



COMPOSITE **ENGINEERING**

**DELIVERING INNOVATIVE COMPOSITE
MATERIALS AND DESIGN SOLUTIONS**

WHERE WE WORK

WATER / WASTEWATER - Composite Engineering's wide variety of product lines combine light weight and high strength construction, corrosion resistance, maintenance free operation, slip-free surfaces and low life cycle costs. This enables us to lead the field in meeting the unique requirements of the water and waste water markets



FOOD AND BEVERAGE - Raised walkways, hand rails and self-closing gates provide a 100% OH&S safe working environment for process workers. Easily washed down with pressurized water, and resistant to all other chemical cleaners, our structures are a genuine set-and-forget solution for the food and beverage industry

CHEMICAL PROCESSING - Options of either Isophthalic or Vinyl Ester resin materials allow us to tailor the solution to meet both technical requirements, as well as the customer's budget. Composite Engineering designs and fabricates all structures, ladders and hand rails under one roof, maintaining strict quality control



MARINE / ARCHITECTURAL / COMMERCIAL - With a huge selection of grating patterns, colours and sizes available, many of Composite Engineering's previous installations have been in the marine, architectural and commercial sectors. Ranging from large scale commercial window shading to vast marina jetties and pontoons, all have been designed to meet the disability access requirements and relevant Australian Standards

UTILITY MARKET - Composite Engineering is constantly developing new and exciting products to meet the ever evolving utility market. With an emphasis on safety, our trenching, structural and barrier systems require no earthing as all the materials are non-conductive



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THE BENEFITS



CORROSION RESISTANT - Composite Engineering fiberglass products have excellent resistance to harsh, corrosive environments, and are available in a number of different resin formulations to suit your application



ANTI SLIP - The applied quartz grit surface of Composite Engineering's moulded and pultruded gratings have an unmatched level of slip resistance, particularly in wet and greasy environments, attaining the highest P5 rating under the new AS/NZS 4586-2013 Standard



LOW MAINTENANCE - The corrosion resistant properties of FRP products reduce or eliminate the need for sandblasting, scraping and painting. Our products are also very easily cleaned with high pressure water



FIRE RETARDANT - Our materials conform with a flame spread index of 25 or less, as tested in accordance with ASTM E-84. They also meet the self-extinguishing requirements of ASTM D-635



HIGH STRENGTH TO WEIGHT - Less than one-half the weight of steel products, allowing easy removal for access below floor level and installation without the need for heavy equipment, and less man-power



ELECTRICAL AND THERMAL NON-CONDUCTIVE - Fibreglass is electrically non-conductive for safety and has low thermal conductivity, which results in a more comfortable product when physical contact occurs



IMPACT RESISTANT - Fibreglass moulded and pultruded products show superior impact resistance, when compared to steel or aluminium products. Typically, there is no permanent deflection after significant impact events



LOW INSTALLATION COST - Due to the ease of fabrication, and it's inherent light weight characteristics, Fibreglass moulded and pultruded products eliminate the need for heavy lifting equipment



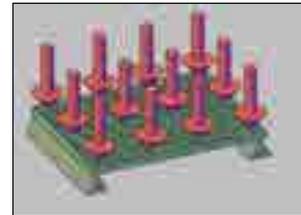
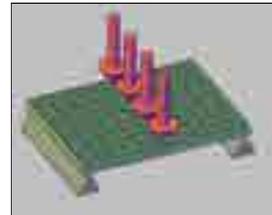
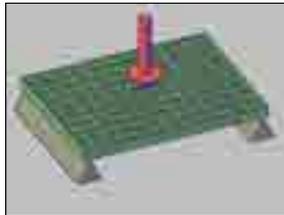
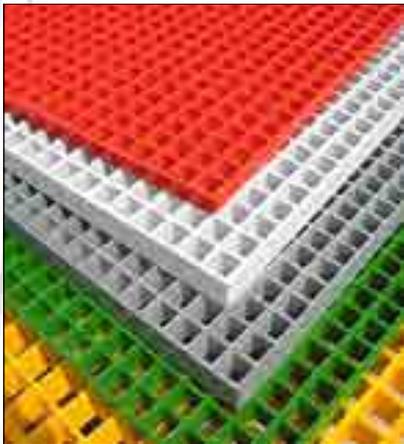
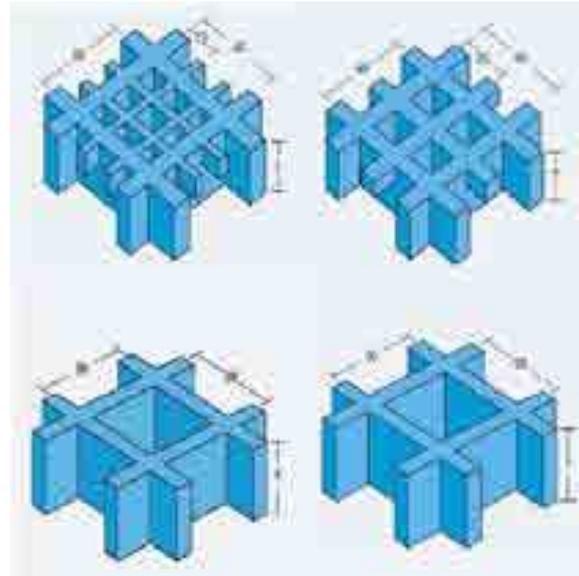
LONG SERVICE LIFE - Composite Engineering products provide outstanding durability and corrosion resistance in demanding applications, therefore providing improved product life over the more traditional materials, of steel, concrete, aluminium and timber



