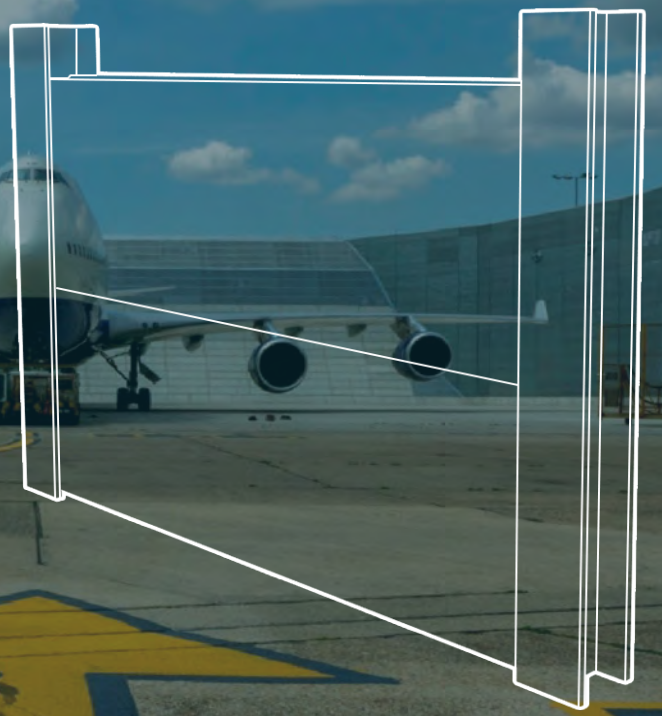
JP Concrete

DESIGN | SUPPLY | INSTALL

PRESTRESSED
CONCRETE PANELS



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Expert advice

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

Quality Assured

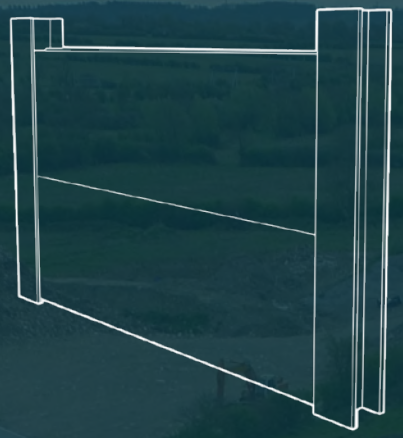
We are proud to hold ISO: 9001, 14001 & 18001 Constructionline Silver Membership & SSIP

Precast solutions

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

PRESTRESSED **CONCRETE PANELS**

Prestressed Concrete Panels are a versatile product which can be used to store wide variety of materials.



- Panel Thicknesses 100mm to 280mm
- Custom Lengths up to 7m
- 20kN/m2 Surcharge Capacity
- C60 Concrete Mix Strength
- Installation Service Available

Features

Corner angles can be supplied to create bays of any height with ease.

Horizontal and vertical joints between the precast elements can be sealed, enabling these products to be used for the storage of liquids.

Wall units are manufactured under factory-controlled conditions, designed to relevant British Standards and are CE marked.

The prestressed concrete panels are suitable for a wide range of applications including:

- Fire & Blast Walls
- Flood Defence Walls
- Grain Walling
- Storage Bays
- Dairy & Livestock Buildings
- Silage Clamps
- 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 prestressed concrete panels.

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) 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 C60	**Material Density** 18	**Surcharge Capacity** 20*	**Design Life** 100*
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** 180*
Precast elements interlock with tongue and groove edges.	Chamfered edges create softer sight lines & reduce damage during installation	Smooth mould finish Type A to precast element, defined in British Standards	Number of minutes precast element would provide fire resistance.
Reinforcement Cover 25	**Tolerances** 6	**Foundation Type** N/A	**Retained Face** DL
Minimum cover to steel reinforcement in precast element, measured in mm.	Typical manufacturing tolerances & dimensional variations +/- in mm.	Panels fixed to steel columns, no additional foundation required.	Double Load - Precast element is suitable for retaining material on both faces

* These are the maximum values that can be achieved with concrete panels, this will vary depending on the panel thickness & panel length. Concrete panel finish is class A to the front face and hand trowel finish to the back face.

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PRODUCT **RANGE**

There are four standard width options and three height options. Non-standard heights can be manufactured from 500mm to 1500mm.

Installation of the concrete panels is quick and easy, the elements can either be positioned into the web of a steel column, or clipped to the outside face. The panels require a steel at each end to attach to, so ideal for using in portal frame building. The panels sit directly on top of the pad foundations and no additional support is required under the panels.

100mm

Width	**100mm**
Length	**1000mm – 6500mm**
Height	**1000mm, 1200mm & 1500mm**
Weight	**Varies**

150mm

Width	**150mm**
Length	**1000mm – 7000mm**
Height	**1000mm, 1200mm & 1500mm**
Weight	**Varies**

180mm

Width	**180mm**
Length	**1000mm – 7000mm**
Height	**1000mm, 1200mm & 1500mm**
Weight	**Varies**

280mm

Width	**280mm**
Length	**1000mm – 7000mm**
Height	**1000mm, 1200mm & 1500mm**
Weight	**Varies**

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