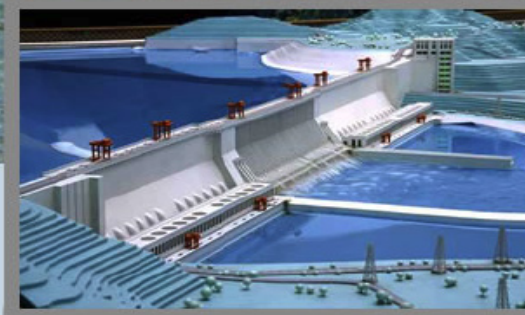




# Matrix Marine Fixing System



Matrix Marine Fixing Systems for the use in the construction and repair of any timber or concrete wharf structure including:

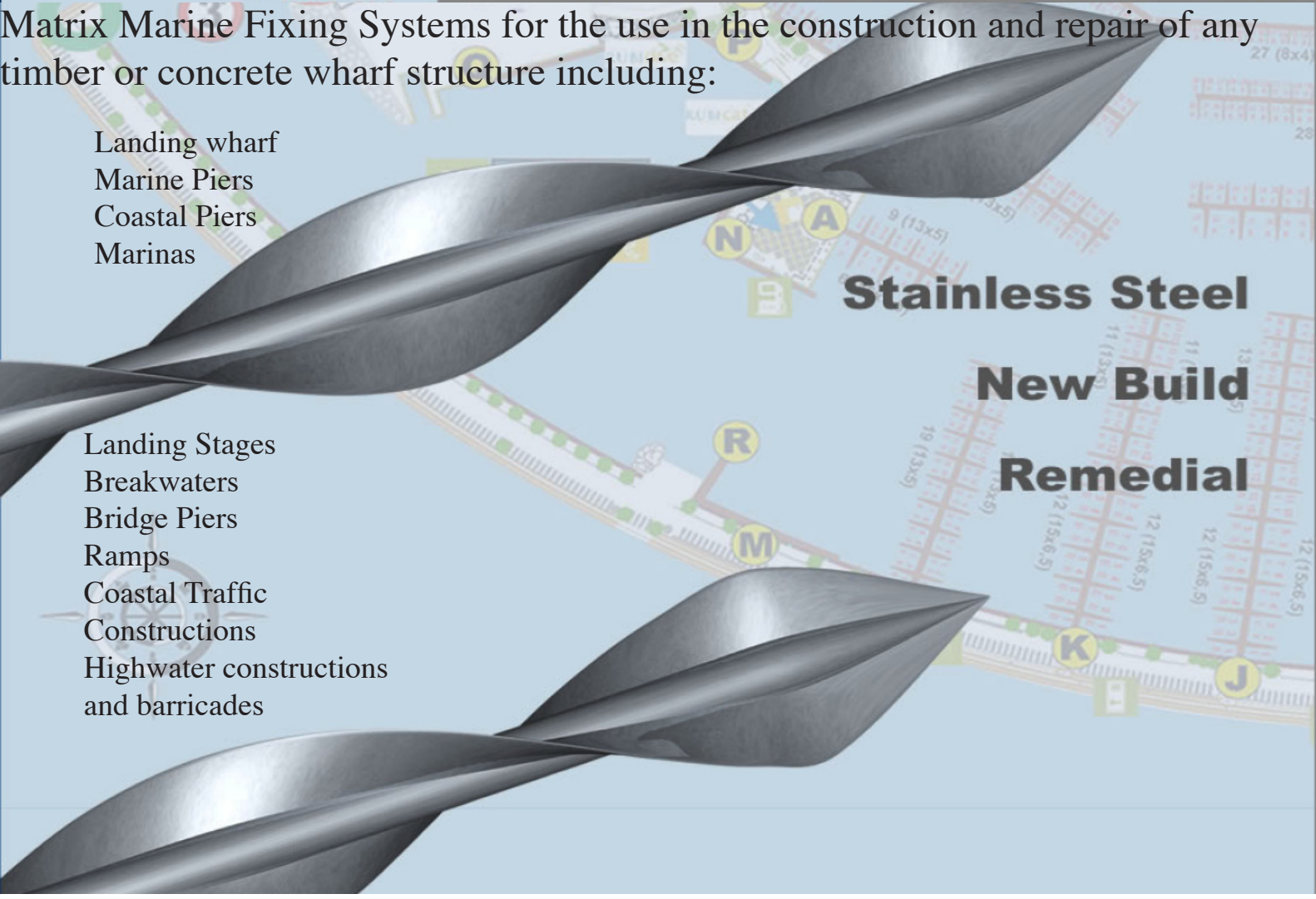
Landing wharf  
Marine Piers  
Coastal Piers  
Marinas

