

# Catalogue

## Beekeeping equipment – wood



*Royal Box PS Ltd.*  
*Woodworking workshop*  
*Sofia, Bulgaria*  
[www.royalbox.eu](http://www.royalbox.eu)

## Common

---

This catalogue aims to cover the majority of our beekeeping production. Royal Box PS Ltd reserves the right to change the contents of this catalogue to accommodate for new products, offers and discounts. Please visit our website for updated information. Our company is dedicated to satisfying the customer's needs, so if you didn't find the product you are looking for in this catalogue, or want a modified version of an existing product do not hesitate to make an enquiry with our office.

Our valued customers are based in various European countries and we understand the national beekeeping techniques and traditions differ. The challenge for us beekeeping equipment suppliers is to be flexible enough to accommodate for the ever expanding variety of products and we have turned this into our goal.

# Table of Contents

---

Section A. Hives, Nucleus etc. – Here you can find our Langstroth, Dadant-Blatt and Farrar products	p.4
Section A, Part C - Corpses/Boxes	p.6
Disassembled boxes, screws/nails - CDS series	p.9
Disassembled boxes, dovetailed - CDT series	p.10
Preassembled boxes, screws/nails – CAS series	p.11
Preassembled boxes, dovetailed – CAT series	p.12
Options applicable to all type boxes/corpses	p.13
Section A, Part B – Bottom boards (Bottoms)	p.14
Flat bottoms, non ventilated – BF series	p.15
Flat bottoms, ventilated – BV series	p.16
Flat bottoms, widely ventilated – BS series	p.17
Flat bottoms, widely ventilated, multifunctional – BW series	p.18
Varoa bottoms, multifunctional – BR series	p.19
Multipurpose bottoms, double layer – BD series	p.20
Section A, Part R – Roofs	p.21
Flat roof, simple – RS series	p.22
Flat roof, extended – RE series	p.23
Sloping roof, extended – RG series	p.24
Pitched roof, extended – RP series	p.25
Options applicable to all type roofs	p.26
Section A, Part F – Inner covers, Feeders, Crown boards, etc.	p.27
Crown board – FCB series	p.28
Inner cover/ Feeder – FIC series	p.29
Inner cover/ Feeder w/removable plates – FIM series	p.30
“Warm” feeder w/ plastic bottom – FWA series	p.31
“Warm” feeder w/ plastic bottom – FWB series	p.32
Miller Feeder – FMI series	p.33
Section A, Part S – Accessories	p.34
Section B, Small nuclei, Mini Plus, Mating hives & their frames	p.36
Small nuclei – NS series	p.37
Small nuclei – NT series	p.37
Mini Plus nuclei/ Mating hive & frames – MP series	p.39
Mating hive & frames – MM series	p.40
Section C, Frames	p.41
Top bars	p.42
Side bars	p.43
Bottom bars	p.45

---

## Section A

### Hives, Nuclei, etc.

---



- ***Modified Dadant Blatt***
- ***Langstroth***
- ***Farrar***
- ***and the corresponding nuclei for all beehive models***



All beehives consist of:

- A single or multiple broods and one or more supers conceivably, hereinafter referred to as box/corps/housing. The brood depth could vary.
- Outer cover
- Inner cover and/or a feeder as desired
- Bottom board
- Accessories optionally
- Frames

Typically, the elements of the different beehives of this group are interchangeable, provided the inner and outer dimensions match. For example, one could use Dadant Blatt's bottom board on a multi-brood Langstroth and vice versa. Similarly, one could use broods of various dimensions, supplied with assorted accessories to suit your individual purposes.

Because of this, the beehive and nuclei parts are presented as separate entities, with the corresponding assortments explained. Therefore, once you have selected your desired configuration, placing an order is as simple as providing us with a list of catalogue numbers.

A nucleus is a miniaturized beehive that usually contains 4 to 6 frames, 1 or 2 broods that could be of varying depths. It has a principally identical functionality to the corresponding full-size beehive but is aimed at accommodating a young family, providing an appropriately sized house until it is fully developed and ready for a transfer. However, the nucleus can be used for different purposes and a favourably sized family can comfortably spend the entire winter in it.

Beehive and nucleus frames are catalogued separately. Furthermore, you can find the British Modified National and Commercial, Mini Plus and WBC configuration specifications, as well as queen mating nuclei which are under unified configuration.

The following section lists the beehive elements in the order:

- Supers and broods, referred as boxes/corpses
- Bottom boards
- Outer covers
- Inner covers and feeders, and

the corresponding assortments and accessories, as well as amount of options available to each product or series. The options are listed separately since they are put upon request and are charged apart.

---

# Section A

## Part C – Boxes/Corpses (Housing)



### Disassembled vs. Pre-assembled

A corpus can be ordered pre-assembled or disassembled, based on your personal preferences. The benefits of ordering a disassembled corpus are: manufacturing times and logistics costs are significantly reduced, and the beekeeper is given the chance to be part of the construction process. Should you choose a pre-assembled corpus, you will receive a product that is ready to use. The assembly quality is guaranteed to meet the durability, geometry and stability standards.

### Screws & Nails vs. Dovetail

Both pre-assembled and disassembled elements come in two joint types. We offer the traditional dovetail joint, or the cheaper screw and nail joint. The majority of our clients would choose a screw and nail joint but its durability, stability and endurance figures are considerably inferior than those of a dovetail joint. If you value your beekeeping supplies, we suggest you select the traditional dovetail joint that has been perfected over centuries. It will ensure a piece of mind as it is proven to last up to 10 times longer, pushing back the need to invest in new equipment by years.

Following are three of the most important parameters explained:

- Wood thickness
- Inner and outer dimensions
- Wood quality



## Wood thickness

You select the wood thickness that suits you and your bees. The usual figures are 20, 22, 24, 25 and 30mm (0.78, 0.86, 0.94, 0.98 and 1.18 inches). There are other dimensions available, but please keep in mind that for uncommon wood thickness it could take up to two weeks for the wood to be delivered to our warehouse. Usually, we have in stock all sizes from 19mm- (0.74 inch) to 30mm (1.18 inches) thick wood since these are the most common figures on the UK and the most of the European markets respectively. Also available is 35mm- (1.37 inch) wood as it is habitual to the Bulgarian market.

