

# SOLUTIONS OF STAIR CONSTRUCTIONS IN MULTI-STORY BUILDINGS.

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**Abstract :** This in the article Stairs common classification . The congregation buildings and in his sketches applicable and not designed of stairs marches materials. In residential buildings used of stairs proportions of steps dimensions such as data given. Your floors height account received without design for example and of the matter solutions cause passed .

**Key words :** *pillapoya, marche, non-smoking stairs, Staircase horizontal, always used service stairs.*

## Introduction

Staircase or the staircase one from the floor to the other take going one or one how many stairs There are new playgrounds \_ poles , handles , fences and addition parts own into takes \_ The stairs are it stairs placed building across vertical respectively stretched out division .[ 2] Bedrooms for families with children must be placed in separate sections or blocks with a stairwell for separate evacuation not higher than the 3rd floor. In buildings with a height of 4 floors and more, as transparent light-transmitting parts to doors, transoms (in doors, landings and walls, including stairwell walls) and landings. doors should be without transparent parts or made of reinforced glass parts. [3]

## Requirements for stairs:

The stairs are solid. It should be convenient and safe for food and people's movement and protected from fire. Placement of stairs in the building, their number and dimensions are determined depending on the function of the building, whether it

is large or small, and whether it is convenient to evacuate people at the specified time.

### **Stairs structure**

Stairs from marches and stairs from the fields consists of will be Marsh construction own in turn pillapoya and him carrying standing from the hammer consists of will be Staircase grounds floor plane and floors between is located will be Of people safe rise or fall for stairs height was 0.9 m \_ handle bars with equipped will be Vertical edge of pillapoya with pillapoya march horizontal edge *pillapoya face* is called \_ Staircase march stalks the most high and the most from the bottom except one different to look and to size have will be If the open stairs of the building wing are more than 2.5 m wide, additional separating handrails should be installed.

### **Results.**

According to their function, stairs are divided into the following types: Main or main stairs (always used service stairs), Evacuation stairs, External evacuation stairs, Service and emergency stairs.

To species is divided . From the stairs shortcoming used some in buildings helical in the form of stairs is used . It's crooked linear main stairs to be used permission will , however in the turn of steps narrow part exit of width the most less the amount is 22 cm from less not to be condition .[4] Staircase horizontal grounds between one 3 on the march less didn't happen and from 16 did not increase on the steps rise up in the eye to be caught permission will be ( slanted linear stairs from this except ). Only one marshal or 3 marchers on the 1st floor level of the stairs one from 18 on the march a lot didn't happen on the steps rise up in the eye eclipse can \_ Staircase of the march width accident in the situation people evacuation to do to provide account take is selected . That's it according to , the main zines march width two layered in buildings at least 900 mm, three and from him a lot layered 1050 mm

in buildings acceptance will be done . Staircase grounds width from the width of the march larger - at least 1200 mm acceptance will be done . [5]

Floors between marches to the number according to stairs types .

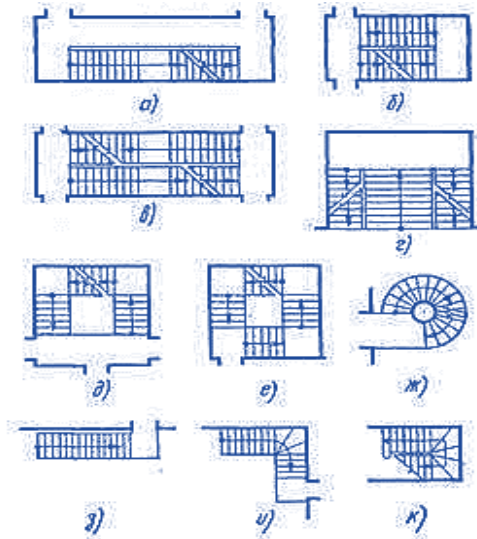


Figure 1 marches the number according to stairs .

з. One marshal ; а, б, в, г Two marshal ; д, Three marshal ; Yes, Four march

The stairs floor height account received without design for issue solve the rule . The rule and in the standards basically pillapoya width 250-300 mm, height and 150 mm, some 180 mm only in cases goes In this people average step horizontal without 600 mm , on the stairs in his walk while this size is 450 mm equal to that is ,  $300 \text{ mm} + 150 \text{ mm} = 450 \text{ mm}$  is taken .

Staircase and pillapoyani dimensions building height looking to determine the following in the example seeing we go out

An example . Building floor height  $H= 3.3 \text{ m}$ , march width  $b=1.05 \text{ m}$ , stairs the slope was 1:2 residential building for two marshal stairs dimensions define

This issue in solving pillapoya dimensions of  $300 \times 150 \text{ mm}$  , stairs making the width  $B=2b+100= 2 \cdot 1050 + 100=2200 \text{ mm}$  is taken , this number 100 on earth marches between slit width One march height:  $H/2=3300/2=1650 \text{ mm}$ . One on the

march pillapoyas number :  $n=1650/150=11$ , from this pillapoyas making the number 10 is taken .

Height from 28 m high has been in buildings the staircase cells fire smoke not included by doing design a must Two the staircase from the cage one or the staircase cells a lot has been without 50% of them are type done to them access external open fire smoke not included pass is open balcony or not opened open loggia type corridor through to be need .[3]

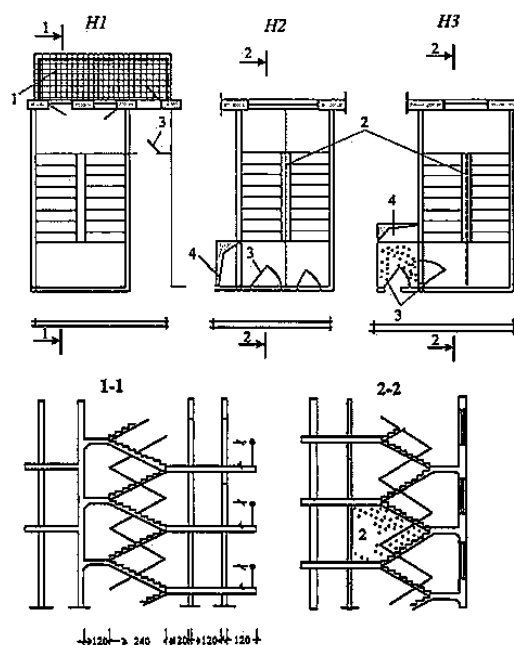


Figure 3 is smoke not included stairs types . 1. air zone , 2. against fire slot , 3. doors , 4. smoke extractor mine

28 meters increased in buildings smokeless stairs design necessary Of people himself himself evacuation to do corridor being service doer this constructions collection not only Maybe a place to stay public also wide in the buildings apply important importance occupation is enough (Figure 3)

### Summary

Projecting in processes non-smoking stairs design people evacuation to do for amenities cause releases Stairs floor height according to count constructions as well

right choose for help gives Stairs different different in appearances solutions while each how in the form of to buildings right will come and to be projected makes it easier.

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