



VOLYA
GREENHOUSE PRODUCTION

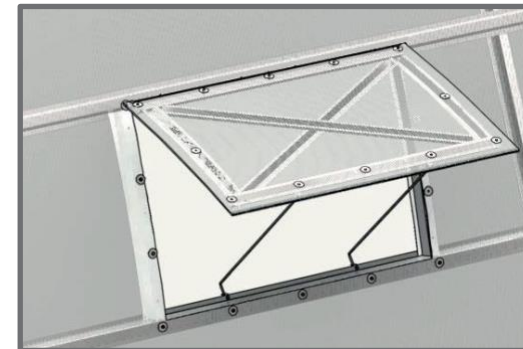
Manufacturer:
Volya LLC, Dubna, Moscow Oblast
Phone/fax: 8 (495) 598-5-999
www.perchina.ru www.domflora.ru
e-mail: info@perchina.ru



VOLYA
GREENHOUSE PRODUCTION

SMALL WINDOW

for FERMER honeycomb polycarbonate
greenhouse



This manual may not be reproduced in any form in full
or partially without written permission of Volya
Company

Technical
certificate

page 2-3

Assembling manual



Perform assembling and operation of the greenhouse in strict accordance with the manual and operating rules stated in the technical certificate. Please keep this technical certificate for further reference.

Introduction

Greenhouse ventilation requires air intake and exhaust. Intake openings should provide intake of ambient air evenly along greenhouse perimeter and at a small height from the ground. Openings for exhaust of heated greenhouse air are either at the top of greenhouse, or evenly above intake openings, or in end sides of greenhouse in case of forced electric fan exhaust. Bottom small windows may be hand-operated while top small windows require a drive due to large height. Taking into account all factors of efficiency and operation convenience, ventilation with bottom intake small windows and forced exhaust in the top of end sides is recommended. Final choice of ventilation design is at buyer's discretion.

Description

Small window is designed for ventilation of greenhouse. It is installed in Fermer series greenhouses only. Frame of the small window is made of galvanized steel and assembled using screws and nuts. Small window is completed with all required fixtures.

Small window complete set			
marking	name	quantity (pcs)	Size (mm)
01φ	Small window arc	2	501
02φ	Strainer	2	880
03φ	Small diagonal	1	878
04φ	Large diagonal	1	947
05φ	Guide	2	690
	Fixed part of heave-off hinge	2	25x40
	Moving part of heave-off hinge	2	104x35x40
	Small window hook	2	680
	Angle	2	
	Flat-topped arm	2	
	Honeycomb polycarbonate	1	750x1050
	Sealer	1	3500
	Bolt 6x14	10	
	Bolt 6x20	16	
	Screw M5x10	26	
	Screw M5x14	2	
	Screw M5x35	12	
	Screw M5x45	2	

Assembling manual

8. Fasten a hook in flat-topped arm using a bolt M6x20 with nut M6 (Fig. 7).

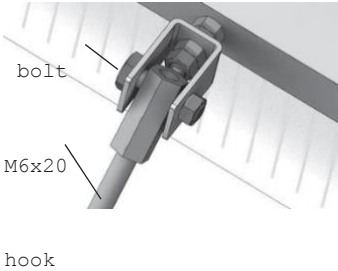


Fig. 7

9. Mount two angles on bottom balk 2 on the periphery of opening for fixing small window in opened position (Fig. 8).

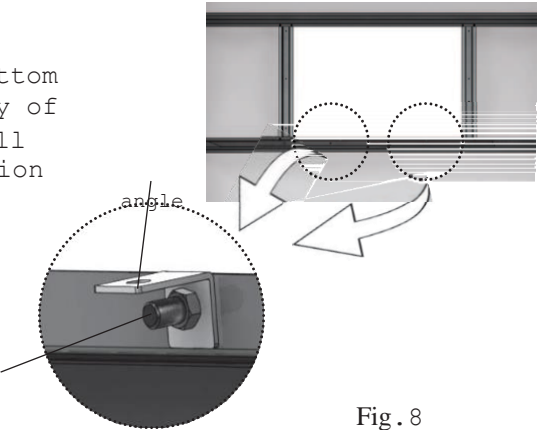


Fig. 8

10. The small window is fixed in closed position using hooks hitched on a balk with elastic bending across arc (Fig. 9).

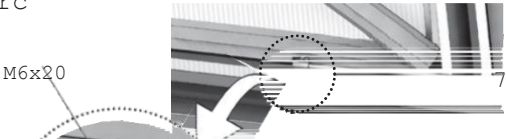


Fig. 9

Assembling manual

5. Cover 750x1050 mm polycarbonate piece with adhesive tape (close honeycomb) and mount it on small window frame at 48 mm distance from the top using washers 32x5 and screws M5x42 and M5x45 (Fig. 4, Fig. 5).

