TPS Steel Panel Formwork
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Elementary Safety Warnings

- TPS Formwork panels products and systems must be set up in the correct manor to ensure all loads are transferred as per intended use.

- The stability of all components and assemblies must be ensured during all phases of the construction work.

- Provide safe access for those using the formwork.

- Do not exceed the permitted fresh-concrete pressures. Excessively high pouring rates lead to formwork overload, cause greater deflection and risk causing breakage.

- Do not strike the formwork until the concrete has reached sufficient strength and have been given the order for the formwork to be struck.

- When stripping the gang-form, never use the crane to break concrete cohesion. Use suitable tools such as timber wedges or a special pry-bar.

- When striking the formwork, do not endanger the stability of any part of the structure, or of any scaffolding, platforms or formwork that is still in place.

- Observe all regulations applying to the handling of formwork and scaffolding.

- Remove any loose parts or secure them in place.

- All components must be stored safely.
Conception and Properties of the TPS - System

- The formwork system with only one formwork clamp, TPS Formwork Clamp.
- Universally deployable and multi-functional panel formwork for concrete walls.
- 3 system heights (1.20m, 2.70m and 3.30m) and 12 different element widths.
- Clearly defined grid plan for any wall length.
- Extremely durable for full speed concreting vibration resistant and aligned at connection points with the Formwork Clamp.
- Used with fewer spare parts for quick and easy working, with minimum storage needed.
- Developed, produced and tested according to European guidelines.

1) Rapid Formwork Clamp – Art Nr TPSA0001
2) Rapid Formwork Clamp Long – Art Nr TPSA0002
3) Scaffold Bracket TPS 80, available in three sizes – Art Nr. TPSA0005
4) Compensation Waler TPS 85- Art Nr TPSA004
5) Tie Rod, available in all lengths
6) Wing Nut Plate DW 15
7) Push Pull Props
8) Base Plate TPS
9) Brace Connector - Art Nr SC0005
10) Stop End Tie TPS
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Showcase Presentation of TPS - Element Combinations

- Guaranteed the largest possible range of sizes with the least possible amount of panels.
- Reduced storage space on building sites.
- Increased amount of castings per element, held on the construction site.
- Reduced costs for through varied combinations for every ground plan.
- Stockpiling of horizontal lying panels viable.
- Stepped or slanted panels at different heights, offset walls, length adjustments and corner solutions are possible.

Robust and solid

The Formwork element frame consist of a closed steel profile, hollow on the inside and an 18mm layered sheet composed of Birch veneer.

Easy to handle

Due to the marginal amount of single components used, the search time has been reduced, interim storage simplified and the waiting time on the building site reduced to a minimum.

TPS - Panels

The TPS System

- Consist of 12 element widths.
- Elements are galvanized for the best possible corrosion protection.
- Only one formwork clamp.
- Stability: up to 80kN pressure absorption.
- Plywood: resin coated Birch, 220g.
- Quick assembly through a few single components.
- Longevity.

Services

- Buyback options
- Financing
- Application technique
- Logistics

The steel panel frames have a profile height of 120 cm and a width of 60 mm, standard and corner panels respectively with 20 mm. The formwork clamp RFC is fitted onto the variable corrugation without any disturbances. The guard cover at panel top-ends, protect the plywood against damages.

The 18 mm film coated plywood consisting of Birch veneer is made to meet high demands. Bonded and glued crosswise according to BFU 100 with a Phenol resin 220g/m² coating.

Panel frames available in 3 heights and 12 widths.

Associated systems parts such as the Push-Pull Props, Wallers, Scaffold Brackets can be fastened to the integrated track. Corners are stiffened with steel plate.
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## TPS - Panels 330 heights

<table>
<thead>
<tr>
<th>Panel 330</th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>240 cm</td>
<td>400 kg</td>
<td>3001</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>120 cm</td>
<td>195 kg</td>
<td>3002</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>90 cm</td>
<td>142 kg</td>
<td>3003</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>72 cm</td>
<td>120 kg</td>
<td>3004</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>60 cm</td>
<td>107 kg</td>
<td>3005</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>330 cm</td>
<td>30 cm</td>
<td>72 kg</td>
<td>3006</td>
</tr>
</tbody>
</table>
TPS - Panels 270 heights

### Panel 270

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>240 cm</td>
<td>331 kg</td>
<td>2001</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>120 cm</td>
<td>163 kg</td>
<td>2002</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>90 cm</td>
<td>118.5 kg</td>
<td>2003</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>72 cm</td>
<td>100 kg</td>
<td>2004</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>60 cm</td>
<td>89.5 kg</td>
<td>2005</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>270 cm</td>
<td>30 cm</td>
<td>60 kg</td>
<td>2006</td>
</tr>
</tbody>
</table>