The price of the corpus is then calculated based on the group it belongs to, as explained below:

- Group 1: 20mm (from 20mm to 22mm)
- Group 2: 25mm ( between 24mm and 25mm)
- Group3: 30mm (from 28mm to 30mm)

Please make sure you familiarise yourself with the procedure of specifying a desired wood thickness. Because this is a vital part of your order we will verify the selected values. However, we assume no responsibility should you fail to cite correctly your desired wood thickness.

## Size – width, height, and length – adaptive

The dimensions of a corpus are a major functionality defining component that will greatly influence the final price of your order and selecting these correctly is crucial for your order. Here we only list the inner dimensions because the outer will be defined by the thickness of the wood.

- Width (in mm) – throughout this catalogue we list the width in terms of frames capacity, i.e. the number of frames held. As an example, the usual 10-frame corpus is stated as to 375 mm inner width. But according to the different state standards in the European countries it could vary between 373 – 376 mm.
- Length (in mm) – the length of a common corpus is equal and is hence not listed here. Usually, the inner width is 450mm, but again variations are between 450- 464mm.
- Depth (in mm) – individual elements could deviate according to the specific element. You could request a personalised measurement provided the fluctuation is within a manner of millimetres. The most common depths are 170mm (166mm to 178mm) – usually called super, 240mm (236mm to 248mm) – brood, and 310mm (306mm to 318mm) – deep brood/jumbo.

So, being familiar with all these differences, we always adapt our sizes to the customer request.

However, it is a customer responsibility to cite correct length/width/depth of the corpses in case you want something different from the measurements stated hereinafter.

## Quality

The wood we use for our products is guaranteed to meet the following criteria:

- All surfaces are flattened and sanded
- Standard deviations in dimensions – less than 2.0mm in width/length, less than 1.0 mm in height
- Humidity is up to 12%
- Quality selection in 3 categories
- **Nature saving selection** – this class is the most eco friendly one. The aim is to optimally use the logs providing as much wood material as possible. This means that the natural look of the wood is preserved, along with the knots. However, this gives the finished product an aesthetic look and feel and we make sure the surfaces are treated so that the knots are sealed in, waterproofed and sanded. Another benefit is the price of the material which is lower than other wood classes. Maximum number of knots per wall: 3.
- **Common quality selection** – this is the most widely used class. Here we aim at achieving the perfect balance between aesthetics and price. Maximum number of knots per wall: 2, of no more than an 1 inch in diameter.
- **Ultimate quality selection** – for those of you who desire perfection. Should you decide to pay the price, we will make sure your beekeeping equipment is to the standards of a high class furniture. Maximum number of knots per wall: 1, provided it is no larger than 0.2inch in diameter. Any larger knots are re-build into the wood. Additionally, we provide fine sanding and luxury finishing procedures upon request.



# Disassembled boxes, screws/nails - CDS series



sample spec: C-20-DS-5-170

<b>C</b>	<b>20</b>	<b>D</b>	<b>S</b>	<b>5</b>	<b>170</b>
corps	20 mm material thickness, or customer specified*	Disassembled, flat pack	Screws** needed when assembly	Width - 5 frames room, =195 mm inside, or 235 mm outside*	170 mm height, or customer specified *

\* see previous pages

\*\* screws, nails, and glue are not included in delivery package

<b>Width, frames</b>	<b>Height, mm</b>		
	<b>170</b>	<b>240</b>	<b>310</b>
<b>5</b>	C-20-DS-5-170	C-20-DS-5-240	C-20-DS-5-310
	C-25-DS-5-170	C-25-DS-5-240	C-25-DS-5-310
	C-30-DS-5-170	C-30-DS-5-240	C-30-DS-5-310
<b>6</b>	C-20-DS-6-170	C-20-DS-6-240	C-20-DS-6-310
	C-25-DS-6-170	C-25-DS-6-240	C-25-DS-6-310
	C-30-DS-6-170	C-30-DS-6-240	C-30-DS-6-310
<b>8</b>	C-20-DS-8-170	C-20-DS-8-240	C-20-DS-8-310
	C-25-DS-8-170	C-25-DS-8-240	C-25-DS-8-310
	C-30-DS-8-170	C-30-DS-8-240	C-30-DS-8-310
<b>10</b>	C-20-DS-10-170	C-20-DS-10-240	C-20-DS-10-310
	C-25-DS-10-170	C-25-DS-10-240	C-25-DS-10-310
	C-30-DS-10-170	C-30-DS-10-240	C-30-DS-10-310
<b>12</b>	C-20-DS-12-170	C-20-DS-12-240	C-20-DS-12-310
	C-25-DS-12-170	C-25-DS-12-240	C-25-DS-12-310
	C-30-DS-12-170	C-30-DS-12-240	C-30-DS-12-310
Extra*	ask	ask	

\* other width is available upon request

# Disassembled boxes, dovetailed - CDT series



sample spec: C-25-DT-10-170

C	25	D	T	10	170
corps	25 mm material thickness, or customer specified*	Disassembled, flat pack	Dovetailed, glue** and eventually nails needed	Width - 10 frames room, =375 mm inside, or 425 mm outside*	170 mm height, or customer specified*

\* see previous pages

\*\* glue and nails are not included in delivery package

Width, frames	Height, mm		
	170	240	310
5	C-20-DT-5-170	C-20-DT-5-240	C-20-DT-5-310
	C-25-DT-5-170	C-25-DT-5-240	C-25-DT-5-310
	C-30-DT-5-170	C-30-DT-5-240	C-30-DT-5-310
6	C-20-DT-6-170	C-20-DT-6-240	C-20-DT-6-310
	C-25-DT-6-170	C-25-DT-6-240	C-25-DT-6-310
	C-30-DT-6-170	C-30-DT-6-240	C-30-DT-6-310
8	C-20-DT-8-170	C-20-DT-8-240	C-20-DT-8-310
	C-25-DT-8-170	C-25-DT-8-240	C-25-DT-8-310
	C-30-DT-8-170	C-30-DT-8-240	C-30-DT-8-310
10	C-20-DT-10-170	C-20-DT-10-240	C-20-DT-10-310
	C-25-DT-10-170	C-25-DT-10-240	C-25-DT-10-310
	C-30-DT-10-170	C-30-DT-10-240	C-30-DT-10-310
12	C-20-DT-12-170	C-20-DT-12-240	C-20-DT-12-310
	C-25-DT-12-170	C-25-DT-12-240	C-25-DT-12-310
	C-30-DT-12-170	C-30-DT-12-240	C-30-DT-12-310
Extra*	ask	ask	

