

HM Schooner Nancy, Skantling, Mast, Yard, Boom Measurements

Dimension⁴	Length, feet	Length (1:48), Inches
Hull overall	80.00	20.00
Hull at water line	68.00	17.00
Beam	22.00	5.50
Draft	7.00	1.75

Part	Size (in), molded	Size (in), sided	Size (1:48), molded	Size (1:48), sided	Source
FRAMES					
Keel at O	13.00	8.75	0.27	0.18	Sabick ¹
Keel at G	14.75	9.50	0.31	0.20	Sabick ¹
Keel at I	6.39	9.38	0.13	0.20	Sabick ¹
Keel at 20	12.00	8.00	0.25	0.17	Sabick ¹
Stem at keel	4.00	8.25	0.08	0.17	Sabick ¹
Stem forward of keel	21.00	7.25	0.44	0.15	Sabick ¹
Stem at scarf for knee of head	23.50	7.25	0.49	0.15	Sabick ¹
Stem at knee of head	20.50	5.25	0.43	0.11	Sabick ¹
Stem at top	16.25	5.00	0.34	0.10	Sabick ¹
Stern post at keel	12.00	8.00	0.25	0.17	Sabick ¹
Inner stern post at keel	4.00	8.00	0.08	0.17	Sabick ¹
Stern deadwood, forward end	8.63	10.75	0.18	0.22	Sabick ¹
Apron	7.00	15.00	0.15	0.31	Sabick ¹
Siding of cant frames and 17, 16		9.00		0.19	Sabick ¹
Siding of frames 15-0, A-I		8.00		0.17	Sabick ¹
Siding of fashion piece and aft filler pieces		7.00		0.15	
Frames at keel, moulded	9.00		0.19		Sabick ¹
Frames at wales, moulded	7.50		0.16		Sabick ¹
Frames at gunwale, moulded	4.00		0.08		Sabick ¹

Part	Size (in), molded	Size (in), sided	Size (1:48), molded	Size (1:48), sided	Source
Keelson, moulded	12.00		0.25		Sabick ¹
Keelson, Sided	9.00		0.19		Sabick ¹
PLANKING					
Thickness of wales	4.00		0.08		Chapman ² Berbice
Width of the wale	12.00		0.25		plans ³
Thickness of floor planks	2.63		0.05		Chapman ²
Thickness of quarterdeck rail	3.00		0.06		Chapman ²
Thickness of filling planks	2.63		0.05		Chapman ²
Thickness of thick-stuff at floor heads	3.50		0.07		Chapman ²
Thickness of hull planking	2.00		0.04		Sabick ¹
Width of planking	10.00		0.21		Sabick ¹
Thickness of ceiling planking	1.50		0.03		Sabick ¹
Width of ceiling planks	9.00		0.19		Sabick ¹
Upper deck					
The upper deck clamps	3.25		0.07		Chapman ²
Thickness of beams of the upper deck	6.75		0.14		Chapman ²
Width of beams of the upper deck	7.38		0.15		Chapman ²
Thickness of carlings. (used ratio between deck beam and carling size on Victory)	4.32		0.09		HMS Victory ⁶
Thickness of ledges on upper deck. (used ratio between deck beam and ledge size on Victory)	2.50		0.05		HMS Victory ⁶
Upperdeck knees taper to	4.50		0.09		Chapman ²

Part	Size (in), molded	Size (in), sided	Size (1:48), molded	Size (1:48), sided	Source
Thickness of binding strakes	4.00		0.08		Chapman ²
Thickness of deck planks	2.25		0.05		Chapman ²
Thickness of waterways	2.50		0.05		Chapman ²
Roundup of decks	4.30		0.09		Berbice plans ³
Quartdeck, cabin and platform decks					
Thickness of quartedeck clamps	2.65		0.06		Chapman ²
Quarterdeck beams	4.75		0.10		Chapman ²
Carlings under quarterdeck. (used ratio between deck beam and carling size on Victory)	3.00		0.06		HMS Victory ⁶
Knees taper to	3.50		0.07		Chapman ²
Deck planks on quarter deck	2.00		0.04		Chapman ²
Length of forward platform	144.00		3.00		Tecumseth plans ⁷
RUDDER					
Width of head of the rudder	14.00		0.29		Chapman ²
Width of the rudder stock	6.00		0.13		Chapman ²
Thickness of rudder at heel	5.25		0.11		Chapman ²
Other					
Windlass					
Center	22.00		0.46		
Ends	14.74		0.31		

