FP McCann is the UK’s market leader in the manufacture, supply and delivery of precast concrete solutions. Our comprehensive precast concrete business extends to include:

- Drainage and Water Management Solutions
- Tunnel and Shaft Solutions
- Rail Solutions
- Power and Infrastructure Solutions
- Walling Solutions
- Fencing Solutions
- Rooms and Building Solutions
- Agricultural Solutions
- Flooring Solutions
- Specialist Precast Solutions

Modern manufacturing plants at Alnwick (Northumberland), Cadeby (Warwickshire), Ellistown (Leicestershire), Grantham (Lincolnshire), Magherafelt (Northern Ireland), Littleport (Cambridgeshire), Lydney (Gloucestershire), Telford (Shropshire) and Weston Underwood (Derbyshire) incorporate the latest computerised batching, distribution, casting, curing and handling systems and are operated by skilled and experienced workforces to ensure consistency of quality. Their geographical spread gives us an unrivalled ability to serve the construction industry throughout the UK and Ireland.
FP McCann combines and co-ordinates the design, manufacturing and expertise of over 65 years in Bell & Webster Concrete and over 30 years in Milbury Systems, to deliver high quality precast concrete products at competitive prices.

The Concrete Force
The Concrete Force defines our relentless drive to continually improve on our own expectations while exceeding yours, ensuring we add value to your project.

Concrete Commitment
FP McCann is committed to delivering more efficient, cost effective and safety focused sustainable concrete solutions. Our vision is to continue to exceed our customers’ expectations whilst making an impact on new customers.

Concrete Relationships
We believe in working with you as a partner from the start, which means offering our expertise in designing and manufacturing precast concrete to suit your individual project requirements.

Concrete Quality
Through our factories based in Lincolnshire and Gloucestershire, FP McCann has got your project covered across the entire UK.
Rocket Walls
FP McCann Rocket Walls are high quality, freestanding, precast concrete units. They are designed to be sited on an existing concrete floor slab or foundation and bolted down using fixing bolts to prevent movement, for improved site safety and maximum efficiency.

FP McCann Rocket Walls meet BS8110. It is this uniqueness that makes them suitable for a variety of uses.

Key Features
- MRF bays
- Aggregate storage
- Crop / soil storage
- Internal and external dividing walls
- Loading one side or both

FP McCann Rocket Walls have been designed with external fixing points enabling them to be easily unbolted and re-sited, when required, with relative ease offering even more flexibility in their use.

When Rocket Walls arrive on site it is important to follow instructions on how to offload them safely. Instructions are available from FP McCann.

Portable concrete storage solutions
- 1.25m wide
- Engineered for high capacity
- Designed for materials up to 16KN/m²
- Manufactured to ISO quality and environmental standards
- Simply installed and easily moved
- Inverted Y shape design provides high capacity
- Value engineering means less concrete than typical alternatives
- Engineered to allow for up to 4m high units

Applications
Our Precast Rocket Walls are designed for materials up to 16KN/m² in density:
- Recycling
- Construction
- Agriculture

Manufactured to ISO quality and environmental standards:
- ISO 14001 environmental standards includes rainwater harvesting, waste and water recycling
- 30% lower raw material content than typical alternatives
- ISO 9001 delivers quality assurance

Simply installed and easily moved:
- Anchoring rocket walls ensures high performance and safety on site
- Fixing points are located externally to ensure ease of installation
- Rocket walls can be shipped in large quantities on standard trailers
Guidelines for installation

1. Position, line and level wall units on continuous mortar bed, both sides. Strike mortar off flush.

2. Drill 16mm diameter holes 125mm deep into base slab, using holes in unit as pilots.

3. Insert 16mm screw bolts with plate washer into each hole then tighten to 100N/m torque.

4. Using non-shrink mortar and a trowel, fill recess and strike off flush.

5. Leave to cure for a minimum of 48 hours before loading.
rocket walls
straight &
corner units

Dimensions

Dimensions - Rocket Wall (straight)