\* other width is available upon request

# Assembled boxes, screws/nails - CAS series



sample spec: C-20-AS-6-170

<b>C</b>	<b>20</b>	<b>A</b>	<b>S</b>	<b>6</b>	<b>170</b>
corps	20 mm material thickness, or customer specified in 20, 21, 22 mm*	Assembled, delivered as ready-to-use box	Screws and nails used in assembly	Width - 6 frames room, =220 mm inside, or 260 mm outside*	170 mm height, or customer specified in 166-178 mm*

\* see previous pages

<b>Width, frames</b>	<b>Height, mm</b>		
	<b>170</b>	<b>240</b>	<b>310</b>
<b>5</b>	C-20-AS-5-170	C-20-AS-5-240	C-20-AS-5-310
	C-25-AS-5-170	C-25-AS-5-240	C-25-AS-5-310
	C-30-AS-5-170	C-30-AS-5-240	C-30-AS-5-310
<b>6</b>	C-20-AS-6-170	C-20-AS-6-240	C-20-AS-6-310
	C-25-AS-6-170	C-25-AS-6-240	C-25-AS-6-310
	C-30-AS-6-170	C-30-AS-6-240	C-30-AS-6-310
<b>8</b>	C-20-AS-8-170	C-20-AS-8-240	C-20-AS-8-310
	C-25-AS-8-170	C-25-AS-8-240	C-25-AS-8-310
	C-30-AS-8-170	C-30-AS-8-240	C-30-AS-8-310
<b>10</b>	C-20-AS-10-170	C-20-AS-10-240	C-20-AS-10-310
	C-25-AS-10-170	C-25-AS-10-240	C-25-AS-10-310
	C-30-AS-10-170	C-30-AS-10-240	C-30-AS-10-310
<b>12</b>	C-20-AS-12-170	C-20-AS-12-240	C-20-AS-12-310
	C-25-AS-12-170	C-25-AS-12-240	C-25-AS-12-310
	C-30-AS-12-170	C-30-AS-12-240	C-30-AS-12-310
Extra*	ask	ask	ask

\* other width is available upon request

# Assembled boxes, dovetailed - CAT series



sample spec: C-25-AT-6-310

<b>C</b>	<b>25</b>	<b>A</b>	<b>T</b>	<b>6</b>	<b>310</b>
corps	25 mm material thickness, or customer specified in 24, 25 mm*	Assembled, delivered as ready-to-use box	Dovetailed, glue and eventually nails used	Width - 6 frames room, =220 mm inside, or 270 mm outside*	310 mm height, or customer specified in 306-318 mm*

\* see previous pages

<b>Width, frames</b>	<b>Height, mm</b>		
	<b>170</b>	<b>240</b>	<b>310</b>
<b>5</b>	C-20-AT-5-170	C-20-AT-5-240	C-20-AT-5-310
	C-25-AT-5-170	C-25-AT-5-240	C-25-AT-5-310
	C-30-AT-5-170	C-30-AT-5-240	C-30-AT-5-310
<b>6</b>	C-20-AT-6-170	C-20-AT-6-240	C-20-AT-6-310
	C-25-AT-6-170	C-25-AT-6-240	C-25-AT-6-310
	C-30-AT-6-170	C-30-AT-6-240	C-30-AT-6-310
<b>8</b>	C-20-AT-8-170	C-20-AT-8-240	C-20-AT-8-310
	C-25-AT-8-170	C-25-AT-8-240	C-25-AT-8-310
	C-30-AT-8-170	C-30-AT-8-240	C-30-AT-8-310
<b>10</b>	C-20-AT-10-170	C-20-AT-10-240	C-20-AT-10-310
	C-25-AT-10-170	C-25-AT-10-240	C-25-AT-10-310
	C-30-AT-10-170	C-30-AT-10-240	C-30-AT-10-310
<b>12</b>	C-20-AT-12-170	C-20-AT-12-240	C-20-AT-12-310
	C-25-AT-12-170	C-25-AT-12-240	C-25-AT-12-310
	C-30-AT-12-170	C-30-AT-12-240	C-30-AT-12-310
Extra*	ask	ask	

\* other width is available upon request

# Options, applicable to all type boxes

---

**-01)** a couple of metal runners mounted



**-02)** a round hole D25mm drilled

**-03)** a plastic slider mounted over the round hole D25mm



**-04)** a subsidiary entrance 8x80mm (up to 10x120 mm) drilled



**-05)** wooden latch board 40x120 mm mounted behind the subsidiary entrance

**-06)** a couple of rabbet inside/outside connection made

**-07)** a couple of outside wooden handles 25x35x120 mm mounted



**-08)** a couple of outside wooden handles full width 20x25 mm mounted



**-09)** a couple of outside metal clevis mounted



**-10)** a couple of outside metal snap fasteners mounted

**-11)** four outside wooden sills (baseboards) mounted



We provide further processing, such as seaming, milling, and additional metal, plastic and wood elements upon request. However, if you ask us to make something beyond the listed products, we need you to send us a specification and a detailed drawing or a photograph with sizes of the desired product.



---

# Section A

## Part B – Bottom boards

---



Some types of bottom boards are the most complicated element of a beehive.

A defining quality factor of a bottom board is its sturdiness because the weight of all other elements and the bee family itself falls on it. The functionality criteria differ across European countries and here we catalogue the most common configurations. However, this catalogue is frequently revised to house more configurations and we are happy to discuss with you your personalised bottom board order, and update the catalogue appropriately. All we need is a drawing and/or photograph of the desired product and a detailed specification. Please note that we can modify existing boards to suit your specific needs.

