

Frames (molds) and Top of Plank Dimensions for 15-foot gandelow [© 2017Mar15 by P. Beutement]

Stations (18" apart)	SPs back from FP	Half and Full breadths to *Inside of Planks*, plus Top-of-Plank to Floor (frame at *90° to DATUM* at CL) - decimal inches					Rocker data, actuals, datum at CL to ...		Angle data (degrees)		
FP	0	Floor width, actual	ToP Gar, actual	ToP B-1, actual	ToP B-2, actual	Sheer, actual	Floor underside	Floor top (+0.81)	Sheer to frame (plan)	Chine bevel angle	Actual LOA, cutwater at head to rear of stern post top of transom = 190" / 15' 10"
ToPs on Stem (curved) at back rabbet	-	From Datum >	1.50 / 3.00 / 10.75	1.50 / 3.00 / 15.69	1.50 / 3.00 / 20.50	1.50 / 3.00 / 25.38	From datum / concrete	From datum / concrete	33	-	Top of Stem Head is 27.38" above Datum KEY: B-1, -2 = Butterfly 1 / 2, CL = Centreline, FP = Front Perpendicular, HBr = Half-breadth, HT = height, RL = Rabbet line, SPs = Station Positions, ToP = Top of plank, TP = Transom perpendicular, VW = Vis width.
At Nose of Floor (NoF) angle up 5° from Datum	12.75	1.50 / 3.00 / 0.06	HB / FB / ToP	HB / FB / ToP	HB / FB / ToP	8.38 / 16.76 / 19.06	3.88 / 24.75	4.69 / 25.56	-	73	
1	22.00	5.75 / 11.50 / 0.25	7.81 / 15.63 / 5.50	9.63 / 19.25 / 9.88	11.44 / 22.88 / 14.44	12.88 / 25.75 / 18.88	3.13 / 24.00	3.94 / 24.81	25	70	
2	40.00	11.94 / 23.88 / 0.81	14.38 / 28.75 / 5.38	16.50 / 33.00 / 9.63	18.56 / 37.13 / 14.00	20.56 / 41.13 / 18.31	1.56 / 22.44	2.38 / 23.25	18	65	
3	58.00	15.69 / 31.38 / 1.13	17.88 / 35.75 / 5.31	20.56 / 41.13 / 9.38	23.00 / 46.00 / 13.56	25.06 / 50.13 / 17.69	0.63 / 21.50	1.44 / 22.31	10	57	The Sheer to Frame angles are in plan view and reflect the curve of the sheer when viewed from above.
4	76.00	16.63 / 33.25 / 1.19	18.94 / 37.88 / 4.94	21.81 / 43.63 / 8.94	24.50 / 49.00 / 12.94	27.06 / 54.13 / 16.94	0.31 / 20.19	1.13 / 22.00	3	54	My strongback Datum, ie the lowest part of underside of floor, is 20.88" (53cm) above the concrete surface of the workshop.
5	94.00	16.69 / 33.38 / 1.19	18.81 / 37.63 / 4.75	21.81 / 43.63 / 8.63	24.56 / 49.13 / 12.63	27.19 / 54.38 / 16.56	0.00 / 20.88	0.81 / 21.69	0	53	Notes: The boat's floor is made from 0.81" (20mm) thick planks. Three are 7.5" wide plus two more 5.63" wide planks are used (total width 33.75" before bevelling).
6	112.00	16.19 / 32.38 / 1.15	17.94 / 35.88 / 4.31	20.75 / 41.50 / 8.31	23.53 / 47.06 / 12.38	26.06 / 52.13 / 16.38	0.13 / 21.00	0.94 / 21.81	5	55	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).
7	130.00	14.63 / 29.25 / 1.00	16.06 / 32.13 / 4.25	18.75 / 37.44 / 8.19	21.50 / 43.00 / 12.13	24.00 / 48.00 / 16.25	0.50 / 21.38	1.31 / 22.19	8	62	Side planks are 0.56" (14mm) thick, and are cut from 8" (20cm) wide stock.
8	148.00	10.75 / 21.50 / 0.63	12.44 / 24.88 / 4.81	15.44 / 30.88 / 8.50	18.63 / 37.25 / 12.00	21.06 / 42.13 / 16.25	1.25 / 22.13	2.06 / 22.94	13	68	
9	166.00	5.00 / 10.00 / 0.19	7.25 / 14.50 / 6.44	10.88 / 21.75 / 9.56	14.88 / 29.75 / 12.25	17.63 / 35.25 / 16.50	2.50 / 23.38	3.31 / 24.19	13	69	
At Tail of floor (ToF) angled up 4° from datum	177.00	1.50 / 3.00 / 0.06	Set by transom	Set by transom	Set by transom	15.38 / 30.75 / 17.06	4.00 / 24.88	4.81 / 25.69	-	72	
From TP or from outer rear edge of transom	188.00 (varies)	From Datum >	1.50 / 3.00 / 13.63	6.44 / 12.88 / 15.69	10.81 / 21.63 / 17.75	12.44 / 24.88 / 22.63	-	-	13 (complex)	-	Transom bevels for: standing, sheer, butterfly and stern post rabbet dimensions - see Gandelow Guide (with Plans) for details.
Rear of Stem post	190.00	-	Height, top of stern post above Datum ->			25.13	-	-	-	-	