## 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:

1) Modeler's knife or scalpel
2) Mini drilling machine
3) Drill bits
4) Selection of abrasive paper
5) Scissors
6) Pliers
7) Clothes pegs or crocodile clips
8) Pencil
9) Rule
10) Set of needle files
11) Electric plank bender
12) 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 37 a .
2) Then plank the hull by strips 37 b .
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 58 b.
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 51 a, $53,54,55$ and 56 as it is shown in det. B.
7) Then plank the deck by strips 51 b and glue cover 52 a with handles 52 b into their positions.
8) Then glue strips 57 to the side parts 49 b.
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. 1: 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 599 c. Finally glue also top parts 599 b, 599 c and 599 g 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 $457 \mathrm{a}-\mathrm{h}$ and 458 . Start the planking with planks 457 a and then glue gradually other planks $457 \mathrm{~b}-\mathrm{h}$ and then glue hinges 588599 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 | plywood 3mm | 1 pc . |
| :---: | :---: | :---: | :---: |
| 15 | reinforcement | dowel 6 mm | 4pcs. |
| 16-17 | mast foot | plywood 3mm | 1 pc . |
| 18-21 | frames | plywood 3mm | 1 pc . |
| 22-24 | frames | plywood 3mm | 2 pcs . |
| 25-26 | frames | plywood 3 mm | 2 pcs . |
| 27 | pins | dowel 6 mm | 4 pcs . |
| 28 | frames | plywood 3mm | 2pcs. |
| 29 | frames | plywood 3mm | 2 pcs . |
| 30-31 | deck | plywood 3mm | 1 pc . |
| 32 | deck | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 33 | mast foot | wood 3mm | 1 pc . |
| 34 | pins | dowel 3 mm | 61 pc . |
| 35 | rigging | rigging rope $0,75 \mathrm{~mm}$ | 20 m |
| 36 | block | block $12 \times 5 \mathrm{~mm}$ | 2 pcs . |
| 37 | planking | strip $2 \times 5 \mathrm{~mm}$ | 50pcs. |
| 38 | block | dowel 2 mm | 1 pc . |
| 39 | hinges | wire $0,5 \mathrm{~mm}$ | 0,2m |
| 40 |  |  |  |
| 41 | deck | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 42,43 | frames | wood 2 mm | 1 pc . |
| 44-48 | keel | wood 3mm | 1 pc . |
| 49a, b | beam | veneer $0,6 \mathrm{~mm}$ | 2pcs. |
| 50 | beam | veneer $0,6 \mathrm{~mm}$ | 4pcs. |
| 51,51a | deck | veneer $0,6 \mathrm{~mm}$ | 20Pcs. |
| 52a | cover | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 52b | handles | photoetched parts | 2 pcs . |
| 53 | platform | wood 2 mm | 2 pcs . |
| 54 | platform | strip 1x3mm | 60pcs. |
| 55 | tackle | dowel 2 mm | 1 pc . |
| 56 | platform | strip $2 \times 2 \mathrm{~mm}$ | 20 pcs . |
| 57 | beam | strip $1 \times 1 \mathrm{~mm}$ | 14pcs. |
| 58 | deck | veneer $0,6 \mathrm{~mm}$ | 20pcs. |
| 58a | hatches | veneer $0,6 \mathrm{~mm}$ | 5pcs. |
| 59a | hatches | veneer $0,6 \mathrm{~mm}$ | 10pcs. |
| 59 b | hatches | veneer $0,6 \mathrm{~mm}$ | 5pcs. |
| 60a-c | wales | strip $2 \times 2 \mathrm{~mm}$ | 20 pcs . |
| 61 | planking | strip $1 \times 3 \mathrm{~mm}$ | 60 pcs . |
| 62 | hawse holes | strip 1 x 1 mm | 14 pcs . |
| 63 | bending jig | plywood 3mm | 1 pc . |
