

INSTRUCTION

KHARKIV SCHOOL of ARCHITECTURE

softCOLLIDER (3x3, outdoor variant)



SPECIFICATION

SPECIFICATION_1.



Balk 50 mm x 50 mm.

1.	3000	mm	1 pc.
2.	2800	mm	18 pc.
3.	2050	mm	3 рс.
4.	2000	mm	10 pc.
5.	1950	mm	2 pc.
6.	1600	mm	16 pc.

Balk 30 mm x 50 mm.

14.	1100 mm	93	pc.
15.	1050 mm	24	pc.
16.	950 mm	12	pc.
17.	900 mm	20	pc.
18.	800 mm	28	pc.

7.	1500	mm	3 рс.
8.	1200	mm	17 pc.
9.	1100	mm	45 pc.
10.	1050) mm	4 pc.
11.	900	mm	18 pc.
12.	800	mm	4 pc.
13.	150	mm	14 pc.

SPECIFICATION_2.



Joints.

1.	Self-tapping	screw.
	3,5x55 mm	200 pc.
2.	4,2x76 mm	400 pc.
3.	Threaded rod	M8 200mm 188 pc.
4.	Nuts M8	376 pc.
5.	Washers M8	376 pc.

Hammock.

9. Tent	fabric	2 pc.
750mm x	1500mm	

Finishing.

6. Rubber p	paint (Blue)	1,2	kg.
7. Bitumen-	rubber mas-	3,5	kg.
tic BauGut	roof water-		
proofing			
8. Jedynka	Impregnat	5 1	
colourless	antiseptic		

WHAT TO DO WITH THE BEAMS?

COLUMNS

ILLUSTRATION (COLUMNS)

All elements of the columns are signed with numbers, it is important not to confuse them.

In our project, the columns were dug into the ground by 400 mm. The dimensions in the instructions are given with an additional 400 mm.

16.

11.

If the structure is to stand indoors and no foundation is required, subtract 400 mm from the bottom of each column.







2.



10.

5.



9.





6.

RECOMMENDATION.

We recommend making templates from plywood, timber, etc. for the holes.

In the following instructions, the dimensions for drilling will be set according to the templates.







BEAMS





SPECIFICATION_4.



HAMMOCK.

IMPORTANT!

A hammock is put on 2x2050 mm and 2x1100 mm beams, it is important not to miss this moment, because it is put on after the beams are in place, but before they are fixed and screwed.





HAMMOCK.



SPECIFICATION_5.

The holes are marked 150 mmaccording to the templates. The holes are drilled with a 9 mm or 10 mm drill bit on a drilling machine (preferably) or with a screwdriver. 150 mm. 800 mm 800 mm

ILLUSTRATION (OTHER REQUIRED BEAMS WITH HOLES)



SPECIFICATION_6. (OTHER REQUIRED BEAMS WITH HOLES)



DIAGONALS

ILLUSTRATION.



The diagonals are mounted with 4 x 76 mm screws



SPECIFICATION_7.



PLANS WITH DIMENSIONS FOR BATTENS





Distance between boards $15\ mm$

Fastening the boards to the beams.



All boards are mounted on 4 beams.

Some edge boards (800mm and 950mm) can be mounted on 2 or 3 beams respectively.

PLANS. (COLUMN ARRANGEMENT + DIMENSIONS)





1000	500	100	Ømm	
			_	24

PLANS. Зx 800 mm 12x 1100 mm 3x 800 mm 3x 800 mm 12x 1100 mm

> 3x 950 mm

0mm 1000 500 100

25

 $\underset{(2 \text{ tier})}{\mathsf{PLANS}}$.





100 0mm 500 1000 26 + +

H

PLANS.



1 1	15x				3×	
					0X	
Г	1100 mm		Г		800 mm	
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 $\underset{(4 \text{ tier})}{\mathsf{PLANS}}$.





1000	500	100	0mm	
				20
				20

JOINTS

JOINT. (principle of frame assembly)



A typical joint.



RAILINGS



The vertical arrangement of the boards prevents children from climbing on them.



The board is attached to the timber with 55mm screws



Board spacing no more than 100mm

Board width 50mm

3D MODEL



The link leads to GoogleDrive with the file **.SKP** (SketchUp format)

A detailed 3D model with elaborate details will be the best addition to the manual.





OTHER CONFIGURA-TIONS

VARIABILITY.

This structure retains the ability to be easily scaled up if desired.

For example.



1x1







THE FINAL RESULT



The result. a successfully completed and tested object.



