



Plastek  
Industries Septic  
Tank Casting

## Fibre Reinforced Precast Concrete Get The BarChip Advantage

BarChip works by distributing hundreds of thousands of high tensile strength fibres throughout the concrete mix, delivering better crack control and durability. If you're still rolling out steel for your precast concrete, it's time to make your life easier and switch to BarChip fibre.

- Easier to Use
- Faster Manufacturing
- Low Cost
- Corrosion Free
- Low Carbon

Join thousands of companies already using the macro synthetic fibre concrete reinforcement system and make the change to a better reinforcement today.



**EPD®**

THE INTERNATIONAL EPD® SYSTEM

EPD certified under The  
International EPD System.

**BarChip Inc.**  
The Synthetic Fibre Experts

When performance matters, choose BarChip fibre concrete.

[www.barchip.com](http://www.barchip.com)



# Transforming Precast Concrete

## The BarChip Advantage

When it comes to improving the quality of precast concrete, BarChip emerges as a game-changer. Here are the key benefits that make BarChip an ideal choice for precast concrete applications:

**1. Time Savings** - One of the most significant advantages of using BarChip is the removal of time-consuming steel mesh preparation and installation. Incorporating BarChip into the concrete mix streamlines processes and leads to substantial time savings.

**2. Better Safety** - Traditional steel reinforcement requires unrolling, cutting and placing steel in moulds, which presents multiple safety hazards. By switching to a fibre reinforced concrete solution like BarChip, these risks are mitigated.

**3. Waste Reduction** - The use of steel mesh often results in considerable off-cut waste. BarChip eliminates this issue entirely, contributing to a more efficient use of materials.

**4. Cost-Effectiveness** - BarChip stands out as a cost-effective solution to rising steel prices. Macro synthetic fibres like BarChip are significantly cheaper per cubic metre than steel reinforcement, providing measurable cost savings.

**5. Reduced Labour Costs** - By eliminating the need for steel mesh processes, BarChip reduces construction times and associated labour costs. Moreover, fibre reinforced solutions simplify the process for workers, as installing mesh is labor-intensive and physically demanding.

**6. Lower Carbon Footprint** - BarChip boasts a significantly lower carbon footprint compared to traditional and even low-carbon steel alternatives. This makes it a more attractive option to anyone trying to reduce their carbon footprint.

**7. Superior Performance** - Unlike traditional steel mesh, BarChip reinforces the entire cross-section of a concrete element. This comprehensive reinforcement system provides superior ductility performance, enhancing the structural integrity of precast concrete elements.

**8. Corrosion Free** - BarChip is immune to corrosion, a significant benefit for many precast concrete elements that leads to longer lasting and better quality structures.

**9. Ease of Use** - On top of all these benefits, BarChip simplifies the casting process for precast concrete. Its ease of use makes the entire process smoother and more efficient, further contributing to its appeal as a modern reinforcement solution.

BarChip not only enhances the performance and durability of precast concrete but also offers significant time, cost, and safety advantages. Its lower carbon footprint and waste reduction benefits align perfectly with sustainable construction goals, making it a superior choice for modern construction projects.



*Casting Septic Tanks*



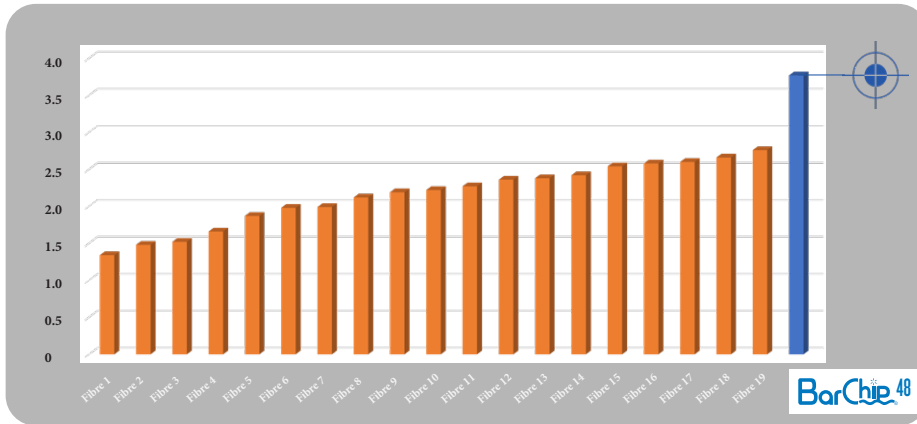
*Wastewater Systems*



*Architectural Wall Panels*

## The World's Best Fibre for Precast Concrete

BarChip48 is recognized the world over as the number one fibre for precast concrete. In comparison testing of more than 20 different fibres, BarChip 48 delivers the best result in EN14651 and ASTM C1609 beam testing.

