

## **Buccoo Reef – Incat 094 - Vessel Walkthrough**

### **General description**

Incat Tasmania's vessel 094 *Buccoo Reef* continues Incat's proud tradition of building catamarans on the cutting edge of innovation. A highly flexible platform that reflects the buyer's wish for a thoroughly modern, purposeful and attractive solution to carrying passengers, vehicles and cargo in comfort, style and safety across the Caribbean Sea.

The ship can accommodate 995 passengers and crew, 175 truck lane metres, or space for 239 cars on the vehicle and mezzanine decks. A suite of modern features includes a centrally monitored climate control, integrated CCTV, Wi-Fi and a highly manoeuvrable and efficient propulsion system that utilises the latest technology.

### **Boarding facilities**

Vehicles enter via shore-mounted ramps at the stern. Smaller vehicles can make their way up to the mezzanine decks via articulated ramps on both the port and starboard side. Trucks and large vehicles are able to park along the centreline with additional cars under the mezzanine decks.

The use of extensive lighting and openings at the foredeck and stern provide a high degree of natural light and air movement through the vehicle deck. To prevent tyre skid, a low maintenance and durable bead blast coating has been applied to deck surfaces. All vertical structural steel members are painted bright yellow so obstructions to vehicles or passenger movement are easily spotted and avoided.

Foot passengers can access the passenger space via fully enclosed and fire protected staircases forward and aft. A passenger lift at the stern allows for approximately seven passengers effortless access to the passenger cabin via the promenade deck.

### **Passenger cabin**

The passenger cabin, which spans a single deck, has an abundance of natural light and a clean, functional appearance. All passenger areas feature high quality carpet, durable timber-look finish walkways, stainless steel fittings and tasteful wall panelling.

An eclectic mix of blue, red, green, orange and yellow seating evokes a friendly Caribbean feel for all travellers. The passenger cabin offers a flexible single, double, triple and quadruple seating and tables where travellers can make use of the conveniently spaced televisions for on-board entertainment or enjoy the passing scenery.

### **Forward lounge**

VIP passengers accommodated in the forward cabin are treated to stunning views of the voyage ahead through expansive use of glass across the bow and forward quarters. A tasteful mix of elm and glacier walls, deep blue coral carpet, and wood look finish walkways enhance an already inviting space for travellers.

A private, centrally located bar provides refreshments. It features stainless steel and glass tabletops, two large fridge/freezer units, coffee machine and plenty of space to display drinks, food and brochures.

Passengers can make use of dedicated male and female toilets that feature a mix of quartz countertops, elm panelling and grey vinyl flooring. Fittings include motion-activated tapware, soap dispensers and hygienic air-blade hand dryers.

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### **Mid lounge**

Passengers travelling amidships have access to a well-lit and spacious full breadth cabin. It features extensive use of green and red on airline-style seating port and starboard and rich mango upholstered individual bucket seats and tables on centreline.

A large kiosk, food preparation area and bar provide food and drink, with stainless steel and glass cabinets to display hot and cold meals, drinks and desserts. A wide corridor around each counter allows customers easy viewing and access, reducing crowding and long lines.

### **Aft lounge**

Passengers travelling in the aft lounge are treated to a choice of twin, triple or quadruple person airline-style lounges and individual bucket seating. A diverse colour palate of orchid, mango, limestone and firecracker red upholstery give a welcoming and cheerful feel to the cabin. Glass features prominently across the port, starboard and rear bulkheads so commuters can enjoy uninterrupted scenery of the journey travelled.

The aft bar features stainless steel food grade benches, glass faced cabinets and ample counter space for preparing or displaying items. Generous use of lighting and wood look-finish panelling give a functional and modern appearance. A wide berth between seating areas gives customers easy access to counters.

Large toilets, with up to six cubicles, for female and male passengers reduce the likelihood of lines or crowding. Furnished with smoked elm wood look panelling, quartz counters and large mirrors they exemplify functional elegance.

Ambulant or wheelchair bound travellers are provided easy access to the cabin via a port side lift, four seating bays and an accessible toilet which doubles as a mother's room.

Promenade deck seating at the stern allows an escape from the busyness of the main cabin or a chance to be outdoors for those who seek it.

### **Purser's office**

The purser's office, located in the forward lounge, controls the public announcement and entertainment system. An expansive, full-width desk and two chairs enable crewmembers to conduct electronic communication to all passengers quickly and efficiently.

### **Cool room**

A fully insulated and independently temperature controlled cool room with shelving is situated on the port side of the forward lounge. It provides ample storage space for a range of perishables and liquids.

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### **Patient transport**

To aid in the delivery of passengers who require medical attention, a patient transport area is provided amidships on the passenger deck. Reduced height walls, large roller door access and an obstruction free floor space allow easy access for multiple patient trollies and a steady flow of fresh air to occupants.

### **Bridge**

Situated atop the passenger deck, 094's wheelhouse features the latest navigation, monitoring and control equipment to enable masters and officers complete control over the vessel. A dedicated docking station, 360-degree views, remote release life rafts and MES units and CCTV deliver a high level of safety and control during voyages and docking.

The vessel offers views from raised helm seating, with all instruments fitted in dark grey and black consoles to aid night vision and minimise distraction. A separate ship's office and lounge is located aft of the bridge where crew are able to lay-out charts, plan voyages or relax from day-to-day activities. Ample desk space, a food preparation area with sink and fridge, television, tables and seating for up to ten crew is available.

### **Crew cabin**

Crew are catered for with cabins located in a secluded area aft of the wheelhouse and crew lounge. They come equipped with air conditioning, individual beds, desks, wardrobe, internet access and windows to let in natural light.

The ship's master and chief engineer are afforded individual cabins with private ensuite facilities. The remaining crew share three four-person cabins and bathroom with shower and two toilet cubicles.

### **Roof**

An escape path for the forward lounge, wheelhouse and crew cabins is located on the passenger cabin roof via the wheelhouse stairwell. It provides access to engineering spaces, HVAC systems, antennas, life rafts and service craft without traversing through the main cabin.

### **Safety**

The vessel is equipped with four state of the art marine evacuation slides that allow passengers a quick and safe exit from the vessel in the event of an evacuation. Eleven 100-person life rafts and two SOLAS rigid outboard motor equipped dinghies complete the comprehensive safety package.

### **Drive train & electrical generation**

Four resiliently mounted MAN 28/33D STV 16V marine diesel engines, rated at 7280 kW each, provide efficient and environmentally conscious propulsion. Thrust vectoring and steerage is served via four Wärtsilä WXJ 1200 SRi waterjets, connected to each engine via four steel and composite shafts and ZF 535000NR2H gearboxes.

Four caterpillar C9.3 250 kW marine, brushless, self-excited generators supply electrical power. 400V, 60 hertz, three phase, four-wire distribution with neutral earth allows a 230-volt electrical supply using one phase and one neutral.

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### **Ride comfort**

Vessel 094 features a NAIAD active ride control system to maximise passenger comfort. This system combines active trim tabs at the stern with a retractable, active-fin T-foil at the bow. When not required, the T-Foil withdraws behind the latest Incat centre-bow design to maximise speed and efficiency.

### **Habitability**

The vessel features reverse cycle air conditioning throughout the passenger cabin, toilets, crew cabins and wheelhouse. The HVAC system is capable of maintaining 22°C and 50% relative humidity with a full passenger load and outside temperature of 35°C and 60% humidity.