Bringing structures to life

PRODUCT BROCHURE

RMD Kwikform United Kingdom
Minima - A lightweight modular wall and column formwork system.

Product Overview

Faster

- Efficient tie hole positioning reduces the number of ties required, lowering costs and construction times.
- Modular components reduce the time to assemble and dismantle the panels.
- Minima has the versatility to adapt to most building structures, quickly & easily.

Safer

- Few Loose Fittings make it easy and convenient to connect the panels by using Minima clamps - no special tools are required.
- Minima is a robust wall formwork panel system for concrete loads up to 60kN/m².

Easier

- Minima’s panels are lightweight (only 30kg/m²), which means most panels are easily set by hand, minimising the need for cranage, reducing costs and skilled labour requirements.
- Minima has many different panel sizes ensuring that virtually any wall can be erected. Furthermore, composite panels are available for longer life and a better finish.
- Panels can be clamped together and up to 25m² can be lifted by crane if required, increasing the productivity of the system.
- Clamps are easily tightened and released, prolonging their working life and reducing labour requirements.
- Minima inner corners have a 2 degree stripping clearance, which allows panels to be easily removed once curing has taken place.
Applications

With 26 panel sizes, including 2.7 x 2.4m available, Minima can be easily assembled into most layout combinations and pour heights and because many of the panels are lighter weight than similar systems, they can be set by hand, providing greater productivity. Minima is suitable for maximum concrete pour heights of 3.9m for walls and 4.5m for columns.

- Walls
- Columns
- Buttresses
- Culverts
- Abutments and Piers
- Service Core
- Basements
- Tanks
- Foundations
- Pile caps
Features & Benefits

- **Lightweight panels**
  Panels are only 30kg/m² so they are easily set by hand, minimising the need for cranage, reducing costs and skilled labour requirements.

- **Simple clamping system**
  The Minima clamps are easy to use, which reduces the time needed to complete the project.

- **Increased productivity**
  The productivity of Minima is improved when its clamped together (up to 25m²) and lifted by crane to the next pouring location.

- **Easy stripping**
  Once sufficient curing has taken place Minima Inner corners can easily be removed because of their 2 degree stripping clearance.

- **Ply or composite face**
  Minima can have either a high quality ply face or a composite face, which lasts longer, provides a better finish and is easier to clean.

- **Versatile**
  With three different heights and ten different width sizes, Minima can be erected into virtually any configuration required.

- **Clever design**
  Tie positions support 1.21m² of formwork when using 2.7 x 0.9m panel assemblies, reducing the number of ties required, lowering costs and construction times.

- **Speed**
  As a modular system, Minima is quick to erect and dismantle, maximising construction times.

- **Hot dipped galvanised frame**
  Increases lifetime of the panel and reduces maintenance costs.
In Detail

Innovative Components

The Minima multi purpose panel
With horizontal tie holes at 50mm intervals, Minima can be used in special applications such as wall offsets, corners with oblique angles and pilasters.

Minima external corner clamp
Can join two standard panels together and skip the requirement of using an external corner panel.

Minima adjustable clamp
Joins panels and fillers together and allows up to 150mm of infill adjustment.

Minima hinged & fixed corners
Provides flexibility of design to allow for greater internal and external corner angles. Internal corner adjustment from 60 to 150 degrees and external corner adjustment from 90 to 175 degrees.

Minima A lightweight modular wall and column formwork system.

PRODUCT BROCHURE
Minima A lightweight modular wall and column formwork system.

In Detail
Wall Formwork

Modular components
Reduces the time to assemble and dismantle the system.

Few loose fittings
It is easy to connect the panels by using the Minima clamps, no special tools are required.

High concrete pressure
Minima is suitable for concrete pressures up to 60kN/m² for single tier and 55kN/m² for height extended forms.

Handset formwork
Most of Minima’s panels can be set without a crane, substantially reducing cost.

Hot-dip galvanised frame
Increase panel’s life cycle and reduce maintenance costs.

Wide range of panel sizes
With three different height sizes and ten different width sizes, with 26 different panel sizes overall, including 2.7x2.4m, Minima can be adopted to almost every project.
Minima A lightweight modular wall and column formwork system

In Detail

Column Formwork

High Concrete Pressure
The use of the MP Column panel allows 600 x 600mm Column forms up to 4.5m high to be formed without loss of the maximum 90kN/m² design pressure.

External Corners
External corners are used to join the external corners of the column formwork at right angles in order to use the full face of the standard Minima panel to produce 700 x 700mm columns.

Safe Access
Access Brackets provide a safe working platform, not only for pouring and vibrating concrete, but can also be positioned to provide access during erection and dismantling on higher column forms.

