

Shackles.

99. The safe-working load for any shackle shall be the maximum working load for the shackle-pin or the shackle-iron whichever is less.

Straight-sided Shackles.

100. (a) The safe-working loads for shackle-iron of straight-sided shackles shall be those set out in Table No. 14 in the Third Schedule hereto.

(b) The safe-working loads for shackle-pins shall be those set out in Table No. 15 in the Third Schedule hereto.

(c) Alternatively the safe-working load for shackle-iron or shackle-pin may be computed in the manner set out and described in Table No. 16 of the Third Schedule hereto.

Bow Shackles.

101. (a) The safe-working loads for the iron of bow shackles shall be computed as set out and described in Table No. 17 in the Third Schedule hereto.

(b) The safe-working loads for shackle-pins shall be those set out in Table No. 15 in the Third Schedule hereto.

102. Notwithstanding anything in Regulations 99, 100, and 101 hereof, where a shackle is made of special material or special design, or is to be used under conditions different from the ordinary conditions of service, the safe-working load thereof shall be such as is fixed by the Chief Surveyor of Ships.

Swivels.

103. The safe-working loads for swivels shall be those set out in Table No. 18 in the Third Schedule hereto.

Hooks.

104. The safe-working load for hooks of ordinary proportions shall be a weight in tons equal to the sectional area in square inches of the back of the curved portion of the hook or two and a half times a weight in tons equal to the least sectional area in square inches of the shank of the hook, whichever is less.

105. Nevertheless, where by reason of their proportions a greater safe-working load is claimed, or where dimensions and materials for hooks have been standardized, the safe-working loads thereof shall be such as are fixed by the Chief Surveyor of Ships by calculation from the dimensions of the hook or by testing or by both such methods, and for that purpose the Chief Surveyor of Ships may require one hook of each size for which the load is to be determined to be tested by a gradually increasing load up to its elastic limit or to destruction.

Wire Ropes.

106. The safe-working loads for wire ropes shall be those set out under the heading "Working Load" in Tables No. 19 to No. 34 (inclusive) of the Third Schedule hereto according to the material, dimensions, construction, quality, and manner of use of the wire rope as set out in the said tables.

107. Notwithstanding anything herein contained, no greater weight shall be put on a wire-rope whip of any dimensions when attached to a ship's gear than—

(a) 6 tons in the case of a double-wire rope whip with the hauling end taken to a position on the mast not lower than the position of the attachment of the derrick span to the mast; or

(b) 5 tons in any other case of a double-wire whip; or

(c) 2 tons 12 cwt. in the case of a single-wire whip:

Provided that this application shall not apply to wire ropes belonging to a Harbour Board crane or wharf crane.

Fibre Ropes.

108. (a) The safe-working loads for fibre ropes shall be those set out under the heading "Working Load" in Table No. 35 to No. 40 (inclusive) of the Third Schedule hereto according to the grade, dimensions, and manner of use of the rope as set out in the said tables.

(b) Nevertheless, no greater load shall be put on a single-fibre rope yardarm than 1 ton 2 cwt.

Blocks.

109. The safe-working loads for single-sheave blocks shall be such that the calculated stress on any part of the block due to the steady lifting of the load neglecting friction shall not exceed one-fifth of the calculated breaking load of the material of that part.