MR CRADOCK'S MEASUREMENTS OF MERCHANT SHIPPING,

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. Number of flush or fore-and-aft decks, . . . . . ,**  **3. Girth of greatest transverse section, under false keel, up to under surface of upper deck or first ∣ principal deck above water, . . . . . )** | | | | ***Dnnira,* East India Ship.** | ***ditto.* East India**  **Ship.** | ***∕talrmrτa,* Free Trader.** | ***duexandcr,* Free Trader.** | | **1 s**  **3** |
| **Three. 1378 Feet.**  **83\*16** | **Three.**  **1013 Feet.**  **74\*08** | **Two.**  **602 Feet.**  **71\*25** | **Two.**  **523**  **Feet.**  **68\*5** | |
| **4. Girth of the greatest transverse section, under the false keel upper or weather deck, .....** | | | **up to the under surface of the »** | **96\*66** | **87’66** | **7∣-25** | **68\*5** | | **4** |
|  |  |  |  | **PortsilL** | **Portsill.** | **Portsill.** | **Portsill.** | |  |
|  |  |  | **f At the side** | **1\*8** | **1 66** | **1\*91** | **1\*41** | **1** |  |
| **5. Height of gunwale, or portsill, above the undersurface of the upper or weather dcck,<** | | | |  |  |  |  | **5** |
|  |  |  | **t Amidships clow the upper or ( At the side** | **o-s8 :** | **∣∙23** | **1\*5** | **1\*08 )** | |  |
| **6. Height of portsill above the under surface of the deck, next** | | | **225** | **2\*25** | **3\*91** | ***3\*75*** | **I** |  |
| **weather deck, .** |  |  | **( Amidships e upper or weather i Forward** | **175** | **1’91** | **3M** | **354** | **1** |  |
| **7. Vertical distance, at the side, between the under surfaces of th** | | | **6⅛** | **6\*56** | **6 79** | **7\*41** | **!** |  |
| **deck, and the deck or half deck next below it.** |  |  | **i Aft** | **6\*62** | **6 71** | **6\*79** | **7\*5** | **1** |  |
| **8. Vertical distance, at the side, between the under surfaces of the gun-deck and of the j 1∙ orward** | | | | **6∙H3** | **6\*37** |  | **1** | | **β** |
| **deck next below it.** |  |  | **(Aft** | 6\*h3 | **6\*5** |  | ***i*** | |
| **9. vertical distance, at the side, between the under surfaces of the** | | | **lower deck and the ( Forward** | **-≡** | **—** | **4\*75** | **i** | | **9** |
| **platforms below it, . ∙ ∙** |  |  | **( Alt** |  | **—** | **3\*12** | **6\*58 *i*** | |
| **10. Perpendicular depth, abreast the pump-well, from the under surface of the upper deck, or the )**  **first principal deck above the water, to the ceiling at the inner edge of the limber-strake. ∣**  **11. Length round outside of ship, at height of under surface of above deck at side, from fore edge of ∣** | | | | **23’91** | **21\*83** | **21∙,J6** |  | **10** |
| **2216** |  |
|  |  |  |  |
| **rabbet of stem, to intersection *of* an athwart-ship line from after edge υt rabbet of post, or >** | | | | **—** | **—-** |  |  | | **11** |
| **rabbet produced, with curve-line, or curve-line produced,** | | |  |  |  |  |  | |  |
| **12. Half extreme breadth at the under surface of the upper or weather deck.** | | | | **20\*83** | **17\*91** | **15\*53** | **15\*16** | | **12** |
| **13. Half extreme breadth at the under surface of the first principal deck above the water, .** | | | | **21 6** | **19 64** | **15\*53** | **Ib-∣6** | | **13** |
| **14. Half extreme breadth, at whatever height, to the outside of the main wale∙<,** | | | | **22 0** | **19\*87** | **16\*2** | **15-29** | | **14** |
| **15. Length amidships of the orlop or lower deck, from the inside of the stem to the inside of the ( stern-post, . . . . . . . . . . J** | | | | **161’25** | **145-08** | **122\*33** | **117\*0** | | **15** |
| **16. Length amidships of the first principal deck above the water, from the inside of the stem to> th∣i ∣r∣Mtie of the stern-post, . . . . . . . . *. f*** | | | | **162\*5** | **146\*75** | **134\*16** | **11934** | | **16.** |
| **17. Length amidships of the upper or weather deck, from the inside of the stem to the inside of) the stern-post, ∫** | | | | **163-5** | **1475** | **124\*16** | **119\*34** | | **17** |