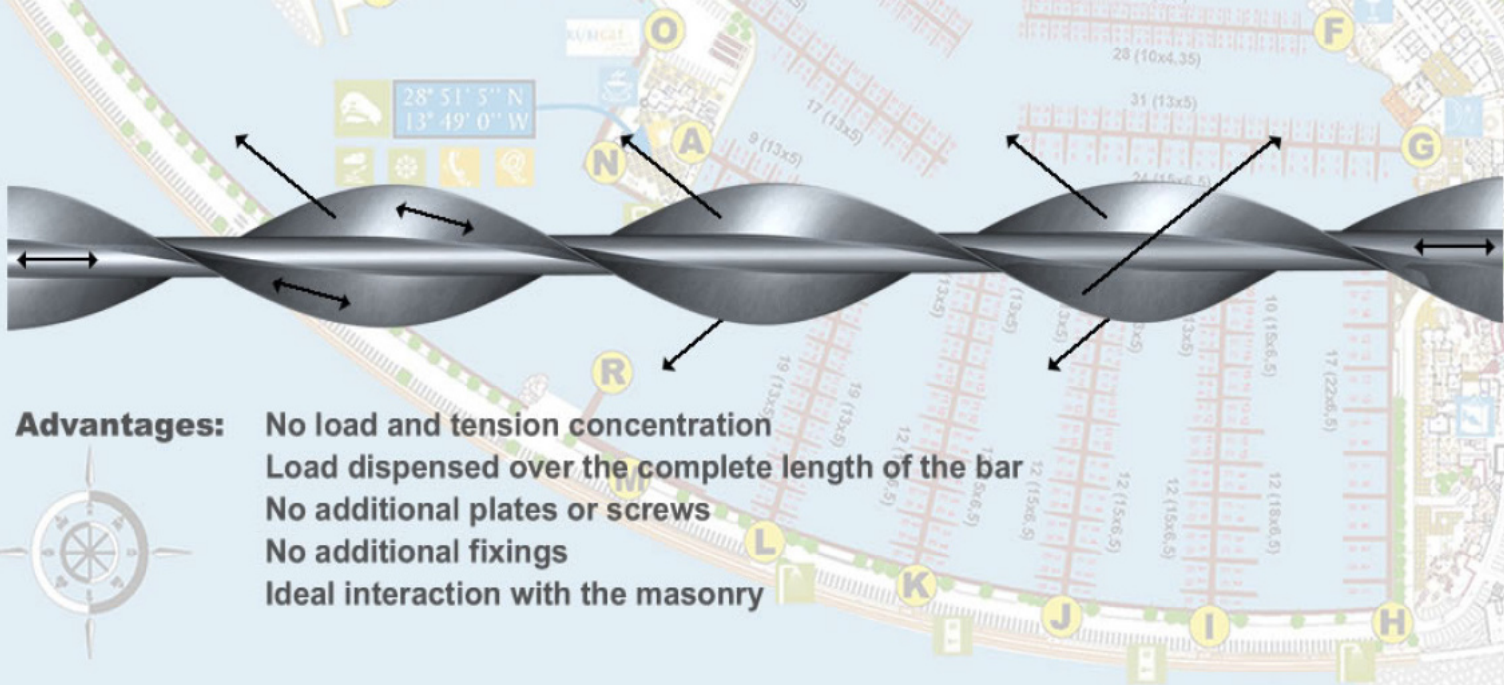
Landing Stages  
Breakwaters  
Bridge Piers  
Ramps  
Coastal Traffic  
Constructions  
Highwater constructions  
and barricades