Fast
The modular nature of Minima ensures it is fast to erect and dismantle. Coupled with the design capacity allowing increased pour rates, favourably impact construction times and costs.

Lightweight
Minima Column forms can generally be installed, dismantled and relocated without the use of the crane, ideal on congested construction sites.

Alignment
Easily aligned with standard props and rails.
## Components

### 1200mm High Panels

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>MMX21230</td>
<td>Minima Panel - 1200 x 300mm</td>
<td>18.6kg</td>
</tr>
<tr>
<td>MMX21245</td>
<td>Minima Panel - 1200 x 450mm</td>
<td>23.8kg</td>
</tr>
<tr>
<td>MMX21260</td>
<td>Minima Panel - 1200 x 600mm</td>
<td>29.0kg</td>
</tr>
<tr>
<td>MMX21275</td>
<td>Minima Panel - 1200 x 750mm</td>
<td>33.4kg</td>
</tr>
<tr>
<td>MMX21290</td>
<td>Minima Panel - 1200 x 900mm</td>
<td>37.8kg</td>
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### 1500mm High Panels

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<tr>
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<td>Minima Panel - 1500 x 300mm</td>
<td>22.6kg</td>
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<tr>
<td>MMX21545</td>
<td>Minima Panel - 1500 x 450mm</td>
<td>27.7kg</td>
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<tr>
<td>MMX21550</td>
<td>Minima Panel - 1500 x 500mm</td>
<td>29.4kg</td>
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<tr>
<td>MMX21555</td>
<td>Minima Panel - 1500 x 550mm</td>
<td>31.1kg</td>
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<td>MMX21560</td>
<td>Minima Panel - 1500 x 600mm</td>
<td>32.8kg</td>
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<td>Minima Panel - 1500 x 650mm</td>
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<td>MMX21575</td>
<td>Minima Panel - 1500 x 750mm</td>
<td>37.9kg</td>
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<tr>
<td>MMX21590</td>
<td>Minima Panel - 1500 x 900mm</td>
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### 2700mm High Panels

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<tr>
<td>MMX22730</td>
<td>Minima Panel - 2700 x 300mm</td>
<td>39.5kg</td>
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<td>MMX22745</td>
<td>Minima Panel - 2700 x 450mm</td>
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<td>MMX22750</td>
<td>Minima Panel - 2700 x 500mm</td>
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<td>MMX22755</td>
<td>Minima Panel - 2700 x 550mm</td>
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<td>Minima Panel - 2700 x 650mm</td>
<td>59.3kg</td>
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<td>Minima Panel - 2700 x 900mm</td>
<td>73.5kg</td>
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<td>MMX22724</td>
<td>Minima Panel - 2700 x 2400mm</td>
<td>260.9kg</td>
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### Multi Purpose Plywood Panels

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<tr>
<td>MMX41270</td>
<td>Minima MP Panel 1200 x 700mm</td>
<td>37.0kg</td>
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<td>MMX41570</td>
<td>Minima MP Panel 1500 x 700mm</td>
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<td>MMX41870</td>
<td>Minima MP Panel - HD 1800 x 700mm</td>
<td>51.0kg</td>
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<td>MMX42770</td>
<td>Minima MP Panel 2700 x 700mm</td>
<td>60.1kg</td>
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Components

### Inner Corners

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<th>Weight</th>
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<tr>
<td>MMX31230</td>
<td>Minima Inner Corner 1200mm</td>
<td>41.4kg</td>
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<td>MMX31570</td>
<td>Minima Inner Corner 1500mm</td>
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<td>MMX32730</td>
<td>Minima Inner Corner 2700mm</td>
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### External Corner Angles

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<tr>
<td>MMM61200</td>
<td>Minima External Corner Angle 1200mm</td>
<td>16.0kg</td>
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<td>MMM61500</td>
<td>Minima External Corner Angle 1500mm</td>
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<td>MMM61800</td>
<td>Minima External Corner Angle 1800mm</td>
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### Hinged Corners

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<tr>
<td>MMX51230</td>
<td>Minima Hinged Corner 1200 x 300mm</td>
<td>39.5kg</td>
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<td>MMX51515</td>
<td>Minima Hinged Corner 1500 x 150mm</td>
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<td>MMX51530</td>
<td>Minima Hinged Corner 1500 x 300mm</td>
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<td>MMX52715</td>
<td>Minima Hinged Corner 2700 x 150mm</td>
<td>50.9kg</td>
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<td>MMX52730</td>
<td>Minima Hinged Corner 2700 x 300mm</td>
<td>82.0kg</td>
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### Adjustable Clamp

**AWL = 8kN in any direction in the plane of the clamp.**

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<tr>
<td>MMX10002</td>
<td>Adjustable Clamp</td>
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### Aligning Panel Clamp

**AWL = 8kN in any direction in the plane of the clamp.**

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<tr>
<td>MMX10003</td>
<td>Minima Alignment Clamp</td>
<td>3.4kg</td>
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Components

**Corner Clamp**

AWL = 8kN in any direction in the plane of the clamp.

