



AMBERAIR

EN ROOF ASSEMBLY MANUAL

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2. GENERAL DESCRIPTION

Roof used to protect unit from precipitation. All outdoor design unit sizes have double slope roof.

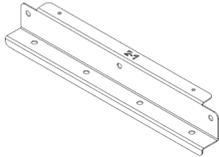
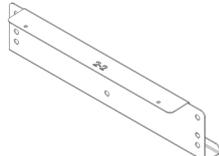
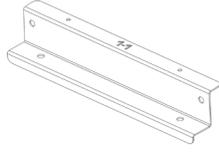
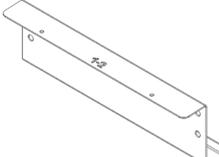
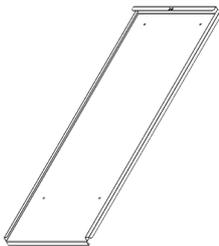
3. SAFETY INFORMATION

Refer to main AHU manual for safety information.

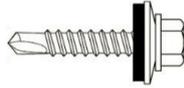
4. ROOF PARTS LIST FOR STANDARD AHU CONFIGURATION

Table 4.1 shows general drawings of the roof parts that can be supplied with the unit. Exact number of supplied parts depends on the configuration of the AHU. Part numbers are carved on the parts.

Table 4.1 Roof parts list

PART	QUANTITY, PCS	PICTURE	PART NUMBER	LENGTH, MM	COMMENTS
Longitudinal front edge support	Depends on the unit's configuration		2-1	250	Used on unit's edges
Longitudinal middle edge support	Depends on the unit's configuration		2-2	250	Used on unit's edges
Longitudinal front support	Depends on the unit's configuration		1-1 3-1 4-1 5-1	200 400 600 800	Used in the center of the unit
Longitudinal middle support	Depends on the unit's configuration		1-2 3-2 4-2 5-2	200 400 600 800	Used in the center of the unit
Transverse support	Depends on the unit's configuration		6-1	Length depends on the width of the unit.	
Rear support	Depends on the unit's configuration		7-1 7-2	Length depends on the width of the unit.	
Roof segment	Depends on the unit's configuration		1-3 1-4 2-3 2-4 3-3 3-4 4-3 4-4 5-3 5-4	200 200 250 250 400 400 600 600 800 800	Segment width depends on the width of the unit
Profile cover L1200	Depends on the unit's configuration			1200	
Sealing strip 18x8	Depends on the unit's configuration				

Self-tapping screw Depends on the unit's
GTX3 4,8x25 size



5. ROOF ASSEMBLY FOR STANDARD AHU CONFIGURATION

1. There are roof support strips (installed at factory) on the top of the outdoor unit, as shown in Figure 5.1.

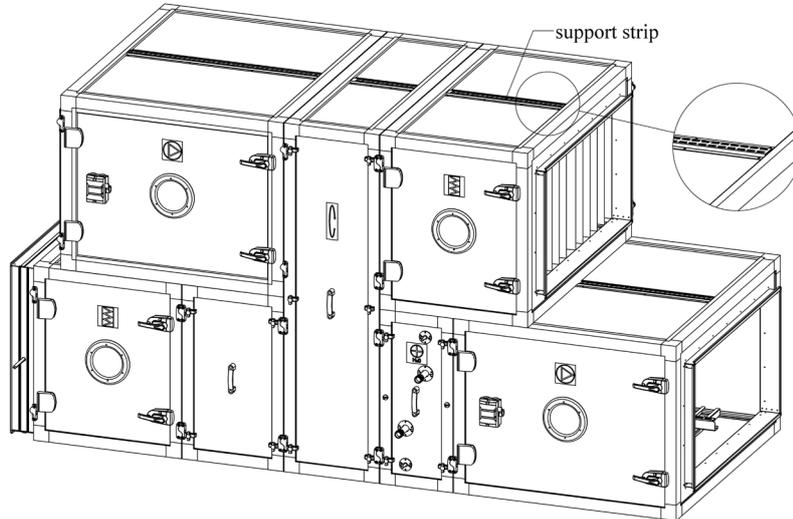


Figure 5.1

2. Connect longitudinal edge supports 2-1, 2-2 to the rear supports 7-1, 7-2 and 6-1-transverse supports using self-tapping screws supplied with the unit as shown in Figure 5.2 (I and II).
3. Connect the longitudinal center supports 1-1, 1-2, 3-1, 3-2, 4-1, 4-2 or 5-1, 5-2 to each other (depending on the length of the unit) using self-tapping screws supplied with the unit and connect end-to-end edge supports 2-1, 2-2 as shown in Figure 5.2. (III).
4. The combined entire frame of the details must be centered according to the length of the unit, the distance A must be the same on both sides as shown in Figure 5.2. A distance can be between 50 – 150 mm.

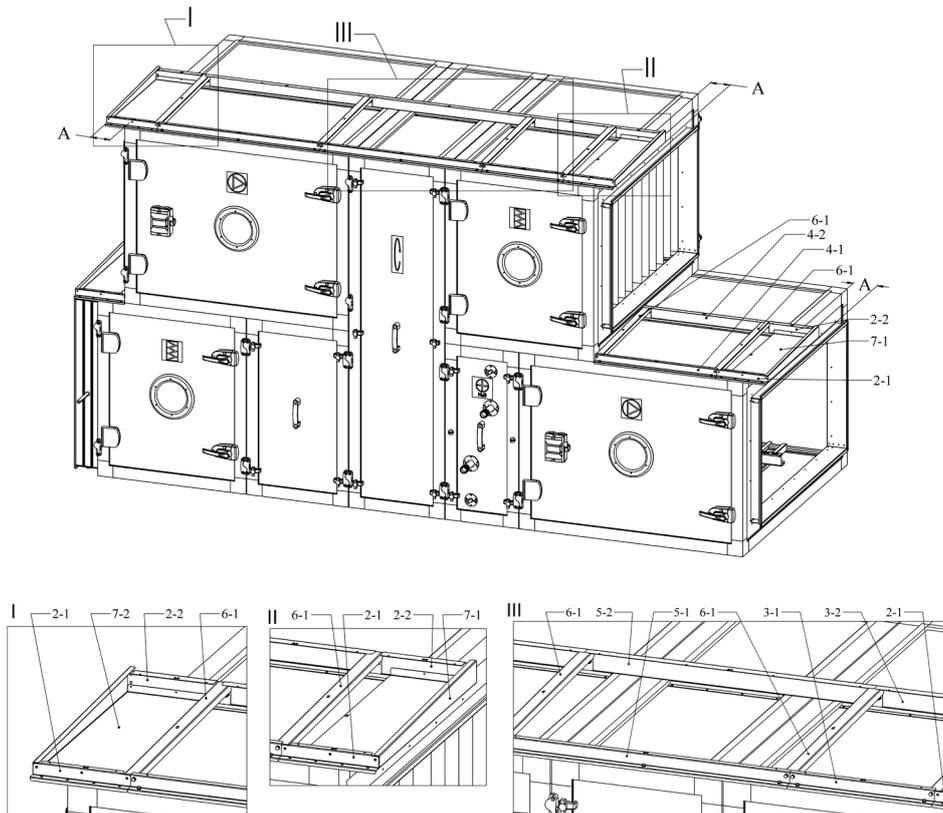


Figure 5.2

2-1 - longitudinal front edge support; 2-2 - longitudinal middle edge support; 3-1, 4-1, 5-1-longitudinal front supports; 3-2, 4-2, 5-2 -longitudinal middle supports; 6-1-transverse support; 7-1, 7-2 – rear support.

