

→ Delivering Precast Concrete

Industrial, Commercial and Retail Buildings



# Why Choose *Buchan*

At Buchan, we promise to deliver more efficient, cost effective and safety focused sustainable solutions. Our vision is to exceed our customers' expectations as the premier off-site concrete solutions provider.

Buchan Concrete Solutions enjoys a history and track record spanning more than 60 years and is the largest manufacturer of precast concrete crosswall and associated products in the UK, operating from two plants in Cheshire and Staffordshire.

As part of the Roger Bullivant Group of Companies, we are renowned for our quality and innovation, and are continually stretching the boundaries as to the use of precast concrete.

Our current range of award winning precast concrete systems is the result of an extensive R&D programme and brings a choice of fully engineered products to the market.

Buchan are unique in being able to offer a 'total' in-house service. So from receipt of an initial 'concept' scheme we can provide a scope and estimate leading to full design and manufacture concluding with the erection of the project - all undertaken by our own fully trained professional personnel.

Page	Section title:
4	DOCK LEVELLER PITS
4	INFIL KIT SYSTEM
6	QUICKWALL®
7	QUICKWALL® SPECIAL
8	QUICKSPAN GROUND BEAMS
8	PROWALL
9	FIREWALL
9	RETAINING WALLS AND PERIMETER WALLS
10	MINI PILED PRECAST RETAINING WALL
10	SERVICE YARD WALLS
11	PROJECT EXPERIENCE



# Our precast systems, designed to reduce costs, increase accuracy and simplify on-site construction

We have a dedicated team of concrete product specialists ensuring that value engineering is built into every project.

Our extensive design department with fully qualified engineers, uses state-of-the-art CAD facilities, including 3D modelling to provide optimum design and build solutions as well as support for clients' professional teams.

Manufacture of all the systems is carried out by our highly trained and experienced workforce, operating under strict BSI approved Quality Assurance.

Both our plants in Cheshire and Staffordshire boast modern facilities and deliveries of the completed product are made using our fleet of vehicles on a just-in-time basis.

On-site, skilled installation crews are supervised by highly experienced construction managers to ensure a Quality Assured product is completed to programme.



# A total precast solution designed to advance mainslab laying

Buchan Dock Leveller Pits are designed specifically to reduce construction time.

Casting tolerances and tight programme requirements can be easily accommodated as the precast system allows the dock levellers and main floor slabs to be installed and laid more quickly.

All dock leveller pits are designed in-house to BS8110 and are suited to all major dock leveller suppliers:

- Total solution from design to installation
- Precision controlled manufacture ensures quality controlled tolerances
- Tailgate and non-tailgate options.