2700/1200

2700/600

2700/300

Stateside Forming
# TPS - Panels 120 heights

<table>
<thead>
<tr>
<th>Panel 120</th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>240 cm</td>
<td>164 kg</td>
<td>1001</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>120 cm</td>
<td>73.5 kg</td>
<td>1002</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>90 cm</td>
<td>60 kg</td>
<td>1003</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>72 cm</td>
<td>49.5 kg</td>
<td>1004</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>60 cm</td>
<td>44 kg</td>
<td>1005</td>
</tr>
<tr>
<td>TPS-Panel</td>
<td>120 cm</td>
<td>30 cm</td>
<td>28.5 kg</td>
<td>1006</td>
</tr>
</tbody>
</table>
Corner Panels

Inner corner panel 90°
- For the shuttering of right-angled corners, from the inside.

<table>
<thead>
<tr>
<th>Height</th>
<th>Width/ side</th>
<th>Weight powder coated</th>
<th>Article powder coated</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS- Inner Corner 330</td>
<td>330 cm</td>
<td>30 cm</td>
<td>93.4 kg</td>
</tr>
<tr>
<td>TPS- Inner Corner 270</td>
<td>270 cm</td>
<td>30 cm</td>
<td>78.5 kg</td>
</tr>
<tr>
<td>TPS- Inner Corner 120</td>
<td>120 cm</td>
<td>30 cm</td>
<td>34 kg</td>
</tr>
</tbody>
</table>

Articulated corner
- For the use of variable walls angles.
- Side lengths respectively 30 cm.

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS- Articulated Corner 330</td>
<td>330 cm</td>
<td>30 cm</td>
<td>124 kg</td>
</tr>
<tr>
<td>TPS- Articulated Corner 270</td>
<td>270 cm</td>
<td>30 cm</td>
<td>81 kg</td>
</tr>
<tr>
<td>TPS- Articulated Corner 120</td>
<td>120 cm</td>
<td>30 cm</td>
<td>45.6 kg</td>
</tr>
</tbody>
</table>

Stripping corner
- Used for shaft shuttering.
- 3 cm tolerance per side enables precise setting-up and easy solutions.

<table>
<thead>
<tr>
<th>Height</th>
<th>Width/ side</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS- Stripping Corner 330</td>
<td>330 cm</td>
<td>30 cm</td>
<td>140 kg</td>
</tr>
<tr>
<td>TPS- Stripping Corner 270</td>
<td>270 cm</td>
<td>30 cm</td>
<td>120 kg</td>
</tr>
<tr>
<td>TPS- Stripping Corner 120</td>
<td>120 cm</td>
<td>30 cm</td>
<td>72.5 kg</td>
</tr>
</tbody>
</table>
Economic Design

- Column shuttering
- Outer corners
- Stop end shuttering
- Wall joinings

### Universal Panel galvanized

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Width</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS-Universal Panel</td>
<td>330 cm</td>
<td>72 cm</td>
<td>138 kg</td>
<td>3007</td>
</tr>
<tr>
<td>TPS-Universal Panel</td>
<td>270 cm</td>
<td>72 cm</td>
<td>107.5 kg</td>
<td>2007</td>
</tr>
<tr>
<td>TPS-Universal Panel</td>
<td>120 cm</td>
<td>72 cm</td>
<td>72.5 kg</td>
<td>1007</td>
</tr>
</tbody>
</table>

A Universal Panel with pre-drilled holes and a 3-hole grid at anchor level, can be delivered in every height.
TPS - Accessories

Wall Thickness Compensation

- Is used to adjust the wall thickness in 5 cm, 6 cm and 10 cm.

<table>
<thead>
<tr>
<th>Height</th>
<th>Width/side</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make Up 330/5 steel</td>
<td>330 cm</td>
<td>5 cm</td>
<td>20.1 kg</td>
</tr>
<tr>
<td>Make U P 330/6 steel</td>
<td>330 cm</td>
<td>6 cm</td>
<td>21.4 kg</td>
</tr>
<tr>
<td>Make Up 330/10 ALU</td>
<td>330 cm</td>
<td>10 cm</td>
<td>12.7 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>Width/side</th>
<th>Weight coated</th>
<th>Article coated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make Up 270/5 steel</td>
<td>270 cm</td>
<td>5 cm</td>
<td>16.2 kg</td>
</tr>
<tr>
<td>Make Up 270/6 steel</td>
<td>270 cm</td>
<td>6 cm</td>
<td>17.2 kg</td>
</tr>
<tr>
<td>Make Up 270/10 ALU</td>
<td>270 cm</td>
<td>10 cm</td>
<td>12.7 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height</th>
<th>Width/side</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make Up 120/5 steel</td>
<td>120 cm</td>
<td>5 cm</td>
<td>7.61 kg</td>
</tr>
<tr>
<td>Make Up 120/6 steel</td>
<td>120 cm</td>
<td>6 cm</td>
<td>8.09 kg</td>
</tr>
<tr>
<td>Make Up 120/10 ALU</td>
<td>120 cm</td>
<td>10 cm</td>
<td>5.9 kg</td>
</tr>
</tbody>
</table>
Rapid Formwork Clamp
Art. no.: TPSA0001
• Straightens and draws all panels together.
• Secured and aligned.
• Galvanized.
• Only one formwork clamp for all panels compensating up to 12 cm.

