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## Typical Recommendations For Different Premises

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**ABSTRACT:** This paper deals with installation options of electrical sockets and switches. The installation of such parts requires compliance with the conditions for height, distance, and others. The basic rules are relevant for the location and installation of sockets and switches in various rooms, wherein the design of these elements is also important in the living space.

**KEYWORDS:** Switching devices, residual current device.

### INTRODUCTION

Think about where it would be convenient for you to connect this or that electrical appliance. Determine the height of the sockets and their distance from walls and windows. But first things first: let's go through the rooms, from the hallway to the toilet, and together we will think about how best to place the sockets.

#### Location of switches

Among the large number of rules, four actions stand out, which for some reason are often violated inside residential buildings and therefore require close attention:

1. Access to switching devices
2. Places for safe placement of switches
3. Socket installation methods

The optimum height depending on the average height of the people living in the apartment. Next are the outlet groups above kitchen countertops or work tables in offices. Series of 3-4 sockets are located 10-15 cm above the table top (about 120 cm from the floor). Below, just 30 cm from the floor, there are sockets for connecting stationary equipment. This height is optimum if the plug does not have to be removed very often: the wires are not conspicuous, while the risk of accidental water ingress during wet cleaning is minimized. The

location of the sockets in the apartment for each room is selected separately. You need to start from the planned placement of electrical appliances, as well as from the layout.

### **Kitchen**

In new buildings, even at the design stage, it is often taken into account that powerful household appliances will be installed in the kitchen, and one outlet is not enough. The kitchen has a lot of household appliances, both large and small. Therefore, it is necessary to start designing devices with the location of all household and electronic devices in the room. The main part of the equipment is located on the kitchen set. There are several rules on how to position the sockets in a kitchen:

1. For built-in appliances, it is better to place the sockets behind the walls of adjacent cabinets. It is forbidden to place the device immediately behind electrical appliances.
2. For the hood, such an element is installed at a distance of 60 cm from the top of the kitchen cabinet.
3. Placing sockets above the table top is necessary for connecting small household appliances. This comfortable position allows you to connect a blender or electric kettle. As a rule, they are installed at a height of up to 30 cm from the work surface. In this case, do not forget about the placement of the outlet for the refrigerator, oven and hob. Do not use a double socket to connect the hob and oven, because it simply will not withstand the load.

### **Bathroom**

The presence of a socket in the bathroom is not only comfort and convenience, but also an extremely necessary. According to the Electrical Installation Rules, the sockets must be located at a distance of 60 cm from the bathroom or shower. Therefore, the usual design will not work here, it is necessary to install a moisture-resistant case. Important: Its complete set includes a cover that is able to close the contacts. The degree of protection of the wiring device must be at least ip44.

- All switches and other electrical equipment must comply with the standard for electrical equipment for wet rooms (protection class at least IP44) and be reliably grounded. The designer or designer should definitely tell you about this.

- The outlet for the exhaust fan can be installed at the top, next to it.

- If the dimensions of the bathroom allow you to install a washing machine as well, remember that the connector for it is located at a distance of at least 50-60 cm from the water pipes.

But the choice of a place for installing the switch must be approached very carefully. It should be positioned so that when entering the room, you can turn on the light with one intuitive movement, without looking for the switch key in the dark.

### **Living room**

Here, as a rule, there is a TV set, a cable or satellite TV set-top box, a media center, or some other audio-video equipment, such as game consoles for children. Already five or six points. Plus, you need to leave a couple of free connectors just in case: charge your mobile phone, turn on your laptop. In this room, the layout of the sockets is developed taking into account the peculiarities of the arrangement of furniture. Connection points for TV (1-2). They are placed either just above the TV stand, or on the wall so that they are hidden behind the screen, and the TV can be connected as discreetly as possible. Points for connecting chargers, tablets or laptops. They are mounted either above the pedestals near the armchairs, or near the sofa at a height of 30 cm from the floor. If the living room is used as an office, then 2-3 sockets can be located 10 cm from the surface of the desktop. Connection points for household appliances (vacuum cleaner, oil heater) 10-15 cm near the doorway at a standard height of 30 cm. The optimal location of the switch to the right of the entrance is at a height of about 90 cm.

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