| **18. Length on the water-line, from the after part of the stern-post to the foreside of the stem,**  **19. Length on the water-line, from the after edge of the rabbet of the stern-post to the fore edge-l**  **of the rabbet of the stem, . . . . . . . . . ∫** | | | | **165\*0** | **150'09** | **126'83** | **121\*41** | | **18** |
| **162\*75** | **147-58** | **»12** | **119\*91** | | **19** |
| **20. Length amidships of the platform«, or half-decks, below the** | | **< Forward ....** | |  |  | **6\*5** | **- )** | | **20.** |
| **lower deck, from the inside of the stem or stern-post.** | | **(Λft** | |  |  | **22\*25** | **17\*5 -,** | |
| **21. Length amidships of the platforms, or half-dec ks, below the** | | **Forward ....** | |  |  |  | **— )** | | **21.** |
| **upper deck, from the inside of the stem or stern-post,**  **22. Length of the lower deck, taken up for accommodation, and** | | **Aft** | |  |  |  | **)** | |
| **< Forward ....** | |  |  |  | **30\*33 ⅞** | | **22.** |
| **on which no cargo is stowed.** |  | **i Aft** | |  |  | **690** | **53\*16** | **f** |
| **23. Extreme length amidships of the upper or weather deck, from (he inside of the stem to the?** | | | | **170·»** | **156\*0** |  | **23.** |
| **foreside of the counter timbers.** |  |  | **$**  **point of division from forward,** | **129'33** | **124"O** | |
| **24. The length of the upper deck is divided into six equal** | **At first** | | **29\*G6** | **27\*33** | **22\*77** | **22\*21** |  |  |
| **parts, and the vertical depths taken at each of** | **A t second do.** | | | **30 25** | **27\*91** | **22\*37** | **22 08** |  |  |
| **these points of divis'on, from the under surface of** | **At third do. . .** | | | **30-66** | **28\*33** | **22\*16** | **21 96** |  | **24.** |
| **the upper deck to a point on the ceiling a; the** | **At tourth αo.** | | | **30\*5** | **28\*33** | **22\*08** | **21 9** |  |  |
| **inner edge of the limber-strake.** | **At fifth** | | **de** | **2908** | **25\*25** | **21\*6\*2** | **20 96** |  |  |
| **25 The vertical depth at the first point of division of the** | **At the under surface of deck,** | | | **18 43** | **16\*04** | **14\*03** | **13\*5** |  |  |
| **deck from iorward Is divided into five equal part\*, and the internal half-breadth» taken at the tinder** | **At first** | | **point of division below it.** | **18\*87** | **16’75** | **14-36** | **13’56** |  |  |
| **At second oo.** | | | **18-83** | **17\*33** | **14'21** | **13\*29** |  | **25.** |
| **surface of the deck, and at each ot these points of** | **At third oo. . . .** | | | **17-87** | **16\*41** | **13\*83** | **12\*87** |  |  |
| **division, . . . . l,Λt fourtα do.** | | | | **15∙5** | **14\*16** | **12\*71** | **11-29** |  |  |
| **26. Halfbreadth at 2∣ feet below the last measurement.** |  |  |  | **13\*37** | **11\*66** | **10\*5** | **8\*87** | | **26.** |
| **27. Do. 1A foot do. do. ,** |  |  | **. .** | **10\*87** | **8-98** |  |  | | **27.** |
| **'2⅛. Do. 1∣ foot do. do.** | **.** |  |  | **6Ί2** |  |  |  | | **2M.** |
| ***'i'J.* Do. 1 foot do. do.** |  |  |  |  |  |  | **6’79** | | **29.** |
|  |  |  | **At the unoer surface of deck** | **19\*21** | **16\*62** | **14 33** | **14\*12 Ί** |  |  |
| **30. The vertical depth at the second point of division of the deck** | | | **At first point of division below it** | **19’75** | **17\*41** | **14\*66** | **14\*08** |  |  |
| **from for ward is divided into five equal parts, and the inter** | | **J** | **At second do.** | **1991** | **17\*79** | **14\*54** | **13\*9** | **.** | **30.** |
| **nal half-breadths taken as before,** |  |  | **At third do. .** | **19 5** | **17\*33** | **14 33** | **13\*58** |  |
| **31. Halfbreadth at 2i feet below the last measurement,** |  |  | **At tourth do.** | **18\*25** | **16\*33** | **13\*83** | **12\*83** |  |  |
|  |  | **.** | **16\*66** | **1504** | **12\*62** | **11\*41** |  | **31.** |
| **32. Do. 1⅜ foot do. do.** |  |  |  | **1475** | **1373** |  | **32.** |
| **33. Do. 1⅜ foot do. do.** |  |  |  | **10\*08** |  |  | | **33.** |
| **34. Do. 1 foot do. do.** |  |  | **• . , . .** |  |  |  |  | | **34** |
|  |  |  | **A t the under surface of deck** | **19-37** | **16\*75** | **14 42** | **13\*96** |  |  |
