

Frames (molds) and Top of Plank Dimensions for 16-foot (4.8-metre) gandelow © 2019Sep25 by P. Beutement [inc Tony Daley's advice]

Delftship Stations

192

179

167

149

131

113

95

77

59

41

23

11

0

Grey for info only		Half / Full breadths to *Inside of Planks*, plus Top-of-Plank to Top of Floor (mold at *90° to DATUM* at C/L) - decimal inches					Rocker data, actuals, Datum at CL to ...		Angle data (degrees)		Numbers in BLACK are measured from DATUM.
FP = 0.00		Floor	ToP Gar	ToP B-1	ToP B-2	Sheer	Floor underside	Floor top (+0.75)	Sheer to mold (plan)	Chine angle plus bevel undercut (decimal, fract inch)	
ToPs on Stem at back rabbet (1.5" full breadth)	Back from FP >	14.00	9.50	7.00	5.19	3.63					Top of Stem Head is 29.13" above Datum. Actual LOA, front of cutwater (at head) to rear of stern post (behind the transom) = 192" / 16 feet (4.8-metres) Numbers in GREEN are measured from Top of Floor. KEY: Gar = Garboard. B-1, -2 = Butterfly plank 1 / 2. BR = Back Rabbet. C/L = Centreline. FP = Front perpendicular. HBr = Half-breadth. HT = height. LoA = Length overall. NoF = Nose of floor. RP = Rear perpendicular. SPs = Station positions. ToF = Tail of floor. ToP = Top of plank. VW = Visible width.
	Tip of floor at 10" (before 3" cut off for stem)	Up from Datum >	11.25	16.44	21.63	26.75			34		
At NoF, angled up 4° from horizontal	13.00	0.75 / 1.50 / 0.06	HB / FB / ToP	HB / FB / ToP	HB / FB / ToP	6.50 / 13.00 / 19.06	3.88	4.63	-	70 0.28 1/4+	Numbers in BROWN are angles (or their undercut in inches, where shown) Chine bevel angle is measured from the edge of the curved top of floor NOT the horizontal. The bevel angle is measured in line with the stations and NOT at the tangent to the curve at the edge of the floor. The Sheer to Frame angles are in plan view and reflect the curve of the sheer where it meets each frame when viewed from above. My strongback Datum, ie the lowest part of underside of floor, is 20" (50.8cm) above the concrete surface of the workshop (but you can change this to what suits you). Floor planks are 0.75" (20mm) thick. Floor made from 3 x 7.63" plus 2 x 5.63" wide planks (total width 34.16" before bevelling). Length 174" overall before the 3" tips are removed. In the floor width column, the third number reflects the curve of the floor edge above the top of floor at the centreline (diagram to follow).
Stations (18" apart) Number 1	25.00	6.44 / 12.88 / 0.19	8.00 / 16.00 / 5.56	9.75 / 19.50 / 9.88	11.44 / 22.88 / 14.44	13.00 / 26.00 / 18.88	3.13	3.88	24	68 0.283 5/16-	
2	43.00	11.94 / 23.88 / 0.63	14.00 / 28.00 / 5.38	16.25 / 32.50 / 9.63	18.56 / 37.13 / 14.00	20.63 / 41.25 / 18.31	1.56	2.31	19	64 0.38 3/8-	
3	61.00	15.31 / 30.63 / 1.00	17.69 / 35.38 / 5.31	20.38 / 40.75 / 9.38	23.00 / 46.00 / 13.56	25.44 / 50.88 / 17.69	0.63	1.38	11	55 0.50 1/2	
4	79.00	16.56 / 33.13 / 1.19	19.06 / 38.13 / 5.25	22.06 / 44.13 / 8.94	24.81 / 49.63 / 12.94	27.50 / 55.00 / 16.94	0.31	1.06	3	53 0.56 9/16	
5	97.00	16.50 / 33.00 / 1.16	19.06 / 38.13 / 5.25	21.94 / 43.88 / 8.63	24.94 / 49.88 / 12.63	27.63 / 55.25 / 16.56	0.00	0.75	2	52 0.515 9/16+	
6	115.00	15.88 / 31.75 / 1.09	18.00 / 36.00 / 4.63	20.69 / 41.38 / 8.38	23.53 / 47.06 / 12.38	26.19 / 52.38 / 16.38	0.13	0.88	7	54 0.56 9/16-	
7	133.00	14.19 / 28.38 / 0.88	15.88 / 31.75 / 4.38	18.50 / 37.00 / 8.25	21.38 / 42.75 / 12.13	23.94 / 47.88 / 16.31	0.50	1.25	9	59 0.44 7/16	
8	151.00	11.13 / 22.25 / 0.56	12.38 / 24.75 / 4.88	15.44 / 30.88 / 8.50	18.56 / 37.13 / 12.00	21.00 / 42.00 / 16.25	1.25	2.00	11	67 0.31 5/16	
9	169.00	5.69 / 11.38 / 0.16	7.75 / 15.50 / 6.44	11.31 / 22.63 / 9.56	14.94 / 29.88 / 12.25	17.81 / 35.63 / 16.50	2.50	3.25	12	70 0.263 1/4+	
At ToF angled up 5° from horizontal	181.00 (tip at 184)	0.75 / 1.50 / 0.06	Set by transom	Set by transom	Set by transom	15.50 / 31.00 / 17.06	4.00	4.75	-	78 0.19 3/16	Centre of Effort is 7' 9.63" and Centre of Bouyancy is 7' 11.18" from stem.
At outer rear edge of transom	Varies	Up from Datum >	0.75 / 1.50 / 15.25	6.44 / 12.88 / 16.88	10.81 / 21.63 / 19.13	12.44 / 24.88 / 23.63			13	-	Transom bevels for: standing, sheer, butterfly and stern post rabbet dimensions - see new 16-foot Gandelow Plans (PDF) for details.
RP at Stem post is 192" from FP	Forward from RP >	11.34	8.38	7.25	6.25	3.50	Top of Stern Post is 25.31" above Datum.				