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GEOMETRY AND DESIGN

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Commercial products emerging in the market are often poorly designed in terms of geometry and functionality. In particular, it deals with the elements of the ventilation, sanitation, fireplace, etc. used in houses and apartments. Such elements are produced by smaller companies that do not have specialised R&D or design departments. The paper presents various examples of such solutions. Searching for an answer about the cause of the appearance of incorrect solutions, it seems that they are of two types: The first is the economy (expensiveness of technology necessary for the operation, sometimes greater consumption of materials). The second aspect is the knowledge of rules for construction of the type of elements. It is difficult to determine whether the constructor was forced to significant deviations from the rules due to the technologies, or he did not know the rules.

There are various solutions available in the market and the user or the contractor must decide which to choose. The contractors for such systems are often people who do not have sufficient knowledge to select the right solution from the available. The design in fact does not specify exactly what brand the elements have to be of, but only limits to their functional properties. The contractor can only rely on his own insight or knowledge gained when selecting elements. Hence, it seems that appropriate solutions should be promoted in the professional literature and popular websites without specifying a particular manufacturer.

Literature

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