| 64-69 | deck | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 70 | deck | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 71 | Reinforcements | wood 2 mm | 2 pcs . |
| 72 | Reinforcements | wood 2 mm | 2pcs. |
| 73 | Reinforcements | strip 1x1mm | 10pcs. |
| 74,75 | frames | wood 2 mm | 2 pcs . |
| 76a | beam | wood 2 mm | 2 pcs . |
| 76b | beam | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 77-143 | frames | plywood 1,5mm | 1 pc . |
| 144-210 | frames | plywood 1,5mm | 1 pc . |
| 211 | beam | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 212 | beam | strip $1 \times 2 \mathrm{~mm}$ | 12pcs. |
| 213 | beam | wood 2 mm | 2 pcs . |
| 214 | beam | wood 2 mm | 1 pc . |
| 215 | beam | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 216 | beam | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 217-226 | frames | plywood 1,5mm | 2 pcs . |
| 227 | beam | strip $1 \times 3 \mathrm{~mm}$ | 60pcs. |
| 228 | beam | strip $1 \times 1 \mathrm{~mm}$ | 14 pcs . |
| 229 | beam | strip 1x2mm | 12pcs. |
| 230 | side wals | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 231-233 | beam | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 234 | stanchions | wood 2 mm | 4 pcs . |
| 235 | beam | wood 2 mm | 3 pcs . |
| 236-238 | beam | wood 2mm | 2 pcs . |


| 239 | benches | veneer $0,6 \mathrm{~mm}$ | 59pcs. |
| :---: | :---: | :---: | :---: |
| 240,241 | benches | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 242 | benches | veneer $0,6 \mathrm{~mm}$ | 59 pcs . |
| 243 | benches | veneer $0,6 \mathrm{~mm}$ | 59 pcs . |
| 244 | strip | veneer $0,6 \mathrm{~mm}$ | 3 pcs . |
| 245 | benches | strip $2 \times 2 \mathrm{~mm}$ | 20 pcs . |
| 246 | benches | wood 2 mm | 59pcs. |
| 247,248 | deck | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
|  |  |  |  |
| 250 | deck | veneer $0,6 \mathrm{~mm}$ | 2pcs. |
| 251 | deck | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 252 | deck | veneer $0,6 \mathrm{~mm}$ | 38pcs. |
| 253 | railing | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 254 | deck | veneer $0,6 \mathrm{~mm}$ | 81 pc . |
|  |  |  |  |
| 256 | deck | veneer $0,6 \mathrm{~mm}$ | 13pcs. |
| 257 | deck | veneer $0,6 \mathrm{~mm}$ | 20pcs. |
| 258 | deck | veneer $0,6 \mathrm{~mm}$ | 20pcs. |
| 259 | strip | strip $2 \times 2 \mathrm{~mm}$ | 20 pcs . |
| 260 | strip | strip $2 \times 2 \mathrm{~mm}$ | 20 pcs . |
| 261 | thin plate | strip 1x2mm | 12pcs. |
| 262 | strip | strip $2 \times 2 \mathrm{~mm}$ | 18pcs. |
| 263 | beam | wood 2 mm | 2 pcs . |
| 264 | deck | veneer $0,6 \mathrm{~mm}$ | 20 pcs . |
| 265 | strip | strip 1x1mm | 14pcs. |
| 266 | reinforcement | wood 2 mm | 6 pcs . |
| 267 | strip | strip 1x3mm | 60pcs. |
| 268,269transverse beam |  | wood 2 mm | 3 pcs . |
| 270, 271boat stand |  | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 272 | reinforcement | wood 2 mm | 2 pcs . |
| 273 | boat stand | wood 2 mm | 2pcs. |
| 274-290 frames |  | plywood 1,5mm | 2pcs. |
| 291, 292strip |  | strip 1x2mm | 12pcs. |
| 293a | decoration | wood 3 mm | 1 pc . |
| 293b | decoration | resin part | 1 pc . |
| 294 | frames | plywood 3mm | 3 pcs . |
| 295 | strip | strip 1x3mm | 60pcs. |