## INFIL KIT SYSTEM

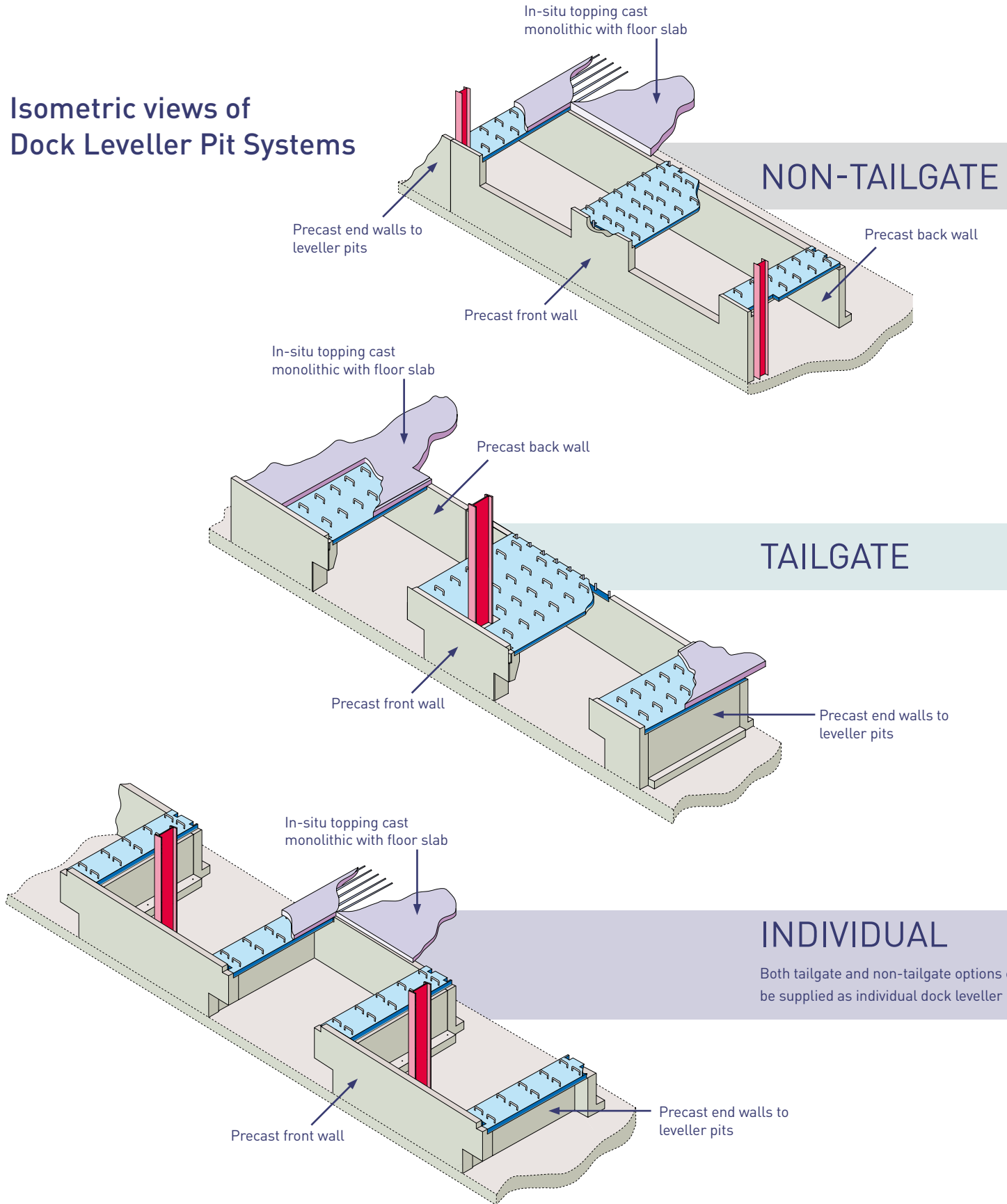
The Dock Leveller Infil Kit System is available for future change of use of premises.

Future expansion of loading facilities made simple and cost effective

- Front T walls
- Intermediate biscuit slabs.



# Isometric views of Dock Leveller Pit Systems



## INDIVIDUAL

Both tailgate and non-tailgate options can be supplied as individual dock leveller pits.



# The fast track precast panel system for rapid construction without compromise

Quickwall® saves time and construction costs.

The award-winning walling system can be installed safely and faster than traditional construction methods.

Designed and produced from Grade 50 reinforced concrete, Quickwall eliminates the need for a separate steel head restraint and ground beam.

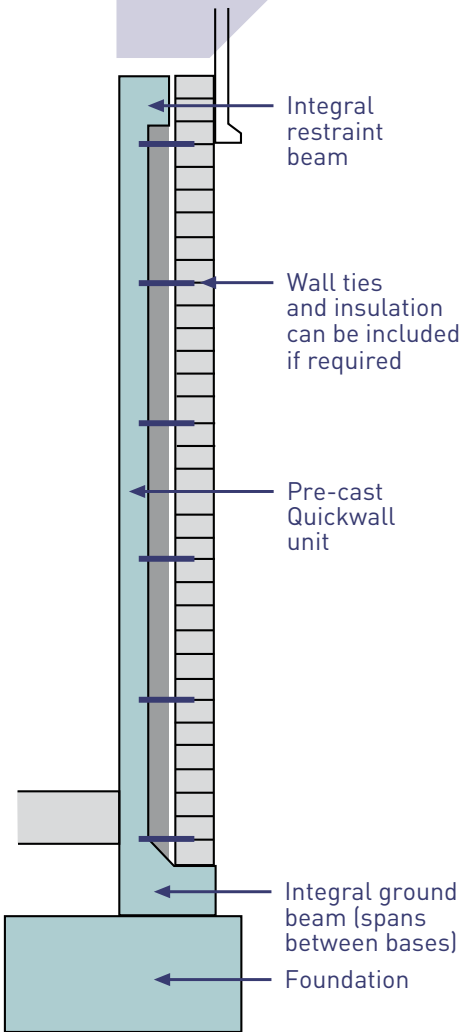
Each wall panel is a direct replacement for the inner blockwork skin of traditional construction.

