WHAT IS GEoplast?

Geoplast is an innovative modular plastic formwork system for concrete construction. The Geoplast system offers the following benefits to formwork contractors:

- **LIGHT WEIGHT**
  All components are easily handled quickly by one person without cranes and lifting devices.

- **FAST**
  Modular, tool free assembly allows incredibly fast set up.

- **EASY**
  Geoplast components can be assembled by unskilled labour reducing the need for skilled carpenters.

- **VERSATILE**
  The modular components from each system fit together to suit every size and type of project with minimum outlay.

- **NO RELEASE AGENT**
  The smooth ABS surface produces a high class finish with no need for form release agents and oils.

- **FAST STRIPPING**
  Components are disassembled quickly and the system can be moved in sections allowing even faster set up on repetitive projects.

- **LONG LIFE**
  Geoplast panels can be reused up to 100 times.

- **COMPACT**
  All components are easily packed onto pallets for efficient transport and storage.

- **NO WASTE**
  100% reusable components reduces site waste and disposal costs.

- **RECYCLABLE**
  Geoplast ABS panels are full recyclable at the end of their life.

- **WATER & CHEMICAL RESISTANT**
  ABS plastic is water and chemical resistant allowing use in marine environments.

- **EASY TO CLEAN**
  All components are non-stick and can be easily cleaned with a pressure washer.

- **ECO FRIENDLY**
  Geoplast is an eco-friendly alternative to timber and cardboard.

- **SAFE**
  Lightweight and plastic components reduce onsite risks from lifting, cutting and fatigue.
WHY ABS PLASTIC?

The Geoplast panels are manufactured from Acrylonitrile Butadiene Styrene (ABS) which is a high class techno polymer plastic. ABS plastic has the following advantages for formwork:

- High Mechanical Strength
- Shock Resistance
- Thermal Stability (-30° - +70°)
- Very high surface quality
- Recyclable

THE HANDLE

The Red Geoplast Handle is a core component of the system and is used to fix panels to each other. The handle is engineered from Fibre Reinforced Plastic for incredible strength and durability.

- Strong – each handle can resist up to 1400 kg of force
- Light Weight – only 100 grams
- Firmly Locks with a simple 90 degree turn.
- No tools required.
Geopanel Star is an adjustable formwork for square and rectangular columns. The Geopanel Star system can be used to form columns from 200 – 1000mm wide in 105 different size combinations. The high strength of the Geopanel Star system allows fast pour rates for efficient concrete placement.

**VERSATILE ADJUSTMENT**

Each Geopanel Star panel may be adjusted in up to five 100mm increments. This allows each panel to produce up to 5 different sized column widths. **This allows a smaller system kit to cover a larger range of projects.**

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**REDUCE CRANE WORKLOAD**

With crane time being the most scarce and costly resource on construction projects, prudent contractors are looking for ways to reduce mechanical lifting. With no components weighing over 11 Kg, Geoplast components are easy and safe to manual handle and will dramatically reduce reliance on cranes on busy construction sites.

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**GEOPANEL STAR**

**GEOPANEL STAR 20-60**

- Height: 605mm
- Width Range (MM): 200, 300, 400, 500, 600
- Weight (KG): 6.4

**GEOPANEL STAR 25-65**

- Height: 605mm
- Width Range (MM): 250, 350, 450, 550, 650
- Weight (KG): 6.8

**GEOPANEL STAR 70-100**

- Height: 605mm
- Width Range (MM): 700, 800, 900, 1000
- Weight (KG): 9.6
## Geopanel Star Applications

- Columns
- Pile Caps
- Foundations

## Geopanel Star Technical

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh Concrete Pressure</td>
<td>Up to 80 kN/m²</td>
</tr>
<tr>
<td>Max Weight</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>Flowing S5 &gt; 220mm Slump</td>
<td>3.75m</td>
</tr>
<tr>
<td>Soft S4 160 – 210mm Slump</td>
<td>4.5m</td>
</tr>
<tr>
<td>Plastic S3 100 – 150mm Slump</td>
<td>6.25m</td>
</tr>
</tbody>
</table>
Geotub Panel is a modular formwork system for cost effective forming of square and rectangle columns. Geotub Panel components are supplied in a fixed width and are ideal for repetitive columns on large projects. All Geotub panels are 750mm high. Geotub Panel columns over 400mm wide require tie rod bracing.

### BUILT IN CHAMFER

Geotub Panel components are supplied in a fixed width and feature a built in chamfer which eliminates the need for fillet moulds.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH (MM)</th>
<th>WEIGHT</th>
<th>HANDLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOTUB PANEL 20</td>
<td>200</td>
<td>3.25</td>
<td>6</td>
</tr>
<tr>
<td>GEOTUB PANEL 23</td>
<td>230</td>
<td>3.63</td>
<td>7</td>
</tr>
<tr>
<td>GEOTUB PANEL 25</td>
<td>250</td>
<td>3.67</td>
<td>7</td>
</tr>
<tr>
<td>GEOTUB PANEL 30</td>
<td>300</td>
<td>3.97</td>
<td>8</td>
</tr>
<tr>
<td>GEOTUB PANEL 35</td>
<td>350</td>
<td>4.84</td>
<td>8</td>
</tr>
<tr>
<td>GEOTUB PANEL 40</td>
<td>400</td>
<td>5.32</td>
<td>8</td>
</tr>
<tr>
<td>GEOTUB PANEL 45</td>
<td>450</td>
<td>6.09</td>
<td>8</td>
</tr>
<tr>
<td>GEOTUB PANEL 50</td>
<td>500</td>
<td>6.56</td>
<td>9</td>
</tr>
<tr>
<td>GEOTUB PANEL 55</td>
<td>550</td>
<td>7.14</td>
<td>9</td>
</tr>
<tr>
<td>GEOTUB PANEL 60</td>
<td>600</td>
<td>7.49</td>
<td>9</td>
</tr>
</tbody>
</table>
**APPLICATIONS**

