La REAL, 1571

SCALE: 1/72, Length: 795mm, Width: 380mm, Height: 640mm

HISTORY:

La Real, built in Barcelona at Royal Shipyard, was the flagship of Don Juan de Austria during the battle of Lepanto in 1571, Battle of Lepanto was the Largest battle between galleys in history, in which a Christian fleet of the Holly League defeated an Ottoman fleet under admiral Ali Pasha. In 1971, a replica of La Real was built and displayed in the Museu Marítim in Barcelona.

Recommended tool list:

Modeler's knife or scalpel
Mini drilling machine
Drill bits
Selection of abrasive paper
Scissors
Pliers
Clothes pegs or crocodile clips
Pencil
Rule
Set of needle files
Electric plank bender
Mini-lathe

Before you begin:

Before you begin to build the model it is necessary with a vengeance read building instructions and plans. Also chronology of assembly steps is necessary to keep. You check if the parts go together before you glue it respectively you make any corrections with sandpaper. During the gluing, painting, lacquering and at work with another chemical materials is necessary well ventilated in your working room. You cut the parts from sheet until actually required for fitting. You cut by knife only in direction off ward your body so that you head to injury risk. It is recommended to use water based white glue to gluing wooden parts and *cyanoacrylate glue* for gluing resin and metal parts.

Colouring:

The hull of the ship was painted by red color. Decoration was gilded. Hull under water was painted by protective white coating. Decks of the ships were natural wood. Anchors and other metal parts were black colour. For colouring is possible to use modellers colours used in plastic modelling.

Bending of wooden strips:

The Wooden strips will be more flexible if you will boil it in hot water about 10-15 minutes. You can bend the strips along any cylindrical area but ideal is using of special plank bender (it would be best to use electric plank bender). If you need to do very small radius so you must bend it in more s

Model building process:

Plan 1:

I: Hull frame

1) First glue frames 2-14 to the keel 1(which is composed from two parts). Then run dowel 15 through the frames and glue them together.

2) Then glue frames 18-21 to the keel.

- 3) Then glue reinforcements 25, 26 and 29 together with dowels 27 to the keel and reinforcements
- 22-24 together with dowels 34.
- 4) Then glue parts 16, 17 and 30 to the keel.
- 5) Then glue side parts 28 to the frames.
- 6) Then glue tackles 38 to the part 31 and then glue the part 31 to the frames.
- 7) Then glue parts 32 and 33 to the part 31.
- 8) Then run the ropes 35 through inner space of skeleton as it is shown in the figure.

II: First planking

- 1) First plank the deck by strips 37a.
- 2) Then plank the hull by strips 37b.
- 3) Then plank the fore deck by strips 37.

4) Finally grind by sand paper the hull together with reinforcements 22-24 into needed shape.

III: Second planking

1) First glue deck 41 to the frames 28 as it is shown in the det. a.

- 2) Then glue parts 42 and 43 to their positions.
- 3) Then glue side parts 49a, 49b and 50 to the frames 28.
- 4) Then plank the deck by strips 58b.

5) Then make the deck hatches from parts 58a, 59a and 59b and make the hawse holes and hem them by strips 62.

- 6) Then make a platform from parts 51a, 53, 54, 55 and 56 as it is shown in det. B.
- 7) Then plank the deck by strips 51b and glue cover 52a with handles 52b into their positions.
- 8) Then glue strips 57 to the side parts 49b.

9) Then glue keel 44-48.

10) Then glue reinforcement parts 71-73 (The parts 71 and 72 is need to grind into the shapes as it is shown in the det. C before gluing.) to the hull and plank the hull by strips 60 and 61. 11) Then plank the fore deck by parts 64-70.

Plan 2:

IV: Framing

1) First glue parts 74 and 75 to the frames 42 and 43.

2) Then glue into their positions frames 217-226.

3) Then glue together parts 76a and 76b and then glue the parts 76 to the frames 42 and 43.

4) Then glue frames 77-210 to the deck. Position of simple frames is useful to check by notches in parts 23 which will be run to the frames later.

