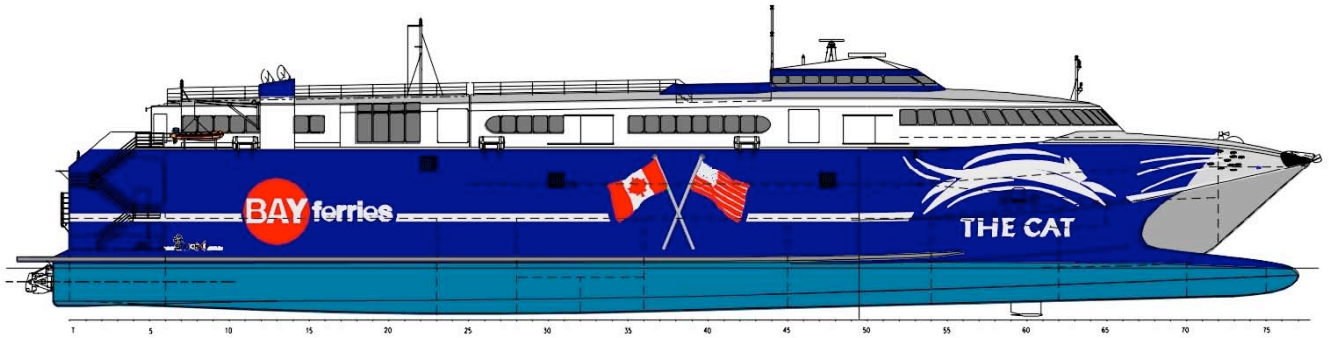


EVOLUTION 10B - 98m Wave Piercing Ro/Pax Catamaran

At Incat we have moved the boundaries, opening the frontier of fast freight by sea to operators worldwide.



General Particulars

Yard No.	059
Designer	Revolution Design Pty Ltd.
Builder	Incat Tasmania Pty Ltd.
Class Society	Det Norske Veritas
Certification	DNV ✕1A1 HSLC R1 Car Ferry "B" EO
Length overall	97.22 m
Length waterline	92.00 m
Beam overall	26.60 m
Beam of Hulls	4.50 m
Draft	3.43 m
Speed	38 knots at 744 tonnes deadweight

Note - All speeds quoted at 100% MCR 4 x 7080 kW @ 1030 rpm without deployment of T-foil, with clean underwater parts and in water depths of 10 metres to 50 metres.

Capacities

Max Deadweight - approx 744 tonnes

Passenger Capacity - 900 persons (including crew)

Passenger Deck - located on one level, the Passenger Deck is divided into three lounges:

- Aft Lounge with seating areas, Bar, Office, Disability Toilet/Mothers Room and Male/Female Toilets.
- Midship Lounge with seating areas, Kiosk, Food Preparation Area and Shop.
- Forward Lounge with seating areas, Club Class Lounge, Bar, Male/Female Toilets, Children's Play area, Lower Wheelhouse, Crew Room and Crew Wash Room.

Vehicle Capacity - 380 truck lane metres at 3.1m wide and 4.35m clear height plus 80 cars at 4.5m length x 2.3m wide or 267 cars only using optional mezzanine decks.

Axle loads - Transom to Frame 49 - 10 tonnes per dual wheel axle or axle groups to suit European standards. Fwd of Frame 49 Ramp A to D - 0.8 tonnes per single tyre/single axle group.

- Tankage - Fuel Oil - 190,080 litres (plus 420,467 litres in long range tanks)
- Fresh Water - 10,000 litres
 - Sewage - 9,000 litres
 - Lube Oil - 2 x 1500 litres
 - ER Oily Water - 2 x 150/1600 litres
 - Genset Fuel Oil - 2 x 850 litres*

Construction

Design - Two slender, aluminum hulls connected by a bridging section with center bow structure at fwd end. Each hull is divided into nine vented, watertight compartments divided by transverse bulkheads. Two compartments in each hull prepared as short-range fuel tanks and one as a long-range fuel tank.

Air Conditioning

Sanyo reverse cycle heat pump units throughout capable of maintaining between 20-22 deg C and 50% RH with a full passenger loads and ambient temperature of 35 deg C and 50 % RH.

Evacuation

Escape is via Four Marine Evacuation Stations, two port and two starboard. The two forward MES serve a total of 200 persons each and the two aft MES can serve up to a total of 300 persons each. A total of ten 100-person rafts are fitted.

2 x SOLAS inflatable dinghy with 30 hp motor and approved launch / recovery method.

Machinery Installations

Main Engines - 4 x resiliently mounted Ruston 16RK270 marine diesel engines, each rated at 7080 kW at 1030 rpm.

Water Jets - 4 x Lips 120E waterjets configured for steering and reverse.

Transmission - 4 x Reintjes VLJ 6831 gearboxes, approved by the engine manufacturer, with reduction ratio suited for optimum jet shaft speed.

Hydraulics - Three hydraulic power packs, one forward and two aft, all alarmed for low level, high temperature and filter clog and low pressure. One pressure line filter and two return line filters fitted. An off-line filter / pump provided.

Ride Control - A 'Maritime Dynamics' active ride control system is fitted to maximise passenger comfort. This system combines active trim tabs aft and optional fold-down T-foil located at aft end of centre bow fitted with active fins. The structural abutment, electrical and hydraulic services to receive the fwd T-foil will be fitted as standard to the vessel.

Electrical Installations

Alternators - 4 x Cummins N14 265 kW (nominal) marine, brushless, self-excited alternators.

Distribution - 415V, 50 Hz. 3 phase. 4 wire distribution with neutral earth allowing 240 volt supply using one phase and one neutral. Distribution via distribution boards adjacent to or within the space they serve.



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