5. Center and attach frame to the unit using self-taping screws supplied with the unit.
6. Assemble the opposite side of the frame in the same way as the first one. Complete frame assembly is shown in Figure 5.3.

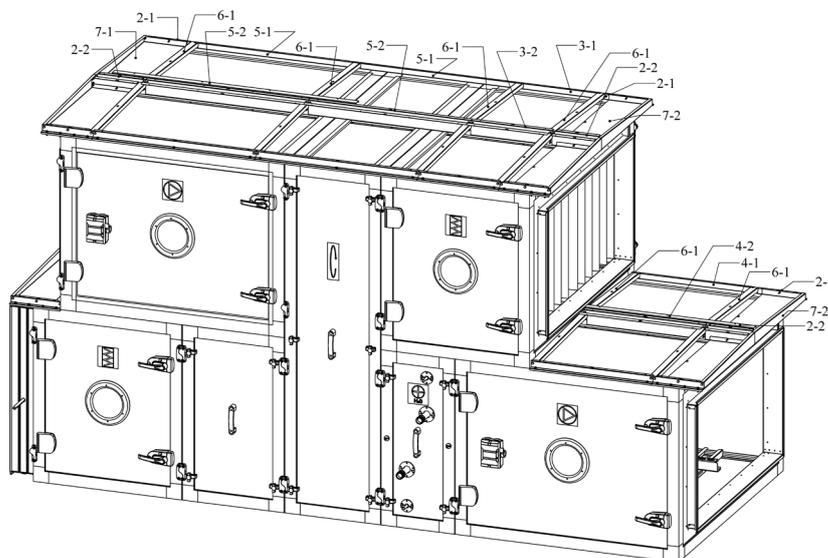


Figure 5.3

2-1 - longitudinal front edge support; 2-2 - longitudinal middle edge support; 3-1, 4-1, 5-1 -longitudinal front supports; 3-2, 4-2, 5-2 -longitudinal middle supports; 6-1-transverse support; 7-1, 7-2 – rear support.

7. Fit the roof segments of a certain width with the same spacing of the frame and attach to the frame by self-taping screws supplied with the unit as shown in Figure 5.4.

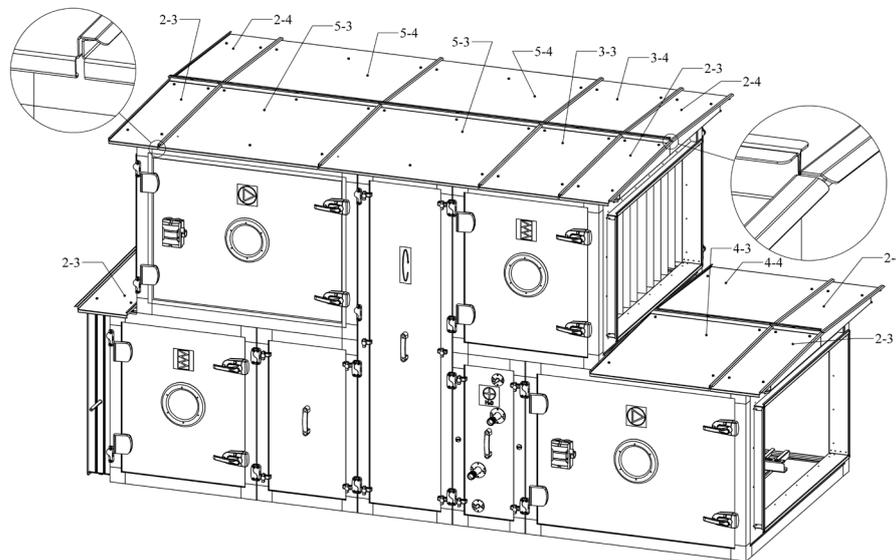


Figure 5.4

2-3, 2-4, 3-3, 3-4, 4-3, 4-4, 5-3, 5-4 - roof segments

8. Apply supplied sealing strip 18x8 on segments in the middle, as shown in Figure 5.5.

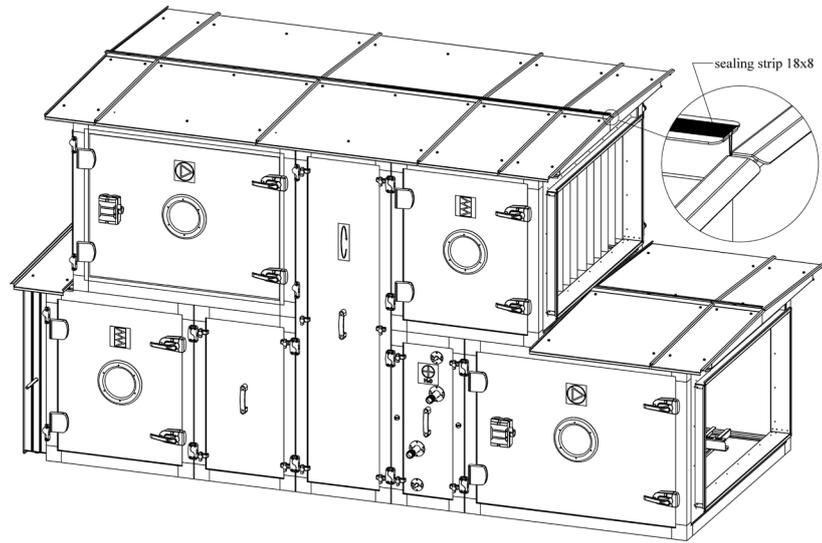


Figure 5.5

9. Fit the profile cover L1200 on segments in the middle and attach to the segments by self-taping screws supplied with the unit as shown in Figure 5.6. If it is too long, cut it.

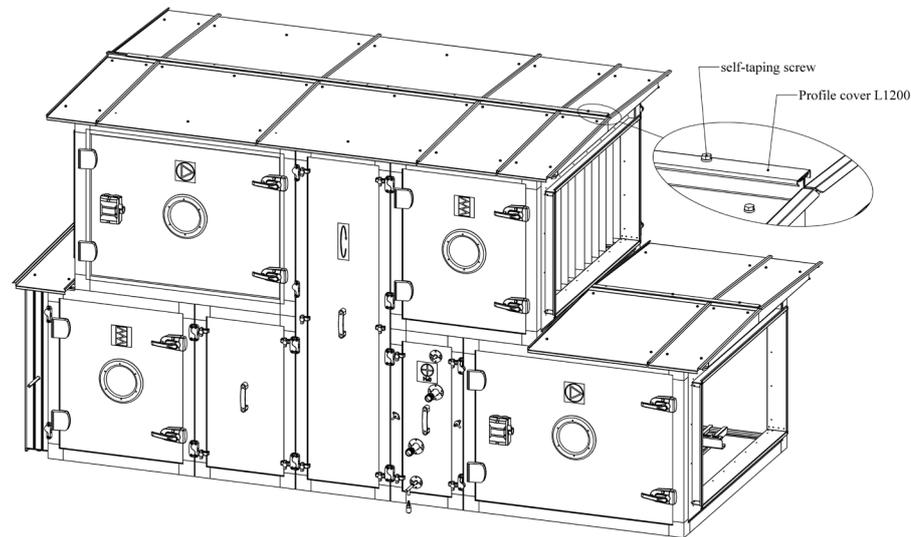
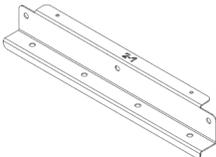
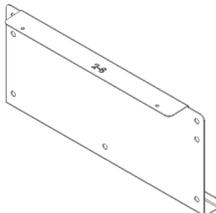