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FRP GRATING AND DECKING

MOULDED GRATING - Combining unmatched corrosion resistance with strength, long life and safety, Composite Engineering's fiberglass grating is proven to deliver years of reliable service, even in the demanding corrosive conditions which cause conventional metallic and wooden products and structures to deteriorate rapidly. Our products are lightweight and easy to fabricate. Combining the installation savings on labour and equipment with extra savings on low maintenance, long life and worker safety, our products and fabricated structures offer a life-cycle cost that is considerably lower than those of traditional materials

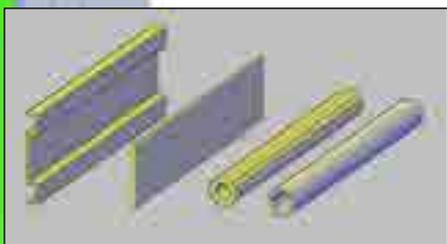
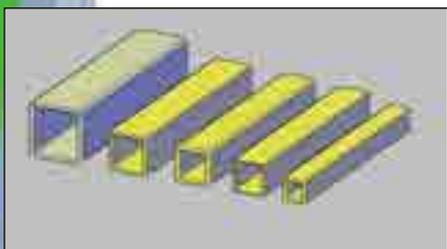
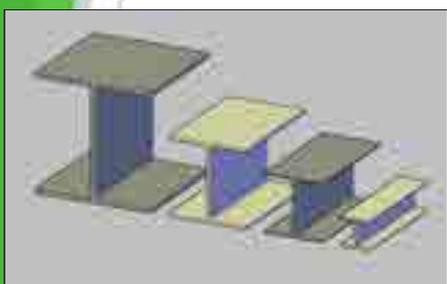
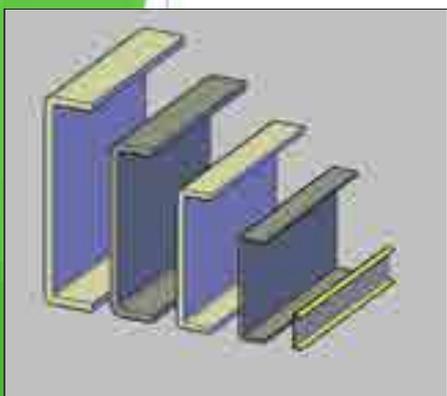
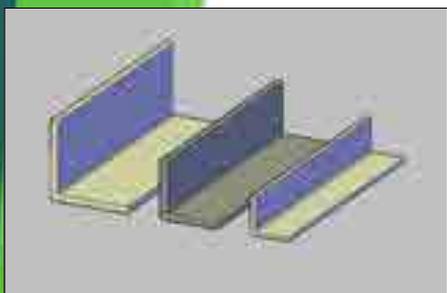


LOAD TABLES / TECHNICAL DATA - We have load tables and technical data on all of our grating and structural profiles. We also carry out specific requested data at our factory, tailored to your individual specifications, if required

COMPDECK - Being manufactured from sustainably sourced materials, and designed for commercial applications, CompDeck by Composite Engineering is the ultimate replacement for timber decking - eliminating rot issues and the need for constant maintenance and attention.



PULTRUDED PROFILES



STRUCTURAL PROFILES - Critical to the production of Composite Engineering's quality shapes is the tooling design for the pultrusion process. Running our own equipment right here in Australia, the manufacturing process involves fiberglass and other reinforcements are drawn through high pressure resin injection tooling. The fibres are shaped through a series of pre-forming guides, while being mechanically pulled through the heated die to produce the specific structural shape.

Our structural shapes combine fiberglass and specifically developed resins in a polymer matrix designed to meet the most demanding chemical, flame retardant, electrical, strength and environmental standards. Composite Engineering's thermosetting polyester and vinyl ester resin systems supply the exceptional corrosion resistance of these shapes, while strategically place rovings and mat increase structural integrity. In addition, all exterior surfaces of our profiles are covered by a synthetic veil for added protection against UV exposure



CUSTOM PROFILES - We manufacture all of our custom profiles right here in Australia. We use the latest FEA software to calculate the loads of each part, and advise specific thicknesses to allow a quality part to be produced from our engineered tooling. We've supplied custom profiles to marine, motorsport and aviation industries. Contact us today to discuss the possibilities



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DESIGN SOLUTIONS



DESIGN AND FABRICATION - Composite Engineering has designed and fabricated structures, ladders and hand rails for customers Australia wide. With our in-house CAD design and drafting capabilities, we control all facets of the fabrication of your project, from initial concept to final delivery. Our structures are designed, and conform to all, relevant Australian Standards, with particular attention paid to ease of final assembly on site, as well as modular design for disassembly for economical transport.



LADDERS AND HAND RAILS - Our Ladders and Hand Rails are individually designed to meet each site's requirements, in relation to the strict Australian Standards. Fabricated from all Vinyl Ester materials, our ladders provide a safe, and long lasting solution to height access issues in areas susceptible to corrosion, electrical conductivity, and slippery surfaces. These can be fabricated in a wide range of styles, from basic industrial arrangements to complex architectural and aesthetically pleasing designs



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