<table>
<thead>
<tr>
<th>Height (m)</th>
<th>Weight</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
<th>j</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4m</td>
<td>1100kg</td>
<td>2400</td>
<td>970</td>
<td>1250</td>
<td>100</td>
<td>131</td>
<td>131</td>
<td>710</td>
<td>1600</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>3.0m</td>
<td>1860kg</td>
<td>3000</td>
<td>1200</td>
<td>1250</td>
<td>110</td>
<td>150</td>
<td>165</td>
<td>870</td>
<td>2000</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>4.0m</td>
<td>2820kg</td>
<td>4000</td>
<td>1650</td>
<td>1250</td>
<td>941</td>
<td>691</td>
<td>851</td>
<td>280</td>
<td>2600</td>
<td>1400</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions - Rocket Wall (corner)

<table>
<thead>
<tr>
<th>Height (m)</th>
<th>Weight</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
<th>j</th>
<th>k</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4m</td>
<td>1091kg</td>
<td>2400</td>
<td>970</td>
<td>1200</td>
<td>100</td>
<td>131</td>
<td>131</td>
<td>710</td>
<td>1600</td>
<td>800</td>
<td>759</td>
</tr>
<tr>
<td>3.0m</td>
<td>1842kg</td>
<td>3000</td>
<td>1200</td>
<td>1200</td>
<td>110</td>
<td>150</td>
<td>165</td>
<td>870</td>
<td>2000</td>
<td>1000</td>
<td>680</td>
</tr>
<tr>
<td>4.0m</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Steel corner infill assembly

Unit Screw Bolt Requirements

<table>
<thead>
<tr>
<th>Height (m)</th>
<th>2.4 unit</th>
<th>2.4 corner</th>
<th>3.0 unit</th>
<th>3.0 corner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw bolts required (no)</td>
<td>4</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Length in foundation (mm)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height (m)</th>
<th>4.0 unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded rod fixed with a split grip (no)</td>
<td>6</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>16</td>
</tr>
<tr>
<td>Length (mm)</td>
<td>215</td>
</tr>
<tr>
<td>Length in foundation (mm)</td>
<td>65</td>
</tr>
</tbody>
</table>
• Fast and easy installation
• No protruding foot
• Easy to move for resiting
• Ideal for bunkers and division walls
• Self-shedding units – prevents the lodging of stored material
• Flexible layout opportunities integrates with our standard retaining wall units
• Corner units available
• Load one side or both
• Forklift attachment available to aid and speed lifting
L walls

The precast L-Wall units are ideal for forming both retaining and containing structures in residential, commercial, industrial and waste developments.

**Key Features**
L-Wall units are an ideal product where speed of installation is necessary. They offer a fast, cost effective solution to constructing retaining and containing developments. Standard sizes range from 1m high up to 3.75m high with a width of 1m for all units.

In addition, L-Wall units can be combined with either FP McCann’s pre-stressed concrete panels or Rocket walls to form storage facilities:
- Large range of sizes available
- Quick and easy installation
- Create storage bays without imposing a load to the building frame
- No specialist trades required
- Can be loaded either side or both sides of the stem
- Retain material up to 18KN/m³
- Stability

Anchors comprise of H.20 high yield deformed bar and two part polyester resin mortar, used in accordance with the manufacturer’s instructions. Position the retaining wall units onto the concrete foundation and align using a mortar bed and shims as required. Using the 30mm diameter holes in the unit base as a guide, drill into the foundation to the required depth. Pour the sufficient mixed resin into the hole first then insert the H.20 bar so that it is just below the surface of the unit and completely encapsulated in the resin.

Important points to remember: drill sufficient holes to allow the use of a complete batch of mixed resin; the mortar is placed in the hole, follow the resin manufacturer’s instructions for placing the anchor bars into the resin. When correctly fitted, the bars should finish below the surface of the wall unit completely encapsulated in resin.

**Foundations**
The foundation requirements should be determined by a qualified engineer. Units placed on a concrete foundation should be bedded on mortar and wedged to attain correct alignment. FP McCann recommend that L wall units are suitably anchored to the foundation.

