JP Concrete

DESIGN | SUPPLY | INSTALL

BOLT DOWN
RETAINING WALLS

www.jpconcrete.co.uk

Expert advice

Our product specialists will advise on the most cost-effective precast solution for your project.

Quality Assured

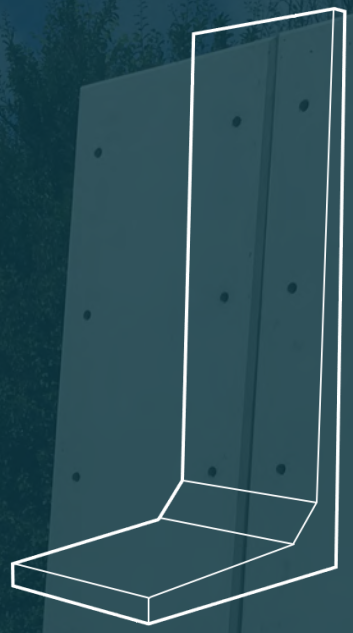
We are proud to hold ISO: 9001, 14001 & 18001 Constructionline Silver Membership & SSIP

Precast solutions

Our skilled teams of engineers, groundworkers & precast installers cover the entire project life-cycle.

BOLT DOWN **RETAINING WALLS**

Concrete bolt down retaining wall units are a versatile product which can be used to store and retain a wide variety of materials.



- Retaining Wall Heights 1.0m to 3.75m
- 90 & 45 Degree Corner Units
- 10kN/m^2 Surcharge Capacity
- C50 Concrete Mix Strength
- Installation Service Available

Features

Corner units are available in 90° & 45° for all heights, enabling you to construct bays with ease.

Mastic application, or other sealing systems, can be applied to joints to make bolt down retaining wall units suitable for storing liquids.

Wall units are manufactured under factory controlled conditions, designed to relevant British & Eurocode standards and are CE marked.

The L-shape retaining wall units are suitable for a wide range of applications including:

– Storage Bays
– Earth Retention
– Aggregate Bays
– Salt Barns
– Waste & Recyling
– Flood Defence
– Bund Walling

We provide a full design, construction & installation service for all of our products, enabling us to offer turnkey solutions. Call the team today to discuss your project. 01158 220 282

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PRODUCT **SPECIFICATIONS**

Below is a table outlining the characteristics of the concrete bolt down retaining wall.

Here you can find information on concrete strength, material density and surcharge capacity.

Wall units are manufactured under factory control, have been designed to relevant British (BS) & Eurocode (EN) standards and are CE marked.

If you require any further details please contact us and one of our product experts will be happy to provide more information.

Concrete Strength C50	**Material Density** 18	**Surcharge Capacity** 10	**Design Life** 50
Compressive strength of concrete after 28 days of curing.	Maximum material density of retained material, measured in kN/m^3	Maximum surcharge capacity of precast element, measured in kN/m^2	Number of years precast element has been designed for.
Connection	**Edge Detail**	**Concrete Finish** A	**Fire Resistance** N/A
Precast elements have flat sides & do not interlock.	Square edges enable close alignment & reduced movement joints between units.	Smooth mould finish Type A to precast element, defined in British Standards	Number of minutes precast element would provide fire resistance.
Reinforcement Cover 30	**Tolerances** 6	**Foundation Type** RC	**Retained Face** DL
Minimum cover to steel reinforcement in precast element, measured in mm.	Typical manufacturing tolerances & dimensional variations +/- in mm.	A reinforced concrete (RC) foundation is required for installation.	Double Load - Precast element is suitable for retaining material on both faces

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PRODUCT **RANGE**

In addition to the standard units shown below, 90° & 45° corner units are also available for all heights, enabling you to construct storage bays with ease.

Installation of the precast units is quick and easy. The elements are drilled and fixed to a reinforced concrete foundation or concrete floor slab, using a resin anchor system. Once the units are secured to the foundation, no additional fixing is required, making them the ideal solution when you have no existing steelwork to fix to.

1m

Height	**1000mm**
Length	**1000mm**
Width	**500mm**
Weight	**394kg**

1.5m

Height	**1500mm**
Length	**1000mm**
Width	**750mm**
Weigth	**631kg**

1.75m

Height	**1750mm**
Length	**1000mm**
Width	**875mm**
Weigth	**761kg**

2m

Height	**2000mm**
Length	**1000mm**
Width	**1000mm**
Weigth	**890kg**

2.5m

Height	**2500mm**
Length	**1000mm**
Width	**1250mm**
Weigth	**1310kg**

3m

Height	**3000mm**
Length	**1000mm**
Width	**1500mm**
Weigth	**1740kg**

3.75m

Height	**3750mm**
Length	**1000mm**
Width	**1875mm**
Weigth	**2596kg**

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