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<tbody>
<tr>
<td>MMX10001</td>
<td>Minima Outer Corner Clamp</td>
<td>6.6kg</td>
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**Lifting Accessories**

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<tr>
<td>MMX10021</td>
<td>Crane Hook</td>
<td>7.5kg</td>
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<tr>
<td>MMM11020</td>
<td>Minima Lifting Eye Bolt with Lock Nut</td>
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<tr>
<td>BNX20003</td>
<td>100x100x6x22 Plate Washer</td>
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**Edge Tie Bearing**

AWL = 10kN

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<tbody>
<tr>
<td>MMX10023</td>
<td>Minima Edge Tie Bearing</td>
<td>2.3kg</td>
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Connectors

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<tr>
<td>MMX10010</td>
<td>Minima Waler Tie 300mm</td>
<td>0.8kg</td>
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<tr>
<td>MMX10012</td>
<td>Minima Tension Bolt 190</td>
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<tr>
<td>BNX20017</td>
<td>Washer - Plate 75x75x6x18mm</td>
<td>0.3kg</td>
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<tr>
<td>MMX10031</td>
<td>Minima Waler Tie 500mm</td>
<td>1.0kg</td>
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<tr>
<td>MMX10014</td>
<td>Minima Multi Purpose Bolt</td>
<td>0.6kg</td>
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<tr>
<td>MMX10015</td>
<td>Minima Multi Purpose Nut</td>
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<tr>
<td>MXX10043</td>
<td>Maxima Waler Plate 15.0</td>
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<tr>
<td>MMX10022</td>
<td>Minima Waler Plate 220</td>
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Alignment Rails

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<tr>
<td>MXX10008</td>
<td>Maxima Alignment Rail 750</td>
<td>8.1kg</td>
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<tr>
<td>MXX10007</td>
<td>Maxima Alignment Rail 1500</td>
<td>16.1kg</td>
</tr>
<tr>
<td>MXX10009</td>
<td>Maxima Corner Alignment Rail</td>
<td>13.8kg</td>
</tr>
<tr>
<td>MMX10008</td>
<td>Minima Waler 80</td>
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Components

Alignment Props

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<tbody>
<tr>
<td>MMX10005</td>
<td>Minima Alignment Prop - Medium</td>
<td>22.9kg</td>
</tr>
<tr>
<td>MMX10017</td>
<td>Minima Alignment Prop - Short</td>
<td>12.7kg</td>
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<tr>
<td>MMM20006</td>
<td>Minima Universal Prop Adaptor</td>
<td>2.3kg</td>
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Access Bracket

SWL = 5kN evenly distributed (includes self weight & boards).

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<th>Code</th>
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</thead>
<tbody>
<tr>
<td>MMX10006</td>
<td>Minima Access Bracket</td>
<td>13.35kg</td>
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Services

Our service sets us apart...

With over 85 years of experience in the temporary works industry we 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
Our sales team comprises a vast wealth of experience in the sector, helping us to understand your challenges and the opportunities to save you time and money.

Engineered Drawings
You will be provided with technical recommendations and layout drawings showing a level of detail sufficient to enable straightforward on-site erection. For specifically fabricated items comprehensive operating instructions will be provided.

Customer Service
We work with customers on all scale of projects and as such recognise that your requirements are all different. We provide a level of customer service to suit your requirements ranging from on site training to simple reordering of replacement parts.

Technical Expertise
Every project, large or small, requires unique system design. Our highly skilled team of engineers and technical experts will understand first your requirements, and provide a solution designed to exceed these. We do this through approaching projects with an open mind and a desire to provide the most appropriate solution.

Safety
RMD Kwikform prides itself on the inherent safety of our products and the solutions that we design. The construction industry’s greatest asset is its people and we design schemes and solutions with this in mind at all times.
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Our policy is one of continuous improvement and we reserve the right to change, alter or modify any detail, design, capacity, weight, dimension or code without prior notice being given.

The arrangements of equipment shown in photographs may have been assembled by others and therefore not reflect current best working practices or legislation requirements.

An Interserve Company