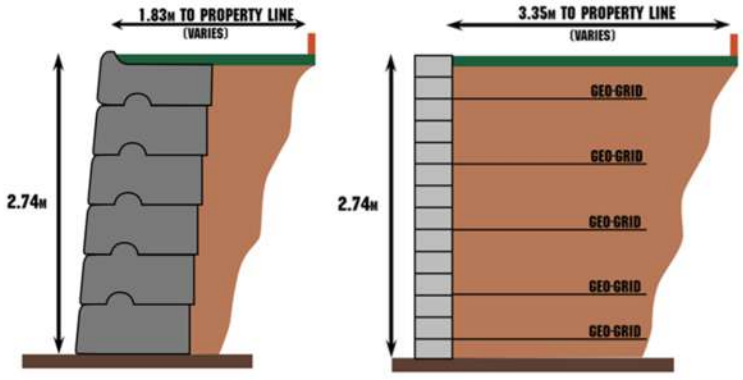
Installation

Fast, Efficient Installation

Redi-Rock walls are designed for **fast** and **efficient** installation, requiring minimal labour and plant. No temporary propping is required during construction, while the installed wall can provide immediate edge protection for operatives working behind the structure.

- Foundation requirements vary depending on site conditions and project requirements. In many applications, a compacted granular stone foundation provides a suitable base.
- Redi-Rock walls are constructed using large modular precast concrete blocks, enabling fast and efficient installation.
- Walls are backfilled with free-draining stone, allowing water to flow freely through the drainage zone and reducing hydrostatic pressure behind the wall.
- Geogrid reinforcement is not typically required, as many Redi-Rock systems function as gravity retaining walls. This can significantly reduce excavation requirements, saving both time and cost.

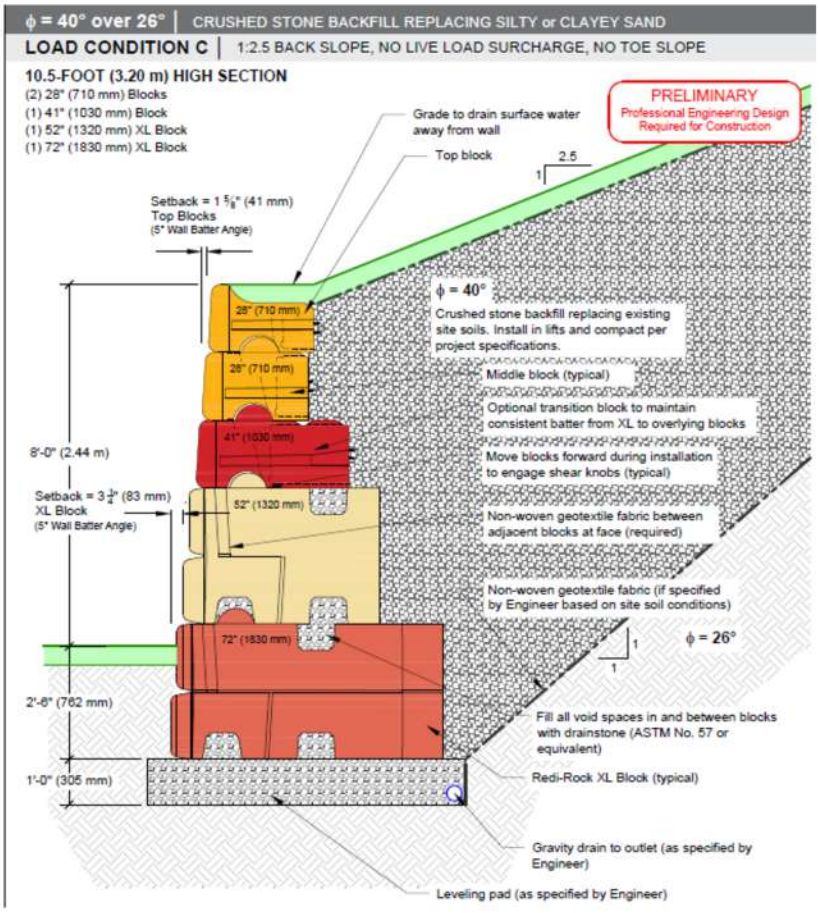


90° corners, convex and concave curves are all possible with the Redi-rock system. We can provide guidance and visualisations to show how your site geometry can be managed with a Redi-rock wall.

