

N17503.

MIDSHIP SECTION.

SCALE 1/25.

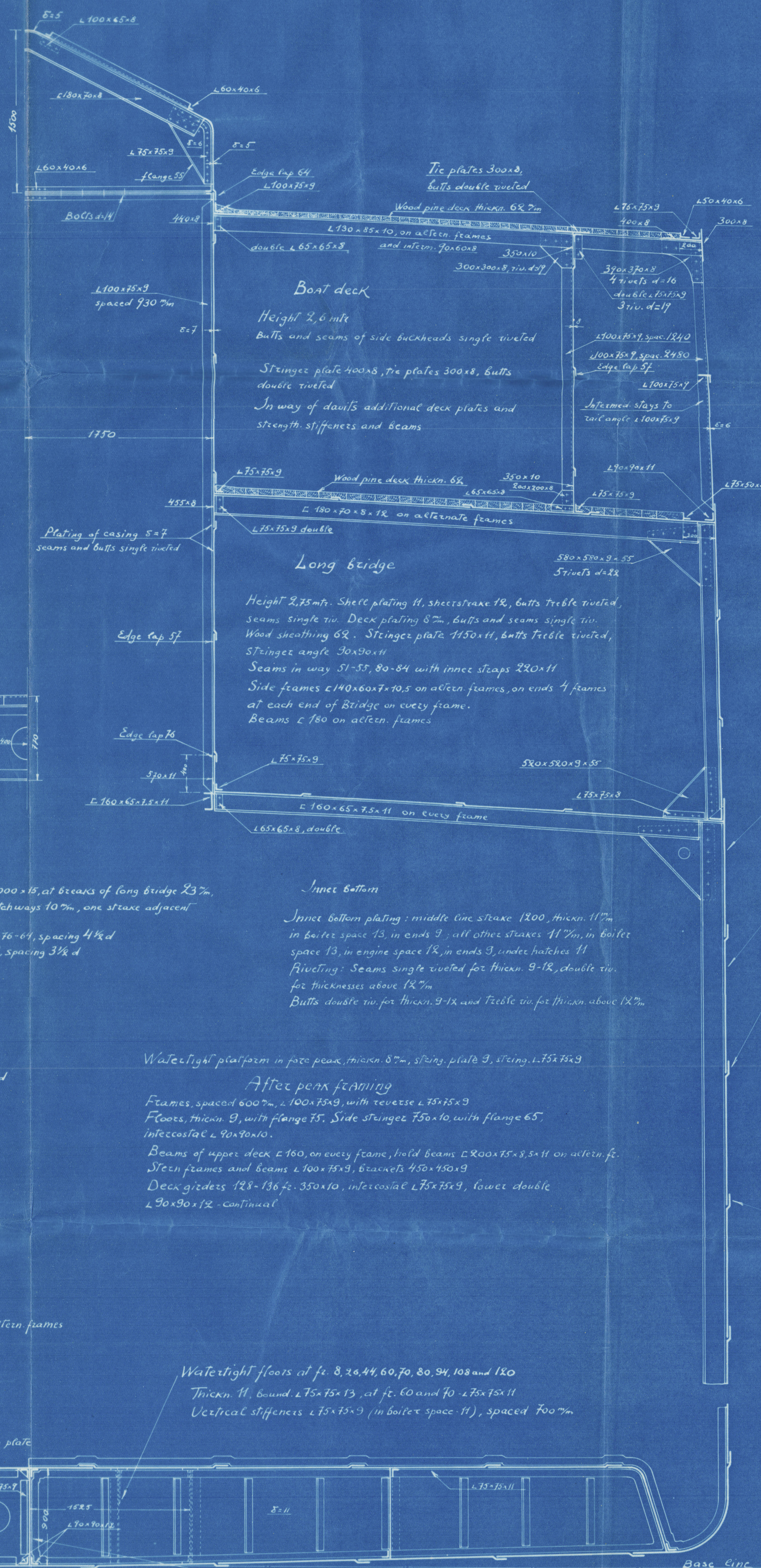
"Tovaristch Krassin", № 168

PRINCIPAL DIMENSIONS.

84,12 B.P. x 13,1 B.M. x 6,9 D.M. / Mtz/
 276,00 " x 43,0 " x 22,64 " / Ft/

Lloyd's Numerals

L 11 = 276.00 = 84.12 mts
 B = 43.0 = 13.1 mts
 D = 22.64 = 6.9 mts
 d = 19.7
 L x D = 6251
 L x (B + D) = 18120
 L/D U.D. = 12.5
 L/D B.D. = 8.75



Forecastle

Shell plating 9 mm, deck plating and stringer plate 9 mm, stringer L 75x75x9. Side frames L 140x60x7x10.5 on alternate frames. Lower beams L 320x50x7x55. Intermediate L 100x75x9. Beams on alternate ft. L 180x70x8x12 with intermediate L 130x85x10. Beam knees 500x450x8x35.

Poop

Shell, deck plating and stringer 9 mm, deck stringer L 90x90x12. Side frames L 140x60x7x10.5 on alternate frames. Beams on alternate ft. L 180x70x8x12. Intermediate frames L 75x75x9. Deck girders 300x9, with two lower L 75x75x9.

Erections in way of masts

Side and deck plating 7 mm, bulks and seams single riveted. Deck boundary L 75x75x11. Side frames L 140x60x7x10.5 and beams L 180x70x8x12 on every frame. Middle line deck girder 600-160x9 with contin. L 90x90x10. Three web frames are fitted.

Sheets 1300x15 at beams of long bridge 23 m, seams double riveted, breadth 134 bulks double riveted straps.

Stance beam sheets 1400x14, bulks double riveted straps.

Seams double riveted, breadth 134.

