



Modular chimney DD-1 manual

**BE SURE, THAT YOU HAVE READ THE MANUAL BEFORE
YOU START INSTAL THE MODULAR CHIMNEY**

**2015
VILNIUS**



Manufacturer: Individual enterprise "Arkam"
Dariaus ir Girėno Str.173, Vilnius
Tel.+370 670 21686
www.arkam.lt
arkam.gamyba@gmail.com

Installation of rubber seal

The rubber seal is design to protect the inside elements of the roof from raining and humidity. If the roof is embossed, then need to instal the flat metalplate, which covers the overlap of the roof for requirement edges and distances. The following operations ensure that the rubber seal is properly installed:

- place the rubber sealing part on the top of the chimney, pull the rubber element down, use the soap solution as a lubricant if necessary, since the diameter of the rubber seal must be 20% smaller than the diameter of the chimneys;
- press the edges of the rubber seals against the roof surface. Attach the lower part of the rubber seals to the roof surface using a cold and waterproof sealant and remove excess sealant;
- fix the edges of the rubber element on the roof using screws or a metal plate, at a spacing of 35 mm;
- install the clamp on the top of the rubber seals using the tool kit.

Installing the chimney hat

Place the hat deep into the top of the chimney. Do not tighten it too tight, as cleaning the chimney requires it to be removed.

Installation of a ceiling plate

The ceiling plate is used to close the chimney to a horizontal or inclined surface (up to 12 degrees). It contains two elements:

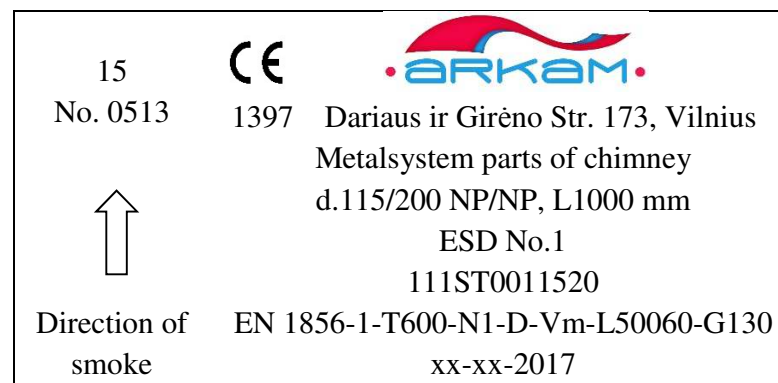
- Place the plate elements around the chimney, avoiding the surface of the chimney housing, so that the hole is closed;
- Fix the edges of the plate with the help of screws.

Cleaning the chimney

To clean the chimney, use special tools made of polymer materials or stainless steel.

Modular chimney DD-1 general information

A round double wall chimney system is designed to release the flue gases of the heating system in a natural way. It is suitable for gas, liquid and solid fuel stoves, the maximum flue gas temperature is 600 °C. Certified materials that are not harmful to human health are used to produce chimneys. The inlet pipe has a nominal size of 115 mm, the pipe is made of stainless steel (class 1.4404, thickness - 0.6 mm).



Drawing1. Double wall chimney system identifying elements

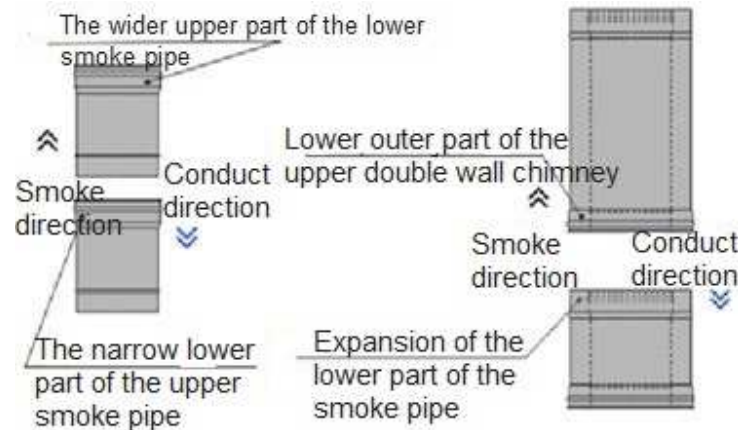
Material class	Material number	Model
50	1,4404*	X5CrNiMo 17-12-2
Mineral wool		Paroc Wired Mat 80
20	1.4301	X5CrNi 18-10
* Equivalent 1,4571 (X6CrNiMoTi 17-12-2) to material Nr.1.4404		

Drawing 2. Material specification

The specifications of the product specification for the design, installation and operation of chimneys must be strictly follow.

Modular chimney DD-1 elements installation

The assembly of double wall chimneys is carried out as follows: the tubes of the inner chimney are turned one on top of each other so that the outer edge of the upper pipe must cover the outer edge of the lower pipe (see drawing 3), where it is seen that it prevents the rain from entering the chimney.



Drawing 3. Double wall chimney installation

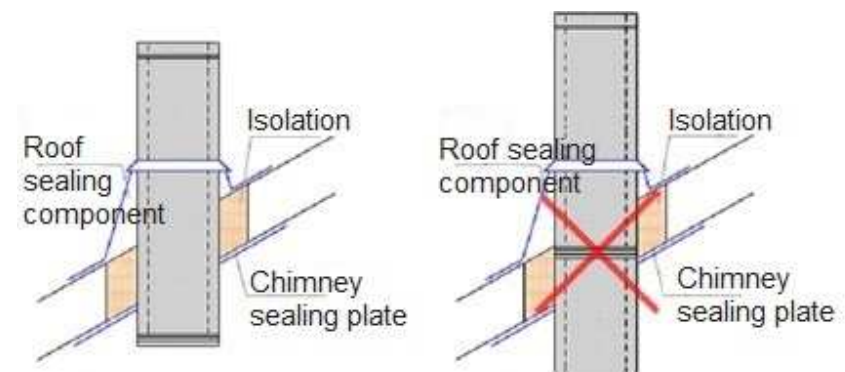
The inner tubes must be tightly connected to a fireproof 1200 °C silicone. When installing the chimney, external pipes are fastened with stainless steel clamps ISO 15983-4x8-A2 / A2. The amount of stains depends on the diameter of the outer wall. The amount of clamps is shown in Table 1.

Table 1

Outer wall pipe diameter, mm	Stains quantity, pc
200	3
>200	4

When installing the chimney, you must maintain a safe distance:

- the distance between the outer wall of the double walled chimney and the combustible materials must be at least 130 mm;
- the distance between the insulated pipe and the combustible materials must be at least 500 mm;
- the insulated part of the smoke pipe must be protected (for example, by means of a network) in order to avoid possible accidental human exposure to the surface;
- At the intersections of the chimney with other building materials (ceilings, roof, wall), holes of appropriate size (chimney diameter plus double distance from combustible materials) must be made. Empty spaces must be filled with insulating, non-combustible materials attributed to class "A" with an operating temperature of 600 ° C and higher example with a high-quality mineral wool. It is prohibited to connect the chimney elements at the intersections of building structures (see Drawing 4)
- The maximum height of the element above the connecting clamp of the last chimney element must be 2 m.



Drawing 4. Mounting the chimney device connection at the intersection of the construction site.