**Stainless Steel**

**New Build**

**Remedial**

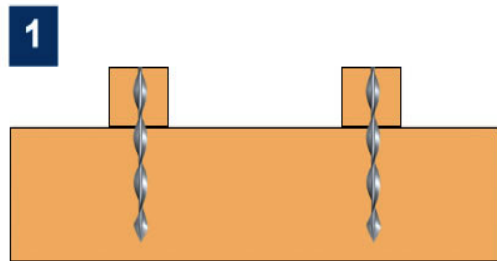




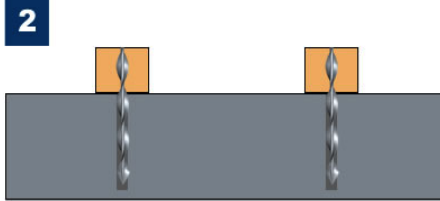
- Advantages:**
- No load and tension concentration
  - Load dispensed over the complete length of the bar
  - No additional plates or screws
  - No additional fixings
  - Ideal interaction with the masonry

The Matrix Marine Fixing Anchorage ties are made of austenitic 316 stainless steel that can be hammered or grouted into wooden, brick, rock or concrete structures. The anchors are rolled from a plain round wire, the fins are work-hardened to a very high level whilst the core remains relatively soft. The subsequent twisting process puts the fins into tension and the core into compression. The tensile strength of the base material is more than doubled during the manufacturing process. The pronounced fins over the core make the bonding characteristics of the Matrix anchors are far superior to alternative standard reinforcing materials.

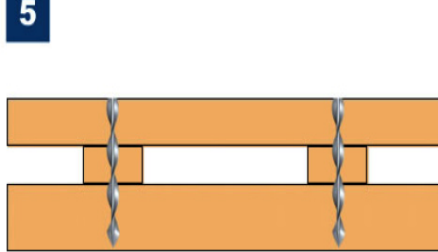
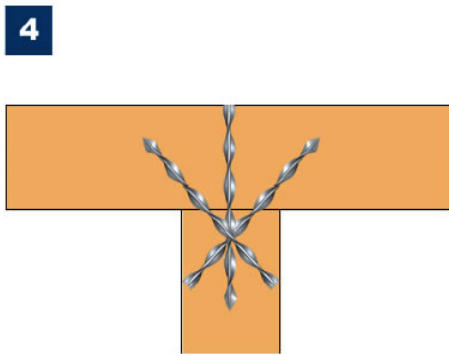
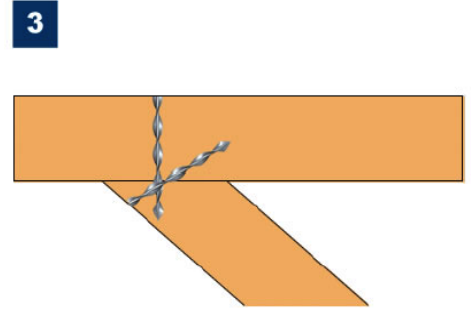
# Applications



