Infrastructure construction and remediation requires a broad base of engineering and composite technology expertise. You can rely on RPS Composites and its partners to design, fabricate and install all your structural needs, including:

» Elevated platforms, mezzanines, and working surfaces
» Access structures — stairs, walkways, ladders
» Process equipment support structures
» Pipe support structures
» Structural framing
» Improvements to existing FRP structures
» Failing conventional structural systems

**Engineered to Your Specifications**

FRP structural systems can be designed and installed as lightweight, corrosion-resistant and electrically non-conductive alternatives to steel structures, particularly where speed and ease of construction are important. FRP has performance characteristics similar to other construction materials, but unlike steel and aluminium, is EM/RF transparent and doesn’t disrupt equipment signals.

**How Do Structural Composites Improve Construction?**

<table>
<thead>
<tr>
<th><strong>Ease of prefabrication</strong></th>
<th>Prefabrication in a shop environment, including fit-up, enables efficiencies of modular construction. Installation time can be reduced up to 70%.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Significantly lower system weight</strong></td>
<td>Structural Composites are between 50% and 75% lighter than structural steel.</td>
</tr>
<tr>
<td><strong>Simplifies material handling</strong></td>
<td>Elimination of cranes; minimal rigging required.</td>
</tr>
<tr>
<td><strong>Reduces labor requirements</strong></td>
<td>Typical reduction of crew size between 25% and 33%. Site safety risks dramatically reduced due to simplified material handling, reduced labor force, and no hot work.</td>
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<tr>
<td><strong>Reduced installation time</strong></td>
<td>Due to prefabrication, kitting, and ease of material handling, installation can be 4x faster than steel installation.</td>
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<tr>
<td><strong>Eliminates welding</strong></td>
<td>Structural Composites require no hot work.</td>
</tr>
</tbody>
</table>
Structural Composites Improve Facility Maintenance

» Little to no maintenance required in highly aggressive environments, year after year.

» Materials designed for UV performance.

» Members can be painted, coated, or pigmented during manufacture.

» Impermeable and tough materials enable rapid cleaning with aggressive solvents and high pressure washers (contact us for details).

» Resistant to a broad range of chemical and aqueous environments that cause rust and rot to metallic or wood structures.

» Inherently non-corroding materials will not leach into the environment or crack and wear like other barrier coatings or treatments applied to steel, concrete, or wood.