5) Finally glue parts 211-216 and 227 to the frames.

V: Benches

1) First glue side parts 230 with strips 228 to the frames 77-210 as it is shown in the det. D.

2) Then glue strips 229 to the frames 77-210 as it is shown in det. B.

3) Then after the det. C glue fore structure.

4) Then glue benches of oarsmen as it is shown in the det. D.

Plan 3:

VI: Details

Det. a: Plank the decks by strips 256.

Det. b: Make the stern deck as it is shown in the figure.

Det. c: Finish the fore superstructure as it is shown in the figure. First glue decks 257 and 264 and strips 265 into their positions. Then glue skeleton of superstructure from parts 259, 263 and 266. Then plank the superstructure by strips 267. Finally glue parts 268 and 269 into their positions.

Det. d: Make the base construction for boat from parts 270-273. Then glue parts 261 and pins 456 to the beams 76.

Det. e, f: Glue frames 274-290 and strips 291 and 292 to the hull as it is shown in the figure.

Det. g: Glue parts 249 and 293-295 to the stern.

Det. h: Make a captain cabin on the stern. First glue frames 296 and 297 in their positions. Then plank the cabin by strips 298 and glue part 299 on its position. Then glue benches 307-310 to the inner sides of the cabin. Then glue on their places decorations 300-303. Finally make a rudder from parts 305 and 306a-c and install it to the sternpost as it is shown in the figure.

Det. i: Make railing from parts 312-316 as it is shown in the figure.

Det. j: Make stairs from parts 366-372.

Det. k: Make railings from parts 318, 319 and 253.

Det. l: Make the guns with carriages and then install them into their positions.

Det. m: Make galley from as it is shown in thee figure and then install it into its position.

Det. n: Make lanterns. First glue parts 604 and 599b-d to the part 599a. Then glue together parts 599e and 599f and grind them as it would be possible to glue them together and then glue them to parts 599c. Finally glue also top parts 599b, 599c and 599g into their positions. Use the same procedure also for making of the smaller lanterns. Finally all three lanterns glue to transverse piece 232 as it is shown in the figure.

Det. o: Make a roof construction. First make the transverse beam from parts 322a-c and then glue it together with lanterns into its position. Then glue frames 324-338 to the transverse part as it is shown in the figure.

Glue also rest of decorations on their positions as it is shown in the plan.

Plan 4:

VII: Details

Det. a: Make a boat. First glue frames 421-444 to the keel 420. Then glue decks 446-448, benches 449 and parts 452-455 to the frames. Then plank the boat by planks 457a-h and 458. Start the planking with planks 457a and then glue gradually other planks 457b-h and then glue hinges 588-599 and ruder 445 to the sternpost. Then glue parts 586 with pins 587 to the hull. Finally grind the oars 591 into needed shapes. Finally install the boat on the parts 273.

Det. b: Tie the hawse cables to the anchors and the install the anchors into the fore superstructure as it is shown in the figure.

Det. c: Make masts, yards and oars by grinding from dowels.

VII: Rigging, flags and sails

Det. a: Detail of tying of shrouds to the main masts.

Det. b: Detail of tying of shrouds to the hull.

Det. c: Detail of tying of ropes to the cleats and eyebolts.

Det. d: Detail of tying of shrouds to the fore masts.

Det. e: Detail of tying of yard to the mast.

Det. f: Detail of mast top.

Plan 5: Det. a: Make a stand from parts 609-611. Det. b: Detail of the sail.

