Product Overview

Reflex makes forming concrete curved walls cost effective and easy. It can be quickly changed to form most circular concrete walls, particularly tanks.

**Faster**
- Reflex can easily be adjusted for re-use at location after location without any need for dismantling or re-assembly
- Its innovative design features allow for the setting of almost all curves efficiently and accurately
- Reflex withstands concrete pressures up to 60kPa and can easily be adjusted for almost all curves

**Safer**
- The Reflex Internal and External Access Platforms provide a safe and secure working platform for workers
- The strong and robust design of Reflex withstands concrete pressures of up to 60kPa, so it's safe for most projects

**Easy**
- The Reflex Clamps save a lot of time and effort because they are much easier to use than nuts and bolts
- The Reflex Panels are easily adjusted so they can be used at many sites without being dismantled, this improves on-site productivity.
- Reflex has either high quality ply or composite form. Composite form-face lasts significantly longer than ply, it provides a Class 2 finish and it’s easier to clean and maintain.
Applications

- Water/sewerage treatment works
- Flocculator tanks
- Pump wells
- Caissons
- Reservoirs
- Elevated tanks
- Circular stair wells
- Circular feature walls
- Large circular columns (min. diameter 500mm)
- Circular footings
Features and Benefits

- **Pre-assembled**  
  Reflex is a pre-assembled, adjustable panel that uses robust turnbuckles so it can be easily and accurately adjusted for the setting of all curves.

- **Speed of Utilisation**  
  The speed at which the Reflex system can be erected, stripped and repositioned provides significant reductions in labour costs.

- **Shorter Construction Times**  
  Reflex provides a shorter construction time than can be delivered by conventional formwork systems.

- **Very Strong**  
  Reflex’s steel frame means it is very strong and safe, withstanding concrete pressures up to 60kPa.

- **Minimises Maintenance**  
  Its galvanised finish eliminates corrosion, minimises maintenance and extends the lifetime integrity of the system. When using composite form face maintenance of panels is much easier.

- **Easily Adjusted**  
  Reflex is easily adjusted for re-use at site after site without dismantling, which eliminates the risk of component loss and improves on-site productivity.

- **Good Quality Finish**  
  Reflex has a high-grade form ply face which produces a good quality concrete finish. However if you use composite form face, the finish will be Class 2 in quality.

- **Can Be Combined and Climbed**  
  Reflex panels can be combined for high pours and can be used in a climbing configuration to cater for multi-pour structures.

- **Platforms and Guardrails**  
  Reflex access platforms and guardrails provide a safe and secure working platform during site operations.

- **Clamps Eliminate Nuts and Bolts**  
  Panels are easily fixed with Reflex clamps eliminating the use of nut and bolt connectors.

- **Can Be Adjusted for Most Curves**  
  Reflex panels can be adjusted to form parabolic curves and transition curves from one radius to another.
In Detail

Formwork and Access

**Reflex Panels**
The Reflex Panel is a self-contained plywood faced flexible panel, that arrives fully assembled. Reflex panel units remain assembled between use, eliminating lost items and improving on-site productivity.

**Infinetly Adjustable**
Reflex is infinitely adjustable from a flat plane to a minimum radius of 2500mm, making it perfect for most curved walls.

**Climbing Forms**
Reflex panels can be used as climbing forms for multi-pour structures. The forms are internally tied using 15mm Bar Tie system.

**Access Platform - Internal**
Internal Access Platforms also provide safe and convenient access from the interior of the project.

**External Access Platform - Mesh Guard**
Mesh Guards make the walkways safer for workers and help to stop items falling on people on the ground.

**Composite Formwork Face**
Composite formwork face provides a very good Class 2 finish, significantly more uses than ply and its much easier to clean and repair, saving on replacement and maintenance costs.
In Detail

Components

**Timber Infill**
Timber Infills align internal and external panels keeping tie positions radial.

**Rapid Bar Tie**
Internal and external panels are easily tied together using 15mm diameter RMD Rapid Bar Tie System.

**Splice Plate**
Splice plates enable the location and securing of panels on top of each other. So it’s easy to reach the height required for high pour projects.