| 296,297 frames |  | wood 2 mm | 1 pc . |
| 298 | stripy | strip $1 \times 3 \mathrm{~mm}$ | 60pcs. |
| 299 | board | wood $1,5 \mathrm{~mm}$ | 1 pc . |
| 300-303 decoration |  | resin part | 1 pc . |
| 304 | board | wood2mm | 1 pc . |
| 305 | rudder | wood 3mm | 1 pc . |
| 306a,b | rudder | wood 3mm | 1 pc . |
| 306c | rudder | wood 2 mm | 2pcs. |
| 307 | benches | veneer $0,6 \mathrm{~mm}$ | 2pcs. |
| 308,309 benches |  | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 310 | benches | veneer $0,6 \mathrm{~mm}$ | 9 pcs . |
| 311 | railing | veneer $0,6 \mathrm{~mm}$ | 32pcs. |
| 312-314 railing |  | wood 2 mm | 32pcs. |
| 315 | railing | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 316 | railing | strip 1x2mm | 12pcs. |
| 317 | reinforcement | wood 2 mm | 1 pc . |
| 318,319 railing |  | resin part | 1 pc . |
|  |  |  |  |
| 322a-c | příčný strip | wood 2 mm | 2 pcs . |
| 323a | lantern | veneer $0,6 \mathrm{~mm}$ | 2pcs. |
| 323b | lantern | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 324-335 roof frames |  | plywood 1,5mm | 1 pc . |
| 336 | strip | wood 2 mm | 2 pcs . |
| 337 | strip | veneer $0,6 \mathrm{~mm}$ | 20pcs. |
| 338 | strip | veneer $0,6 \mathrm{~mm}$ | 5pcs. |
| 339 | swivel gun | resin part | 10pcs. |
| 340 | swivel gun stand | strip $3 \times 3 \mathrm{~mm}$ | 1 pc . |
| 341a | swivel gun | veneer $0,6 \mathrm{~mm}$ | 10pcs. |


| 341b | swivel gun | wood 2 mm | 10pcs. |
| :---: | :---: | :---: | :---: |
| 342 | gun | resin part | 1 pc . |
| 343,344 | gun | resin part | 2 pcs . |
| 345 | gun carriage | wood 2 mm | 2 pcs . |
| 346 | gun carriage | wood $1,5 \mathrm{~mm}$ | 4pcs. |
| 347 | gun carriage | wood 1 mm | 4pcs. |
| 348 | gun carriage | wood 2 mm | 1 pc . |
| 349 | gun carriage | wood $1,5 \mathrm{~mm}$ | 2pcs. |
| 350 | gun carriage | wood 1 mm | 2 pcs . |
| 351 | gun carriage | wood 2 mm | 1 pc . |
| 352 | gun carriage | wood 2 mm | 2 pcs . |
| 353 | gun carriage | wood 2 mm | 2 pcs . |
| 354 | galley | strip $2 \times 2 \mathrm{~mm}$ | 20pcs. |
| 355 | galley | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 356 | galley | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 357 | galley | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 358-360 | galley | resin part | 1 pc . |
| 361 | galley | wire $0,5 \mathrm{~mm}$ | 0,2m |
| 362 | galley | wire $0,5 \mathrm{~mm}$ | 0,2m |
| 363 | galley | chain | 0,1m |
| 364 | galley | wire $0,3 \mathrm{~mm}$ | 0,1m |
| 365 | galley | wire $0,3 \mathrm{~mm}$ | 0,1m |
| 366a | stairs | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 366b | stairs | veneer $0,6 \mathrm{~mm}$ | 6pcs. |
| 367-372 | stairs | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 373-375 | gun carriage ironwork | photoetched part | 2 pcs . |
| 376,377 | decoration | photoetched part | 2 pcs . |
| 378,379 | decoration | photoetched part | 3 pcs . |
| 380 | decoration | photoetched part | 3 pcs . |
| 381 | dead eyes fitting | photoetched part | 16 pcs . |
| 382 | eyebolt | eyebolt | 50pcs. |
| 383 | eyebolt | eyebolt | 50 pcs . |
| 384 | eyebolt | eyebolt | 50 pcs . |
| 385 | eyebolt | eyebolt | 50 pcs . |