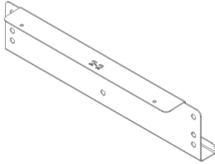
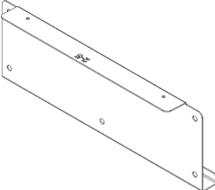
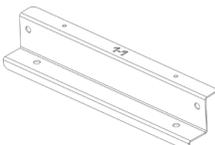
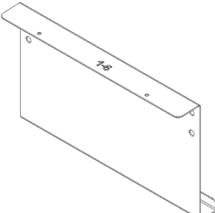
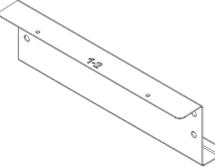
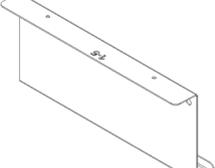
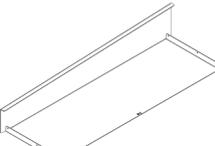
Figure 5.6

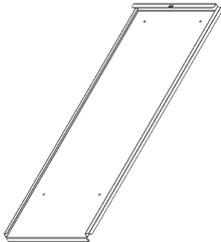
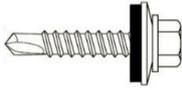
6. ROOF PARTS LIST FOR SIDE BY SIDE AHU CONFIGURATION

Table 6.1 shows general drawings of the roof parts that can be supplied with the unit. Exact number of supplied parts depends on the configuration of the AHU. Part numbers are carved on the parts.

Table 6.1 Roof parts list

PART	QUANTITY, PCS	PICTURE	PART NUMBER	LENGTH, MM	COMMENTS
Longitudinal front edge support	Depends on the unit's configuration		2-1	250	Used on unit's edges
Side by side longitudinal front edge support	Depends on the unit's configuration		2-6	250	Used on unit's edges

Longitudinal middle edge support	Depends on the unit's configuration		2-2	250	Used on unit's edges
Side by side longitudinal middle edge support	Depends on the unit's configuration		2-5	250	Used on unit's edges
Longitudinal front support	Depends on the unit's configuration		1-1 3-1 4-1 5-1	200 400 600 800	Used in the center of the unit
Side by side longitudinal front support	Depends on the unit's configuration		1-6 3-6 4-6 5-6	200 400 600 800	Used in the center of the unit
Longitudinal middle support	Depends on the unit's configuration		1-2 3-2 4-2 5-2	200 400 600 800	Used in the center of the unit
Side by side longitudinal middle support	Depends on the unit's configuration		1-5 3-5 4-5 5-5	200 400 600 800	Used in the center of the unit
Transverse support	Depends on the unit's configuration		6-1	Length depends on the width of the unit.	
Rear support	Depends on the unit's configuration		7-1 7-2	Length depends on the width of the unit.	
Side by side rear support	Depends on the unit's configuration		7-3 7-4	Length depends on the width of the unit.	

Roof segment	Depends on the unit's configuration		1-3	200	Segment width depends on the width of the unit
			1-4	200	
			2-3	250	
			2-4	250	
			3-3	400	
			3-4	400	
			4-3	600	
4-4	600				
5-3	800				
5-4	800				
Profile cover L1200	Depends on the unit's configuration			1200	
Sealing strip 18x8	Depends on the unit's configuration				
Self-tapping screw GTX3 4,8x25	Depends on the unit's size				

7. ROOF ASSEMBLY FOR SIDE BY SIDE AHU CONFIGURATION

1. There are roof support strips (installed at factory) on the top of the outdoor unit, as shown in Figure 7.1.

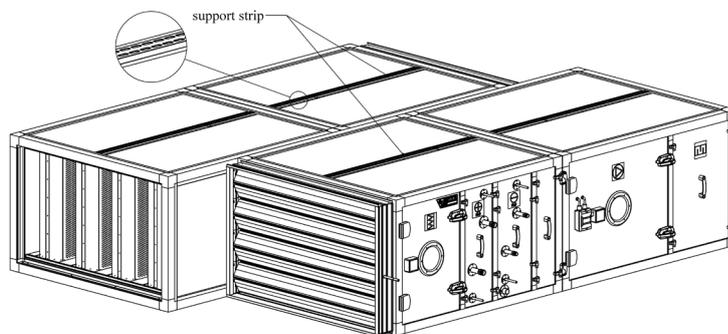


Figure 7.1

2. Connect longitudinal edge supports 2-1, 2-2 to the rear supports 7-1, 7-2 and 6-1-transverse supports using self-tapping screws supplied with the unit as shown in Figure 7.2 (I and II).

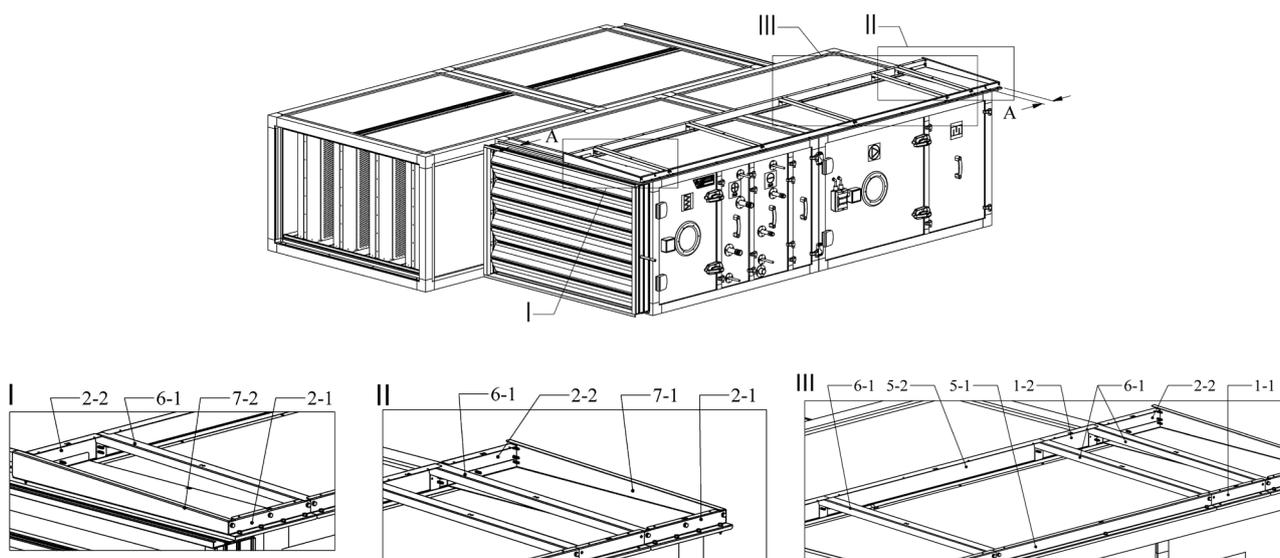


Figure 7.2

2-1 - longitudinal front edge support; 2-2 - longitudinal middle edge support; 1-1, 5-1 -longitudinal front supports; 1-2, 5-2 -longitudinal middle supports; 6-1-transverse support; 7-1, 7-2 – rear support.