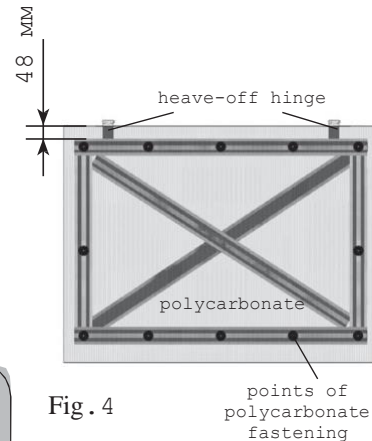
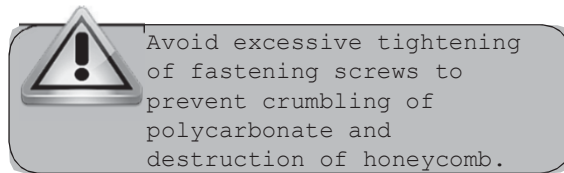


Fig. 4

6. Put the small window on window, mark holes for hinges and drill 4 holes on the balk (Fig. 6).
7. Stick sealer on the window's edges.



Operating rules

1. Before use of the small window, assemble and install it the greenhouse in accordance with manual.
2. The small window should not be exposed to impacts that may create residual deformations of frame or coverage.



Warranty

1. Manufacturer is responsible for full completing frame elements of the small window.
2. Manufacturer is responsible for assemblability of the small window in accordance with the manual.
3. Warranty period - 12 months from date of purchase.

Warranty conditions

- The warranty does not cover cases of:
1. Installation of small window with violation of manual's requirements.
 2. Violation of operating rules.
 3. Floods, hurricanes, other natural disasters.

Date of manufacture:



Fig. 5

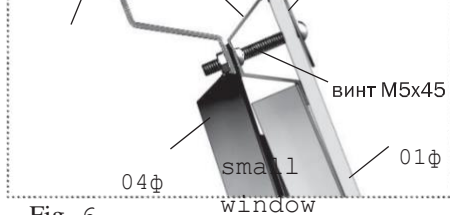


Fig. 6

cow Oblast 141983

Manufacturer is responsible for quality of products in accordance with RF Civil Code.

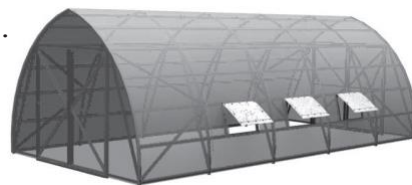
Manufacturer reserves right to change design of small window.

M
a
n
u
f
a
c
t
u
r
e
r
:
V
o
l
y
a
L
L
C
8
S
e
v
e
r
n
y
i
P
e
r
e
u
l
o
k
,
D
u
b
n
a
,
M
o
s

Assembling manual

1. Select a place for small window.

Mount two guides 05φ in that place (Fig. 1) on balks using available holes.



2. Cut an opening for small window (Fig. 1). Make a top edge of polycarbonate opening with 35 mm offset from the balk. Cover top and bottom cut of polycarbonate with adhesive tape.