Shell plating from stance below sheets to bilge stance.

Thickness	1/2	fore	aft
18	18	18	18
Bulk straps	Double	Double	Double

Ice strengthening from stem to ft. 25 thickness of plating 18 mm (excl. sheets). Boss plate thickness 14 mm. Plates at stem 12 mm.

Seams double riveted, breadth 115.

Bilge stance 1828x12. Bulks double riveted straps. Seams double riveted 115.

Stern

Lower portion - steel casting. Area of section at LWL - 192 cm².

Steel frame (steel casting)

Rudder post 210x145, steel post 220x145.

Rudder (A=0.441)

Area of rudder = 10.5 m², diameter of head - 240, single plate thickness 28 mm.

Hatchway coverings

Side coverings, thickness 11, are supported, as shown, by brackets on upper deck, thickness 11, flange 75 and spaced 2500 mm; brackets under upper deck, thickness 11, flange 75.

End coverings, thickness 18, flange 135. Brackets on upper deck, thickness 18, flange 60, angle 75x75x9.

Side coverings are continued as deck girders, between web beams and bulkheads. Web beams are supported by pillars and by reinforced stiffeners, fitted to watertight bulkheads.

Hatchway beams

4 beams in each hatch.

Web beams

Web beams are fitted at ends of hatchways with one pillar in middle line.

Tank side brackets. Thickness 10, in bilge space 18, on every frame. Flange 75.

L 75x75x9, in bilge space 11. L 75x75x9, in bilge space 11, 7 mm d. 13. L 75x75x9.

Margin plate: height 35 mm from collision bulkhead to after 3/8 L, at aft end 610 mm, thickness 10, in bilge space 13. Bulk straps double riveted, in bilge space double bulk straps, double riveted.

Framing in way of ft. 8-20

Side frames, spaced 680 mm, L 220x80x9x13.5, with tees L 75x75x8, shell rivets d. 28, spaced 5.5 d. Beam knees 318x318x10x65 on every frame, incl. ft. 20, 9 riv. d. 13.

Intermediate side frames L 160x80x14 from deck to bilge, no brackets, riv. d. 28, spaced 5.5 d.

Side stringers - 3 on each side, spaced 1600, of intercostal plates 10 mm and contin. L 130x85x12.

Shell L 90x90x10, double.

Tank side brackets on every frame, no flanged, with double L 75x75x9.

Side frames abaft from ft. 20: L 240x80x9x13.5, spaced 620 mm.

Beams of upper deck on every frame: L 160x65x7.5x11.

Fore peak framing

Frames, spaced 600 mm, L 100x25x3, with tees L 75x75x9, total depth 110.

Interim frames L 100x75x11.

Side stringers in line of hold stringers 750x9, attached to shell by double intercostal L 90x90x9.

Floors 9 mm, with flange 75.

Beams of upper deck L 160 of platform C 140, hold beams in line of side stringers L 140, on alternate frames.

Deck and platform beams on every frame.

Gussets, abutt from ft. 34 on alternate frames.

9 riv. fastened from ft. 34 on every bulk side.

Stacked 12 riv. thick of gusset 10, in bilge space 18.

L 75x75x9, in bilge space 11.

Doubled under the bulks, thrust block seating and in engine space, from centre girder to margin plate.

L 60x60x4, in bilge space 10.

Double L 20x20x5.

Shell L 75x75x9, in bilge space 11.

Frame ordin. L 75x75x9, forward ft. 28 doubled with riv. spacing 5.5 d, cemented in bilge space.

3380.

Vertical stiffeners at ft. 70-81 to be fitted as shown.

Side girders in way of ft. 38-40.

Thickness 9, in bilge space 11, longitudinal L 75x75x9 ordin.

in bilge space upper angle 75x75x11, lower - cemented.

Vertical L 65x65x8.

Additional intercostal stringer in way 15-18 ft.

450x3, angles 75x75x9, and web angles 65x65x8.

Inner bottom

Inner bottom plating: middle line stance 1200, thickness 11 mm.

in bilge space 13, in ends 9, all other stances 11 mm, in bilge space 13, in engine space 18, in ends 9, under hatches 11.

Riveting: Seams single riveted for thickness 9-12, double riv. for thicknesses above 12 mm.

Bulks double riv. for thickness 9-12 and double riv. for thickness above 12 mm.

Watertight platform in fore peak, thickness 8 mm, stringer plate 9, stringer L 75x75x9.

After peak framing

Frames, spaced 600 mm, L 100x75x9, with tees L 75x75x9.

Floors, thickness 9, with flange 75. Side stringer 750x10 with flange 65.

Intercostal L 90x90x10.

Beams of upper deck L 160, on every frame, hold beams L 200x75x8, 8 riv. on alternate ft.

Steel frames and beams L 100x75x9, beams L 450x150x9.

Deck girders 128x136 ft. 350x10, intercostal L 75x75x9, lower double.

L 90x90x12 - continued.

Watertight floors at ft. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000.

Flat plate keel 1150x15 in ends 14, bulk straps double riveted. Seams double riveted.

Centre girder height 300 mm, thickness 11 mm in 14, 10 mm in ends, 14 mm in bilge space. Double bulk straps, double riveted.

Double contin. upper angle 75x75x9 in bilge space 75x75x11, lower contin. angle 90x90x12, in bilge space cemented.

Vertical L 75x75x9.

Floors

Floors of height 700, on every frame from centre girder to margin plate.

Thickness 9, in bilge space 11, water tight floors 11.

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LENINGRAD - BALTIC YARD

S. S. "TOVARISTCH KRASSIN"
BUILDERS N° 168

MIDSHIP SECTION (AS BUILT)

S. "TOVARISTCH KRASSIN"
LENINGRAD. 16.

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