2-14	frames	nluwood 2mm	100
2-14 15	reinforcement	plywood 3mm dowel 6mm	1pc.
15 16-17	mast foot	plywood 3mm	4pcs.
18-21	frames	plywood 3mm	lpc.
22-24	frames	plywood 3mm	1pc. 2pcs.
22-24	frames	plywood 3mm	2pcs.
23-20 27	pins	dowel 6mm	4pcs.
28	frames	plywood 3mm	2pcs.
29	frames	plywood 3mm	2pcs.
30-31	deck	plywood 3mm	1pc.
32	deck	veneer 0,6mm	1pc.
33	mast foot	wood 3mm	1pc.
34	pins	dowel 3mm	61pc.
35	rigging	rigging rope 0,75mm	20m
36	block	block 12x5 mm	2pcs.
37	planking	strip 2x5mm	50pcs.
38	block	dowel 2mm	1pc.
39	hinges	wire 0,5mm	0,2m
40			
41	deck	veneer 0,6mm	1pc.
42,43	frames	wood 2mm	1pc.
44-48	keel	wood 3mm	1pc.
49a,b	beam	veneer 0,6mm	2pcs.
50	beam	veneer 0,6mm	4pcs.
51,51a	deck	veneer 0,6mm	20Pcs.
52a	cover	veneer 0,6mm	lpc.
52b	handles	photoetched parts	2pcs.
53	platform	wood 2mm	2pcs.
54	platform	strip 1x3mm	60pcs.
55 56	tackle	dowel 2mm	1pc.
50 57	platform	strip 2x2mm	20pcs.
58	beam deck	strip 1x1mm veneer 0,6mm	14pcs.
58a	hatches	veneer 0,6mm	20pcs. 5pcs.
59a	hatches	veneer 0,6mm	10pcs.
59b	hatches	veneer 0,6mm	5pcs.
60a-c	wales	strip 2x2mm	20pcs.
61	planking	strip 1x3mm	60pcs.
62	hawse holes	strip 1x1mm	14pcs.
63	bending jig	plywood 3mm	1pc.
64-69	deck	veneer 0,6mm	2pcs.
70	deck	veneer 0,6mm	1pc.
71	Reinforcements	wood 2mm	2pcs.
72	Reinforcements	wood 2mm	2pcs.
73	Reinforcements	strip 1x1mm	10pcs.
74,75	frames	wood 2mm	2pcs.
76a	beam	wood 2mm	2pcs.
76b	beam	veneer 0,6mm	2pcs.
	frames	plywood 1,5mm	1pc.
) frames	plywood 1,5mm	1pc.
211	beam	strip 2x2mm	20pcs.
212	beam	strip 1x2mm	12pcs.
213	beam	wood 2mm	2pcs.
214	beam	wood 2mm	1pc.
215	beam	veneer 0,6mm	2pcs.
216	beam	veneer 0,6mm	2pcs.
	5 frames	plywood 1,5mm	2pcs.
227 228	beam	strip 1x3mm	60pcs.
228 229	beam beam	strip 1x1mm strip 1x2mm	14pcs.
229 230	side wals	veneer 0,6mm	12pcs.
230		strip 2x2mm	2pcs. 20pcs.
231-23.	stanchions	wood 2mm	4pcs.
234	beam	wood 2mm	3pcs.
236-238		wood 2mm	2pcs.
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239	benches	veneer 0,6mm	59pcs.
	benches	strip 2x2mm	20pcs.
240,24	benches	veneer 0,6mm	59pcs.
242	benches	veneer 0,6mm	59pcs.
243	strip	veneer 0,6mm	3pcs.
245	benches	strip 2x2mm	20pcs.
245	benches	wood 2mm	59pcs.
247,248		veneer 0.6mm	2pcs.
247,240			2pcs.
250	deck	veneer 0,6mm	2pcs.
250	deck	veneer 0,6mm	2pcs. 1pc.
252	deck	veneer 0,6mm	38pcs.
252	railing	veneer 0,6mm	1pc.
255	deck	veneer 0,6mm	81pc.
255			
256	deck	veneer 0,6mm	13pcs.
257	deck	veneer 0,6mm	20pcs.
258	deck	veneer 0,6mm	20pcs.
259	strip	strip 2x2mm	20pcs.
260	strip	strip 2x2mm	20pcs.
261	thin plate	strip 1x2mm	12pcs.
262	strip	strip 2x2mm	18pcs.
263	beam	wood 2mm	2pcs.
264	deck	veneer 0,6mm	20pcs.
265	strip	strip 1x1mm	14pcs.
266	reinforcement	wood 2mm	6pcs.
267	strip	strip 1x3mm	60pcs.
	Otransverse beam	wood 2mm	3pcs.
	1boat stand	strip 2x2mm	20pcs.
272	reinforcement	wood 2mm	2pcs.
273	boat stand	wood 2mm	2pcs.
) frames	plywood 1,5mm	2pcs.
291, 29		strip 1x2mm	12pcs.
293a	decoration	wood 3mm	1pc.
293b	decoration	resin part	1pc.
294	frames	plywood 3mm	3pcs.
295	strip	strip 1x3mm	60pcs.
	7 frames	wood 2mm	1pc.
298	stripy	strip 1x3mm	60pcs.
299	board	wood 1,5mm	1pc.
300-30	3 decoration	resin part	1pc.
304	board	wood2mm	1pc.
305	rudder	wood 3mm	1pc.
306a,b	rudder	wood 3mm	1pc.
306c	rudder	wood 2mm	2pcs.
307	benches	veneer 0,6mm	2pcs.
308,309	9 benches	veneer 0,6mm	1pc.
310	benches	veneer 0,6mm	9pcs.
311	railing	veneer 0,6mm	32pcs.
312-314	4 railing	wood 2mm	32pcs.
315	railing	strip 2x2 mm	20pcs.
316	railing	strip 1x2mm	12pcs.
317	reinforcement	wood 2mm	1pc.
318,319	9 railing	resin part	1pc.
320,321	[
322а-с	příčný strip	wood 2mm	2pcs.
323a	lantern	veneer 0,6mm	2pcs.
323b	lantern	veneer 0,6mm	1pc.
	5 roof frames	plywood 1,5mm	1pc.
336	strip	wood 2mm	2pcs.
337	strip	veneer 0,6mm	20pcs.
338	strip	veneer 0,6mm	5pcs.
339	swivel gun	resin part	10pcs.
340	swivel gun stand	strip 3x3mm	1pc.
341a	swivel gun	veneer 0,6mm	10pcs.

