

# The Universal Bathroom



## Introduction

Compared to the other examples, the universal bathroom is more adaptable to the changing environments and users. It has wider range of users than the packaged bathroom and the bathroom in barcelona house. And even though this bathroom is designed for residential uses, unlike the other two examples, it has potentials to be implied to various types of non-residential public buildings. This design has both the 'completeness' of the packaged bathroom and the 'flexibility' of barcelona bathroom, and thus will work best as a good modular-designed based bathroom. The Center for Inclusive Design & Environment Access together with the National Institute on Disability & Rehabilitation Research invented and has developed the universal bathroom. The design consists of the movable fixtures bathroom and the movable panels bathroom. The universal bathroom is specially made to consider needs of human life cycle. It includes movable sink and shower, and height adjustable fixtures. The fixtures and spaces provided are made to adapt, flex, allow personalization, and offer multi-purpose uses. Consisting of three main units, the lavatory, the toilet, and the shower, made to fit the minimum size of bathroom, that is 5'x8', the universal bathroom can reduce installation costs and space requirements.

## Movable Fixtures Bathroom

The universal bathroom has fixtures that meet changing demands. With instant & easy movement, the sink and shower units can roll along the modular wall for larger toilet. Furthermore, you can create three large bathrooms in one space. The fixtures lock to its position securely while not in use to create stability and prevent unwanted movements. The shower unit comes with the shower screen that can move along with the shower for various enclosure and sizes, and it will store flat to the wall while not in use. The toilet unit has multilayer seats for the variety of seat heights. the plumbing, drain, and electricity are flexibly assembled, allowing adaptation to future changes. Each fixtures come with a built-in illumination, height adjustment that can be controlled both manually and motorized, and they're mounted on the wall for easy cleaning and maintenance.

