



ABM's  
**DIY**  
@Home

Aluminium - Composite GRP - Timber/Ply

## BMD's **Broadwater 5.1 Family Half Cab**

Words, renderings and unabashed enthusiasm by  
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**F**or those who love to fish, dive, or simply want a family cruising boat with a cabin that offers a snug place to get out of the sun, rain, wind or cold and yet still be on the water, the Broadwater 5.1 is a compact cabin boat design capable of filling many needs.

This new design is a very simple and approachable powerboat design, capable of being the perfect companion to adventures on the water.

Originally designed for bay and open water use, I think she would fit in just about anywhere. The Broadwater 5.1 requirements were simple: She had to be a fast and responsive cabin boat, that would allow comfortable cruising whilst out and about, whether it be fishing or simply a family's day outing out on the water. With a large forward cabin of over 1.52m (5ft) in length, with wide cabin seating throughout to stretch out and relax, it has large storage lockers, loads of headroom (1.38m) and room to fit a toilet.

The Broadwater 5.1 has a large helm station for

a boat of this size, providing ample room for all those favorite electronic toys and also an area of the boat that provides excellent visibility, control and shelter. With large storage lockers within the helm station for all those personal valuable items that one carries when out and about, the helm station within the Broadwater 5.1 is designed for easy reaching and putting you in control.

Behind the helm station, the Broadwater 5.1 with a large cockpit and wide side decks for rod holders and grab rails, she also has side pockets and large lockers aft with a ton of space in the rear lockers for a flush mounted live bait well, bait board, batteries and more. It also has a walk-thru transom arrangement leading to a large rear deck for swimming or simply climbing on and off the boat. If you decide to keep her on a mooring, the cockpit deck is self-bailing with the sole being approx 75mm (3 inches) above the loaded waterline.

Also there is 685mm (27 inches) of height from the cockpit sole to the top of the side decks, which means you'll have heaps of support to lean against when grappling that big snapper or even more important, keeping the kids aboard.

The hull design concept involves a fine entry, long flat buttocks, a variable deadrise throughout and a deadrise at the transom of 15 degrees. This, in combination with her chine flats and running strakes to produce lift and reducing drag, prevents squatting and provides a smooth ride as she slices through the waves. So with this in mind, the recommended power can be up to a 90 horsepower outboard, but keep in mind this hull does not need a lot of horsepower to be driven economically at a good speed over the water.

Under the sole, she also has a 100 litre Sant Marine survey standard poly fuel tank, giving you the capability, time and flexibility to do more boating, fishing and having a lot of family fun on the water. With a 70-90 hp outboard hung of the back, the power to weight ratio of the Broadwater 5.1 will deliver outstanding range too, meaning you can cruise further and faster with better fuel economy. This maximizes your time aboard – providing more options for any given trip, the ability to go further and keep more money in your pocket.

All this, and we haven't even touched on the pride that comes from building your own boat.

### Construction Method

As for the Broadwater 5.1 construction, we've taken the same high-tech boat building techniques used for the rest of our designs and incorporated them here.

The construction is epoxy-fibreglass-plywood composite, a system designed for efficient and fast building. To put it another way, the hull material is

