ABSTRACT

EFFICIENCY COMPARISON OF CONSTRUCTION TRANSVERSE CORRUGATED WATERTIGHT BULKHEAD WITH TRANSVERSE PLANE WATERTIGHT BULKHEAD ON CARGO SPACE TANKER SHIPS 6500 LTDW

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Often a shipyard in the design and manufacture of new vessels or the reduction of excess weight construction ships. It also affects the result of cost required for the development process. So to reduce the cost is too high can be done by the use of more efficient equipment. Then it could be done by reducing material cost, by improving the design quality, cheaper material and minimize waste material. Along with the technological developments in the field of construction, design and material selection is something that is considered by the company's shipyards in the design and manufacture of new vessels. One was the use of transverse corrugated watertight bulkhead and transverse plane watertight bulkhead

Selection of cargo space bulkhead that will be used to do with calculation based on the principal dimension same ship with reference to the regulation of BKI (Biro Klasifikasi Indonesia). In this study, the authors analyze the efficiency of the use of corrugated transverse watertight bulkhead compared with transverse plane watertight bulkhead on the building of tanker ship 6500 LTDW in PT. Dok dan Perkapalan Surabaya

From the analysis showed that among the two partitions have advantages and disadvantages of each. With a weight difference of 2.083 tons of corrugated transverse bulkhead impermeable weighs more than the tight transverse bulkhead berpenegar. In terms of production, corrugated transverse bulkhead impermeable less efficient, but takes a long bulkhead production also requires a large production cost that is equal Rp132,990,262, compared to the cost-tight transverse bulkhead which requires only the production cost of Rp 98,754,877. Impervious corrugated transverse bulkhead only superior in terms of the process of painting and clining. So in general it can be concluded that the plane transverse watertight Bulkhead is more efficient than the corrugated transverse watertight Bulkhead if used on tanker ships LTDW 6500 on PT. Dok Dan Perkapalan Surabaya (Persero).

Key Words : Tranverse corrugated bulkhead, transverse plane bulkhead