In order to ensure our product's quality all bottom boards are sold readily assembled.

The depth of the bottom board is defined by the construction it is part of, so the two identifying parameters are:

- Width
- Wood thickness

### **Width & Material thickness**

Should you decide to buy a complete beehive configuration, the board's width, along with the wood thickness are pre-defined to match the complete product.

However, we understand that you may need a bottom board on its own, so we give you the option to do so. All you need to know is the desired width and the wall thickness.



# Flat bottoms, non ventilated - BF series

Common specification:

- Height – 50 mm
- Floor table thickness 15 mm
- Additional length +45/+60 mm



sample spec: B-25-F-6

B	25	F	6
bottom	25 mm material thickness, or customer specified in 24, 25 mm*	Flat board	Width - 6 frames room, =220 mm inside, or 270 mm outside*

\* see previous pages

Width, frames	
5	B-20-F-5 B-25-F-5 B-30-F-5
6	B-20-F-6 B-25-F-6 B-30-F-6
8	B-20-F-8 B-25-F-8 B-30-F-8
10	B-20-F-10 B-25-F-10 B-30-F-10
12	B-20-F-12 B-25-F-12 B-30-F-12
Extra*	ask

Options, applicable to the BF series bottom:

**-41)** enlarged floor table thickness up to 20 mm

**-42)** floor table sloped to the front up to 2%

**-06)** a couple of rabbet inside/outside connection made

**-09)** a couple of outside metal clevis mounted

# Flat bottoms, ventilated - BV series

## Common specification:

- Height – 70 mm
- Floor table thickness 15 mm
- Additional latch full wide 45/60 mm
- Ventilation hole drilled in the floor table round D100 mm or square 100x100 mm
- Wooden lid “open-close” mounted underneath the hole
- Zinc coated mesh 3x3 mounted over the hole



## sample spec: B-25-V-6

B	25	V	6
bottom	25 mm material thickness, or customer specified in 24, 25 mm*	Flat ventilated	Width - 6 frames room, =220 mm inside, or 270 mm outside*

\* see previous pages

Width, frames	
5	B-20-V-5 B-25-V-5 B-30-V-5
6	B-20-V-6 B-25-V-6 B-30-V-6
8	B-20-V-8 B-25-V-8 B-30-V-8
10	B-20-V-10 B-25-V-10 B-30-V-10
12	B-20-V-12 B-25-V-12 B-30-V-12
Extra*	ask

## Options, applicable to the BV series bottom:

**-43)** enlarged floor table thickness up to 25 mm

**-44)** floor table slope to the front up to 2%

**-06)** a couple of rabbet inside/outside connection made

**-09)** a couple of outside metal clevis mounted

**-45)** aluminum mesh instead of zinc coated one

**-46)** stainless steel mesh instead of zinc coated one

# Flat bottoms, widely ventilated, simple - BS series

## Common specification:

- Height – 50 mm
- Floor table thickness 15 mm
- Additional length +45/+60 mm
- “1/3” Ventilation opening in the floor table through the whole width, 150 mm length
- Zinc coated mesh 3x3 mounted over the opening



## sample spec: B-25-S-10

B	25	S	10
bottom	25 mm material thickness, or customer specified in 24, 25 mm*	Widely ventilated simple	Width - 10 frames room, =375 mm inside, or 425 mm outside*

\* see previous pages

Width, frames	
5	B-20-S-5 B-25-S-5 B-30-S-5
6	B-20-S-6 B-25-S-6 B-30-S-6
8	B-20-S-8 B-25-S-8 B-30-S-8
10	B-20-S-10 B-25-S-10 B-30-S-10
12	B-20-S-12 B-25-S-12 B-30-S-12
Extra*	ask

## Options, applicable to the BS series bottom:

**-41)** enlarged floor table thickness up to 20 mm

**-47)** the mesh place can be changed to the front (entrance)

**-06)** a couple of rabbet inside/outside connection made

**-09)** a couple of outside metal clevis mounted

**-45)** aluminum mesh instead of zinc coated one

**-46)** stainless steel mesh instead of zinc coated one

**-47)** sliding plywood table underneath the opening

# Flat bottoms, widely ventilated, multifunctional - BW series

Common specification:

- Height – 70 mm
- Floor table thickness 15 mm
- Additional length +35 mm
- “1/3” Ventilation opening in the floor table through the whole width, 150 mm length
- Zinc coated mesh 3x3 mounted over the opening



sample spec: B-20-W-8

B	20	S	8
bottom	20 mm material thickness, or customer specified in 21, 22 mm*	Widely ventilated simple	Width - 8 frames room, =305 mm inside, or 345 mm outside*

\* see previous pages

Width, frames	
5	B-20-S-5 B-25-S-5 B-30-S-5
6	B-20-S-6 B-25-S-6 B-30-S-6
8	B-20-S-8 B-25-S-8 B-30-S-8
10	B-20-S-10 B-25-S-10 B-30-S-10
12	B-20-S-12 B-25-S-12 B-30-S-12
Extra*	ask

Options, applicable to the BW series bottom:

**-06)** a couple of rabbit inside/outside connection made

**-09)** a couple of outside metal clevis mounted

**-45)** aluminum mesh instead of zinc coated one

**-46)** stainless steel mesh instead of zinc coated one

**-47)** sliding plywood table underneath the opening

**-48)** a drawer full size

**-49)** a drawer half size (length)

# Varoa bottoms, multifunctional - BR series

## Common specification:

- Height – 70 mm
- Zinc coated mesh 3x3 mounted through the whole bottom
- Additional length +35 mm
- A drawer full size (length & width) w/ bottom of galvanized mesh



## sample spec: B-20-R-8

B	20	R	8
bottom	20 mm material thickness, or customer specified in 21, 22 mm*	Varoa	Width - 8 frames room, =305 mm inside, or 345 mm outside*

\* see previous pages

Width, frames	
5	B-20-R-5 B-25-R-5 B-30-R-5
6	B-20-R-6 B-25-R-6 B-30-R-6
8	B-20-R-8 B-25-R-8 B-30-R-8
10	B-20-R-10 B-25-R-10 B-30-R-10
12	B-20-R-12 B-25-R-12 B-30-R-12
Extra*	ask