**Turnbuckles**
Robust turnbuckles enable accurate adjustment of all panels to the curves required in most projects.

**Reflex Clamp**
Panels are easily connected with Reflex Clamps, eliminating the need for nut and bolt connectors.
Project References

**PROJECT**
Reflex circular formwork used at Burringbar WWTP

**REGION**
Australia & New Zealand

**STRUCTURES**
Dams, Utilities, Water Works

**PROJECT**
Tassal Dover WWTT - Reflex Circular Formwork

**REGION**
Australia & New Zealand

**STRUCTURES**
Mining, Utilities, Water Works
Components

Reflex Panel

Reflex is a self-contained plywood faced flexible panel for producing curved concrete walls. Panels remain assembled between use, eliminating lost items and improving on-site productivity. The panels can be ganged for crane handling.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>RXX11201</td>
<td>Panel 1.2m Internal Assembly</td>
<td>170.8kg</td>
</tr>
<tr>
<td>RXX11202</td>
<td>Panel 1.2m External Assembly</td>
<td>175.0kg</td>
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<tr>
<td>RXX11203</td>
<td>Panel 1.2m Infil Assembly</td>
<td>171.8kg</td>
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<tr>
<td>RXX11501</td>
<td>Panel 1.5m Internal Assembly</td>
<td>319.2kg</td>
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<td>RXX11502</td>
<td>Panel 1.5m External Assembly</td>
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<td>RXX11503</td>
<td>Panel 1.5m Infil Assembly</td>
<td>105.9kg</td>
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<td>RXX12401</td>
<td>Panel 2.4m Internal Assembly</td>
<td>335.0kg</td>
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<td>RXX12402</td>
<td>Panel 2.4m External Assembly</td>
<td>344.2kg</td>
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Reflex Clamp

Panels are easily connected with Reflex Clamps, eliminating the need for nut and bolt connectors.

<table>
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<th>Code</th>
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<tr>
<td>RXX30004</td>
<td>Reflex Clamp</td>
<td>4.5</td>
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Robust turnbuckles enable accurate adjustment of all panels.

<table>
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<tr>
<th>Code</th>
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<tr>
<td>RXX20001</td>
<td>Long 1.52 - 1.84m</td>
<td>2.4kg</td>
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<tr>
<td>RXX20002</td>
<td>Short 0.915 - 1.235m</td>
<td>2.0kg</td>
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<tr>
<td>RXX20004</td>
<td>Wale</td>
<td>14.8kg</td>
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Access Platform - External

Access platforms are always located at the top of the Reflex Panel to cover the trapezoidal voided section to prevent concrete build up inside.

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<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tr>
<td>RXX30001</td>
<td>Access Platform - External</td>
<td>27.7kg</td>
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Components

Access Platform - Internal

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<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tr>
<td>RXX30006</td>
<td>Internal Platform</td>
<td>14.1kg</td>
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Bar Tie

15mm Bar Tie is available in many different lengths.

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<tr>
<td>BTA21000</td>
<td>15mm x 1.0m</td>
<td>1.43kg</td>
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</table>

External Access Platform - Mesh Guard

Infill Mesh Guards are needed where panels join when the radius is greater than 5000mm and/or when timber infills are used.

<table>
<thead>
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<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tr>
<td>RXX30002</td>
<td>Mesh Guard</td>
<td>13.9kg</td>
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<tr>
<td>RXX30003</td>
<td>Infil Mesh Guard</td>
<td>8.7kg</td>
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Access Platform Retaining Pin

<table>
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<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>RXX30005</td>
<td>Access Platform Retaining Pin</td>
<td>0.43kg</td>
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</tbody>
</table>

Steel Cone (15mm Bar Tie)

<table>
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<th>Description</th>
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<tr>
<td>BTX90001</td>
<td>Steel Cone 15mm Bar Tie</td>
<td>0.64kg</td>
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</table>

Spring Clip And Retaining Pin

NB: Use this clip with accessories only. For main panel assembly utilise Reflex Cotter Pin (RXA10030)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
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<tbody>
<tr>
<td>SSA10095</td>
<td>Spring Clip</td>
<td>0.01kg</td>
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<tr>
<td>RXX20005</td>
<td>Retaining Pin</td>
<td>0.06kg</td>
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Services

Our service sets RMD Australia apart...

With over 60 years of experience in the construction industry RMD Australia understand the many and varied challenges that our customers face, whatever the size of your project. Whilst our product range provides us with the capability of supporting your project, it is our people that will make the difference.

Sales Support
The Sales Team support you throughout the project, they have the knowledge to advise effective solutions based on RMD's safe and productive products to reduce costs.

Engineered Drawings
Engineering is based in each Region and at RMD's Head Office. They provide detailed drawings that clearly show the most efficient and safest way that the project should be undertaken.

Customer Service
RMD provide a wide range of customer services to suit your special requirements, from training to the support items that you may require.

Technical Expertise
Every project, large or small, requires a unique design. Our highly skilled team of Engineers will firstly gain a thorough understanding of your specific requirements, and then provide a solution designed to more than meet them in terms of speed and accuracy. With a view to cost effectiveness.

Safety
RMD Australia prides itself on the inherent safety of our product range and the solutions that we design. Safety is a major criteria for all of our personnel including our dedicated Sales Team.
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