

## UNDERSIDE OF SECOND DECK AND THIRD DECK.

White Pine grounds 2" x 6" to be bolted to sides of channel beams to give a depth of 10½" of granulated cork which is to be tightly packed and retained with one 1" thickness of planed T & G boards, which are to be firmly nailed to the grounds.

## SHIP'S SIDES.

White Pine grounds 2" x 6" to be bolted to frames to give a thickness of 10½" of granulated cork which is to be tightly packed and retained by one thickness of 1¼" White planed T & G boards which are to be securely nailed to the grounds.

## BULKHEAD 135, UPPER & LOWER TWEEN DECK.

White Pine grounds 2" x 9" to be bolted to lugs to give a space of 10" which is to be tightly packed with granulated cork retained by single lining of 1¼" planed T & G boards securely nailed to the grounds. *Boundary Bulkhead of 1½" T & G to be erected at Frame 135 in Upper Tween Deck only.*

## BULKHEAD 110 IN UPPER TWEEN DECK. *Double linings with waterproof paper between to be fitted.*

White Pine grounds 2" x 6" to be bolted to stiffeners on aft side and to lugs on fwd side. 6" space to be tightly packed with granulated cork retained with 1¼" planed T & G boards securely nailed to the grounds.

## BULKHEAD 105, UPPER & LOWER TWEEN DECK.

White Pine grounds 2" x 9" to be bolted to lugs to give 10" space which is to be tightly packed with granulated cork and retained with 1¼" planed T & G boards securely nailed to the grounds.

## FORE & AFT ATHWARTSHIP INTERIOR BULKHEADS. *Upper Tween deck to have double linings on outside with waterproof paper between.*

2" x 9" deck cant to be laid and secured to deck with deck bolts. 2½" x 9" White Pine grounds in way of hatches and 2" x 9" White Pine grounds clear of hatches to be fitted vertically from deck to deck at 2'6" spaces. On the hatch side, a wooden bulkhead to be erected with 1½" planed T & G boards. The space between the grounds to be tightly packed with granulated cork and retained on the inside with 1¼" White planed T & G boards securely nailed to the grounds. *Double linings on outside with waterproof paper between to be fitted.*

## INTERIOR BULKHEADS IN AIR COOLERS.

2" x 3" deck cant to be laid to deck firmly secured, and 2" x 5" White Pine grounds to be fitted vertically, 2'6" centres. Grounds to be lined each side with 1¼" planed T & G boards securely nailed to the grounds and the 3" space tightly packed with granulated cork.

## FAN CONTROLLER ROOM. *Double linings adjoining general cargo space with waterproof paper between.*

Wooden bulkhead to be erected forming enclosure for this room and constructed with 1½" White Pine T & G boards. Insulated bulkheads to be erected to enclose air cooler for Lower Tween Deck centre compartment. Grounds 2" x 9" White Pine to be erected spaced 2'6" centres, lined inside and out with 1¼" planed T & G boards, 9" space tightly packed with granulated cork.



BRINE ROOM.

Underside of Upper Deck to be insulated similarly to that previously described. Wooden bulkheads to be erected as previously described forming enclosure for this room and these bulkheads to be insulated with 10" of granulated cork and retained with  $1\frac{1}{4}$ " T & G boards. Base of brine pumps to be insulated. Insulation on second deck to consist of 8" of compressed cork slab overlaid with  $1\frac{1}{4}$ " asphalt with 6" coving and gratings.

DECK GIRDERS.

Where passing through insulated compartments to be efficiently cased in and insulated.

VENTILATOR TUBES.

Where passing through Lower Tween Deck to be grounded with White Pine sweeps to give a space of 8" which is to be tightly packed with granulated cork, retained with  $1\frac{1}{4}$ " circular T & G boarding. Galvanised bands  $2\frac{1}{2}$ " x  $\frac{1}{4}$ " thick to be fitted 2'6" apart in height.

AIR TRUNKS.

Air delivery and suction trunks to be erected at ship's sides and fore and aft bulkheads. To be constructed with  $1\frac{1}{4}$ " T & G boarding firmly secured to deck cant and overhead runner. These trunks to be firmly supported from ship's side insulation with tapered chocks to the required depth. Holes cut in trunks as required for air circulation. Air trunks to have a sliding ~~circulation~~ section in way of insulated doors. Openings in steel deck cased in with  $1\frac{1}{4}$ " T & G boards and double lined hinged flaps made and fitted.

INSULATED DOORS.

Four insulated doors to be fitted in way of No. 2. hatchway in Upper Tween Deck, and five insulated doors to be fitted in No. 2. Lower Tween Deck. To be strongly framed in Pitch Pine and hung on heavy galvanised adjustable ballbearing hinges and fitted with patent double-acting fasteners, hasps, staples and padlocks. Insulated doors also to be fitted to air cooler rooms and brine room as indicated.

BATTENS.

Decks to have battens fore and aft and athwartships with air space between.

THERMOMETER TUBES.

Galvanised iron pipe  $2\frac{1}{2}$ " internal diameter to be fitted to tween decks - 3 port and 3 starboard in Upper Tween Deck, 3 port and 3 starboard in Lower Tween Deck, and one in centre compartment.

Thermometer tubes passing through Upper Tween Deck serving Lower Tween Deck to be cased in and insulated.

VARNISHING.

All woodwork to be finally coated with two coats of best insulation varnish.

All insulation to be ratproofed with 24 G. galvanised sheet iron tacked to insulation as instructed.

*The remaining requirements of the Rules for Refrigerating Machinery & Appliances to be complied with so far as they are applicable.*

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