

S&S SWAN ASSOCIATION

S&S Swan boot top shape

Nov 2018, Lars Ström

The boot top forms a very important part of the appearance of the yacht, and S&S developed their own configuration for this, with a slight curvature reflecting the shape of the sheerline. The term boot top originates from cargo ships, there it means the hull area between the fully loaded and the light ship waterlines - not quite the same as for yachts.

The S&S boot top shape is given as heights at 11 frame stations, measured from the flotation waterline FWL with the yacht in empty condition. The location of these stations is shown on the original drawings, their spacing is 1/10 of the design waterline DWL.

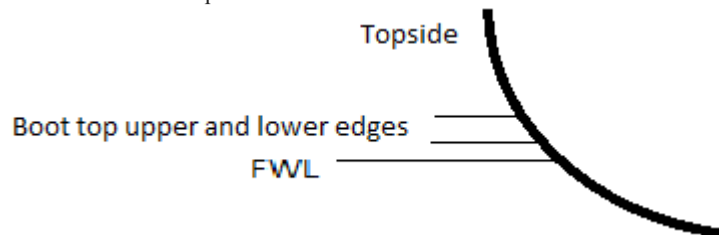
It should be noted here that the yachts are not floating on their DWL, but somewhat deeper, and for marking the boot top it would be good to record the actual FWL position for reference.

Originally the boot top was specified as a single wide line, but after a couple of years it was divided into three, with two coloured stripes, and a white in between. The upper and lower edges remained in the same positions as before.

With the line divided in three, the upper line width is half the total height, the mid line is a 25 mm wide strip, and the lower line the remaining part. There is also a variation where the lower half is divided into two equally wide strips.

The given measurements are taken vertically using a plumb line, and a laser is strongly recommended for a good result. The boot top is wider when measured along the hull compared to the given vertical height, particularly near the aft end.

Frame station example:



With just eleven points their spacing is fairly big, and it may be helpful with additional points at a closer spacing. More points are available on request.

Swan 36 DWL 25'- 6", 7.772 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	78	73	71	70	71	73	78	84	92	101	113
Upper edge height over FWL	155	145	139	136	137	141	148	159	174	192	214
Lower edge height over FWL	78	72	68	66	66	67	70	75	82	91	101

Swan 37 DWL 27'- 4", 8.331 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	83	79	76	75	76	79	83	90	98	109	121
Upper edge height over FWL	167	156	149	146	146	151	159	171	186	206	229
Lower edge height over FWL	83	77	73	71	70	72	75	81	88	97	108

Swan 38 DWL 28'- 8½", 8.750 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	88	83	80	79	80	83	88	95	103	114	127
Upper edge height over FWL	175	164	156	153	154	158	167	179	196	216	241
Lower edge height over FWL	88	81	77	74	74	76	79	85	92	102	114

Swan 40 DWL 28' - 6", 8.687 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	87	82	79	78	79	82	87	94	103	113	126
Upper edge height over FWL	174	163	155	152	153	157	166	178	194	215	239
Lower edge height over FWL	87	81	76	74	73	75	79	84	92	101	113

SWAN 41 and 411 DWL 30'- 3", 9.220 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	92	87	84	83	84	87	92	100	109	120	134
Upper edge height over FWL	184	173	165	161	162	167	176	189	206	228	254
Lower edge height over FWL	92	85	81	78	78	80	83	89	97	108	120

Swan 43 DWL 31'- 0", 9.449 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	94	89	86	85	86	89	95	102	112	123	137
Upper edge height over FWL	189	177	169	165	166	171	180	194	211	234	260
Lower edge height over FWL	94	88	83	80	80	82	86	92	100	110	123

Swan 431 DWL 33'- 4", 10.160 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	102	96	93	91	93	96	102	110	120	133	147
Upper edge height over FWL	203	190	182	178	179	184	194	208	227	251	279
Lower edge height over FWL	102	94	89	86	86	88	92	99	107	119	132

Swan 44 DWL 33.89', 10.330 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	103	98	94	93	94	98	103	112	122	135	150
Upper edge height over FWL	207	193	185	181	182	187	197	212	231	255	284
Lower edge height over FWL	103	96	91	88	87	89	94	100	109	121	134

Swan 47 DWL 34.50', 10.516 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	105	99	96	95	96	99	105	114	124	137	152
Upper edge height over FWL	210	197	188	184	185	190	201	216	235	260	289
Lower edge height over FWL	105	97	92	89	89	91	95	102	111	123	137

Swan 48 DWL 37'- 3", 11.354 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	114	107	103	102	103	107	114	123	134	148	165
Upper edge height over FWL	227	212	203	199	199	205	217	233	254	281	312
Lower edge height over FWL	114	105	100	97	96	98	103	110	120	133	148

Swan 55 DWL 38'- 0", 11.582 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	116	109	106	104	106	109	116	125	137	151	168
Upper edge height over FWL	232	217	207	203	204	210	221	237	259	286	319
Lower edge height over FWL	116	107	102	98	98	100	105	112	122	135	151

Swan 57 DWL 43'- 1 13/16", 13.152 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	132	124	120	118	120	124	132	142	155	172	191
Upper edge height over FWL	263	246	235	230	231	238	251	270	294	325	362
Lower edge height over FWL	132	122	115	112	111	114	119	128	139	153	171

Swan 65 DWL 47'- 0", 14.326 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	143	135	131	129	131	135	143	155	169	187	208
Upper edge height over FWL	287	268	256	251	252	259	273	294	321	354	394
Lower edge height over FWL	143	133	126	122	121	124	130	139	151	167	186

Swan 76 DWL 60'- 0", 18.288 m

Station 10 aft, 0 forward	10	9	8	7	6	5	4	3	2	1	0
Boot Top Vertical Width mm	183	173	167	165	167	173	183	198	216	239	265
Upper edge height over FWL	366	342	327	320	321	331	349	375	409	452	503
Lower edge height over FWL	183	170	160	155	155	158	166	177	193	213	238