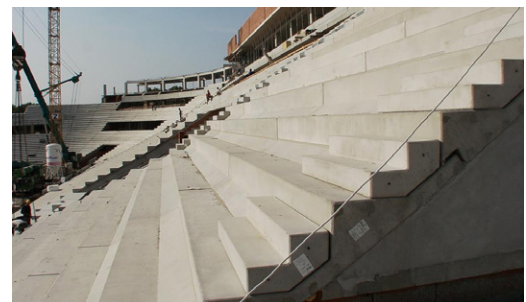


ASTM C1609 Beam Test Results



## Low Carbon Precast Concrete

Typical dose rates of BarChip fibre have a carbon footprint of 6 to 12 kg of carbon per cubic metre of concrete, a massive reduction compared to steel alternatives. In some precast applications, the corrosion free reinforcement and the improved crack control of BarChip fibre can allow for thinner precast structures. Reduced concrete consumption translates into massive carbon savings for precast manufacturers.



**Debrecen Stadium Seating:** Reduced the thickness of precast elements from 22cm to 12cm.



**Supported by Environmental Product Declarations**

**EPD®**  
THE INTERNATIONAL EPD® SYSTEM



**Santona Laredo Tunnel:** Switching from steel cage to BarChip reduced total segment costs by nearly 40%.

## Low Cost Precast Concrete

Compared to steel mesh, fibre reinforced precast concrete has reduced material costs, reduced labour costs, reduced transport costs and less element breaks during transportation. All these contribute to significant cost savings.

How much could you save by eliminating steel reinforcement from your precast manufacturing processes?



## Proven Performance

### BarChip Fibre Reinforced Precast Concrete

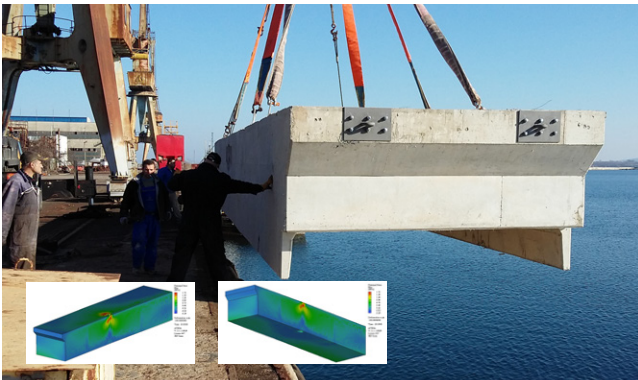
**BarChip Inc.**  
The Synthetic Fibre Experts



**Burial Vaults:** Eliminated steel reinforcement from vaults and lids, reducing costs and increasing production speeds.



**Santona Laredo Tunnel:** BarChip reduced carbon footprint by 77% from original steel design & overall segment costs by ~40%



**Floating Pontoons:** Eliminated nearly 500 kg of steel from each pontoon, massively lowering the risks of corrosion.



**Water Transfer Tanks:** Eliminated concrete cover originally specified to protect steel bar reinforcement from corrosion.



**Stormwater Pits:** Removed steel mesh, eliminating 1 whole day of prep work in 2-day the production cycle.



**Erosion Control Dome Barriers:** Enabled removal of concrete cover, reducing thickness from 150 mm to 50 mm.

#### BarChip Inc.

info@barchip.com

Australia: +61 1300 131 158

N. America: +1 704 843 8401

EMEA: +353 (0) 1 853 7324

Asia: +65 6835 7716

S. America: +56 2 2703 1563

Brazil: +55 19 2121 5417



**BarChip Inc.**  
The Synthetic Fibre Experts

Distributors are located in other regions. For contact details visit [www.barchip.com](http://www.barchip.com).

Disclaimer: This information has been provided as a guide to performance only, for specific and supervised conditions. The user is advised to undertake their own evaluation and use the services of professionals to determine the product suitability for any particular project or application prior to commercial use. ISO 9001:2015. PCST\_2025. © BarChip Inc. 2025

[www.barchip.com](http://www.barchip.com)