**Applications**
- Earth retention
- Storage facilities
- Division walls
- Double loading
- No heel – sheer reverse face
- Quick and easy installation
- Range of sizes to suit requirements

**Soil Retention**
- General soil retention
- Waste recycling bunkers
- Making up levels within buildings
- Landscaping of housing estates
- Retaining walls
- Bulk storage
- Bunker walls
- Division walls
- The precast concrete L wall units are ideal for forming both retaining and containing structures in residential, commercial, industrial and waste developments
- Fast installation
- Load one side or both
- Corner units available
- Also ideal for soil retention

The permanent option: Where a new floor slab is to be laid, a more permanent option using either FP McCann vertical cantilever or horizontal bunker panels should be considered:
- A long term solution
- Units interlocked - no differential movement
Standard Sizes

The loading 18 kN/m³ is approximately a bulk density of 1800 kg/m³

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Width mm straight unit</th>
<th>Width mm corner unit(s)</th>
<th>Weight straight unit</th>
<th>Weight corner unit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>1000</td>
<td>1000</td>
<td>394 kg</td>
<td>686 kg</td>
</tr>
<tr>
<td>1500</td>
<td>1000</td>
<td>1000</td>
<td>631 kg</td>
<td>1046 kg</td>
</tr>
<tr>
<td>1750</td>
<td>1000</td>
<td>1000</td>
<td>761 kg</td>
<td>1230 kg</td>
</tr>
<tr>
<td>2000</td>
<td>1000</td>
<td>1000</td>
<td>890 kg</td>
<td>1400 kg</td>
</tr>
<tr>
<td>2500</td>
<td>1000</td>
<td>1250</td>
<td>1316 kg</td>
<td>2600 kg</td>
</tr>
<tr>
<td>3000</td>
<td>1000</td>
<td>1500 sections 1 &amp; 2</td>
<td>1740 kg</td>
<td>2070 kg sections 1 &amp; 2</td>
</tr>
<tr>
<td>3750</td>
<td>1000</td>
<td>1300 sections 1&amp;2</td>
<td>2596 kg</td>
<td>2460 kg sections 1&amp;2</td>
</tr>
</tbody>
</table>

Anchors for Standard Conditions

<table>
<thead>
<tr>
<th>Unit</th>
<th>Minimum Embedment Foundation (mm)</th>
<th>Unit (mm)</th>
<th>No. &amp; Type</th>
<th>Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>125</td>
<td>115</td>
<td>2No. H.20</td>
<td>275</td>
</tr>
<tr>
<td>1500</td>
<td>125</td>
<td>124</td>
<td>2No. H.20</td>
<td>290</td>
</tr>
<tr>
<td>1750</td>
<td>125</td>
<td>130</td>
<td>2No. H.20</td>
<td>290</td>
</tr>
<tr>
<td>2000</td>
<td>125</td>
<td>133</td>
<td>2No. H.20</td>
<td>290</td>
</tr>
<tr>
<td>2500</td>
<td>200</td>
<td>151</td>
<td>2No. H.20</td>
<td>400</td>
</tr>
<tr>
<td>3000</td>
<td>200</td>
<td>165</td>
<td>2No. H.20</td>
<td>400</td>
</tr>
<tr>
<td>3000</td>
<td>200</td>
<td>165</td>
<td>2No. H.20</td>
<td>430</td>
</tr>
<tr>
<td>3750</td>
<td>200</td>
<td>195</td>
<td>2No. H.20</td>
<td>430</td>
</tr>
<tr>
<td>3750</td>
<td>200</td>
<td>195</td>
<td>2No. H.20</td>
<td>475</td>
</tr>
</tbody>
</table>

Handling and Installation

Units are delivered laid down on their edge and are fitted with 2 no. recessed lifting anchors. Quick release loops (1) and erection shackles (2, 3 & 4) are available for purchase to use in conjunction with customer’s plant to offload and erect. Conformity with current lifting legislation and vehicle off-loading is the customer’s responsibility.
### Dimensions - L Wall (2 holes) mm