3. Connect the longitudinal supports 1-1, 1-2, 3-1, 3-2, 4-1, 4-2 or 5-1, 5-2 to each other (depending on the length of the unit) with 6-1-transverse

supports using self-tapping screws supplied with the unit and connect end-to-end edge supports 2-1, 2-2 as shown in Figure 7.2. (III).
 4. The combined entire frame of the details must be centered according to the length of the unit, the distance A must be the same on both sides as shown in Figure 7.2. A distance can be between 50 – 150 mm.
 5. Connect longitudinal edge supports 2-3, 2-4 to the rear supports 7-3, 7-4 and 6-1-transverse supports using self-taping screws supplied with the unit as shown in Figure 7.3 (I and II).

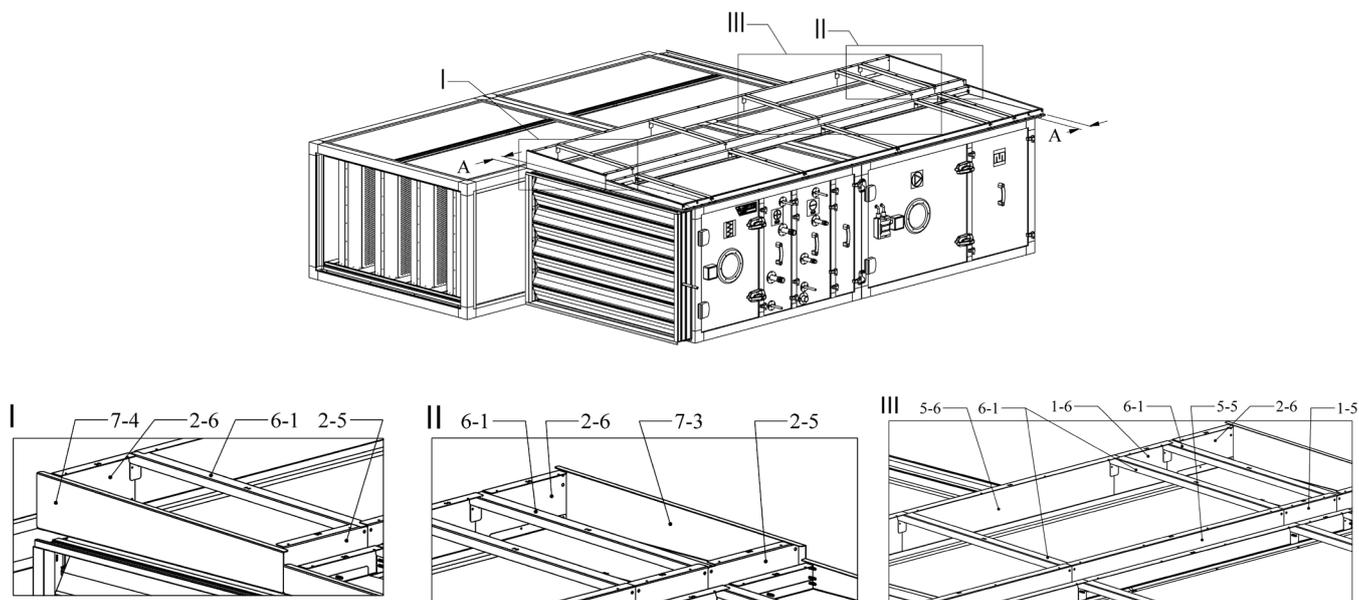


Figure 7.3

2-6 – side by side longitudinal front edge support; 2-5 – side by side longitudinal middle edge support; 1-6, 5-6 – side by side longitudinal front supports; 1-5, 5-5 -side by side longitudinal middle supports; 6-1-transverse support; 7-3, 7-4 – rear support.

6. Connect the longitudinal supports 1-5, 1-6, 3-5, 3-6, 4-5, 4-6 or 5-5, 5-6 to each other (depending on the length of the unit) with 6-1-transverse supports using self-tapping screws supplied with the unit and connect end-to-end edge supports 2-5, 2-6 as shown in Figure 7.3. (III).
 7. The combined entire frame of the details must be centered according to the length of the unit, the distance A must be the same on both sides as shown in Figure 7.3. A distance can be between 50 – 150 mm.
 8. Center and attach frame to the unit using self-taping screws supplied with the unit.
 9. Assemble the opposite side of the frame in the same way as the first one. Complete frame assembly is shown in Figure 7.4.

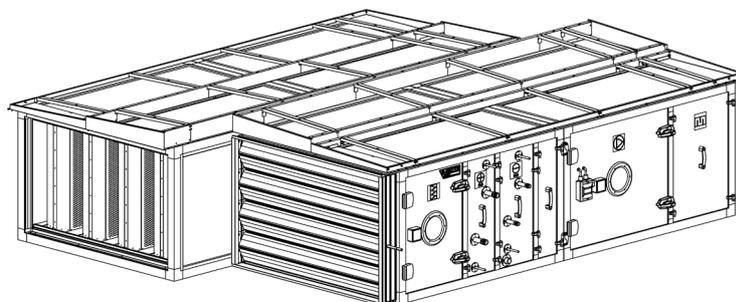


Figure 7.4

10. Fit the roof segments of a certain width with the same spacing of the frame and attach to the frame by self-taping screws supplied with the unit as shown in Figure 7.5.

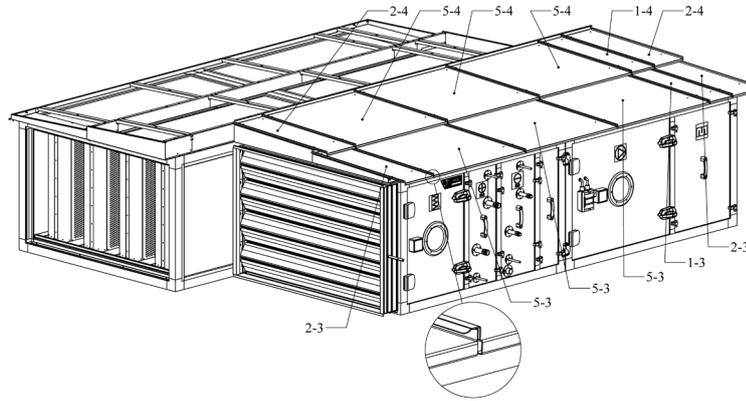


Figure 7.5

1-3, 1-4, 2-3, 2-4, 5-3, 5-4 - roof segments

11. Assemble the opposite side of the roof segments in the same way as the first one. Complete frame assembly is shown in Figure 7.6.
12. Apply supplied sealing strip 18x8 on segments in the middle, as shown in Figure 7.6.

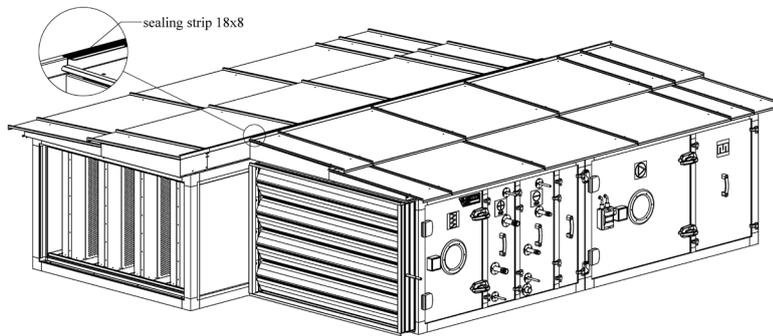


Figure 7.6

13. Fit the profile cover L1200 on segments in the middle and attach to the segments by self-taping screws supplied with the unit as shown in Figure 7.7. If it is too long, cut it.