341b swivel gun gun 342 343,344 gun 345 gun carriage gun carriage 346 347 gun carriage 348 gun carriage 349 gun carriage 350 gun carriage 351 gun carriage 352 gun carriage 353 gun carriage 354 galley 355 galley 356 galley 357 galley 358-360 galley galley 361 galley 362 363 galley 364 galley 365 galley 366a stairs 366b stairs 367-372 stairs 373-375 gun carriage ironwork 376,377 decoration 378,379 decoration 380 decoration 381 dead eyes fitting 382 eyebolt 383 eyebolt 384 eyebolt 385 eyebolt 386 eyebolt 387 eyebolt 388 cleat 389 eyebolt 390 cleat 391 eyebolt 392 cleat 393 eyebolt 394 cleat 395 eyebolt 396 eyebolt 397 cleat 398 eyebolt 399 cleat 400 eyebolt 401 cleat 402 eyebolt 403 cleat 404 eyebolt 405 cleat 406 eyebolt 407 cleat 408 eyebolt 409 cleat 410 eyebolt 411 cleat 412 eyebolt 413 cleat 414 eyebolt 415 cleat 416 eyebolt

wood 2mm resin part resin part wood 2mm wood 1,5mm wood 1mm wood 2mm wood 1,5mm wood 1mm wood 2mm wood 2mm wood 2mm strip 2x2mm veneer 0,6mm veneer 0,6mm veneer 0,6mm resin part wire 0.5mm wire 0.5mm chain wire 0,3mm wire 0,3mm veneer 0,6mm veneer 0,6mm veneer 0,6mm photoetched part photoetched part photoetched part photoetched part photoetched part eyebolt eyebolt eyebolt eyebolt eyebolt eyebolt wood 2mm eyebolt wood 2mm eyebolt wood 2mm eyebolt wood 2mm eyebolt eyebolt wood 2mm eyebolt