| 386 | eyebolt | eyebolt | 50 pcs . |
| 387 | eyebolt | eyebolt | 50 pcs . |
| 388 | cleat | wood 2mm | 2 pcs . |
| 389 | eyebolt | eyebolt | 50pcs. |
| 390 | cleat | wood 2mm | 2 pcs . |
| 391 | eyebolt | eyebolt | 50pcs. |
| 392 | cleat | wood 2mm | 2 pcs . |
| 393 | eyebolt | eyebolt | 50pcs. |
| 394 | cleat | wood 2mm | 1 pc . |
| 395 | eyebolt | eyebolt | 50pcs. |
| 396 | eyebolt | eyebolt | 50 pcs . |
| 397 | cleat | wood 2mm | 1 pc . |
| 398 | eyebolt | eyebolt | 50pcs. |
| 399 | cleat | wood 2mm | 1 pc . |
| 400 | eyebolt | eyebolt | 50pcs. |
| 401 | cleat | wood 2mm | 1 pc . |
| 402 | eyebolt | eyebolt | 50pcs. |
| 403 | cleat | wood 2mm | 2 pcs . |
| 404 | eyebolt | eyebolt | 50 pcs . |
| 405 | cleat | wood 2mm | 2 pcs . |
| 406 | eyebolt | eyebolt | 50pcs. |
| 407 | cleat | wood 2mm | 1 pc . |
| 408 | eyebolt | eyebolt | 50pcs. |
| 409 | cleat | wood 2mm | 1 pc . |
| 410 | eyebolt | eyebolt | 50pcs. |
| 411 | cleat | wood 2mm | 1 pc . |
| 412 | eyebolt | eyebolt | 50pcs. |
| 413 | cleat | wood 2mm | 1 pc . |
| 414 | eyebolt | eyebolt | 50pcs. |
| 415 | cleat | wood 2mm | 1 pc . |
| 416 | eyebolt | eyebolt | 50pcs. |


| 417 | cleat | wood 2 mm | 1 pc . |
| :---: | :---: | :---: | :---: |
| 418 | eyebolt | eyebolt | 50pcs. |
| 419 | cleat | wood 2 mm | 1 pc . |
| 420 | boat | plywood 1,5mm | 1 pc . |
| 421 | boat | plywood 1,5mm | 2 pcs . |
| 422-443 | boat | plywood 1,5mm | 1 pc . |
| 444 | boat | plywood 1,5mm | 2 pcs . |
| 445 | boat | plywood 1,5mm | 1 pc . |
| 446-448 | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 449 | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 450a | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 450b | boat | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 451 | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 452 | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 453 | boat | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 454 | boat | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 455 | boat | strip 1x2mm | 12pcs. |
| 456 | pins | dowel 1 mm | 1 pc . |
| 457a-h | boat | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 458 | boat | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 459 | eyebolt | eyebolt | 50pcs. |
| 460 | oar | dowel 3mm | 61 pc . |
| 461 | oar | veneer $0,6 \mathrm{~mm}$ | 118pcs. |
| 462 | oar | veneer $0,6 \mathrm{~mm}$ | 59 pcs . |
| 463 | rigging | rigging $0,25 \mathrm{~mm}$ | 20 m |
| 464 | main mast | dowel 8 mm | 2 pcs . |
| 466 | flag mast | dowel 2 mm | 1 pc . |
| 467 | flag mast | dowel 3mm | 61 pc . |
| 468 | fore mast | dowel 6 mm | 4 pcs . |
| 470 | flag mast | dowel 2 mm | 1 pc . |
| 471 | flag mast | dowel 3 mm | 61 pc . |
| 472 | yard | dowel 8 mm | 2 pcs . |
| 473 | yard | dowel 6 mm | 4 pcs . |
| 474 | yard | dowel 3mm | 61 pc . |
| 475 | yard | dowel 3mm | 61 pc . |
| 476 | rigging | rigging $0,75 \mathrm{~mm}$ | 20 m |
| 477 | flag mast | dowel 2 mm | 1 pc . |
| 478 | flag mast | dowel 3mm | 61 pc. |
| 479 | rigging | rigging $0,25 \mathrm{~mm}$ | 20 m |
| 480 | yard | dowel 4mm | 1 pc . |
| 481 | yard | dowel 4mm | 1 pc . |