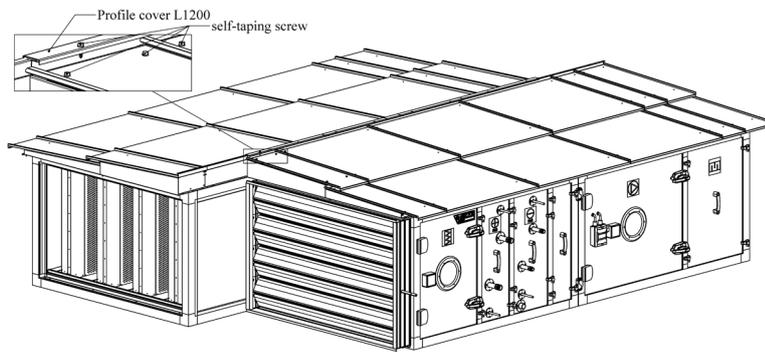


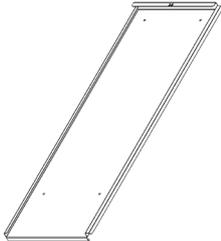
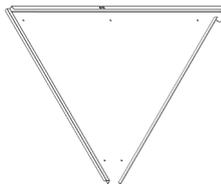
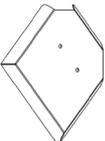
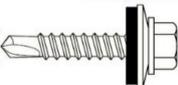
Figure 7.7

8. ROOF PARTS LIST FOR CORNER SECTION

Table 8.1 shows general drawings of the roof parts that can be additionally supplied with the unit for corner section. Exact number of supplied parts depends on the configuration of the AHU. Part numbers are carved on the parts.

Table 8.1 Roof parts list

PART	QUANTITY, PCS	PICTURE	PART NUMBER	LENGTH, MM	COMMENTS
Longitudinal front outer corner supports	Depends on the unit's configuration		8-1 8-2	Length depends on the width of the unit.	

Longitudinal support	front	Depends on the unit's configuration		8-3	Length depends on the width of the unit.	
Longitudinal outer corner supports	middle	Depends on the unit's configuration		8-4	Length depends on the width of the unit.	
Transverse support		Depends on the unit's configuration		8-5	Length depends on the width of the unit.	
Longitudinal inner corner supports	middle	Depends on the unit's configuration		8-6 8-7	Length depends on the width of the unit.	
Longitudinal inner corner supports	front	Depends on the unit's configuration		8-8 8-9	Length depends on the width of the unit.	
Quadrangular roof segments		Depends on the unit's configuration		8-10 8-11	Length depends on the width of the unit.	Segment width depends on the width of the unit
Triangle roof segments		Depends on the unit's configuration		8-12 8-13 8-14 8-15	Length depends on the width of the unit.	Segment width depends on the width of the unit
Profile cover L1200		Depends on the unit's configuration			1200	
Roof cap		Depends on the unit's configuration				
Sealing strip 18x8		Depends on the unit's configuration				
Self-tapping screw GTX3 4,8x25		Depends on the unit's size				

9. ROOF ASSEMBLY FOR CORNER SECTION

1. There are roof support strips (installed at factory) on the top of the outdoor unit, as shown in Figure 9.1.

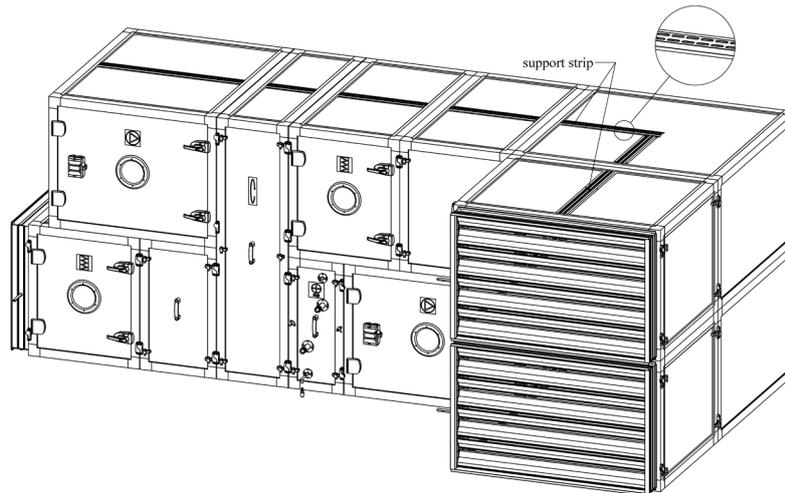


Figure 9.1

2. Start the assembly from the corner section. Connect longitudinal front and middle supports 8-1, 8-2, 8-3, 8-4 to the 6-1-transverse supports using self-taping screws supplied with the unit as shown in Figure 9.2.

3. Assemble the opposite side frame. Connect longitudinal front and middle supports 8-6, 8-7, 8-8, 8-9 to the 8-5 transverse supports using self-taping screws supplied with the unit as shown in Figure 9.2.

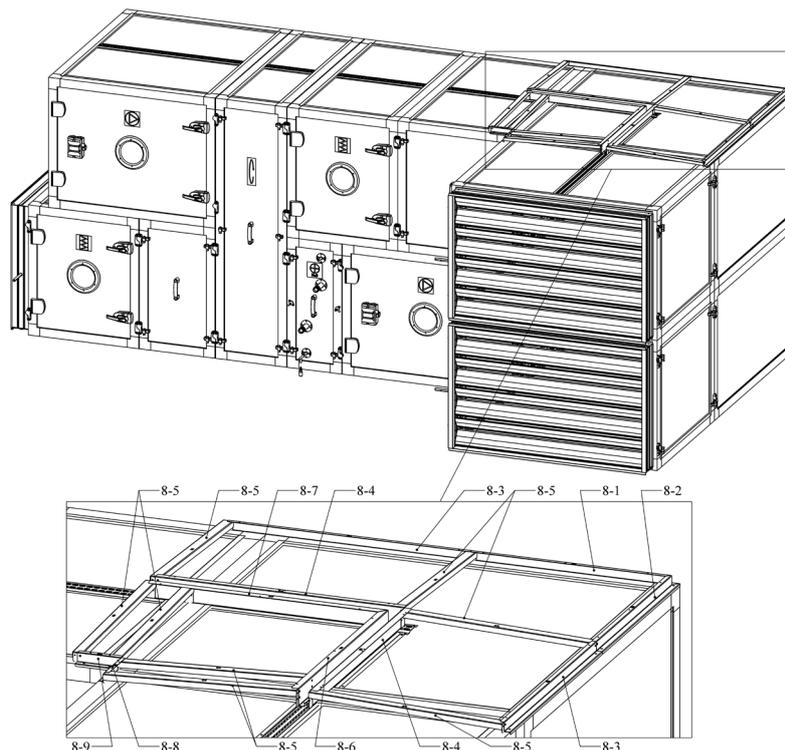


Figure 9.2

8-1, 8-2 - longitudinal front outer corner support; 8-3 - longitudinal front supports; 8-8, 8-9 - longitudinal front inner corner support; 8-4 - longitudinal middle outer corner support; 8-6, 8-7 - longitudinal middle inner corner supports; 8-5-transverse support.

4. Attach standard roof supports in accordance with clauses 1, 2 and 3 of Chapter 4, after mounting the corner section supports, as shown in Figure 9.3.