The integral ground beam enables panels to span between foundation bases to speed up erection programmes:

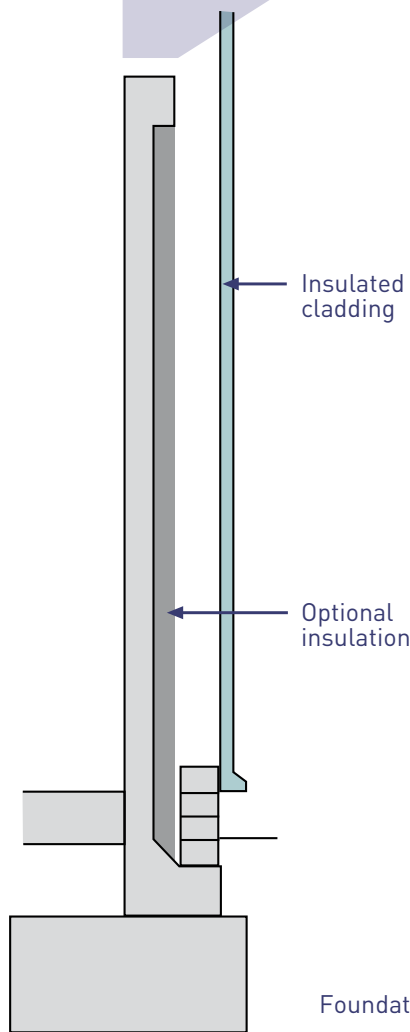
- Fully engineered product; quality controlled manufacture
- Unaffected by adverse weather
- Qualified on-site installers
- Integral insulation can be included
- Variety of external finishes available
- LANTAC (Local Authority National Type Approval Certificate) approved
- Up to one hour fire resistance (when used as an internal compartment wall).



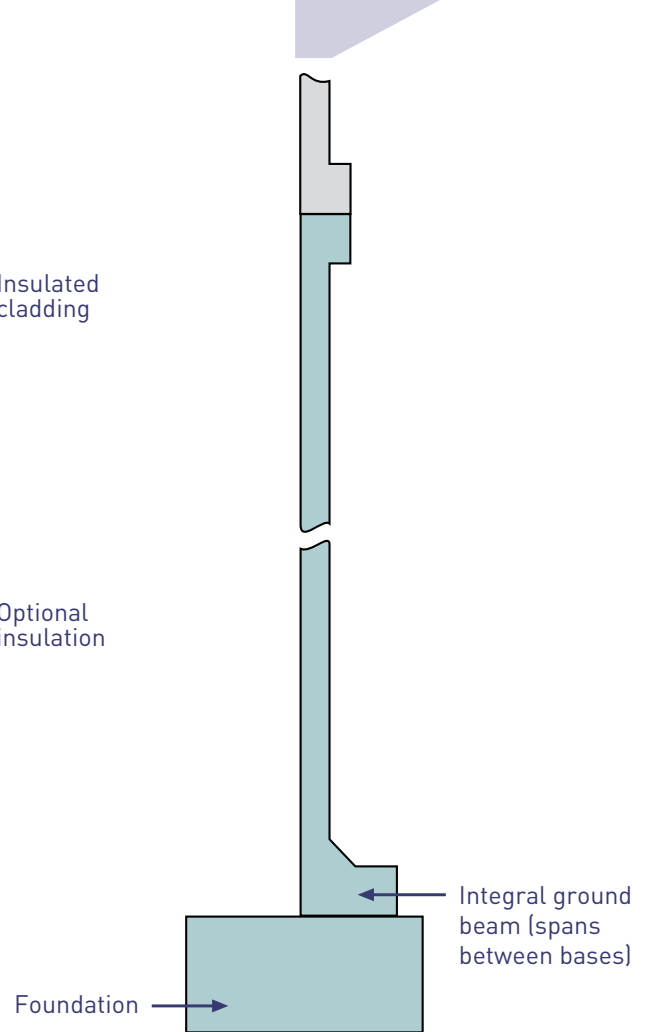
### DADO HEIGHT BRICKWORK SECTION



### FULL HEIGHT CLADDING SECTION



### MULTI HEIGHT PANELS



## QUICKWALL® SPECIAL

Developed generally for low-rise, multi-storey buildings, our engineers can design a Quickwall system to suit most applications.

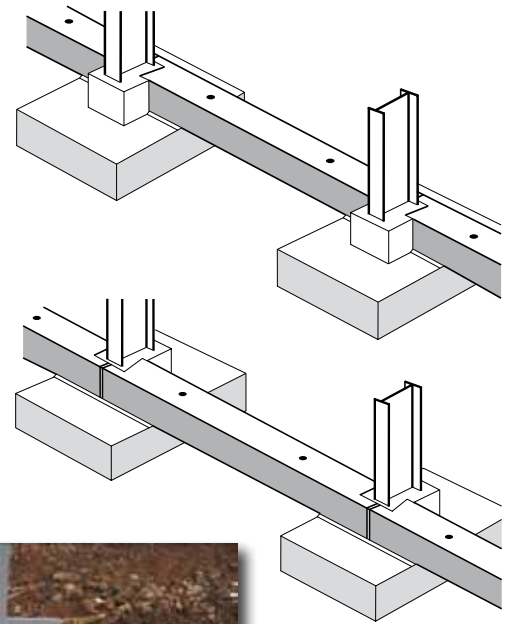


## QUICKSPAN GROUND BEAMS

### Fast spanning of foundation bases

Manufactured to the same demanding standards as Quickwall and Dock Leveller Pits.