HM Schooner Nancy Ships Plan's Reference Notes

Area of ship	Ship's plan information	Source
Sails/Yards/Masts	Rigged fore and aft on both her main and fore masts. She carried square topsail and topgallent sails on both masts.	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Fore yard carried a large square sail	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Foresail was loose footed	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Main boom overhung her transom by about ten feet.	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Head sails consisted of staysail, jib and flying jib.	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Boom guy and main stay	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Bowsprit stive 2.83 inches in 12 feet. Bowsprit pointed definitely upward instead of straight ahead	The Global Schooner, Fincham tables Snider, C.H.J;The Story of the Nancy and other Eighteen Twelvers. P70.
Anchors	One kedge anchor	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Two bower anchors	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	60 fathom cables.	Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs

Guns	2-24 pound carronades and one six pound long gun on August 13, 1814, the date she was sunk. Capable of mounting six four pounder carriage guns and six swivel guns	Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs Keene, Tony; This ship is an island article in "Northern Lights.
Crew	Master, Mate, Cook, Carpenter, Carpenter's Mate and 4 seamen	Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs
Decks and fittings	Pump to clear bilges Quarter deck rail Windless aft of the Foremast consisted of a wooden barrel with a locking system and notches for poles to turn it. She had a compass housed in a binnacle Stove and chimney Beds in the cabin and forward crew quarters.	Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh Examination of various schooner plans show the stove and chimney to be in the forward part of the ship. Based on this the stove was placed on the forward platform forward of the foremast. Tecumseth plans
Hull	Top of the wale runs at the level of the upper deck amidships. Gun ports were fitted with lids. Stern was square and shield shaped Bow had sweeping curves of an old time figurehead and trail boards.	Berbice plans. Report from Commodore Sinclair to William Jones, Secretary of the Navy, Washington. Snider, C.H.J;The Story of the Nancy and other Eighteen Twelvers. P70. Snider, C.H.J;The Story of the Nancy and other Eighteen Twelvers. P70.

	Gunports cut in her sides and sockets for swivel guns in her rail	Snider, C.H.J;The Story of the Nancy and other Eighteen Twelvers. P70.
	Quarterdeck and bulwarks were raised above levels shown in Sabick plans to providing head room and space for the windows in her commodious cabin	Snider, C.H.J;The Story of the Nancy and other Eighteen Twelvers. P70.
	Cabin was lighted by stern windows, port lights and sky light	Based on "Schooner Nancy, Log and List of Provisions 1822-1813" by Alexander MacKintosh
	Removed frame 18 and added six aft cant frames, fashioning pieces and filler frames to Sabick plans.	Review of plans from various other ships and input on naval architecture from David Antscherl
	Added hawse timbers and seven forward cant frames to Sabick plans. Cant frames 2, 3,4, 5 and 7 tapered to half their sided dimension at the keel to allow the frames to fit between frame 1 and the Hawse timbers yet maintain structural integrity	Review of plans from various other ships and input on naval architecture from David Antscherl. Also, Sabick thesis
	Companionway to cabin is in the center of the ship at the edge of the quarterdeck with a hatch in the quarterdeck for headroom for the companionway	Plans of the Berbice
	Deck beam, carling, ledge and knee configuration.	Berbice plans.
	Deck hooks supporting end of decks and one breasthook between deacks	Berbice plans.
Misc. notes	After refit of winter 18/13-1814 she was ship shape and "Bristol Fashioned" (Neat and everything in it's place)	Spiliman, R.; The Schooner Nancy. Based on Alexander MacKintosh logs