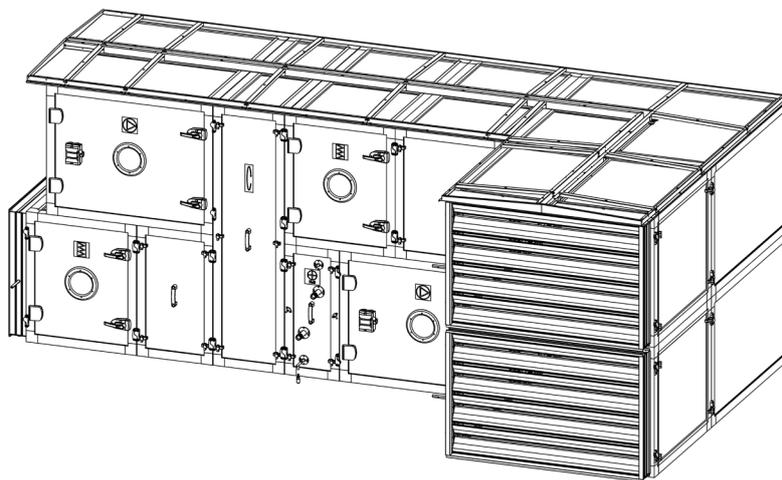


Figure 9.3

5. Start fit the roof segments from the corner section. Fit the roof segments and attach to the frame by self-taping screws supplied with the unit as shown in Figure 9.4.

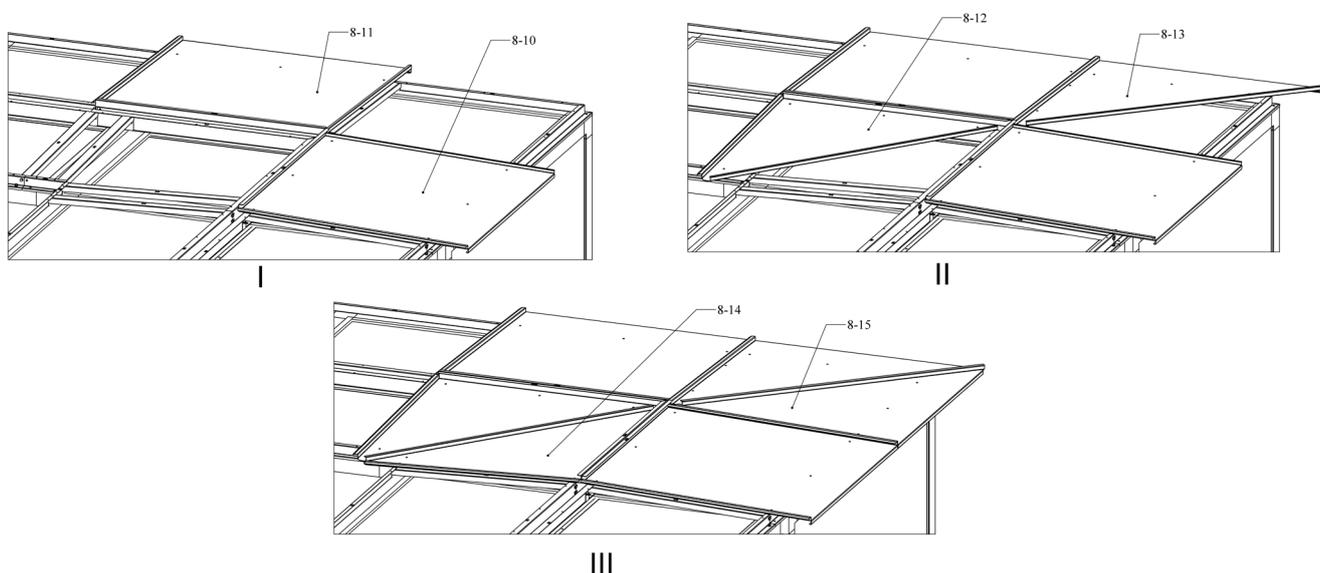


Figure 9.4

8-10, 8-11 – quadrangular roof segments; 8-12, 8-13, 8-14, 8-15 - triangle roof segments.

6. Fit standard roof segments to the corner roof in accordance with Chapter 4, paragraphs 4, 5, 6 and 7 as shown in Figure 9.5.

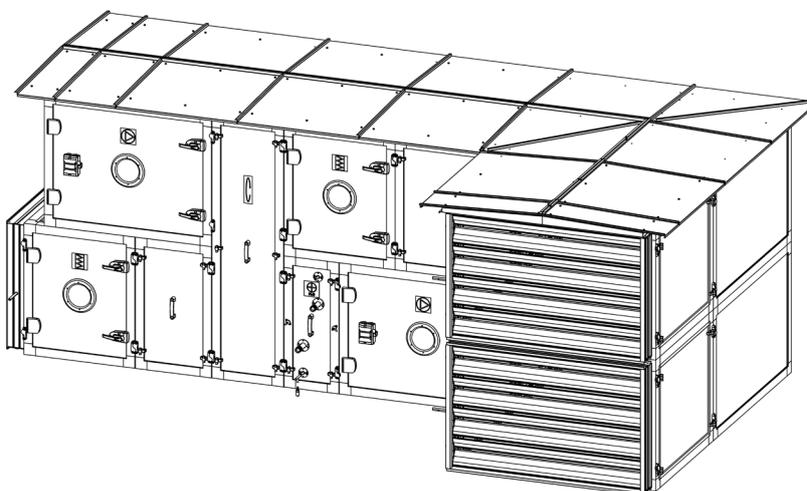


Figure 9.5

7. Apply supplied sealing strip 18x8 on segments in the middle, as shown in Figure 9.6.

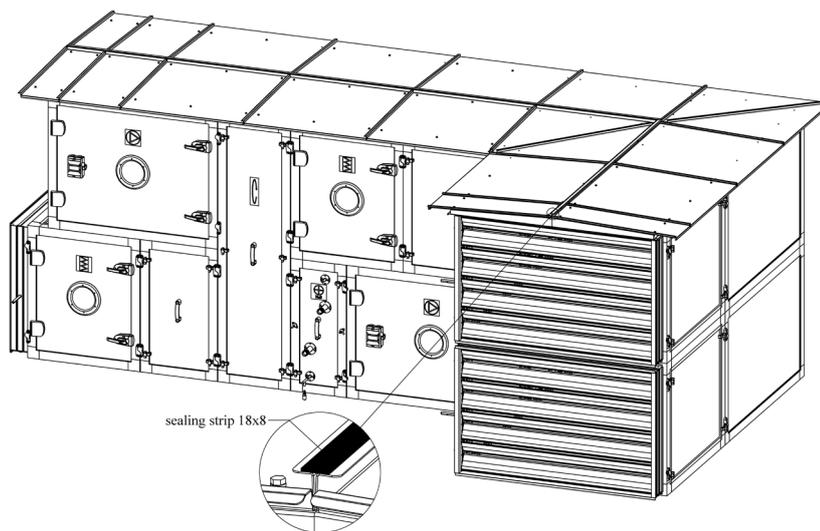


Figure 9.6

8. Fit the profile cover L1200 on segments in the middle and attach to the segments by self-taping screws supplied with the unit as shown in Figure 9.7. If it is too long, cut it.