| **35. Γhc vortical depth at the third point of division of the deck** | | | **At first point of division below it** | **19-79** | **17\*37** | **14\*74** | **13\*87** |  |  |
| **from terward is divided into five equal parts, and the in-** | |  | **At second do.** | **200** | **17\*96** | **14\*54** | **13\*71** |  | **35.** |
| **ternal half-breadths taken as betöre,** |  |  | **At third do. .** | **19\*5** | **17\*41** | **14\*33** | **13\*54** |  |
| **36. Half breadth at 2 J feet below the last measurement.** |  |  | **At fourth do.** | **18 04** | **16\*25** | **13\*75** | **12\*62** |  |  |
|  |  |  | **16\*41** | **14 87** | **12\*37** | **11\*04** | **36.** | |
| **37∙ Do. 1 j foot do. do.** |  |  | **• \* .** | **14\*46** | **13\*25** | **ST.** | |
| **38. Do. 1⅛ foot do. do.** |  |  |  | **10\*5** |  |  | | **3H.** |
| **39. Do. 1 foot do. do.** |  |  |  |  |  |  |  | | **39.** |
|  |  |  | **( At the under surface of deck** | **18 62** | **1G∙\*25** | **14\*0** | **13 14** |  |
| **40. The vertical depth at the fourth point of division of the deck** | | | **At first point of division below it** | **19 25** | **17\*0** | **i4∙aa** | **13\*14** |  |  |
| **from forward is divided into five equal parts, and the in** | |  | **At second αo. .** | **19\*25** | **17\*M** | **14\*29** | **ι\*υ<M** |  | **40.** |
| **ternal half-breadths taken as betöre.** |  |  | **At third do.** | **16\*66** | **16\*79** | **14∙13** | **12 87** | |
| **41. Halfbreadth at 2⅜ feet below the last measurement.** |  |  | **∣ At fourth do. .** | **16 75** | **14\*37** | **13\*37** | **11∙29 *J*** | |  |
|  |  | **. ∙** | **14 43** | **11\*41** | **11\*79** | **8\*75** | | **4L** |
| **42. Do. 1⅛ foot do. do.** |  |  | **• . .** | **12\*16** | **8\*71** |  |  | | **42** |
| **43. Do. lj foot do. do.** |  |  | **.** | **7∙33** |  |  | |  |
| **14. Do. 1 foot do. do.** |  |  |  |  |  |  |  | | **44.**  **45.** |
| **45. Do. 6 inches do. do.** |  |  | **Γ At the under surface of the deck** |  |  |  | **Ml** | |
|  |  |  | **16\*83** | **14\*25** | **13-12** | **11\*48** |  |
| **46. The vertical depth at the fifth point of division of the deck from** | | | **At first point of division below it** | **17’29** | **14\*5** | **13\*5** | **11\*71** |  |  |
| **Iorward is divided mtofive equal parts, and the internal half-** | | | **At second do.** | **17\*25** | **15\*33** | **13\*35** | **11\*66** |  | **46.** |
| **breadths taken as before,** |  |  | **At third do.** | **14⅛7** | **13\*33** | **12\*16** | **10\*33** |  |
| **47. Halfbreadth at 2Z feet below the last measurement,**  **48. Do. I∣ foot do. do.** | **•** |  | **At fourth do.** | **8\*75**  **3.71**  **404** | **7∙ft8**  **3\*91**  **2\*37** | **8\*25**  **5\*62**  **3\*73** | **6 12**  **3\*16** |  | **17.** |
| **49. Do. 1 toot do. do.** |  |  |  |  |  |  |  | | **49.** |
|  |  | **At first vertical depth from forward At second do.** | | **1\*66** | **1\*58** | **1\*M** | **1\*91** |  |
| **50. Half breadth to the inside of the limber-strake, or the dis-** | | **1 66** | **1-66** | **,'62** | **I∙2S** |  |  |
| **tances from the middle line at each point of dirision of√** | | **At third do.** | | **1\*66** | **1\*66** |  | **1 9-5** |  | **60.** |
| **the deck at which the vertical depths are taken,** |  | **At fourth do.** | | **1 66** | **1\*66** | **1-62** | **Γ25** |  |
|  |  | **LAt fifth do.**  **Αt first point of division below deck** | | **∣-58** | **1\*58** | **1\*54** | **Γ21**  **118\*58** |  |  |
|  |  | **∣64∙25** | **130\*ft3** | **1 r,s⅞** |  |  |
| **51. 1 he length of the ship is taken amidships, from the inside of** | | **At second do.** | | **161∙ft** | **143\*16** | **120\*5** | **116-91** |  |  |
| **the stem to the inside of the stern-post (or front of tran­soms), at the height of each of the four points of divιs.αn** | |  |  |  |  |
| **At third do.** | | **156\*5** | **138\*75** | **117\*75**  **A bout** | **llfi\*lUl** |  | **51.** |
| **of the middle or third vertical depth from forward,** |  |  |  | **About** |  |  |
|  |  | **k-At fourth do.** | | **147 25** | **ito∙o** | **112 5** | **113\*63** |  |  |