

85^m

INCAT'S NEW WAVE OF WAVE PIERCING



CATAMARANS IS HERE



GENERAL SPECIFICATIONS

Principle Dimensions

Length (overall)	84.64m
Length (outer hulls)	80.00m
Beam (overall)	26.62m
Draft (design)	3.40m
Deadweight:	500 tonnes

85 METRE WAVE PIERCING CATAMARAN

The Incat 85m Wave Piercing Catamaran heralds Incat's new breed of more fuel efficient, economical cats currently under construction.

Whether using port infrastructure for stern loading, or opting for a bow ramp or stern quarter ramp, the 85 metre ship can quickly load a full complement of trucks, cars and passengers allowing fast turnarounds. An optional mezzanine deck can be fitted to increase car capacity, and with Incat's optional revolutionary retractable T-foil operators are able to optimise the design to best suit their route and customer needs.



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POWER PACKAGE

Main Engines

Four resiliently mounted MAN 28/33D 12V or Caterpillar C280-16 marine diesel engines, rated 5400kW each at 100% MCR.

Water Jets

Four Wartsila LJX 11000 SR waterjets configured for steering and reverse. Waterjets will be fitted with standard outboard hydraulic steering and reverse actuators.

Power Transmission

Four ZF gearboxes, with reduction ratios suited for optimum jet shaft speed. A flexible coupling approved by the engine manufacturer will be fitted between each engine and gearbox. Shafting (gearbox to jet) can be steel or composite.

ELECTRICAL SYSTEM

Four marine diesel generators rated at 230 ekW each.

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

Two main switchboards, one in each ante room. Each main switchboard is fitted with a load preferential trip system which automatically sheds non essential loads.

RIDE CONTROL SYSTEM

A ‘Maritime Dynamics’ active ride control system is fitted to maximise passenger comfort. This system combines, active trim tabs aft with an optional retractable T-foil located at the aft end of the centre bow.

A fully retractable centre bow T foil is optional. The T-foil system comprises a foundation structure built into the centre bow, a hinge mounted deployable steel T-foil and a hydraulic actuation system.

TANKAGE

Fluid	Capacity (Litres)
Fuel Oil (main storage)	2 x 30,000
Fuel Oil (main engine header tanks)	2 x 1,240
Fuel Oil (generator header tanks)	2 x 1,240
Fresh Water	1 x 5,000
Black & Grey Water	1 x 5,000
Lube Oil	2 x 1000
Engine Room Oily Water	4 x 160
Aft Hydraulic Oil	2 x 500*
Fwd Hydraulic Oil	1 x 350*
(Note: *denotes tank content excluded from deadweight)	

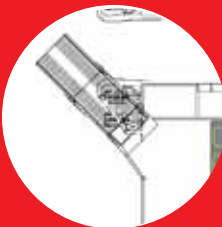
SAFETY AND ESCAPE

Four Marine Evacuation stations (MES) each capable of serving up to a total of 200 persons under normal evacuation, are located on the Tier 2 Passenger Deck (two port and two starboard).

Two SOLAS semi-rigid inflatable dinghies with 25hp motor located outboard adjacent to the superstructure with Incat standard approved launch/recovery davits.

Lifejackets, fitted with lights and whistle devices, are provided in accordance with international regulations for passengers and crew, including children. Lifebuoys, smoke flares, immersion suits are also provided in accordance with international regulations.

OPTIONAL EXTRAS



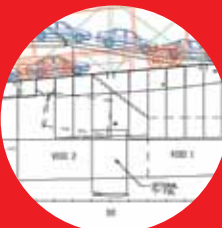
Stern quarter ramp



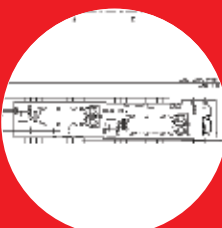
Bow ramp



Mezzanine decks (port and starboard)



Forward retractable T-foil



MAN or Caterpillar main engines



PERFORMANCE PREDICTIONS

- 40+ knots @ 200 tonnes deadweight.
- 36+ knots @ 500 tonnes deadweight.

APPLICABLE REGULATIONS

The 85m vessel is designed and built in accordance with the following regulations for use on short international and domestic routes:

- DNV High Speed and Light Craft (HSLC) Rules.
- IMO High Speed Craft Code (HSC 2000) and applicable IMO regulations in force at time of signing contract.

VEHICLE ACCESS

Vehicles unload from shore based ramps over the stern or by an optional stern quarter ramp from alongside.

An optional ramp over the bow will be capable of loading/unloading cars and trucks.