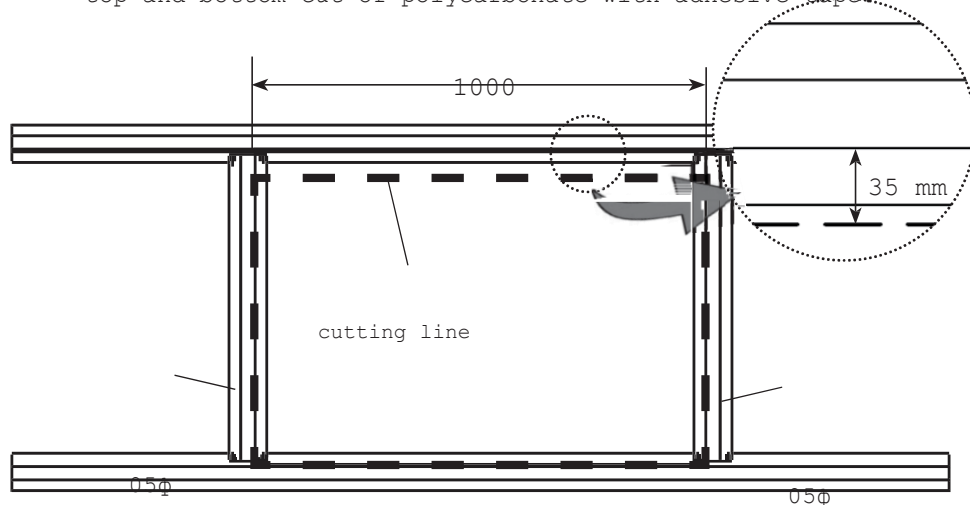


Fig.1
Outside
view

3. Drill holes in balks and fix polycarbonate edges along opening contour with bolts M6x32 and washers 32x6 (Fig. 2).

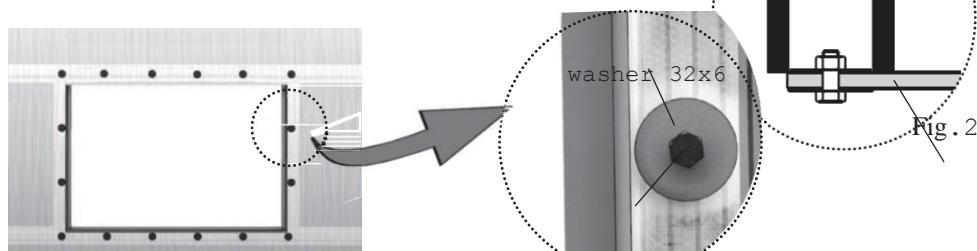
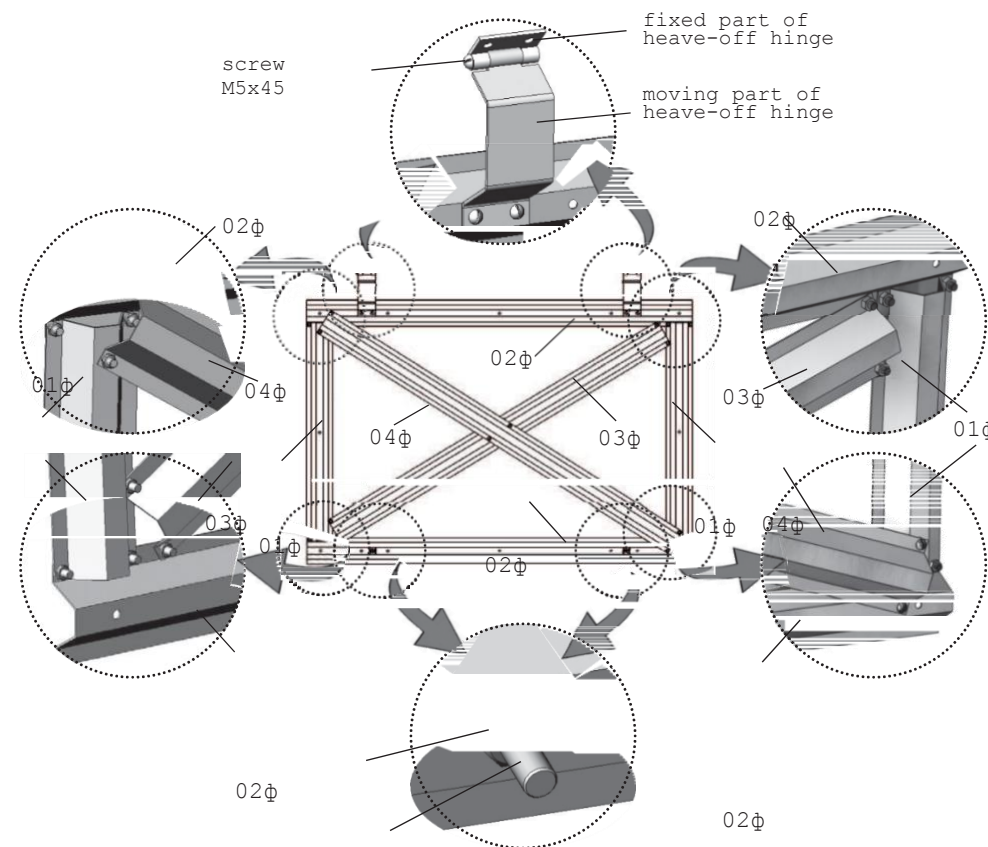


Fig.2

Assembling manual

4. Assemble small window frame from elements 01φ, 02φ, 03φ, 04φ. Mount hinges on the small window using screws M5x10 and nuts M5. Place two screws M5x14 into holes opposite to hinges (Fig. 3) and tighten nuts M5 strongly.



nut M5

screw M5x14

Fig. 3

bolt M6x20

polycarbonate

M
o
u
n
t
a
f
l
a
t
-
t
o
p
p
e
d
a
r
m
o
n
s
c
r
e
w
s
M
5
x
1
4
(
F
i
g
.
3
)
u
s
i

n
g
a
n
u
t
a
n
d
l
o
c
k
n
u
t
i
n
s
u
c
h
a
w
a
y
t
h
a
t
t
h
e
a
r
m
c
o
u
l
d

turn (Fig. 4).

flat-topped arm