10pcs. 1pc. 2pcs. 2pcs. 4pcs. 4pcs. 1pc. 2pcs. 2pcs. 1pc. 2pcs. 2pcs. 20pcs. 1pc. 2pcs. 2pcs. 1pc. 0.2m0.2m 0.1m 0,1m 0,1m 2pcs. 6pcs. 2pcs. 2pcs. 2pcs. 3pcs. 3pcs. 16pcs. 50pcs. 50pcs. 50pcs. 50pcs. 50pcs. 50pcs. 2pcs. 50pcs. 2pcs. 50pcs. 2pcs. 50pcs. 1pc. 50pcs. 50pcs. 1pc. 50pcs. 1pc. 50pcs. 1pc. 50pcs. 2pcs. 50pcs. 2pcs. 50pcs. 1pc. 50pcs. 1pc. 50pcs. 1pc. 50pcs. 1pc. 50pcs. 1pc. 50pcs.

417	cleat
418	eyebolt
419	cleat
420	boat
421	boat
422-443	
444	boat
445	boat
446-448	
449	boat
450a	boat
450b	boat
451	boat
452	boat
453	boat
454	boat
455	boat
456	pins
457a-h	boat
458	boat
459	eyebolt
460	oar
461	oar
462	oar
463	rigging
464	main mast
466	flag mast
467	flag mast
468	fore mast
470	flag mast
471	flag mast
472	yard
473	yard
474	yard
475	yard
476	rigging
477	flag mast
478	flag mast
479	rigging
480	yard
481	yard
482	rigging
483	flag mast
484	flag mast
485	rigging
486	flag mast
487	flag mast
488	anchor
489	ring
490	flag pole
491	flag pole
492	flag pole
493	flag pole
494	flag pole
495	flag pole
496	flag pole
497	flag pole
498	rigging
499	rigging
500	rigging
501	rigging
502	rigging
503	block
504	block
505	pin

wood 2mm	lpc.
eyebolt	50pcs.
wood 2mm	1pc.
plywood 1,5mm	1pc.
plywood 1,5mm	2pcs.
plywood 1,5mm	1pc.
plywood 1,5mm	2pcs.
plywood 1,5mm	1pc.
veneer 0,6mm veneer 0,6mm	1pc. 1pc.
veneer 0,6mm	1pc.
veneer 0,6mm	2pcs.
veneer 0,6mm	2pcs. 1pc.
veneer 0,6mm	1pc.
veneer 0,6mm	2pcs.
veneer 0,6mm	1pc.
strip 1x2mm	12pcs.
dowel 1mm	1pc.
veneer 0,6mm	2pcs.
veneer 0,6mm	2pcs.
eyebolt	50pcs.
dowel 3mm	61pc.
veneer 0,6mm	118pcs.
veneer 0,6mm	59pcs.
rigging 0,25mm	20m
dowel 8mm	2pcs.
dowel 2mm	lpc.
dowel 3mm	61pc.
dowel 6mm	4pcs.
dowel 2mm dowel 3mm	lpc.
	61pc.
dowel 8mm dowel 6mm	2pcs.
dowel 3mm	4pcs. 61pc.
dowel 3mm	61pc.
rigging 0,75mm	20m
dowel 2mm	1pc.
dowel 3mm	61pc.
rigging 0,25mm	20m
dowel 4mm	1pc.
dowel 4mm	1pc.
rigging 0,75 mm	20m
dowel 2mm	1pc.
dowel 3mm	61pc.
rigging 0,25mm	20m
dowel 3mm	61pc.
dowel 4mm	1pc.
resin part	2pcs.
ring 4mm	2pcs.
dowel 2mm dowel 3mm	lpc.
dowel 2mm	61pc.
dowel 3mm	lpc.
dowel 2mm	61pc. 1pc.
dowel 3mm	61pc.
dowel 2mm	1pc.
dowel 3mm	61pc.
rigging 1,5mm	0,25m
rigging 0,5mm	20m
rigging 1mm	10m
rigging 0,5mm	20m
rigging 0,25mm	20m
block 7mm violin	18pcs.
block 5mm one hole	55pcs.
dowel 1mm	1pc.