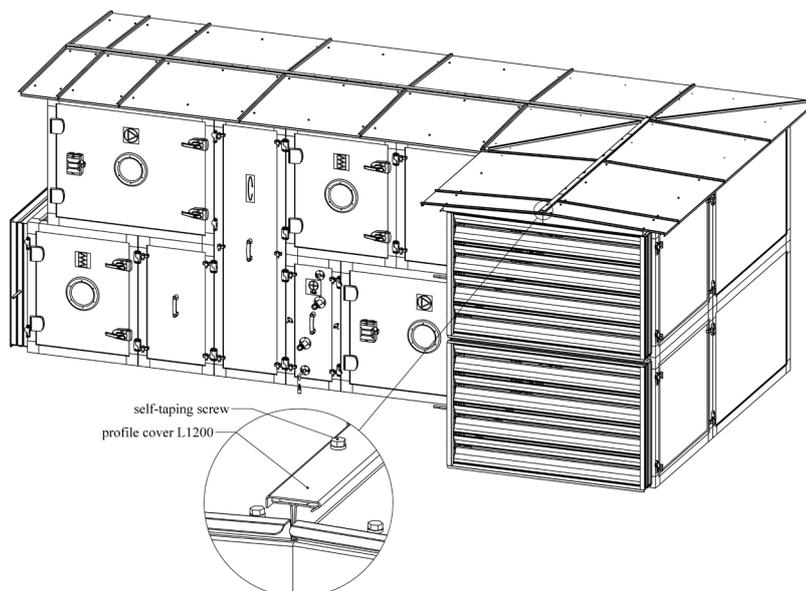


Figure 9.7

9. Fit the roof cap on the center of roof corner segments and attach to the segments by self-taping screws supplied with the unit as shown in Figure 9.8.

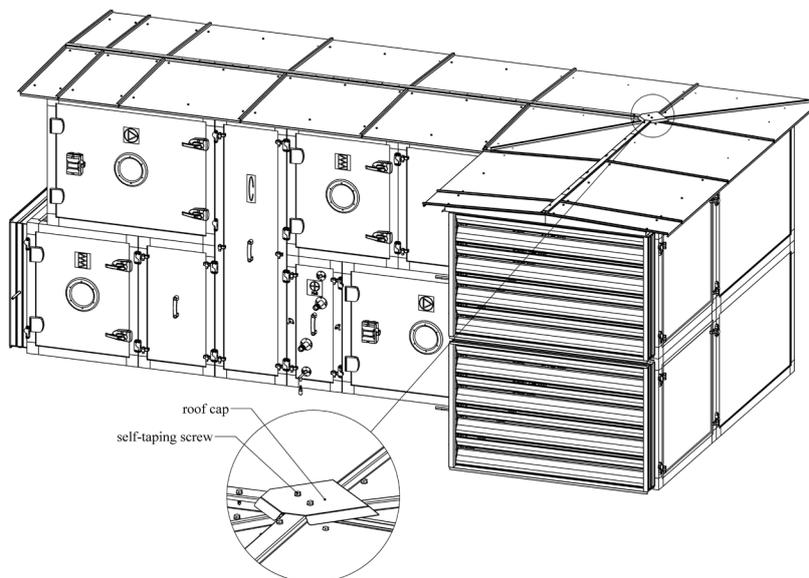


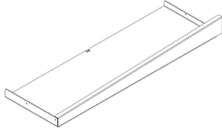
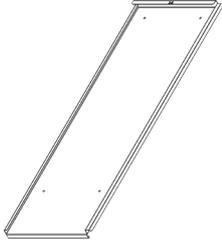
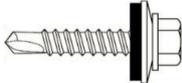
Figure 9.8

10. ROOF PARTS LIST FOR WIDENED SECTION

Table 10.1 shows general drawings of the roof parts that can be additionally supplied with the unit for widened section. Exact number of supplied parts depends on the configuration of the AHU. Part numbers are carved on the parts.

Table 10.1 Roof parts list

PART	QUANTITY, PCS	PICTURE	PART NUMBER	LENGTH, MM	COMMENTS
Widened longitudinal front edge support	Depends on the unit's configuration		W2-1	250	Used on unit's edges
Widened longitudinal middle edge support	Depends on the unit's configuration		W2-2	250	Used on unit's edges
Widened longitudinal front support	Depends on the unit's configuration		W1-1 W3-1 W4-1 W5-1	200 400 600 800	Used in the center of the unit
Widened longitudinal middle support	Depends on the unit's configuration		W1-2 W3-2 W4-2 W5-2	200 400 600 800	Used in the center of the unit
Widened transverse support	Depends on the unit's configuration		W6-1	Length depends on the width of the unit.	

Widened rear support	Depends on the unit's configuration		W7-1 W7-2	Length depends on the width of the unit.	
Widened roof segment	Depends on the unit's configuration		W1-3 W1-4 W2-3 W2-4 W3-3 W3-4 W4-3 W4-4 W5-3 W5-4	200 200 250 250 400 400 600 600 800 800	Segment width depends on the width of the unit
Profile cover L1200	Depends on the unit's configuration			1200	
Sealing strip 18x8	Depends on the unit's configuration				
Self-tapping screw GTX3 4,8x25	Depends on the unit's size				

11. ROOF ASSEMBLY FOR WIDENED SECTION

1. There are roof support strips (installed at factory) on the top of the outdoor unit, as shown in Figure 11.1.

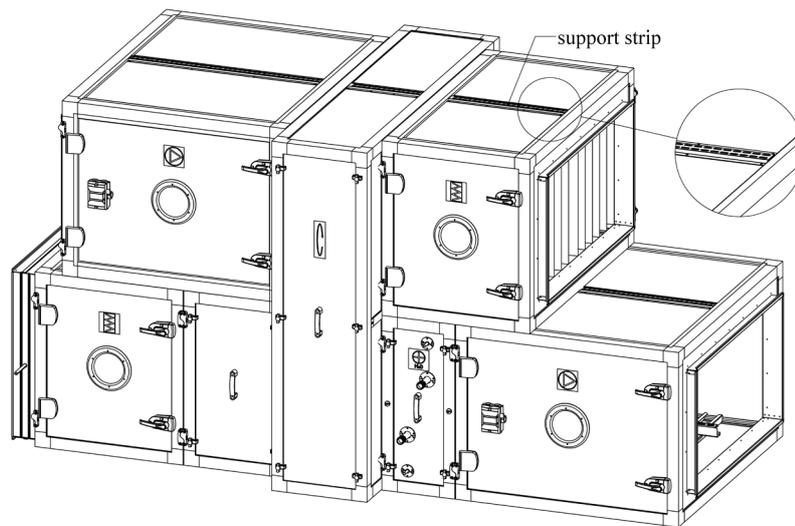


Figure 11.1

2. Start the assembly from the widened section. Connect longitudinal edge supports W2-1, W2-2 to the rear supports W7-1, 7-2 and W6-1-transverse supports using self-taping screws supplied with the unit as shown in Figure 11.2 (I).

3. Connect the longitudinal center supports W1-1, W1-2, W3-1, W3-2, W4-1, W4-2 or W5-1, W5-2 to each other (depending on the length of the unit) using self-taping screws supplied with the unit and connect end-to-end edge supports W2-1, W2-2 as shown in Figure 11.2. (I).

