

HANSE 400 CONSTRUCTION DETAILS

Hanse hulls are molded at a facility in Szczecin, Poland and completed at the Baltic coast facility in Greifswald, Germany. More than 500 boats are built each year.

HULL: The hull comes in two styles of construction, the higher-tech option being an epoxy prepreg laminate cured under vacuum pressure. Epoxy resin is the gold standard of thermoset resins, providing better adhesion and elasticity, as well as more resistance to hydrolysis and other deterioration caused by water intrusion. Vacuum bonding the Corecell core material is a big plus, and Hanse's epoxy option hull is the same approach to boatbuilding used by top-of-the-line custom builders.

DECK: Like the hull, the deck is Corecell laminate with solid laminate in all areas of deck penetration. The builder adds an FRP grid or strongback to the Corecell hull and tabs in all bulkheads, better link the hull and deck elements.

HULL-DECK JOINT: The hull-deck joint is made using Plexus adhesive between the deck and the hull's inward-turning flange.

SPARS AND RIGGING: A massive stainless steel compression post transfers the rig loads from the deck to the hull skin, and the welded elements of this structure are exemplary. Anchors for the chainplate tie-rods are bonded to the hull skin and the core is in-filled with solid glass where this attachment occurs.

KEEL AND RUDDER: The iron keel with lead bulb and stainless steel keel bolts are a well-engineered choice of materials, and thanks to modern epoxy coatings, rust problems associated with the iron will be greatly diminished. The rudder is a foam FRP blade, and the tapered aluminum stock has been well-designed and constructed, but it remains a galvanically active metal, and this is a concern. As with the corrosion-vulnerable aluminum sail drive, a wise owner will check sacrificial zincs often and pay heed to potential problems such as stray dockside DC current arising from other boats and/or marina wiring.



Tie-rods connect chainplates to massive FRP gussets, transferring rig loads to the hull.

