

'Jumpinpin'



The world's first eco-friendly, mammal-safe ferry for Australia's Moreton Bay



Extra thick sound reduction and very clean exhaust

Aluminium Boats Australia has recently launched a totally new concept in maritime transportation: a specifically designed and specially developed eco ferry with ultra low wash, ultra low fuel consumption, exceedingly quiet, and, most importantly, specifically "mammal friendly."

Designed in-house and built for Australia's Bay Island Transit Group, the vessel will be operating out of Redland Bay. According to Aluminium Boats Australia, this will be the first of a fleet of vessels specifically built to protect the fragile ecology and marine mammals in a specific marine park area.

The vessel has a specially designed hull, which boasts no protrusions and is shaped at the bow and along the hull line to deflect marine mammals. The vessel is powered with Scania engines and propelled by an extraordinary Hamilton Jet system.

The initial brief from Bay Island Transit was to provide a genuine solution to mammal safety concerns in Australia's Moreton Bay whilst paying particular attention to the wash of the vessel in all situations to alleviate erosion concerns.

This appears to be a world first in innovation and pragmatism – solutions to environmental issues rather than excuses and compromises. Bay Island Transit has put serious money into providing a real outcome for the area.

Environmental Issues: Each of us, the company says, perceives this as a metaphor for something different, some as a constant hindrance to commercial operations on all fronts, others as a cost impost, or worse as an impossible invisible boundary making commercial decisions implacable.

There is of course an alternate long-term view, where pragmatic solutions become a part of the operating parameters

and where some synergies between government, regulators and commercial operations can occur.

The Bay Island Transit group, located on the Southern shores of Brisbane, Australia and operating commuter ferries in a busy but shallow and environmentally important eco-system, decided to embark on a pre-emptive path in the development of a superior light weight mammal-friendly people mover: no frills, hose out design, fast comfortable safe and highly manoeuvrable, more importantly designed with a single purpose and tested extensively in the Australian Maritime College's test tank to provide marine mammals with the best possible protection from death caused by vessel impact. Attention was paid to maximising the vessel's fuel efficiency and lowering wake. The results are quite impressive.

The vessel carries 186-plus passengers, boasts a comfortable 25-plus knot operating speed, powered by Scania D12 59M engines and Hamilton HJ364 Jet propulsion units. The control system is Blue Arrow, an extraordinary system, making great use of the vessel's excellent manoeuvring capabilities.

The principal of "keep it simple" was applied to all of the systems and components on the vessel, making it economic and quick to build while being incredibly robust, safe, easy to maintain and simple to operate.

This is the first delivery in a five-boat order. As such, time has been taken to ensure that all of the issues are dealt with on the first boat with the next one due for delivery within six weeks.

The superstructures are composite in construction and were built on-site.

MET Services has designed and installed a simple 24-volt electrical system, which operates all of the vessel's systems including onboard television and advertising systems with the electronics supplied and installed by Dave Murray of Ultimate Marine Power.

The vessel boasts large storage areas with easy access to luggage and exit / entry rows, easy to clean, low maintenance seating was provided by Seating Technologies in Brisbane, Australia and

John Chaplin and his crew have undertaken to complete all of the painting.

This vessel is an innovation in smart affordable people-moving with an on-water delivery cost of less than two million dollars and amazing full spectrum performance figures.

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SPECIFICATIONS

Type of vessel:	Passenger ferry
In survey to:	1 E
Home port:	Brisbane, Australia
Owner/operator:	Bay Island Transit Services, Australia
Designer/builder:	Aluminium Boats Australia, Australia
CAD software:	AutoShip
Hull construction material:	Aluminium
Superstructure construction material:	Composite FRP
Length overall:	23.9 metres
Length waterline:	22.4 metres
Length bp:	22.4 metres
Beam:	6.5 metres
Draught:	0.85 metres
Displacement:	36 tonnes (full load)
Main engines:	2 x Scania diesel 12 59M, 330KW
Gearboxes:	2 x Twin Disc
Propulsion:	2 x Hamilton DJ 24 waterjets
Steering:	Hamilton Blue Arrow
Maximum speed:	24 knots
Cruising speed:	22 knots
Electronics supplied by:	Ultimate Marine Power
Radar:	Simrad 6KW
Depth sounder:	Simrad
Radio:	Icom
Compass:	Plastimo offshore
GPS:	Simrad
Plotters:	Simrad
Capstan:	Muir
Paints/coatings:	Jotun
Windows:	Alfab / Transglaze
Passengers:	186+

