





## PILLARS AND DECKS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.				INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows .....			✓			Stringer Plate, breadth and thickness in way of Bridge .....			✓		
,, in 'tween Decks, Size and Spacing .....			✓			Thickness of Plating abreast Deck openings <del>in way of Wells</del> .....		2	✓		
,, " " " " " " .....			✓			Thickness of Plating abreast Deck openings in way of Bridge.....			✓		
,, in Holds " " " " .....			✓			Thickness of Plating within line of openings...		3.4	✓		
,, " " " " " " .....			✓			If Sheathed, material and thickness.....			✓		
Centre Line Bulkhead. Stiffeners and Spacing .....		12 x 32 x 32 x 4.55		✓	✓	Third Deck. Stringer Plate, breadth and thickness.....			✓		
Plating, thickness of .....		5 x 32 x 32 L		✓	✓	If Plated, state thickness .....					
STRINGERS AND DECKS.						Fourth Deck. Stringer Plate, breadth and thickness.....			✓		
Uppermost Continuous Deck.						If Plated, state thickness.....					
Stringer Plate, breadth and thickness in Wells .....		65 1/2 x 65 1/2		✓	✓	Poop Deck. Stringer Plate, breadth and thickness.....			✓		
,, " " " " in way of Bridge .....						Plating, Sheathing, material and thickness ...					
,, Angle in Wells .....		6 x 6 x 60		✓	✓	Bridge Deck. Stringer Plate, breadth and thickness.....			✓		
Thickness of Plating abreast Deck openings <del>in way of Wells</del> .....		55		✓	✓	Plating, Sheathing, material and thickness ...					
Thickness of Plating abreast Deck openings <del>in way of Bridge</del> .....		60		✓	✓	Forecastle Deck. Stringer Plate, breadth and thickness.....		36	✓		
Thickness of Plating within line of openings...		40		✓	✓	Plating, Sheathing, material and thickness ...					
If Sheathed, material and thickness.....				✓	✓	Plating, Sheathing, material and thickness...		32	✓	(unsheathed)	✓
Second Deck. Stringer Plate, breadth and thickness in Wells .....		82 1/2 x 38		✓	✓						

## SHELL PLATING.

SCANTLINGS.					RIVETING. (Am. & S. S.)								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. 10.			BUTTS. <i>approved, let with EMPIRE STANDARD</i>				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAINED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.			
Flat Plate Keel.....	54	50	40	40		Double	7/8	3 1/2	Three	7/8	4	<i>Double string welding all round.</i>	
„ Dblg. (if any)	✓												
Bottom Plating, No. of Strakes ..... 7.	A.C.D.	65	50	50		Double	7/8	3 1/2	Quad	7/8	3 1/2	<i>A.B.G. Lapped 0. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693</i>	

WATERTIGHT BULKHEADS. <sup>5</sup> for record

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) *Collins A/S*

„ Deck next below *6.*

As per Rule *4.*

*(6) Divisional W.T. Bulkheads in Tween Decks. Intact except as under*  
*W.T. doors (PSS) in B/Hed 1st.*  
*Insulated plug doors (PSS) in B/Hed 10g.*

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....				
STEM .....	<i>Rolled steel</i>	<i>10 x 3 1/2</i>	<i>Steel plates.</i>	
STERN FRAME	{ Propeller Post { Rudder	<i>Fabricated as per approved plans</i>	<i>Columbia</i>	<i>Longtin shown to us.</i>
Speed of Vessel .....		<i>under 12 knots</i>		
RUDDER—Type .....		<i>Steam lined</i>		
" A x D .....		<i>57 1/2</i>		
" Diam. of head .....		<i>11 3/4</i>		
" Mainpiece at top pintle	{ Fabricated as per approved plans		<i>Columbia</i>	<i>Longtin shown to us</i>
" " heel .....				
" how constructed .....				
" double or single plate coupling, vertical or horizontal .....		<i>double vertical</i>		

		Plating Thickness.	STIFFENERS.				
			VERTICAL.		HORIZONTAL.		
			Scantlings.	Spacing.	Scantlings.	Spacing.	
14, 34, 58, 87, 109, 139, 136.							
MIDSHIP BULKH'D, Upper 'tween decks		26	5 x 3 x 42 L	30"	-	-	
"	Second	-					
"	Third	-					
"	Holds 109	48 - 26	12 x 50 x 12 x 50 C	30"	-	-	
COLLISION (in Hold) 161		53 - 29	10 x 32 x 42 B	24"	4 x 4 Plating	25 B. Beams.	
AFTER PEAK 9		48 - 30	9 x 32 x 38 B	24"	35 B. Beams.	Transverse Rivets.	

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *at this port* *Open Market*  
*Arthur Long - Appleby Forging - Smith Durham Steel & Iron Co - Cargo flat.*  
*Skinner's Iron Co - Calcutta. - Rains the*  
*Yes.*