Sources of data

Source	Label
His Majesties Hired Transort Schooner Nancy, A Thesis by, Christopher R. Sabick	Sabick ¹
The Global Schooner by Karl Heinz Marquardt, page 218, Specifications of Oak Timbers for Merchantmen, F.H. Chapman, 1768, for 80' schooner.	Chapman ²
The Global Schooner by Karl Heinz Marquardt, pages 38-45, plans and information on HM Armed Schooner, Berbice	Berbice plans ³
His Majesties Hired Transort Schooner Nancy, A Thesis by, Christopher R. Sabick and S.C. Richardson and Sons web site and Nancy island web site.	Dimension ⁴
The Global Schooner by Karl Heinz Marquardt, pages 222-223, Proportions for masts, Yards, Booms &c. of Schooners, J. Fincham, 1854, Common Schooner	Fincham tables ⁵
HMS Victory plans from "HMS Victory, Building, Restoration and Repair" by Bugler	Plans for HMS Victory ⁶
Plans for the Schooner Tecumseth obtained form the Maritime Museum of the Great Lakes in Kingston, Ont.	Tecumseth Plans ⁷

Masts and Yards (From Fincham tables ⁵)	Length, feet	Largest Diameter	Diameter at Hounds or Outer End	Diameter at Head	Diameter at Heel		Length (1:48). Inches	Largest Diam (1:48), Inches	Hound or Outer Diam (1:48)	Head Diam (1:48)	Heel diam (1:48)	Rake/ Stive in Degrees	
Main Mast Hounded(MM)	57.42	17.23	12.92	11.54	14.36		14.36	0.36	0.27	0.24	0.30		
Main Mast Headed	6.89						1.72						
Main Topmast Hounded	18.26	8.22	6.85	4.11			4.57	0.17	0.14	0.09			
Main Topmast Pole	9.13						2.28						
Main Lower Yard	48.51	11.06	5.53				12.13	0.23	0.12				
Main Topsail Yard	37.35	7.62	3.27				9.34	0.16	0.07				
Main Topgallant Yard	24.25	4.95	2.47				6.06	0.10	0.05				
Main Boom	45.75	9.33	7.00	6.67			11.44	0.19	0.15	0.14			
Main Gaff	24.25	6.11	3.39				6.06	0.13	0.07				
Main mast abaft the middle(of keel)	3.13						0.78						
Main Mast to rake (in 12 feet)	2.00						0.50					9.46	
Main Mast below load waterline	5.72						1.43						
Fore Mast Hounded (FM)	52.83	15.85	11.89	10.62	13.21		13.21	0.33	0.25	0.22	0.28		
Fore Mast Headed	6.34						1.58						
Fore Topmast Hounded	18.26	8.22	6.85	4.11			4.57	0.17	0.14	0.09			
Fore Topmast Pole	9.13						2.28						
Fore Lower Yard	45.76	10.43	5.22				11.44	0.22	0.11				
Fore Topsail Yard	32.49	6.63	2.84				8.12	0.14	0.06				
Fore Topgallant Yard	20.96	4.28	2.14				5.24	0.09	0.04				
Squaresail Yard	41.60	6.49	3.24				10.40	0.14	0.07				
Squaresail Boom	5.00	4.60	3.24				1.25	0.10	0.07				
Fore Gaff	17.70	4.46	2.48				4.43	0.09	0.05				
Fore mast before the middle(of keel)	22.98						5.75						
Fore Mast to rake (in 12 feet)	1.25						0.31					5.95	
Fore Mast below load waterline	4.84						1.21						
Bowsprit	25.88	14.29	9.53				6.47	0.30	0.20				
Bowsprit to stive (in 12 feet)	2.83						0.71					13.28	
Bowsprit housed from the fore part of the stem	10.12						2.53						
Bowsprit, outside of stem (BS)	14.39						3.60						
Jibboom	22.52	6.76	5.07				5.63	0.14	0.11				
Sprit Sail Yard	18.80	3.84	1.92				4.70	0.08	0.04				
NOTES:	Length of Main Boom and Gaff taken from Tecumseth plan												
	Fore and Main yards and Topsail yards are 8 square for first quarter from center. Other yards are all round (Steels)												
	Ratio of Main yard length to Fore yard length taken from Steels. Fore yard length from Fincham.												