Buchan provides ground beams in lengths to span between bases with a variety of end joint details. They can be designed to support brick or blockwork or form a permanent shutter to the edge of an in-situ concrete floor slab.



## PROWALL

### Rapid on-site erection

Prowall, walling system is designed in reinforced precast concrete and fully insulated to meet current regulations.

The panels span between, either single or double dock pits which not only ensure a rapid on-site erection programme, eliminating the requirement for the more traditional areas of cladding and steel posts/rails. The panels will provide support for door tracks internally and dock shelters externally if required. Prowall panels are available with a standard steel mould finish externally and a power float finish internally.



## FIREWALL

### Higher fire rating

Firewall is a solid reinforced concrete panel that can be designed to give a fire rating up to four hours.

Normally used as a partition wall between office and warehouse.

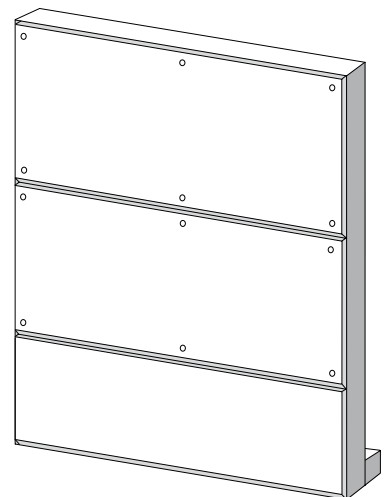


## RETAINING WALLS AND PERIMETER WALLS

### Quick and accurate all weather completion

To ensure a total package solution for customers, the range of precast concrete systems includes retaining and screen walls.

Both are produced to the same exacting tolerances as the other systems in the range. Speed of installation and non-weather dependent construction is guaranteed.



## MINI PILED PRECAST RETAINING WALL

Fully engineered retaining wall with no toe or heel, suited to restricted access and limited build area.

This is a full design, manufacture and build package with piling from parent company Roger Bullivant Ltd.



## SERVICE YARD WALLS

Service yard retaining wall is a bespoke, free standing precast cantilever wall, that will be detailed to suit any ramp profile.

The wall will be bedded by our own erection team, onto a blinding formation that has been prepared by the main contractor.



## PROJECT EXPERIENCE



### G.PARK BLUE PLANET Chatterley Valley

Blue Planet - one of the world's greenest logistic facilities for Gazley UK, built at Chatterley Valley, Newcastle under Lyme, North Staffordshire. The client required a truly 'Carbon Positive', BREEAM outstanding rated development to be used as a blueprint for their future commercial property developments across the world. By involving Buchan and calling upon their vast experience in precast concrete manufacture, the client was able to achieve the ultra green sustainability credentials required on the scheme.

### NEW BRIGHTON WATER FRONT REGENERATION New Brighton

New Brighton is undergoing a major redevelopment, with phase one focusing on the regeneration of the seafront. Buchan manufactured high quality architectural precast retaining walls, staircases and seating furniture, incorporating both straight and tapered top edges to the walls, non-slip grooves in the stairs and moulded handrails cast into the walls. The walls were designed to withstand the extreme weather and high saline conditions on the coast using a tongue and groove edge detail with an 'Aquastrap' in the joints to provide a total waterproof connection.



### DISTRIBUTION CENTRE FOR HELIOSLOUGH Wynard, Stockton on Tees.

The client required the shortest possible construction period whilst not compromising on quality. Tolent Construction involved Buchan at a very early stage in the project design calling upon our precast expertise to provide a cost effective solution. Buchan were able to provide a high quality precast concrete dock pit and dock leveller system that vastly reduced the overall programme time whilst overcoming the difficulties associated with in-situ concrete and more traditional methods of construction.

# Our sectors



## Taking the initiative

With the combined expertise of Roger Bullivant Limited and Buchan Concrete Solutions Limited we can offer the 'total solution', from substructure including piling, ground beams, SystemFirst foundations and geothermal through to the superstructure consisting of crosswalls, portal frames, columns, beams and a variety of flooring options.

Whether it be a project for Industrial, Commercial or Retail, we are confident we have the right cost effective solution.

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