<table>
<thead>
<tr>
<th>Height</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>h</th>
<th>l</th>
<th>m</th>
<th>n</th>
<th>p</th>
<th>r</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>1000</td>
<td>500</td>
<td>1000</td>
<td>103</td>
<td>120</td>
<td>240</td>
<td>200</td>
<td>315</td>
<td>185</td>
<td>250</td>
<td>500</td>
<td>104</td>
</tr>
<tr>
<td>1500</td>
<td>1500</td>
<td>750</td>
<td>1000</td>
<td>110</td>
<td>130</td>
<td>230</td>
<td>300</td>
<td>n/a</td>
<td>375</td>
<td>220</td>
<td>560</td>
<td>110</td>
</tr>
<tr>
<td>1750</td>
<td>1750</td>
<td>875</td>
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<td>110</td>
<td>135</td>
<td>235</td>
<td>300</td>
<td>438</td>
<td>438</td>
<td>220</td>
<td>560</td>
<td>120</td>
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<tr>
<td>2000</td>
<td>2000</td>
<td>1000</td>
<td>1000</td>
<td>110</td>
<td>140</td>
<td>240</td>
<td>300</td>
<td>500</td>
<td>500</td>
<td>220</td>
<td>560</td>
<td>120</td>
</tr>
<tr>
<td>2500</td>
<td>2500</td>
<td>1250</td>
<td>1000</td>
<td>110</td>
<td>180</td>
<td>305</td>
<td>300</td>
<td>625</td>
<td>625</td>
<td>220</td>
<td>560</td>
<td>125</td>
</tr>
</tbody>
</table>

### Dimensions - L Wall (4 holes) mm

<table>
<thead>
<tr>
<th>Height</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>h</th>
<th>j</th>
<th>l</th>
<th>m1</th>
<th>m2</th>
<th>n</th>
<th>p</th>
<th>r</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>3000</td>
<td>1500</td>
<td>1000</td>
<td>110</td>
<td>200</td>
<td>400</td>
<td>300</td>
<td>500</td>
<td>500</td>
<td>220</td>
<td>500</td>
<td>130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3750</td>
<td>3750</td>
<td>1875</td>
<td>1000</td>
<td>110</td>
<td>255</td>
<td>500</td>
<td>300</td>
<td>688</td>
<td>500</td>
<td>688</td>
<td>290</td>
<td>420</td>
<td>135</td>
<td></td>
</tr>
</tbody>
</table>

Technical helpline  
01594 847500 / 01476 562277  
fpmccann.co.uk/walling  

Please check our website for most up-to-date information
Please check our website for most up-to-date information.
Key Features
Large range of sizes available
Quick and easy installation
Create storage bays without imposing a load to the building frame
Can retain material on both sides
Retain material up to 18KN/m³

T-Wall units are an ideal product where speed of installation is necessary. They offer a fast, cost effective solution to constructing retaining and containing developments. Standard sizes range from 2m high up to 3m high with a width of 1m for all unit sizes.

Foundations
The foundation requirements should be determined by a qualified engineer. Units placed on a concrete foundation should be bedded on mortar and wedged to attain correct alignment. Where it is necessary to anchor the unit to the foundation see the ‘Stability’ section.

Stability
Anchors comprise of 4 no. H.20 high yield deformed bars with nominal penetration of 150mm both into the foundation and the unit, used with two part resin mortar (as for retaining walls) in accordance with the manufacturer’s instructions.

1. Position the T-Walls onto the concrete foundation and align using a cement mortar bed and shims as required.

2. With the 30mm diameter holes in the unit base as a guide, drill into the foundation to the required depth using a 28mm diameter rotary percussive drill to give rough sided holes (do not use a diamond drill which leaves a smooth sided hole).

