

# Material list for 4 seater naomhóg

Alternative dimensions: {Domhnall Mac Síthigh, DMS}, (Hornell in brackets), [Padraig in square brackets, PD]

Item	wood	qty	section	length	
Gunwale, bow section	ash	2x	7/8" x 2 3/8"	8'	
		[	1" x 2 1/2"		PD]
Gunwale, main section	deal	2x	1" x 3"	18'	
		[	1" x 2 1/2"		PD]
		{	1 1/8" x 2 3/4 "		DMS}
Stern section	deal	1x	1" x 2 1/4"	2'	
Knuckle frame, bow	ash	2x	7/8" x 2 3/8"	8'	
		[	1" x 2 1/2"		whole knuckle frame]
Knuckle frame, main	deal	2x	7/8" x 2 3/4"	18'	
Stern, knuckle	deal	1x	7/8" x 2 3/8"	2'	
	Pin holes		24" from leading edge of seat (better 1"-2" less)		
	Rib holes		5/8" from outside knuckle, wedged 1/4" x 1/4" underneath		
	Frames offset		1 1/2", frames 6 1/2"		
Bow strut	deal	1x	1" x 1 1/2"	20"	1 1/2" curved, inserted in knuckle fr.
Beading/battening	deal		7/8" x 1/2"	50"	
Scalf joint		4x	3" x 2"	32"	
Knees	sally, elm or oak	10x	13" x 14"	1 1/4"	
<i>Tocaí</i> , struts		20x	3/4" x 1 3/4"	9"	
		{	1 3/4" x 3/4"	12"	DMS}
		10x	1" ø	9"	7/8" ø at hole
		{14x	3/4" x 3/4"		DMS}
Tafts (thwarts)		4x	1" x 7"	48" (46")	45" apart, 1 <sup>st</sup> 77" from bow
		{	7/8" x 8"	52"	DMS}
Mast thwart		1x	3/4" x 5 3/4"		
Anti-wet-bum strips		8x	1/4" x 3/4"	8"	
<i>Fonsaí</i> , Ribs	oak	50x	3/8" x 1 1/4"	6'6"	spaced 6 1/2" 1 <sup>st</sup> three nipped and bend,
		{60x	3/8" x 1 1/8"	5'	sp. 3/4" mid, 2", 4" from gunwale
Stringers	deal	16x	3/8" x 1 1/2"	28'	
		[20x	1/4" x 1 3/8"]		
		{	3/8" x 1 1/2"		DMS}
		(9x	? x 1 3/8"		spaced 1" – 1 1/4")
Keel plate (stringer)	deal	1x	1/4" x 4"	28'	split 60" front & back, sheared
		[	1/4" x 4 1/2"		PD]
		(1x	3/8" x 4 1/2"		split 48" front and back, sheared)
Rowing sticks (oars)		8x	2 1/4" x 2 1/4"	11'	
Bulls	oak	1x	2" x 3 1/2"	15'	to be cut in 8 triangles
Cleats	oak	8x	3/4" x 2 1/2"	15"	
Pins	oak	10x	1"-1 1/4"	18"	
Pin blocks		8x	1" x 2 3/8"	4"	
Foot rests		4x	1" x 1 1/2"	22"	33" from leading edge
Mast		1x	2 1/4" diameter	12' 9"	bottom 1" only 1 1/2"
Yard		1x	2" diameter	104"	
Leeboards		2x	1" x 6"	5'	
Trestles	deal	4x	1" x 3"	12"	

## Miscellaneous Materials

Coal tar / Stockholm tar	Coal tar 5l, e.g. from Coventry Boatbuilders
Pitch	or Jeffrey's Marine Glue No. 2
Orange and green paint	Auro 160 external range 1.5 ea. 160-33 dark red, 160-67 green
C. 1 ½ l each of pure turpentine and boiled linseed oil; some beeswax	
Copper clouts	1 1/4" x 14G 3kg
Copper Tacks	5/8", 1/2kg
Some serious nails	
Coachbolts 6x M10x75	
Range of bronze or s/s screws	
Cotton canvas 120z, 15oz or 18oz	28 yds of 37" wide
Lug sail 10oz canvas or heavy calico	96", 93", 88", 37" from top cw., 93" diagonal tl. to br.
Linen or polyester yarn/twine	
Boltrope 6mm polyhemp or manilla	

## Dimensions

	Seat	Beam	Depth
	1 <sup>st</sup>	49"	15"
<b>LOA</b>	2 <sup>nd</sup>	51"	15" (23"-24")
Hornell: 25'	3 <sup>rd</sup>	48 ½" (50")	14"
Padraig: 24'9"	Stern	22"	

## Timber ordering list for 4 seater naomhóg

Saw rough	Length	Qty	Finished	Part
<b>White Deal or Larch</b>				
1" x 3"	20ft	4x	1" x 2 3/4" 7/8" x 2 1/2"	(gunwale main) (knuckle frame)
1" x 3"	12ft	3x		(trestles)
2" x 3"	12ft	1x	3" x 2"	32" (scalf joint, pin blocks)
1" x 7"	8ft	4x	7/8" x 7"	48" (thwarts)
			3/4" x 5 3/4"	44" (mast thwart)
			1" x 6"	5' (leeboard)
2 1/2" x 2 1/2"	12ft	10x	2 1/4" x 2 1/4"	11' (oars, mast, yard)
1/2" x 1"	12ft	3x	finished	36' (beading)
1/4" x 1 1/2"	27ft	25x	finished	(stringers)
1/4" x 4"	27ft	1x		(keel plate)
1" x 1 1/2"	8ft	4x	1" x 1 1/2"	(footrests, supports)
<b>Oak</b>				
2" x 4"	8ft	2x	2" x 4"	15' (bulls)
3/8" x 1 1/8"	7ft	60x	finished	(ribs)
3/4" x 3"	12ft	1x	3/4" x 2 3/4"	15" (cleats, wedges)
1 1/4" x 1 1/4"	12ft	1x	1" ø	18" (pins)
1 1/8" x 12"	8ft	4 x	1" x 2 3/4"	8' (gunwale bow)
			7/8" x 2 3/8"	8' (knuckle bow)
			1" x 2 1/4"	2' (gunwale stern)
			7/8" x 2 3/8"	2' (knuckle stern)
			1" x 1 1/2"	20" (bow strut)

All wood naturally seasoned at 20% if possible, not kiln dried, not treated!