VEHICLE DECK

The vehicle deck located on Tier 1 deck with the capacity of:

- 121 car spaces @ 4.5m long x 2.3m wide or 545 car lane metres.
- or 330 truck lane metres @ 4.6m clear height plus 300 sqm @ minimum 4.0 clear height.

The vehicle deck will have a axle load of 13 tonnes (single axle, four wheels) within areas of 4.6m clear height and 3.0 tonnes (single axle, two wheels) on the remainder of the vehicle deck.

INTERIOR LAYOUT

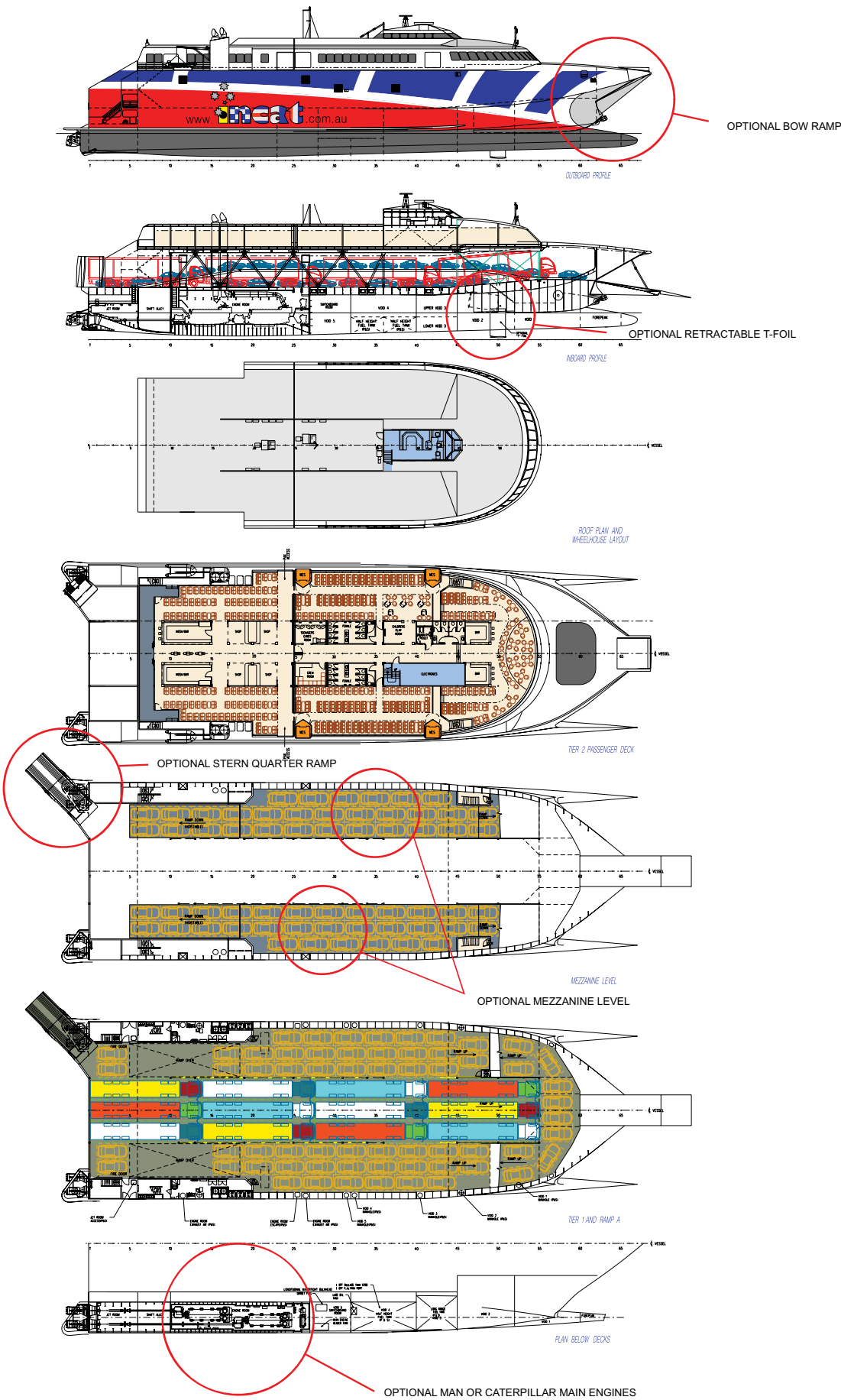
The passenger accommodation is located on Tier 2 deck, with facilities for up to 630 persons (passengers and crew), as follows:

- Forward lounge: seating areas, bars, male/female toilets and electronics room.
- Midship Lounge: seating areas, childrens and teenagers rooms, disability toilet/parents room, and male/female toilets, and crew rooms.
- Aft Lounge: seating areas, kiosks, pantry shops.

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