3. Pour sufficient mixed resin into the hole first then insert the H.20 bar to the full depth so that the resin covers and encapsulates the bar.
Standard Sizes and Unit Dimensions

<table>
<thead>
<tr>
<th>Unit height mm</th>
<th>Weight Code 1</th>
<th>Weight Code 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>2304kg</td>
<td>1632kg</td>
</tr>
<tr>
<td>2500</td>
<td>2544kg</td>
<td>1872kg</td>
</tr>
<tr>
<td>3000</td>
<td>2784kg</td>
<td>2112kg</td>
</tr>
</tbody>
</table>

Technical helpline
01594 847500 / 01476 562277
fpmccann.co.uk/walling
Please check our website for most up-to-date information
Easi-Bloc is a precast concrete block, offering solutions where limited space is available for containment. Blocs are simplistic in design allowing for effortless handling and speed of installation. Easi-Bloc comes in two sizes making them ideal for a variety of applications.

**Applications**
Ideal for a variety of uses to include:
- Segregation
- Temporary road blocks
- Security barricades
- Storage bays
- Agricultural bays suitable for grain, silage etc
- Earth retention
- Aggregate bays
- Partition walling
- Landscaping
- Waterways
- Highways
- Shoreline defences

**Features**
- Cost effective
- Easy to handle and install
- Durable

Easi-Bloc contains a central cast in lifting loop for ease of handling and installation.

Products are manufactured to comply with the requirements of BS EN 1992-1-1:2004.

<table>
<thead>
<tr>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>600</td>
<td>450</td>
<td>750</td>
</tr>
<tr>
<td>600</td>
<td>600</td>
<td>450</td>
<td>375</td>
</tr>
</tbody>
</table>
Horizontal Panels
Instant concrete wailing that offers efficient installation with the future-proof option of re-siting if required.

FP McCann instant wailing concrete panels are the ideal solution for the progressive farm where the adaptability of buildings is important. They are manufactured in prestressed concrete, giving them in-built strength and resilience.

Key Features
• No foundation required
• Tongue and grooved joints for easy alignment and positive sealing
• Tailor made lengths and a variety of widths
• Smooth impervious surface which is easily washed down
• Prestressed panels absorb minor accidental damage
• Simplistic and quick installation
• More cost effective – more versatile than blockwork

Stability and Durability
FP McCann prestressed panels are highly resistant to accidental damage, as they have the ability to flex on impact when normal block walls would crack. Panels are easily removed and re-sited within an existing farm plant, providing flexibility to change a configuration of the structure as the client’s future needs evolve.

Using horizontal panels (spanning between columns or fixed within the walls) considerable wall heights can be achieved, through stacking units. Various panel heights are available including 1000mm, 1200mm and 1500mm; these may be mixed and matched for benefit of providing an overall wall height to meet the client’s requirements. This system is particularly useful for raising internal and external ground levels in or around a building frame, or for king post applications to retain an earth bank.

Foundations
Connected to the building frame by placing the load against stanchions, these panels are held in place with bolts and cleats and do not require foundations.
Handling and Installation

1. Panels to be offloaded from delivery vehicles and stacked on flat hard standing. Stacking timbers to be placed between panels directly above the one below, as shown. Do not stack panels more than 6 high. The panel weights are marked on each panel.

2. Using suitable lifting machine, fix wire rope slings (or D shackles) to pre-formed holes in panels or proprietary lifting devices to cast-in lifters. All units to be lifted under the direction of a banksman.

3. Ensure all 4 clips and bolts are fitted to panel and are tightened before removing load from lifting machine. NOTE: Bolts must be regularly checked for tightness.

4. Seal and tool joints using gunned mastic. Refer to FP McCann manual for instructions.

Dimensions - Horizontal Panel

<table>
<thead>
<tr>
<th>(a) Panel Height</th>
<th>1.0</th>
<th>1.2</th>
<th>1.5m</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b) Panel Thickness</td>
<td>80mm</td>
<td>120mm</td>
<td>160mm</td>
</tr>
<tr>
<td>(c) Panel Length</td>
<td>To suit the project, limited by load/span and handling considerations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical helpline
01594 847500 / 01476 562277
fpmccann.co.uk/walling

Please check our website for most up-to-date information.
The FP McCann Prestressed Vertical Cantilever Panel system provides the user with a more cost effective and time efficient system when comparing against a traditional on-site in-situ wet-cast system. It allows greater strength in a more slender panel than a comparable thicker traditional in-situ wall.