**GEOTUB PANEL**

Fresh Concrete Pressure  Up to 60 kN/m²
Max Weight  8 Kg
Coefficient of thermal expansion  0.05 mm/m/°C

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<td>4m</td>
</tr>
<tr>
<td>Stiff S2 50 - 90mm Slump</td>
<td>8m</td>
</tr>
</tbody>
</table>

**TECHNICAL**

**GEOTUB PANEL**
MODULAR FORMWORK FOR ROUND AND OVAL COLUMNS

Geotub Round is a world first and only technopolymer formwork system for simple construction of round and oval concrete columns.

Geotub Round sections are extremely light and reusable more than 100 times. Geotub Round column sizes range from 250mm to 1000mm diameter and each section is 605mm high.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COLUMN DIAMETER (MM)</th>
<th>WEIGHT / PIECE (KG)</th>
<th>HANDLES / PIECE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOTUB 25</td>
<td>250</td>
<td>2.69</td>
<td>6</td>
</tr>
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<td>300</td>
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<td>6</td>
</tr>
<tr>
<td>GEOTUB 35</td>
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<td>4.28</td>
<td>7</td>
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<tr>
<td>GEOTUB 40</td>
<td>400</td>
<td>4.78</td>
<td>7</td>
</tr>
<tr>
<td>GEOTUB 45</td>
<td>450</td>
<td>5.22</td>
<td>8</td>
</tr>
<tr>
<td>GEOTUB 50</td>
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<td>9</td>
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<td>GEOTUB 70</td>
<td>700</td>
<td>8.21</td>
<td>10</td>
</tr>
<tr>
<td>GEOTUB 80</td>
<td>800</td>
<td>8.97</td>
<td>10</td>
</tr>
<tr>
<td>GEOTUB 90</td>
<td>900</td>
<td>9.80</td>
<td>11</td>
</tr>
<tr>
<td>GEOTUB 100</td>
<td>1000</td>
<td>10.70</td>
<td>11</td>
</tr>
</tbody>
</table>
APPLICATIONS

✅ Structural Columns
✅ Bollards
✅ Encapsulating Steel Columns
✅ Marine
✅ Renovating Old Columns

✅ Oval Columns
✅ Precast Round Columns
✅ Oval columns can be formed for carparks by combining Geotub Round with Geopanel sections.

GEOTUB ROUND TECHNICAL

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<td>Max Pour Heights (Single Pour)</td>
<td></td>
</tr>
<tr>
<td>250 - 400mm</td>
<td>6m</td>
</tr>
<tr>
<td>450 - 600mm</td>
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REUSABLE AND MODULAR FORMWORK SYSTEM FOR WALLS

Geopanel Wall is an advanced technopolymer formwork system for forming concreting walls, plinths, pits and other structural elements.

The primary Geopanel Wall component is a 1210 x 605 panel. A range of smaller panels, closures and corner sections are used to create complex forms to suit every project. Geopanel Wall can be used to form concrete walls of any thickness and height.

OTHER SYSTEMS

Geopanel Wall is full compatible with Geopanel Star and Geotub Round which can be used together to create complex structures with integrated round and column elements.
GEOPANEL WALL APPLICATIONS

- Pits
- Bunds
- Structural Walls
- Lift Overruns
- Foundations
- Pile Capping Beams
- Pools
- Shear Walls
- Large Columns
- Retaining Walls
PLAST ACCESSORIES

HANDLE
Universal Handle for fixing panels together.

CAPS
Replacement caps for tie bar holes and adjustment holes in Geopanel Star.

HOLD DOWN PLATE
Plate bracket for temporary fixing of formwork to the substrate.

LIFTING HOOK
Heavy duty lifting hook for crane lifting of large pre-assembled sections.

BRACE CONNECTOR
Bracing connector which clips onto the Geoplast panel and fits all types of props.

CONNECTOR PLATE
Bracing connector which is attached to the formwork using a tie rod and anchor nut.

SPACERS
Plastic tie rod sleeves manufactured in set lengths for easy installation.

TIE RODS
Universal ZBar tie rod for bracing large column and wall forms.

ANCHOR NUTS
Heavy duty tie rod nut with a built in fibre reinforced plastic flange plate.

ALIGNMENT BARS
Lightweight metal bar system for aligning and bracing panels in wall and large column forms.

CLOSURE PANELS
Geopanel element for closing wall and shear wall forms.

CORNER PANELS
Corner panels for the Geopanel Wall system.
ALLCON IS A SPECIALIST SUPPLIER TO THE CONCRETE CONSTRUCTION INDUSTRY IN AUSTRALIA

HOW ALLCON CAN SAVE YOUR TIME

• Extensive Product Knowledge – our team has many years of experience, and provides correct advice
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• Fast Response Time – get information and pricing when you need it
• Excellent Delivery Service – your supplies delivered where and when you need them

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