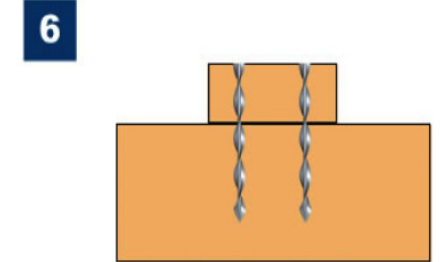
Timber / Timber - Standard Fixing



Timber / Concrete Fixing

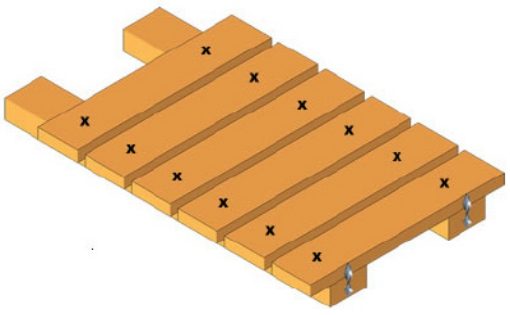


Timber / Timber - Multi-Layer Fixing



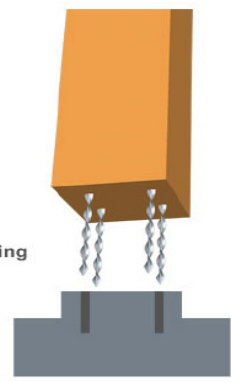
Timber / Timber - Standard Fixing

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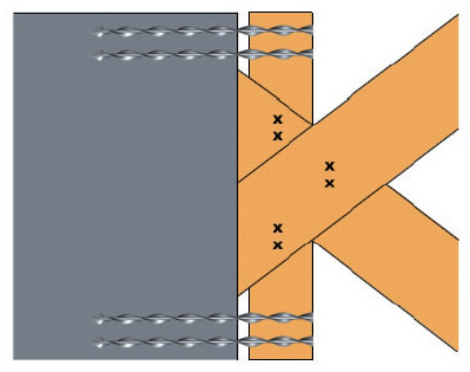


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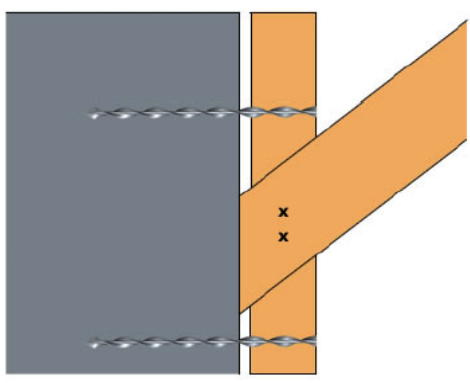
Timber / Concrete Socket Fixing



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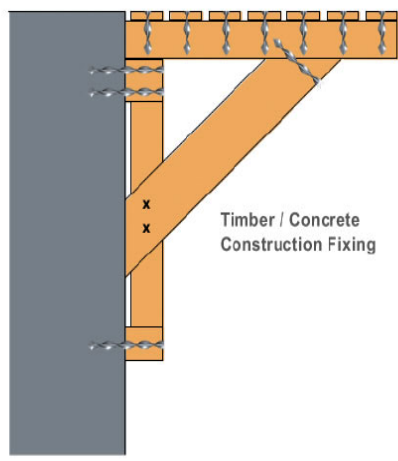


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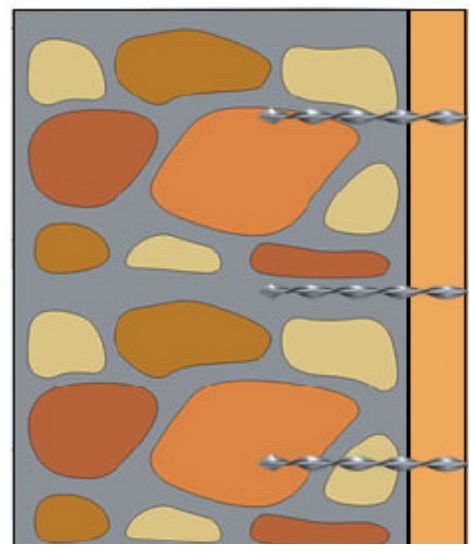


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Timber / Concrete Construction Fixing



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## Technical Data

Profile	Area mm <sup>2</sup>	Tensile Strength		Yield Point N/mm <sup>2</sup>	Elongation %(A <sub>100 MM</sub> )	E-Modul G Pa
		N/mm <sup>2</sup>	KN			
6	8	900	7,2	745	5,1	156,269
8	10	880	8,8	745	4,7	148,813
10	13	823	10,7	640	4,2	146,114

Data exemplary! Please ask our factory for more technical data. Please ask our technical support team for static calculations.



**[www.matrixindustries.com.au](http://www.matrixindustries.com.au)**

**144 Oxley Island Road, Oxley Island, NSW 2430 Australia**

**Phone: +61 2 6553 2577**

**Fax: +61 2 6553 2585**

**Email: [info@matrixindustries.com.au](mailto:info@matrixindustries.com.au)**