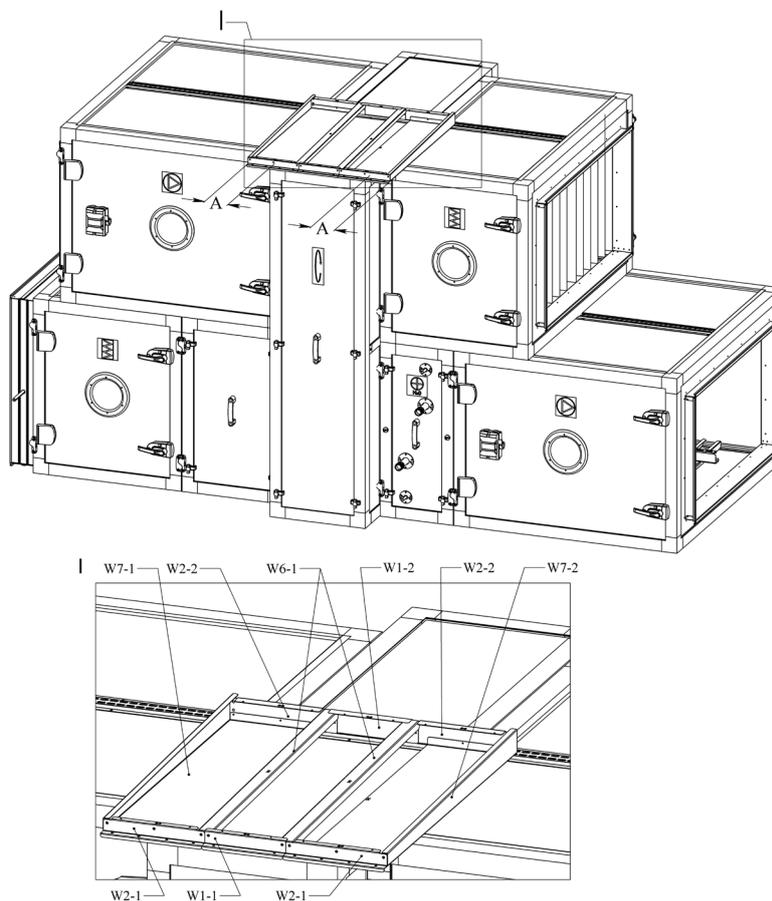


Figure 11.2

W2-1 - longitudinal front edge support; W2-2 - longitudinal middle edge support; W1-1-longitudinal front supports; W1-2-longitudinal middle supports; W6-1-transverse support; W7-, W7-2 – rear support.

4. The combined entire frame of the details must be centered according to the length of the unit, the distance A must be the same on both sides as shown in Figure 11.2. A distance can be between 50 – 150 mm.
5. Center and attach frame to the unit using self-taping screws supplied with the unit.
6. Assemble the opposite side of the frame in the same way as the first one. Complete frame assembly is shown in Figure 11.3.

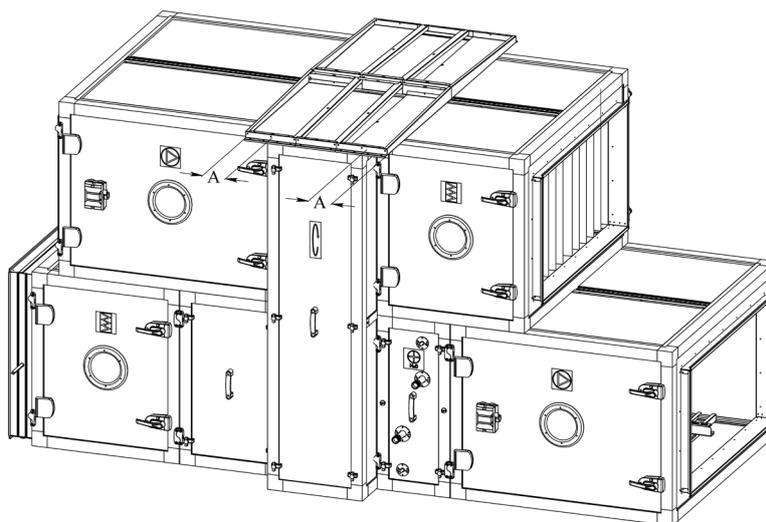


Figure 11.3

7. Attach standard roof supports in accordance with clauses 1, 2 and 3 of Chapter 4, after mounting the widened section supports, as shown in Figure 11.4.

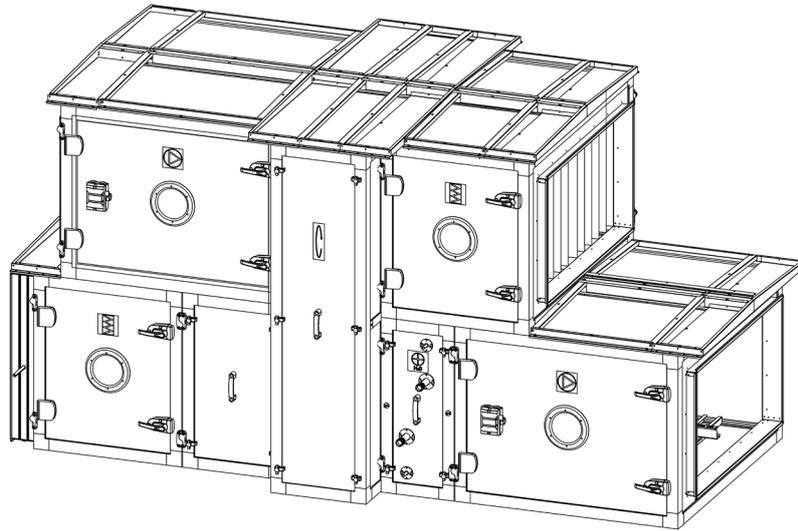


Figure 11.4

8. Fit the roof segments of a certain width with the same spacing of the frame and attach to the frame by self-taping screws supplied with the unit as shown in Figure 11.5.

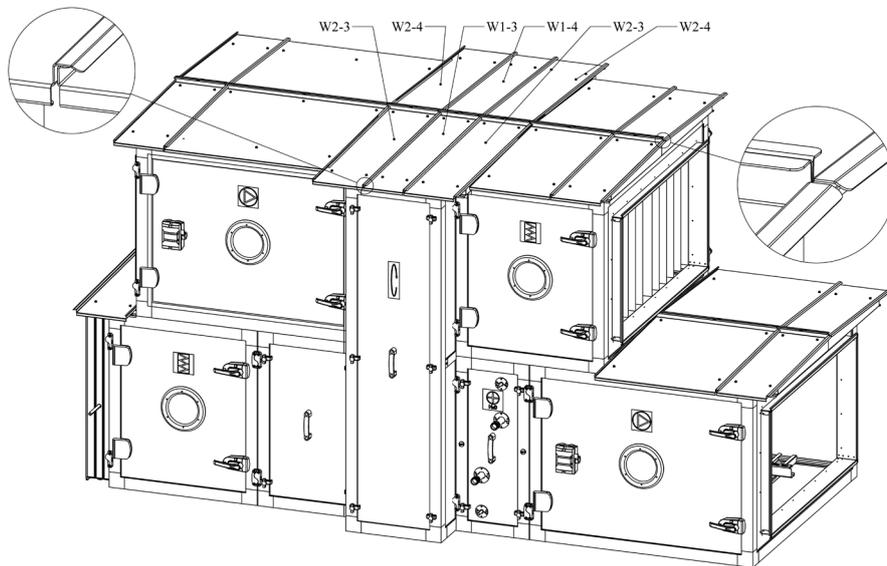


Figure 11.5

9. Apply supplied sealing strip 18x8 on segments in the middle, in accordance with clauses 8 of Chapter 4. Fit the profile cover L1200 on segments in the middle attach to the segments by self-taping screws supplied with the unit, in accordance with clauses 9 of Chapter 5.



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