## Options, applicable to the BW series bottom:

**-06)** a couple of rabbit inside/outside connection made

**-09)** a couple of outside metal clevis mounted

**-45)** aluminum mesh instead of zinc coated one

**-46)** stainless steel mesh instead of zinc coated one

**-49)** a drawer half size

**-50)** a drawer full size w/ plywood bottom

# Multipurpose bottoms, double layer - BD series

Common specification:

- Height – 100 mm
- Two entrances w/ latches 45 mm width
- A wooden table 12 mm thick w/ "1/3" mesh, zinc coated
- A drawer full size (length & width)



sample spec: B-20-D-10

B	20	D	10
bottom	20 mm material thickness, or customer specified in 21, 22 mm*	Double layer, multipurpose	Width - 10 frames room, =375 mm inside, or 415 mm outside*

\* see previous pages

Width, frames	
5	B-20-D-5 B-25-D-5 B-30-D-5
6	B-20-D-6 B-25-D-6 B-30-D-6
8	B-20-D-8 B-25-D-8 B-30-D-8
10	B-20-D-10 B-25-D-10 B-30-D-10
12	B-20-D-12 B-25-D-12 B-30-D-12
Extra*	ask

Options, applicable to the BW series bottom:

- 06) a couple of rabbet inside/outside connection made
- 09) a couple of outside metal clevis mounted
- 45) aluminum mesh instead of zinc coated one
- 46) stainless steel mesh instead of zinc coated one
- 49) a drawer half size
- 50) a drawer full size w/ plywood bottom
- 51) a flat table wooden framed
- 52) a flat table plywood framed w/o mesh



---

# Section A

## Part R – Roofs

---



The main purpose of a roof is to protect the bee family's living space, safeguarding it from rain and snow. Moreover, it mitigates the effects of the great temperature differences between a day and a night on the bees, preventing the hive from overheating or freezing. Therefore, some configurations include an insulation layer.

The roof's functionality and sturdiness, and in some cases it's aesthetics are not to be neglected.... това изречение е особено грозно и не му е тук мястото. Пробвай да го вкараш някъде другаде и с раличен словоред.

Similarly to the bottom boards, the height/depth of the roof is constant across the different configurations for a specific model. The width (and the length respectively) is calculated based on the outer sizes of your desired corpus. In order to fully and comfortably cover the corpus, the inner dimensions of a roof are the outer dimensions of the corpus, plus 6mm.

# Flat roof, simple - RS series

## Common specification:

- Height – 75 mm
- Material thickness of the sides – 13 mm
- Covering table wood, 10 mm thickness
- Covered w/ aluminum tin



## sample spec: R-20-S-6

<b>B</b>	<b>20</b>	<b>S</b>	<b>6</b>
Roof	20 mm material thickness of the corps*	Simple	Width - 6 frames room*

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	R-20-S-5 R-25-S-5 R-30-S-5
<b>6</b>	R-20-S-6 R-25-S-6 R-30-S-6
<b>8</b>	R-20-S-8 R-25-S-8 R-30-S-8
<b>10</b>	R-20-S-10 R-25-S-10 R-30-S-10
<b>12</b>	R-20-S-12 R-25-S-12 R-30-S-12
Extra*	ask

# Flat roof, extended w/ eaves - RE series

## Common specification:

- Height – 95 mm
- Material thickness of the sides – 13 mm
- Covering table wood, 10 mm thickness, +20 mm extended over the sides as eaves
- Covered w/ aluminum tin



sample spec: R-25-E-12

<b>B</b>	<b>25</b>	<b>E</b>	<b>12</b>
Roof	25 mm material thickness of the corps*	Extended w/ eaves	Width - 12 frames room*

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	R-20-E-5 R-25-E-5 R-30-E-5
<b>6</b>	R-20-E-6 R-25-E-6 R-30-E-6
<b>8</b>	R-20-E-8 R-25-E-8 R-30-E-8
<b>10</b>	R-20-E-10 R-25-E-10 R-30-E-10
<b>12</b>	R-20-E-12 R-25-E-12 R-30-E-12
Extra*	ask

# Sloping roof, extended w/ eaves - RG series

## Common specification:

- Height – 95 to 180 mm
- Material thickness of the sides – 13 mm
- Covering table wood, 10 mm thickness, +20 mm extended over the sides as eaves
- Covering table sloping backward 18%
- Covered w/ aluminum tin



sample spec: R-25-G-12

<b>B</b>	<b>25</b>	<b>G</b>	<b>12</b>
Roof	25 mm material thickness of the corps*	Sloping w/ eaves	Width - 12 frames room*

\* see previous pages

## Width, frames

<b>5</b>	R-20-G-5 R-25-G-5 R-30-G-5
<b>6</b>	R-20-G-6 R-25-G-6 R-30-G-6
<b>8</b>	R-20-G-8 R-25-G-8 R-30-G-8
<b>10</b>	R-20-G-10 R-25-G-10 R-30-G-10
<b>12</b>	R-20-G-12 R-25-G-12 R-30-G-12
Extra*	ask

# Pitched roof, extended w/ eaves - RP series

## Common specification:

- Height – 95 to 180 mm
- Material thickness of the sides – 13 mm
- Covering table wood, 10 mm thickness, +20 mm extended over the sides as eaves
- Covering table sloping backward 18%
- Covered w/ aluminum tin



sample spec: R-25-P-10

<b>B</b>	<b>25</b>	<b>P</b>	<b>12</b>
Roof	25 mm material thickness of the corps*	Pitched roof w/ eaves	Width - 12 frames room*

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	R-20-P-5 R-25-P-5 R-30-P-5
<b>6</b>	R-20-P-6 R-25-P-6 R-30-P-6
<b>8</b>	R-20-P-8 R-25-P-8 R-30-P-8
<b>10</b>	R-20-P-10 R-25-P-10 R-30-P-10
<b>12</b>	R-20-P-12 R-25-P-12 R-30-P-12
Extra*	ask