| 482 | rigging | rigging $0,75 \mathrm{~mm}$ | 20m |
| 483 | flag mast | dowel 2 mm | 1 pc . |
| 484 | flag mast | dowel 3mm | 61 pc. |
| 485 | rigging | rigging $0,25 \mathrm{~mm}$ | 20 m |
| 486 | flag mast | dowel 3mm | 61 pc . |
| 487 | flag mast | dowel 4 mm | 1 pc . |
| 488 | anchor | resin part | 2 pcs . |
| 489 | ring | ring 4 mm | 2 pcs . |
| 490 | flag pole | dowel 2 mm | 1 pc . |
| 491 | flag pole | dowel 3 mm | 61 pc . |
| 492 | flag pole | dowel 2 mm | 1 pc . |
| 493 | flag pole | dowel 3 mm | 61 pc. |
| 494 | flag pole | dowel 2 mm | 1 pc . |
| 495 | flag pole | dowel 3 mm | 61 pc . |
| 496 | flag pole | dowel 2 mm | 1 pc . |
| 497 | flag pole | dowel 3 mm | 61pc. |
| 498 | rigging | rigging $1,5 \mathrm{~mm}$ | 0,25m |
| 499 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 500 | rigging | rigging 1 mm | 10 m |
| 501 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 502 | rigging | rigging $0,25 \mathrm{~mm}$ | 20 m |
| 503 | block | block 7 mm violin | 18pcs. |
| 504 | block | block 5mm one hole | 55 pcs . |
| 505 | pin | dowel 1 mm | 1 pc . |


| 506 | rigging | rigging $0,75 \mathrm{~mm}$ | 20 m |
| :---: | :---: | :---: | :---: |
| 507 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 508 | block | block 5mm two holes | 16pcs. |
| 509 | rigging | rigging $0,75 \mathrm{~mm}$ | 20 m |
| 510 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 511 | block | block 5 mm one hole | 55pcs. |
| 512 | rigging | rigging 1 mm | 10 m |
| 513 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 514 | block | block 5mm tři díry | 5pcs. |
| 515 | rigging | rigging 1 mm | 10 m |
| 516 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 517 | block | block 5 mm tři díry | 5 pcs . |
| 518 | rigging | rigging $0,75 \mathrm{~mm}$ | 20m |
| 519 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 520 | block | block 5 mm two holes | 16 pcs . |
| 521 | block | block 5mm one hole | 55 pcs . |
| 522 | rigging | rigging $0,75 \mathrm{~mm}$ | 20m |
| 523 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 524 | block | block 5 mm two holes | 16 pcs . |
| 525 | rigging | rigging 1 mm | 10 m |
| 526 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 527 | block | block 7 mm violin | 18pcs. |
| 528 | block | block 5mm one hole | 55pcs. |
| 529 | rigging | rigging $0,75 \mathrm{~mm}$ | 20m |
| 530 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 531 | block | block 5 mm one hole | 5pcs. |
| 532 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 533 | block | block 5 mm one hole | 55 pcs . |
| 534 | rigging | rigging 1 mm | 10 m |
| 535 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 536 | block | block 5mm two holes | 16pcs. |
| 537 | block | block 5mm one hole | 55 pcs . |
| 538 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 539 | block | block 5mm one hole | 55 pcs . |
| 540 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 541 | block | block 5mm two holes | 16 pcs . |
| 542 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 543 | block | block 5mm one hole | 55 pcs . |
| 544 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 545 | block | block 5 mm one hole | 55 pcs . |
