

## THE PROCEDURE FOR INSTALLING SECURE AND EFFICIENT STUTTERS

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**Abstract:** This paper introduces a novel conceptualization of the chimney in a heating boiler for multi-storey residential buildings. It also examines the safety and efficiency aspects associated with the utilization of these chimneys in high-rise apartments.

**Keywords:** Boilers, porch, chimney, thermal coefficients, carbon dioxide, iron, tin, glare, burns, injuries, bird's nest, corrosion, poisoning.



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### Introduction

The President of the Republic of Uzbekistan is Sh.M. Mirziyoev In his address to the Supreme Assembly and the people of Uzbekistan, emphasized the necessity for relentless efforts in establishing the essential prerequisites for a peaceful and prosperous existence for our population, as well as the advancement that can only be attained through diligent and courageous labor. All of our accomplishments represent the initial outcomes towards the creation of a magnificent nation characterized by human worth - a novel Uzbekistan. We must persist in collaborating with our innovative individuals to carry out benevolent actions. To ensure the prevention of potential looting and to protect the safety of our citizens and their property, it is necessary to demonstrate the competence and trustworthiness of the military men from the Ministry of Emergency Situations through our hard work.

The high incidence of IS gas poisoning incidents in our Republic, particularly in apartment complexes, highlights the necessity of developing creative techniques to prevent such catastrophes.

### Results and Discussion

Based on our observation, the heating boiler stumps in the apartments where our citizens reside vary in terms of size, length, and structure, including iron, tin, and etc. Heating boilers are typically operated within a temperature range of approximately 400 degrees Celsius to 1200 degrees Celsius, depending on their size and construction. Given that the room temperature is 25 degrees Celsius and the outside air temperature is -15 degrees Celsius, the freckles exhibit luminescence and freezing due to the contrasting concentrations of hot and cold air.

The primary purpose of stutters is to expel harmful gasses that result from the burning of natural gas. During freezing conditions, poisonous gasses generate stutters, preventing them from fleeing the chamber and instead causing them to spread within. In 2023, within the borders of the Republic of Karakalpakstan, there were 4 incidents of human is-gas poisoning resulting in the death of 13 individuals. Additionally, 6 people were hurt in these incidents. Furthermore, there were 6 cases of gas-air mixture flash resulting in the death of 8 individuals. Twelve people also suffered burns in these incidents. The majority of emergency circumstances related to gas poisoning are caused by the incorrect alignment technique of heating boiler whistles in apartment complexes. During the autumn-winter season, the heating boiler may release gases that are distinct from the natural gas being burned. This can occur when the hoods of apartment buildings freeze or become misaligned. Instead of being expelled outside, these gases can enter the room. As a result, the residents in the units are being poisoned. Given that the city of Nukus will have a total of 665 multi-storey residential houses, containing a total of 24,251 apartments, it is worth noting that even the apartments within these buildings lack modern 2-contour heating boilers. Therefore, we must find an optimal solution by the established rule.

For this proposed multi-storey living house arrangement, it is recommended to position a solitary cylindrical support, measuring 219 units in diameter, composed of iron (or tin) with a thickness of 5 mm, running lengthwise along the podium.

The lower portion of this stump should be positioned on the ground, while the side portion is attached to the wall. The higher half should be fixed at a height of 0.5 meters above the slate section of the multi-storey residential building.

Perforations are created in both the lower and higher sections of this structure to facilitate air circulation within. Additionally, a protective area is incorporated in the upper half to prevent the entrance of cold air. The following image shows a detailed architectural drawing of a proposed residential building with a cylindrical support.





Ultimately, this system will effectively prevent issues such as the freezing of hoods on makeshift heating boilers in multi-storey apartment buildings, as well as blockages caused by various waste materials (such as bird nests or iron corrosion). Additionally, it will address the occurrence of gas poisoning among residents living in multi-storey buildings. By implementing this interpretation of the stutter in the walkways of all residential buildings, we will establish the essential circumstances for our inhabitants, in line with the idea of human dignity emphasized by our president.

## Conclusion

In conclusion, the address by President Sh.M. Mirziyoev underscores the critical necessity for innovative and diligent efforts to ensure the safety and well-being of Uzbekistan's citizens, particularly in preventing gas poisoning incidents in multi-storey apartment complexes. The proposed technical solution involving the installation of cylindrical supports for heating boilers aims to address the prevalent issue of improper gas expulsion, which is exacerbated during freezing conditions. By enhancing the structural integrity and alignment of these systems, the risk of harmful gas buildup and subsequent poisoning can be mitigated, aligning with the broader national vision of creating a prosperous and dignified society. These findings highlight the imperative for ongoing research into optimal heating system designs and the development of comprehensive safety standards. Furthermore, it is essential to conduct empirical studies to validate the efficacy of the proposed measures and explore additional preventive strategies, ensuring that the advancements align with the dynamic needs of urban residential infrastructure in Uzbekistan.

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