↘ Preliminary Design Tools

Redi-Rock preliminary design tools provide an initial wall configuration for feasibility and budgeting purposes; final retaining wall design should always be verified by a qualified engineer using project-specific ground and loading conditions.

Redi-Rock Wall Sizing Tool



Real World Solutions

Glenarm Road, Larne, NI

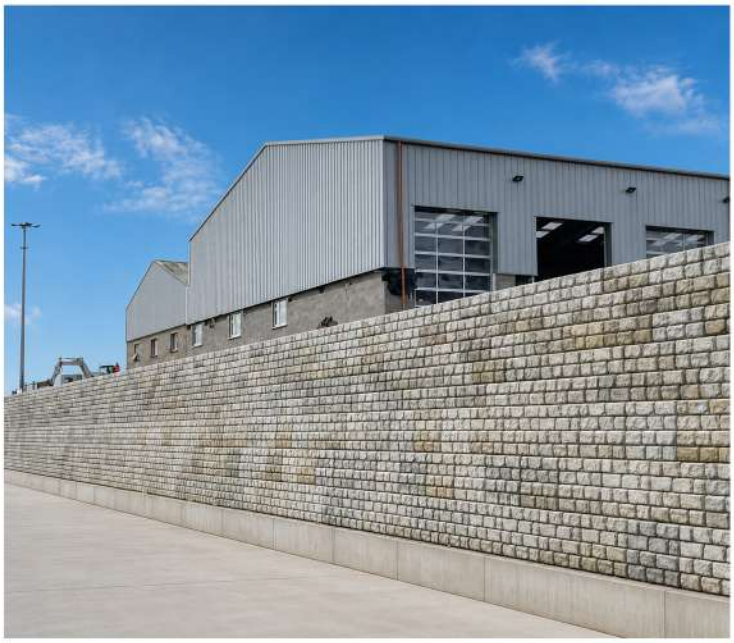
Redi-Rock Curved Retaining Wall at Residential Entrance.

Glenview Park, Newtonabbey, NI

Redi-Rock Retaining Wall at Residential Entrance.

Granco Ltd Site Expansion, Newry, NI

As part of a yard expansion project at Granco Ltd, Newry, a retaining wall solution was required to maximise usable site space while supporting heavy goods vehicles. Redi-Rock XL blocks were selected for their ability to achieve the required wall height and loading capacity without geogrid reinforcement, preserving valuable yard space and reducing installation works. The completed wall provides a durable, long-term solution capable of withstanding the demands of a busy commercial vehicle depot.



Chapel Road, Cushendall, NI

Following a landslip on Chapel Road, Cushendall, a retaining solution was required to safely reopen this key transport route along Northern Ireland's north coast. The proximity of the carriageway and an adjacent river ruled out traditional retaining methods, requiring a solution that could be installed quickly with minimal environmental impact.

Redi-Rock was selected for its rapid installation, proven performance and suitability for highway applications. The modular precast retaining wall system enabled efficient construction, allowing the road to be reopened safely while restoring access to this important coastal route.

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Our Capabilities

Looking For More Than Retaining Walls?

Moore Concrete manufactures a wide range of quality precast concrete solutions for the agriculture, building and civil sectors throughout the UK and Ireland.

Coastal Defence

Rail

BEBO arches & VSOL panels

Bunker Walls

Prestressed Wall Panels

Residential Developments

Explore the full range on our website:

REDI-ROCK®

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ISO 9001 Quality Management Systems CERTIFIED

ISO 45001 Occupational Health and Safety Management CERTIFIED

OHSAS 18001 Occupational Health & Safety Management

INVESTORS IN PEOPLE®
We invest in people Platinum

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