## Options, applicable to all type roofs:

---

**-71)** additional insulation plate XPS 20 mm mounted

**-72)** ventilation - a couple of 3ply vents

**-73)** ventilation - a couple of holes D25 w/ mesh

**-74)** 4 additional inside supports 15x20 mm mounted

up/ down/ in the middle

**-75)** covering table of 6mm plywood instead of the wooden one

**-76)** covering table of 4mm HDF instead of the wooden one

**-77)** top cover of zinc coated tin instead of the aluminum one





---

## Section A

### Part F – Inner covers, Crown boards, Feeders

---



The space directly under the outer cover is usually used to accommodate for auxiliary food supplements for the bee family. Here you will find various accessories to suit the purpose whose design follows the classical techniques combined with the modern requirements. The height of the accessories is defined by the complete beehive product it will become part of, and the width and height are requested by the customer based on the uniform principles we adhere to throughout this catalogue.

# Crown board - FCB series

## Common specification:

- Framed wooden plate
- Thickness of the frame – 10x20 mm
- Thickness of the plate – 10 mm
- One hole up to D100 or vent up to 30x100 mm drilled



sample spec: F-25-CB-5

F	25	CB	5
Feeder	25 mm material thickness of the corps*	Crown board	Width - 5 frames room =245 mm outside *

\* see previous pages

Width, frames	
5	F-20-CB-5 F-25-CB-5 F-30-CB-5
6	F-20-CB-6 F-25-CB-6 F-30-CB-6
8	F-20-CB-8 F-25-CB-8 F-30-CB-8
10	F-20-CB-10 F-25-CB-10 F-30-CB-10
12	F-20-CB-12 F-25-CB-12 F-30-CB-12
Extra*	ask

Options, applicable to the FCB series crown board:

**-81)** table of 6mm plywood instead of the wooden one

**-82)** additional hole

**-83)** enlarged frame thickness up to 25x20 mm

# Inner cover & Feeder - FIC series

## Common specification:

- 6-part high frame w/ bottom
- Height of the frame – 60 mm
- Thickness of the frame – 10 mm
- Thickness of the bottom plate – 10 mm, wood
- One vent up to 10x120 mm drilled



## sample spec: F-25-IC-5

<b>F</b>	<b>25</b>	<b>IC</b>	<b>5</b>
Feeder	25 mm material thickness of the corps*	Inner cover & Feeder	Width - 5 frames room =245 mm outside *

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	F-20-IC-5 F-25-IC-5 F-30-IC-5
<b>6</b>	F-20-IC-6 F-25-IC-6 F-30-IC-6
<b>8</b>	F-20-IC-8 F-25-IC-8 F-30-IC-8
<b>10</b>	F-20-IC-10 F-25-IC-10 F-30-IC-10
<b>12</b>	F-20-IC-12 F-25-IC-12 F-30-IC-12
Extra*	ask

## Options, applicable to the FIC series inner cover:

**-81)** table of 6mm plywood instead of the wooden one

**-82)** additional hole

# Inner cover & Feeder w/removable plates - FIM series

## Common specification:

- 6-part high frame w/ bottom
- Height of the frame – 60 mm
- Thickness of the frame – 10 mm
- Thickness of the bottom plates – 10 mm, wood
- One vent up to 10x120 mm drilled
- Two bottom sections are covered with galvanized mesh
- Tree separated plates fully removable used as a standard bottom in FIC series



sample spec: F-25-IM-5

F	25	IM	5
Feeder	25 mm material thickness of the corps*	Inner cover w/ removable plates	Width - 5 frames room =245 mm outside *

\* see previous pages

Width, frames	
5	F-20-IM-5 F-25-IM-5 F-30-IM-5
6	F-20-IM-6 F-25-IM-6 F-30-IM-6
8	F-20-IM-8 F-25-IM-8 F-30-IM-8
10	F-20-IM-10 F-25-IM-10 F-30-IM-10
12	F-20-IM-12 F-25-IM-12 F-30-IM-12
Extra*	ask

## Options, applicable to the FIC series inner cover:

**-81)** table of 6mm plywood instead of the wooden one

**-82)** additional hole

# “Warm” feeder w/plastic bottom - FWA series

Common specification:

- Height of the frame – 60 mm
- Thickness of the frame – 15 mm
- Bottom plate 3 mm thick, polystyrene
- One vent 10 mm wide through the whole width



sample spec: F-25-WA-5

<b>F</b>	<b>25</b>	<b>WA</b>	<b>5</b>
Feeder	25 mm material thickness of the corps*	Warm feeder, type A	Width - 5 frames room =245 mm outside *

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	F-20-WA-5 F-25-WA-5 F-30-WA-5
<b>6</b>	F-20-WA-6 F-25-WA-6 F-30-WA-6
<b>8</b>	F-20-WA-8 F-25-WA-8 F-30-WA-8
<b>10</b>	F-20-WA-10 F-25-WA-10 F-30-WA-10
<b>12</b>	F-20-WA-12 F-25-WA-12 F-30-WA-12
Extra*	ask

Options, applicable to the FWA series feeder:

**-84)** covering plate of clear material over the feeder (polycarbonate, PS, PET, etc)

# “Warm” feeder w/plastic bottom - FWB series

## Common specification:

- Height of the frame – 80 mm
- Thickness of the frame – 20 mm
- Bottom plate 3 mm thick, polystyrene
- One vent 10 mm wide through the whole width
- Aluminum mesh 4x8 mounted over the vent



sample spec: F-25-WB-5

<b>F</b>	<b>25</b>	<b>WA</b>	<b>5</b>
Feeder	25 mm material thickness of the corps*	Warm feeder, type A	Width - 5 frames room =245 mm outside *

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	F-20-WB-5 F-25-WB-5 F-30-WB-5
<b>6</b>	F-20-WB-6 F-25-WB-6 F-30-WB-6
<b>8</b>	F-20-WB-8 F-25-WB-8 F-30-WB-8
<b>10</b>	F-20-WB-10 F-25-WB-10 F-30-WB-10
<b>12</b>	F-20-WB-12 F-25-WB-12 F-30-WB-12
Extra*	ask