**Key Features**

- The vertical cantilever panels are prestressed, allowing greater strength in a more slender panel
- Prestressing reduces the incidence of tensile cracking in the panels
- The concrete used for the prestressed panels is designated as a C50/60 grade
- The foundation can be individually designed to suit site and loading requirements
- The prestressed panels are tongue and grooved together, allowing effective sealing between units without stressing the sealant
- The units are lighter so require smaller site lifting vehicles
- The prestressed unit can be lifted and handled more easily on site
- Manufactured on 70mm long prestressing beds, retained heights of up to 4m can be achieve for many material types

Depending on the prestressed panel thickness, security or fire walls can achieve a fire exposure rating of up to 4 hours and effective heights of up to 7.50m maximum. The units are cast as standard with a Class A steel mould finish to one side and all edges complete with hand trowelled finish to the other face.

During the casting process, Wavy Tail Lifters can be cast-in the top edge of the panel to assist with on-site installation.

**Applications**

- Soil retention
- Coarse material retention
- Coarse aggregation retention
- Silage clumps
- Under-ground slurry stores
- Basements of structures
- Waste recycling bunkers
- Prison security walls
- Substation fire walls
- Flood alleviation schemes
Handling and Installation

Panels to be offloaded from delivery vehicles and stacked on flat hard standing.

Stacking timbers to be placed between panels directly above the one below. Do not stack panels more than 6 high.

The panel weights are marked on each panel.

Foundation trench is excavated and a strip footing formed in the base. Cradles are set out on the footing, and the panels lowered into them, shimmed and levelled as necessary. Temporary propping must be used - the frequency depending on height and exposure.

Second Panel to be propped as detailed in stage 3.

Load maintained by lifting machine until panel is adequately propped.

Set up rebar and framework.

If a prop happens to be in the way do not move any props.

Seal joints as required. Pour and compact concrete.

Props to remain in position until foundation concrete is in excess of 25N.

Dimensions - Vertical Panel
(a) Panel Lengths: To suit the project, limited by load/span and handling considerations
(b) Panel Thicknesses: 120mm, 160mm, 200mm and 240mm
(c) Panel Widths: 1.5m standard, 1m and 1.2 special order

Technical helpline
01594 847500 / 01476 562277
fpmccann.co.uk/walling

Please check our website for most up-to-date information
Andacrib™ concrete crib retaining walls

Andacrib is a modular pre-cast concrete crib retaining wall system which has been designed to cater for the most onerous loading conditions demanded of structures in highway, industrial and commercial sectors.

Andacrib’s unique design, incorporating generous header to header bearing surfaces, ensures that all primary loads are remote from the exposed face. The design also allows for the various header lengths to be mixed within the same structure for maximum economy whilst maintaining a consistent visual appearance.

Andacrib header units can be linked into double or triple skin walls, whilst internal and external curves can be formed.

Applications
Andacrib’s flexibility enables it to be utilised in a variety of situations:

• Road and railway embankments and cuttings
• Bridge and underpass wing walls and approach ramps
• Sewerage / water treatment plant developments
• Local authority developments, schools, public service buildings, etc
• Airport development and improvements
• Retail parks
• Service stations
• Car parks
• Leisure developments
Composition and Manufacture
Andacrib concrete components conform with Class 2 Sulphate Resistance and ‘very severe’ salt attack conditions as required by both BS 8110 and BS 5400. The concrete has a design strength of 50 N/mm². Andacrib headers and stretchers are steel reinforced and fully comply with the requirements of BS 8110.

Durability
A completed Andacrib wall provides a substantial, maintenance free structure with a design life in excess of 120 years and its design meets Highway Agency requirements.