| 546 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 547 | block | block 5mm one hole | 55 pcs . |
| 548 | rigging | rigging 1 mm | 10m |
| 549 | decoration | photoetched part | 1 pc . |
| 550 | rigging | rigging $0,75 \mathrm{~mm}$ | 20 m |
| 551 | rigging | rigging $0,5 \mathrm{~mm}$ | 20 m |
| 552 | block | block 5mm one hole | 55 pcs . |
| 553 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 554 | block | block 5mm one hole | 55pcs. |
| 555 | block | block 5mm two holes | 16 pcs . |
| 556 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 557 | block | block 5 mm one hole | 55 pcs . |
| 558 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 559 | block | block 5 mm one hole | 55 pcs . |
| 560 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 561 | block | block 5 mm one hole | 55 pcs . |
| 562 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 563 | block | block 5 mm one hole | 55 pcs . |
| 564 | rigging | rigging $0,5 \mathrm{~mm}$ | 20m |
| 565 | block | block 5 mm one hole | 55pcs. |
| 566 | fore sail | cloth | 1 pc . |
| 567 | main sail | cloth | 1 pc . |
| 568 | cord | cord 2 mm | 0,5m |
| 569- | flag | flag | 1 pc . |
| 578 | top | veneer $0,6 \mathrm{~mm}$ | 4pcs. |


| 579 | top | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| :---: | :---: | :---: | :---: |
| 580,581 | top | photoetched part | 1 pc . |
| 582 | rollers | rollers | 80pcs. |
| 583 | hinges | photoetched part | 2 pcs . |
| 584 | hinges | photoetched part | 1 pc . |
| 585 | hinges | photoetched part | 1 pc . |
| 586 | thin plate | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 587 | pins | wire $0,5 \mathrm{~mm}$ | 0,2m |
| 588 | rudder | photoetched part | 2 pcs . |
| 589 | rudder | photoetched part | 1 pc . |
| 590 | rudder | photoetched part | 1 pc . |
| 591 | oar | plywood 1,5mm | 10pcs. |
| 592 | decoration | photoetched part | 1 pc . |
| 593 | decoration | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 594 |  |  |  |
| 595 | decoration | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 596,597 |  |  |  |
| 598a | lantern small | resin part | 2 pcs . |
| 598b,c | lantern small | veneer $0,6 \mathrm{~mm}$ | 4pcs. |
| 598d | lantern small | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 598e,f | lantern small | veneer $0,6 \mathrm{~mm}$ | 12pcs. |
| 598 g | lantern small | resin part | 2 pcs . |
| 599a | lantern large | resin part | 1 pc . |
| 599b,c | lantern large | veneer $0,6 \mathrm{~mm}$ | 2 pcs . |
| 599d | lantern large | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 599e,f | lantern large | veneer $0,6 \mathrm{~mm}$ | 6 pcs . |
| 599 g | lantern large | resin part | 1 pc . |
| 600-603 | decoration | veneer $0,6 \mathrm{~mm}$ | 1 pc . |
| 604 | wire | wire $0,5 \mathrm{~mm}$ | 0,2m |
| 605 |  |  |  |
| 606a | decoration | resin part | 1 pc . |
| 606b | decoration | photoetched part | 1 pc . |
| 607,608 | decoration | resin part | 2pcs. |
| 609,610 | stand | plywood 3mm | 1 pc . |
| 611 | stand | dowel 6 mm | 4pcs. |
| 612 | sail | rigging 1 mm | 10 m |
| 613 | sail | rigging $0,25 \mathrm{~mm}$ | 20 m |

