Abstract:

Although the effectiveness of new Architectural Life Support System proven to the industry for more than twenty years, it has not clearly appeared in the actual market. As for this actual situation, two reasons can be mainly pointed out. Firstly, as the house-building market has been dominated by new construction, the necessity of independent Architectural Life Support System system industry has not been so strong. Secondly, almost Architectural Life Support System component systems developed so far were only incomplete substitutes for conventional interior and equipment works. However as to the first reason, the situation is changing. Namely as new construction market has gradually become smaller, renovation market has gradually become bigger. In case of interior renovation projects, Architectural Life Support System system industry can act as independent integrator of such projects. Concerning the second reason, Architectural Life Support System components should be developed in a similar way as more value-added industrial products. In this paper, an example of value-added Architectural Life Support System system development for the renovation market is presented. This development project which is called "Architectural Life Support System System Development" started in April 2000 and ended in March 2006. In this project, in order to develop attractive components in the market, the target market was clearly fixed as the renovation market of existing
multi-family dwellings for elderly people’s living. Especially it was to make a little handicapped elderly people’s life more independent and more vigorous than usual. Several specific Architectural Life Support System components were designed, produced and installed in three full-size exhibition rooms and the Architectural Life Support System systems were evaluated from lots of visitors. In the next stage till 2010 mechatronic, microelectronic and robotic functions will be implemented. In this paper, after showing what were developed and how developed, the possibility of such value-added Architectural Life Support System systems development is discussed based on the result of people’s evaluation.

Stichworte: Architectural Life Support System System, Elderly People, Renovation, Reusable Components, Microelectronics, Mechatronics

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