

A proposed Vision to Achieve Easy Use for People with Special Needs in Service Elements, Devices and Technical Installations in Buildings

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Abstract:

People with special needs and people of determination are an integral part of society, that hence The research discusses a new vision in dealing disabled people with buildings, so that they can be integrated into society and contribute to life in addition and production. This can be achieved by designing buildings, roads and even friendly cities by providing some conditions, updating and developing them according to modern design techniques. The research exposed to achieve and meet these needs within the service parts of the building, the technical devices and installations. As the research reviews its problem represented in neglecting those technical installations and the necessity of updating them according to modern and developed technology, then the importance of the research and its assumptions, limits and its theoretical methodology. The research also discusses the requirements proposed to work with and their application in the control tools of the building operation through the empty spaces, electrical outlets, taps, buttons, information signals, lighting panels and the uses of colours, as well as some technical installations to be developed in service architectural spaces in the building in public and private toilets inside the building in terms of location, toilets cabins, signs, doors, interior fittings, requirements for handles, lighting, and interior finishes. As well as the requirements that must be met by using modern technology in sanitary devices, such as a toilet device, sinks, urinals, bathtubs, shower rooms, cabins (showers), toilet accessories, and in changing rooms in toilets, that is explained with a proposal for the required sizes and figures shown, then making research recommendations and references.

Keywords:

Technical installations. People with special needs. Universal access. Service elements. Fixtures.