537 block 538 rigging 539 block 540 rigging 541 block 542 rigging 543 block 544 rigging 545 block 546 rigging 547 block 548 rigging 549 decoration 550 rigging 551 rigging 552 block 553 rigging 554 block 555 block 556 rigging 557 block 556 rigging 557 block 560 rigging 551 block 560 rigging 561 block 562 rigging 563 block 564 rigging 565 block 566 fore sail	506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 535 536 527	rigging rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block rigging block
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D/X ton	566 567 568 569-577	fore sail main sail cord flag

rigging 0,75mm
rigging 0,5mm
block 5mm two holes
rigging 0,75mm
rigging 0,5mm
block 5mm one hole
rigging 1mm
rigging 0,5mm
block 5mm tři díry
rigging 1mm
rigging 0,5mm
block 5mm tři díry
rigging 0,75mm
rigging 0,5mm
block 5mm two holes
block 5mm one hole
rigging 0,75mm
rigging 0,5mm
block 5mm two holes
rigging 1mm
rigging 0,5mm
block 7mm violin
block 5mm one hole
rigging 0,75mm
rigging 0,5mm
block 5mm one hole
rigging 0,5mm
block 5mm one hole
rigging 1mm
rigging 0,5mm
block 5mm two holes
block 5mm one hole
rigging 0,5mm
block 5mm one hole
rigging 0,5mm
rigging 0,5mm block 5mm two holes
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20m 20m 16pcs. 20m 20m 55pcs. 10m 20m 5pcs. 10m 20m 5pcs. 20m 20m 16pcs. 55pcs. 20m 20m 16pcs. 10m 20m 18pcs. 55pcs. 20m 20m 5pcs. 20m 55pcs. 10m 20m 16pcs. 55pcs. 20m 55pcs. 20m 16pcs. 20m 55pcs. 20m 55pcs. 20m 55pcs. 10m 1pc. 20m 20m 55pcs. 20m 55pcs. 16pcs. 20m 55pcs. 20m 55pcs. 20m 55pcs. 20m 55pcs. 20m 55pcs. 1pc. 1pc. 0,5m 1pc. 4pcs.

579	top	veneer 0,6mm	1pc.
580,581		photoetched part	1pc.
582	rollers	rollers	80pcs.
583	hinges	photoetched part	2pcs.
584	hinges	photoetched part	1pc.
585	hinges	photoetched part	lpc.
586	thin plate	veneer 0,6mm	1pc.
587	pins	wire 0,5mm	0,2m
588	rudder	photoetched part	2pcs.
589	rudder	photoetched part	1pc.
590	rudder	photoetched part	1pc.
591	oar	plywood 1,5mm	10pcs.
592	decoration	photoetched part	1pc.
593	decoration	veneer 0,6mm	1pc.
594			
595	decoration	veneer 0,6mm	1pc.
	7		
598a	lantern small	resin part	2pcs.
	lantern small	veneer 0,6mm	4pcs.
598d	lantern small	veneer 0,6mm	2pcs.
598e,f	lantern small	veneer 0,6mm	12pcs.
598g	lantern small	resin part	2pcs.
599a	lantern large	resin part	1pc.
	lantern large	veneer 0,6mm	2pcs.
599d	lantern large	veneer 0,6mm	1pc.
599e,f	lantern large	veneer 0,6mm	6pcs.
599g	lantern large	resin part	1pc.
600-603	3 decoration	veneer 0,6mm	1pc.
604	wire	wire 0,5mm	0,2m
605			
606a	decoration	resin part	1pc.
606b	decoration	photoetched part	1pc.
607,608	3 decoration	resin part	2pcs.
609,610) stand	plywood 3mm	1pc.
611	stand	dowel 6mm	4pcs.
612	sail	rigging 1mm	10m
613	sail	rigging 0,25mm	20m