VERTICAL CANTILEVER RETAINING WALL PANELS

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.
Vertical prestressed concrete panels are a versatile product which can be used to store a wide variety of materials.

- Panel Thicknesses 150mm to 280mm
- Custom Heights up to 6.5m
- 20kN/m² Surcharge Capacity
- C60 Concrete Mix Strength
- Installation Service Available

Features
- Prestressed panels are manufactured to order, enabling panel heights to be cast to suit site requirements.
- 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 vertical prestressed panels are suitable for a wide range of applications including:

- Fire & Blast Walls
- Flood Defence Walls
- Grain Walling
- Storage Bays
- Silage Clamps
- Slurry Stores
- 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
Below is a table outlining the characteristics of the prestressed concrete panels. 

<table>
<thead>
<tr>
<th>Concrete Strength</th>
<th>Material Density</th>
<th>Surcharge Capacity</th>
<th>Design Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>C60</td>
<td>18</td>
<td>20*</td>
<td>100*</td>
</tr>
</tbody>
</table>

Compressive strength of concrete after 28 days of curing.

Maximum material density of retained material, measured in kN/m³

Maximum surcharge capacity of precast element, measured in kN/m²

Number of years precast element has been designed for.

Connection Edge Detail Concrete Finish Fire Resistance

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 Tolerances Foundation Type Retained Face

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

<table>
<thead>
<tr>
<th>25</th>
<th>6</th>
<th>N/A</th>
<th>DL</th>
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* 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.

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.

www.jpconcrete.co.uk | info@jpconcrete.co.uk | +44 (0)1158 220 282
PRODUCT RANGE

When installing prestressed concrete panels vertically, they are placed onto cradles and temporary propped. Reinforcement bars are inserted through precast holes in the bottom of the panel, which are then tied to the foundation reinforcement. Once the concrete has been poured and is of sufficient strength to support the panel, the props can be removed.

There are three standard width options and three length options; heights can be manufactured from 1500mm to 6500mm.

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<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Height</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>150mm</td>
<td>1000mm, 1200mm &amp; 1500mm</td>
<td>1500mm - 6500mm</td>
<td>Varies</td>
</tr>
<tr>
<td>180mm</td>
<td>1000mm, 1200mm &amp; 1500mm</td>
<td>1500mm - 6500mm</td>
<td>Varies</td>
</tr>
<tr>
<td>280mm</td>
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Get a FREE quotation or advice
Call 01158 220 282 or email: info@jpconcrete.co.uk

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