Options, applicable to the FWB series feeder:

**-85)** possible materials for bottom plate – polycarbonate, foamed PVC, PS, PET etc. instead of polystyrene



# Miller feeder - FMI series

## Common specification:

- Height of the frame – 60 mm
- Thickness of the frame – 20 mm
- Bottom plate and complete inner lining of polystyrene, 3 mm thick
- One vent 10 mm wide through the whole width



sample spec: F-25-MI-5

<b>F</b>	<b>25</b>	<b>MI</b>	<b>5</b>
Feeder	25 mm material thickness of the corps*	Miller feeder	Width - 5 frames room =245 mm outside *

\* see previous pages

<b>Width, frames</b>	
<b>5</b>	F-20-MI-5 F-25-MI-5 F-30-MI-5
<b>6</b>	F-20-MI-6 F-25-MI-6 F-30-MI-6
<b>8</b>	F-20-MI-8 F-25-MI-8 F-30-MI-8
<b>10</b>	F-20-MI-10 F-25-MI-10 F-30-MI-10
<b>12</b>	F-20-MI-12 F-25-MI-12 F-30-MI-12
Extra*	ask

---

## Section A

### Part S – Accessories

---

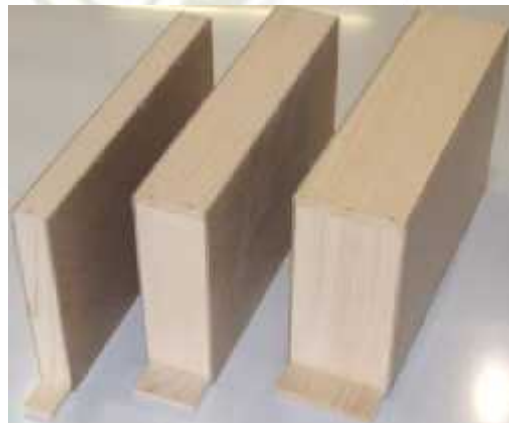
Dummy board A (wood)



Dummy board B (wood)



Dummy board C (hardboard)



Queen excluder



Snelgrove board



Ventilation top table



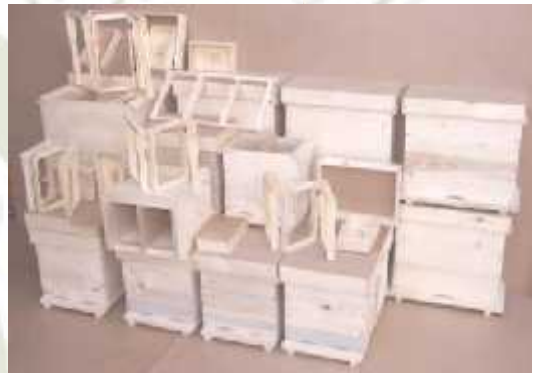
Entrance block

---

## Section B

# Small Nuclei, Mini Plus, Mating hives & Frames

---



Sometimes standard size nuclei with a multi-functional bottom board are a suboptimal, more expensive and complicated solution for some auxiliary activities. This is why here we have included a range of supplement products that could be a better fit. Please note the options are limited to enable us to accommodate for a reduced price while maintaining a high standard.

# Small Nuclei – NS series

## Common specification:

Please note that the following are standard figures and can be negotiated to suit your personal needs.

NS series nuclei are made of plywood 10 mm and consist of:

- depth - 168mm, 238mm and 308mm
- width - 3, 4 or 5 standard frames
- outer cover - inner height 45 mm, hardboard covering table, top covered w/ aluminum plate
- Ventilated fixed bottom, +45 mm length, hole D100 drilled w/ galvanized mesh



sample spec: NS-4-168

NS	4	168
Nuclei, small, simple	Width - 4 frames room	Height, mm

*\* see previous pages*

Width, frames	Height		
	168	238	308
3	NS-3-168	NS-3-238	NS-3-308
4	NS-4-168	NS-4-238	NS-4-308
5	NS-5-168	NS-5-238	NS-5-308

## Options, applicable to the NS series nuclei

**-F)** crown table, inner cover or another feeder from Section A, Part F are applicable to NS series

# Small Nuclei – NT series

## Common specification:

Please note that the following are standard figures and can be negotiated to suit your personal needs.

NT series nuclei consist of:

- depth - 168mm, 238mm and 308mm
- width - 3, 4 or 5 standard frames
- outer cover - inner height 75mm, hardboard covering table, top covered w/ aluminum plate
- Ventilated fixed bottom, +45 mm length, hole D100 drilled w/ galvanized mesh



sample spec: NT-4-168

NT	4	168
Nuclei, small, dovetailed	Width - 4 frames room	Height, mm

*\* see previous pages*

Width, frames	Height		
	168	238	308
3	NT-3-168	NT-3-238	NT-3-308
4	NT-4-168	NT-4-238	NT-4-308
5	NT-5-168	NT-5-238	NT-5-308

## Options, applicable to the NS series nuclei

**-F)** crown table, inner cover or another feeder from Section A, Part F are applicable to NS series



# Mini Plus nuclei / Mating hive – MP series

## Common specification:

Please note that the following are standard figures and can be negotiated to suit your personal needs.

MP series nuclei consist of:

- body depth - 168mm, 238mm,
- width - 2 two-ply frames  $\frac{1}{2}$  width, vertically divided by a hardboard plate
- outer cover - inner width 25mm, covering table 10 mm wood, top covered w/ aluminum plate
- Ventilated bottom & feeder, 2 entrances



sample spec: MP-1-168

MP	1	168
Nuclei, small, simple	1 body	Height, mm

- see previous pages

Depth, bodies	Height	
	168	238
1	MP-1-168	MP-1-238
2	MP-2-168	MP-2-238

$\frac{1}{2}$  width frame:

	MP-S	MP-M
--	------	------



# Mating hive – MM series

## Common specification:

Please note that the following are standard figures and can be negotiated to suit your personal needs.