Has the Steel been tested as required by the Rules? *Yes.*



EQUIPMENT No. 40082-75										LETTER 27										ANCHORS.									
Number of Certificate.		Anchors.		WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.			Description of Anchor.			Makers.			Where and when tested, and Superintendent.							
55444		1st Bower		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	68	Steeless.	J. Green & Co.	C.H.	20/1/13.	1000							
55445		2nd "		69	1	9	-	-	-	53	4	2	0	68			68	do.	do.	C.H.	20/1/13.	1000							
25531		3rd "												68 1/2															
		Collective weight												19 1/2															
		Stream		19	3	4	5	0	2					19				Rodgers.		L.W.	24/1/13.	Green.							
CHAIN CABLES.															HAWSERS AND WARPS.														
Number of Certificate.		Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.		Description.		Makers of Cables.		Where and when tested, and Superintendent.		Material.		Length and Size supplied.		Breaking Test of Steel Wire.		Length and Size per Table 53.						
		Length.	Diam.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.									Fathoms.	Ins.	Tons.	Fathoms.	Ins.					
3226		120	2 1/4	96.5	14.75	321	-	3.0	720	3.0	240	2 1/4	Steel	H. Hingley & Co.	N	30/1/13.	Ref.	TOWLINE	120	4 1/4	646	120	4 1/4						
3224		105	2 1/4	96.5	14.75	281	-	1.14				do	do.	N	30/1/13.	Ref.	HAWSERS & WARPS	2-90	2 1/4	15.4	2-90	2 1/4							
Stream		90	5			528					90	5																	
Steel Wire																													
Steering Gear, Type (Power <del>on hand</del> )															Alternative Means of Steering														
Steering Chains (Size and Test)															Windlass														
Ceiling in Holds, thickness and material															Cargo Batches, thickness, material and spacing														
Cargo Hatchways. (Upper Deck)															Thickness of Hatches														
Size of Hatchways No. 1 (Fwd.)															No. 2														
No. 3															No. 4														
No. 5															No. 6														
Number of Shifting Beams and/or Fore and Afters															Builder's Signature														
															GENERAL MANAGER														
GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel																													
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo																													
This vessel has been built in accordance with the approved plans, the Lascar's Letter of various dates, in general conformity with the requirements of the Rules. The materials & workmanship are good. The double bottom tanks, peak & deep tanks have been tested by water pressure & the weather decks, W.T. Bulkheads, tunnel, & passages have been tested as required by the Rules & found satisfactory. The Main & auxiliary steering gear and the windlass have been tried, made good, as the vessel lay at the Builder's Quay & found satisfactory. The vessel is fitted with & directional winches. The pumping arrangements have been tested with satisfactory results. The assigned freeboards have been marked on the vessel sides, verified & entered in the plan. The equipment of anchors & cables has been reduced in accordance with the Emergency Requirements as per Secretary's Letter. Wood hatch covers are not fitted at Nos 1 & 2 hatchways on the 2nd deck. Nos 2, 3 & 4 Stacks & Tunnel decks are insulated for the carriage of refrigerated cargoes. Cargo battens are not fitted in Nos 1, 4 & 5 holds & Tunnel decks.																													
The amount of Entry Fee															Fees applied for,														
Special Survey Fee															Received by me,														
Inspection Expenses, if any															19														
State whether the Vessel has been built under Special Survey															Signature														
Certificate to be sent to															Date of issue														
Committee's Minute																													
Character assigned																													



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Partially fabricated B Type vessel sister to same builders "Empire Farmer, Newcastle  
Report No 101286. excepting that Nos 2, 3 & 5 Halls & Tween decks are insulated  
for the carriage of Refrigerated Cargoes.

Plans.

In London office. excepting Section in way of Stem post  
& Fore end framing enclosed.

Certificates enclosed.

Stem frame.  
Rudder.  
Rudder Chock.

PARTICULARS OF ELECTRIC WELDING (if employed)

Stem frame & rudder. - All metal built of steel & cast iron joints. - Grouted L. Magnesium.  
Shaft Tunnel. - 2nd deck stringer chocks. - Ash floor. Mast & Mast. Looming.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Cruiser stern - Lloyd's A.R.P. - E.S.D. - D.F.

Particulars of Drop Test of  
Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower 44-2-21 + pins - A.E.G. - H474 - 30.10.42.  
2nd " 44-0-14 " - A.E.G. - H532 - 10.11.42.  
3rd " 44-0-14 " - J.H.T. - 5361 - 30.11.42.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop. ft., R.Q.D. ft., Bridge. ft., Forecastle 39.46 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 169169 Signal Letters B.F.G.Q. Extreme Breadth over Belting (Circ. 1611) Over-all Length 446.27' (Circ. 1703)

No. and Material of Decks 2 decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition Double bottom under Boilers, remainder rivet  
heads covered with cement & the work cement washed.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)  
(Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft,	62.0	230	Fore peak tank,	20	143
Double bottom, under Engines and Boilers,			After peak tank,	20	104
Double bottom, under Engines only, (P.W.)	28.42	130	Deep tank, aft,	49.1	341
Double bottom, under Boilers only,	18.08	86	Deep tank, forward,	14.0	248
Double bottom, forward,	209.75	825	Other tanks, if fitted,	-	-
Total length (if continuous) and Capacity	318.25	1241	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 5664

Date 29-6-42

Dates of Surveys  
held while building

1942. July 6. 9. 14. 21. 23. 28. 31. Aug. 13. 21. Sept. 4. 16. Oct. 13. 19. Nov. 9. 26. Dec. 1. 2. 4. 22. 24. 29. 31. 1943. FEB. 2. 11. MAR. 11. 18.  
MAR. 23. 30. APR. 2. 6. 8. 13. 16. 28. MAY. 6. 10. 13. 14. 17. 19. 20. 25. 27. 28. 31. JUNE. 2. 16. 22. 24. 28. 30. JULY. 2. 13. 15. 22. 23.  
AUG. 27. 29. 30. AUG. 3. 11. 17. 19. 20. 21. AUG. 24. 26. SEPT. 2. 13. 10. 14. 16. 21. 23. 28. OCT. 5. 12. 20. 26. 29.

Total No. of Visits 85