Rapid Formwork Clamp Long
Art. no.: TPSA0002
• Straightens and draws all panels together.
• Secured and aligned.
• Galvanized.
• Only one formwork clamp for all panels compensating up to 26 cm.

Compensation Waler TPS 85
Art. no.: TPSA0004
• Universally operational waler made of high-quality steel.
• Bridges length adjustments.
• Increases rigidity in the inter-panel connection.
• Transfers anchor strength.
• The walers are fastened onto the integrated track on the panels. The necessary anchor holes for this, are integrated in grid-like manner on the panels.
**Lifting Hook 1.5t**
Art. no.: TPSA0006

- To transport the vertically hanging panels.
- Certificated carrying load: 1.5t.
- Top quality powder coating.

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**Scaffolding Bracket, TPS 80**
Art. no.: TPSA0005

- For the assembly of a secure 80 working platform.
- Simply fasten to the vertical or horizontal panel.
- High quality powder coating, on request available in galvanized.

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**Push-Pull Props**

- Erection aid.
- Allows for the simple adjustment of wall and column formwork.
- Absorbs wind force.

<table>
<thead>
<tr>
<th>Extension Range</th>
<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPS I 2.05 bis/2.95 m</td>
<td>18 kg</td>
<td>A0011</td>
</tr>
<tr>
<td>PPS II 2.91 bis/3.80 m</td>
<td>22.1 kg</td>
<td>A0012</td>
</tr>
<tr>
<td>PPS III 4.8 bis/6.00 m</td>
<td>38.8 kg</td>
<td>A0013</td>
</tr>
<tr>
<td>Kicker PPS I 1.08 bis/1.40 m</td>
<td>5.2 kg</td>
<td>A00111</td>
</tr>
<tr>
<td>Kicker PPS II 1.28 bis/1.90 m</td>
<td>13.1 kg</td>
<td>A00122</td>
</tr>
<tr>
<td>Kicker PPS III 2.05 bis/2.94 m</td>
<td>17 kg</td>
<td>A00123</td>
</tr>
</tbody>
</table>
• The Push-Pull Prop is attached to the panel.

Tie Rods Dw 15

• Supplied in four standard lengths, additional lengths.
• Are available upon request.
• Max. permissible load of the tie rod DW 15.
• DW 20 are according to DIN 18216.
TPS - Column Formwork

TPS as Column Formwork

- TPS Column Panels are able to form and concrete columns, starting with a gird from 5cm reaching up to cross-sections of 75x75 cm. The panels are connected with the TPS Column Tie Bolts and fastened with Wing Nuts. Unnecessary anchor holes are sealed off with plugs.

<table>
<thead>
<tr>
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<th>Weight</th>
<th>Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS- Column Formwork 330</td>
<td>330 cm</td>
<td>90 cm</td>
<td>172 kg</td>
</tr>
<tr>
<td>TPS- Column Formwork 270</td>
<td>270 cm</td>
<td>90 cm</td>
<td>142 kg</td>
</tr>
<tr>
<td>TPS- Column Formwork 120</td>
<td>12 cm</td>
<td>90 cm</td>
<td>70.5 kg</td>
</tr>
<tr>
<td>TPS- Column Formwork 60</td>
<td>60 cm</td>
<td>90 cm</td>
<td>40.5 kg</td>
</tr>
<tr>
<td>TPS- Brace Connector</td>
<td></td>
<td></td>
<td>0.65 kg</td>
</tr>
<tr>
<td>Plug TTS</td>
<td></td>
<td></td>
<td>0.004 kg</td>
</tr>
</tbody>
</table>
TPS - Special panels on request

TPS Special Panels

- Gael Form Ltd can swiftly produce special sizes if required. Some special sizes are already integrated in the range. On request, we can, of course, make any other size.
- Prices on request.

TPS - Galvanized on request
TPS - Production

Gael Form Ltd can swiftly produce special sizes if required. Some special sizes are already integrated in the range. On request, we can, of course, make any other size.

Prices on request.

TPS - Galvanized on request

TPS - Production Planning Logistics Service

• Prompt quotations and Comprehensive advice.
• CAD planning.
• Production of formwork plans.
• Swift, on-time, reliable delivery—worldwide.
• We take complete charge of logistics and storage.
• Training and instructing your personnel on site.
• Cleaning, maintenance and repairs using new original parts.
CONTACT US

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