MM series mating hive consists of:

- body depth - 168mm, 238mm, or 308 mm,
- width – 2 or 3 tree-ply frames 1/3 width vertically divided by a hardboard plate
- outer cover - inner width 60mm, covering table 6 mm plywood, top covered w/ aluminum plate
- top feeders – 200x120x45 mm, 0,3 dm3 each at least
- Ventilated bottom, 2 or 3 entrances



## sample spec: MM-2-168

MM	2	168
Mating hive 1/3 width frame	2 frames	Height, mm

- see previous pages

Width, frames	Height		
	168	238	308
2	MM-2-168	MM-2-238	MM-2-308
3	MM-3-168	MM-3-238	MM-3-308

1/3 width frame:

	MM-S	MM-M	MM-J
--	------	------	------

---

# Section C

## Frames

---



We deliver the frames either preassembled or a flat pack.

All element types are stated separately. However, not all of them are compatible together. Please make your orders closely.

The dimensions of the frame parts also vary according to the hive dimensions.

### Quality

The wood we use for our products is guaranteed to meet the following criteria:

- Humidity is up to 10%
- Standard deviation in the dimensions – up to 0,2 mm
- Quality selection in 2 categories
- **Short quality selection** – this class offers a bit less price on the account of the number of allowed aesthetical imperfections. Broken parts - 0,0% allowed, aesthetical blemishes without reflection to construction stability – up to 2,5%, including knots less than 7 mm in diameter.
- **Ultimate quality selection** – again, for those of you who desire perfection. Broken parts - 0,0% allowed, aesthetical blemishes without reflection to construction stability – up to 0,2%, including knots less than 5 mm in diameter.

# Top bars

---

All top bars at the bottom side have got a 3x3 mm runway.

**A – width, mm**

**B – thickness, mm**

**C – length, mm**

## TS type

Specification	A x B x C
TS71	20x17x470
TS72	22x18x470
TS73	24x18x470
TS81	20x17x480
TS82	22x18x480
TS83	24x18x48
TS.... *	ask



## TF type

Specification	A x B x C
TF71	22x18x470
TF72	27x18x470
TF73	22x19x470
TF74	27x19x470
TF75	22x20x470
TF76	27x20x470
TF81	22x18x480
TF82	28x18x480
TF83	22x19x480
TF84	28x19x480
TF85	22x20x480
TF86	28x20x480
TF.... *	ask



# Side bars

The usual depth of the frames is listed in the following table and is also visible from the SH type dimensions for example:

	Frame depth, common	Frame depth, optional
<b>Super</b>	160 mm	159-162 mm
<b>Brood</b>	230 mm	228-232 mm
<b>Deep brood/ Jumbo</b>	300 mm	298-234 mm

If you need an optional depth, please refer to the exact dimensions you desire.

**A – width = 35 mm**

**B – thickness, mm**

**C – length, mm**

**SP type** – the simplest Hoffmann type, compatible with TS top bar & BS bottom bar

Specification	B x C
SP915	9x151
SP922	9x221
SP929	9x291
SP1015	10x151
SP1022	10x221
SP1029	10x291
SP.....*	ask



**SH type** – the most common Hoffmann type, compatible with both TS & TF top bar & BT bottom bar. The rabbit width is negotiable, if necessary, as long as it affects its compatibility with the top bar.

Specification	B x C
SH916	9x160
SH923	9x230
SH930	9x300
SH1016	10x160
SH1024	10x230
SH1030	10x300
SH.....*	ask



**ST type** – a common Hoffmann type with a triangle side, compatible with TF top bar & BT bottom bar

Specification	B x C
ST916	9x160
ST923	9x230
ST930	9x300
ST1016	10x160
ST1024	10x230
ST1030	10x300
ST.....*	ask



**A – width, mm**

**B – thickness, mm**

**C – length, mm**

**SD type** – straight type, compatible with TF top bar & BT bottom bar

Specification	A x B x C
SD2916	22x9x160
SD2923	22x9x230
SD2930	22x9x300
SD7916	27x9x160
SD7923	27x9x230
SD7930	27x9x300
SD2016	22x10x160
SD21023	22x10x230
SD21030	22x10x300
SD71016	27x10x160
SD71023	27x10x230
SD71030	27x10x300
SD.....*	ask

**SS type** – completely straight type, compatible with TS top bar & BS bottom bar

Specification	A x B x C
SD2916	22x9x160
SD2923	22x9x230
SD2930	22x9x300
SD7916	27x9x160
SD7923	27x9x230
SD7930	27x9x300
SD2016	22x10x160
SD21023	22x10x230
SD21030	22x10x300
SD71016	27x10x160
SD71023	27x10x230
SD71030	27x10x300
SD.....*	ask



# Bottom bars

---

A – width, mm

B – thickness, mm

C – length, mm

**BS type** – completely straight type

Specification	A x B x C
BS11	13x13x416
BS12	18x9x416
BS13	22x9x416
BS14	27x9x416
BS15	18x10x416
BS16	22x10x416
BS17	27x10x416
BS21	13x13x426
BS22	18x9x426
BS23	22x9x426
BS24	27x9x426
BS25	18x10x426
BS26	22x10x426
BS27	27x10x426
BS.....*	ask

**BT type** –

Specification	A x B x C
BT72	18x9x436
BT73	22x9x436
BT74	27x9x436
BT75	18x10x436
BT76	22x10x436
BT81	27x10x436
BT72	18x9x446
BT73	22x9x446
BT74	27x9x446
BT75	18x10x446
BT76	22x10x446
BT81	27x10x446
BT.....*	ask

Options available to all top/side/bottom bars:

---

**-01)** additional runway up to 2x8 mm

**-02)** for wiring - up to 5 holes drilled



## Contacts:

### **Royal Box PS Ltd.**

7, “Shose Bankia” str.

Sofia, Bulgaria

tel: +359 888 90 91 96; +359 884 69 19 97

E-mail: [sales@royalbox.eu](mailto:sales@royalbox.eu)

Web site: [www.royalbox.eu](http://www.royalbox.eu)

### **Contact person for UK, Ireland and France:**

Mr. Krasimir Hristov

London, UK

tel: + 44 7766 730 824

e-mail: [kvh74@yahoo.com](mailto:kvh74@yahoo.com)