









# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.  |                       |                      |  |   |   |   |   |   |   |  |
|---|-----------------------|----------------------|--|---|---|---|---|---|---|--|
|   |                       | Freeboard deck       |  |   |   | Poop front  | Freeboard deck  |   | F'cle deck  |  |
|   |                       | (45) Cargo oil tanks | (2) Nos. 5 wing b.w. tanks                                 | (4) Nos. 1 & 2 wing dry tanks                       | (4) Main coffer-dams.                               | (2) Wing bunker tanks (p&s)                         | (2) Cross bunker tanks (p&s)                              | Within f'cle to hold                                  | Within f'cle to store                               | To f'cle Tw.Dk.  |
| Description of Hatchway   |                       | ...                  | ...  | ...   | ...   | ...   | ...   | ...   | ...   | To hold  |
| Dimensions of Hatchway  |                       | ...                  | ...  | ...   | ...   | ...   | ...   | ...   | ...   | ...  |
| COAMINGS  | Height above Deck     | ...                  | 762 mm.  | ...   | 610mm.  | 610mm.  | 610mm.  | 230mm.  | 230mm.  | 610mm.   |
|   | Thickness             | ...                  | 12.5   | ...   | 11.0  | 12.5  | 12.0  | 11.0  | 11.0  | 11.0   |
|   | Sides                 | ...                  | -  | -   | -   | -   | -   | -   | -   | -  |
|   | Ends                  | ...                  | -  | -   | -   | -   | -   | -   | -   | -  |
| HATCH BEAMS   | Number                | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Spacing               | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Scantling and Sketch  | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Bearing Surface       | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
| FORE AND AFTERS   | Number                | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Spacing               | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Unsupported Lengths   | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
|   | Scantling* and Sketch | ...                  | /  | /   | /   | /   | /   | /   | /   | /  |
| HATCH COVERS  | Material              | ...                  | Domed aluminium alloy                                      | Dom.al.alloy  | Dom.al.alloy  | Dom.al.alloy  | Steel   | Steel   | Steel   | Steel  |
|   | Thickness             | ...                  | 12.5   | 12.5  | 12.5  | 12.5  | 10.0  | 9.5   | 9.5   | 10.0 & 255x20  |
|   | How fitted            | ...                  | Hinged O.T. & secured by 8 toggles, spaced approx. 500 mm. | Hinged O.T. secured by 4 toggles spaced approx. 500 | Hinged O.T. secured by 6 toggles spaced approx. 450 | Hinged O.T. secured by 4 toggles spaced approx. 500 | Hinged W.T. secured by 4 toggles spaced approx. 400 & 500 | Hinged W.T. secured by 8 toggles spaced approx. 580mm | Hinged W.T. secured by 7 toggles spaced approx. 440 | circumf. plate. Hinged W.T. secured by 5 toggles spaced approx. 440  |
|   | Bearing Surface       | ...                  | 500 mm.  | 500 mm.   | 500 mm.   | 500 mm.   | 500 mm.   | 500 mm.   | 500 mm.   | 255x20 I.A. stiff. longitudinally 3-Intd.gdis. 12mm.th. with cont. face plis. 150x12 hinged W.T. & secured by toggles spd. 530 mm. |
| Spacing of Cleats   |                       | ...                  | -  | -   | -   | -   | -   | -   | -   | -  |
| Number of Tarpaulins...   |                       | ...                  | -  | -   | -   | -   | -   | -   | -   | -  |
| <p>*Are wood fore and afters steel shod at all bearing surfaces?</p> <p>Are battens and wedges efficient and in good condition?</p> <p>Are tarpaulins in good condition and in accordance with rule requirements?</p> <p>Are lashings provided in accordance with rule requirements?</p> <p>Are wood covers fitted with galvanised end bands?</p> |                       |                      |  |   |   |   |   |   |   |  |

Particulars of any special features:— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

Butterworth openings in freeboard deck. (excluded in Nos. 1, 2 and 5 wing dry & B.W. tanks)

160 openings 317.5 mm. diameter reinforced with doublings 635 x 36 mm. thick, (additional under deck doublings 500x38 mm. thick on 89 openings).

Bronze cover plates 457 x 16 mm. thick, secured by 10 - 3/4" stainless steel studs and brass nuts, union packing fitted.

Pump room skylight.

On poop deck over pump room, 1850 x 1524 x 260 mm. high (to sill of flaps) & 10 mm. thick. Hinged steel W.T. flaps (4 off) with 2 - 10" x 12.5 mm. wire reinforced glasses in each flap. Flaps fitted with ratchet & worm arrangement, geared together and operated from poop deck by handwheel arrangement.

