Using a Configuration System to Design Toilets and Place Installation Shafts - DTU Orbit 
(23/12/2018)

Using a Configuration System to Design Toilets and Place Installation Shafts

The aim of this research is to discover how configuration systems can support a product's design process when a high degree of variation is required and a very open or endless space exists for possible configurations. The article is based on an industrial case involving a firm that wishes to offer a bathroom configurator to architects. The aim of the configurator is to help architects design a bathroom according to relevant requirements and norms. In offering the configurator, the firm aims to enable a design that can be coordinated with a prefabricated installation shaft sold by the firm, and also to create customer leads. Four scenarios are developed for how design can be supported by four different types of configuration technologies. The four scenarios are evaluated in relation to a number of functional and technical requirements. The scenarios indicate that a good and varied range of opportunities exist for using configuration systems in the construction industry. They also show that it can be done without fundamentally changing the present process. © Kudsk et al.; Licensee Bentham Open.

General information
State: Published
Organisations: Department of Management Engineering, Production and Service Management, Management Science, Engineering Systems Group
Contributors: Kudsk, A., Hvam, L., Thuesen, C. L.
Pages: 158-169
Publication date: 2013
Peer-reviewed: Yes

Publication information
Journal: Open Construction & Building Technology Journal
Volume: 7
ISSN (Print): 1874-8368
Ratings:
BFI (2018): BFI-level 1
BFI (2017): BFI-level 1
Scopus rating (2017): CiteScore 0.58 SJR 0.253 SNIP 0.576
BFI (2016): BFI-level 1
Scopus rating (2016): CiteScore 0.4 SJR 0.248 SNIP 0.385
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.16 SJR 0.494 SNIP 0.687
BFI (2014): BFI-level 1
Scopus rating (2014): CiteScore 1.06 SJR 0.605 SNIP 1.296
BFI (2013): BFI-level 1
Scopus rating (2013): CiteScore 1.19 SJR 0.365 SNIP 0.761
ISI indexed (2013): ISI indexed no
BFI (2012): BFI-level 1
Scopus rating (2012): CiteScore 0.3 SJR 0.117 SNIP 0.738
ISI indexed (2012): ISI indexed no
BFI (2011): BFI-level 1
Scopus rating (2011): CiteScore 0.23 SJR 0.465 SNIP 1.353
ISI indexed (2011): ISI indexed no
BFI (2010): BFI-level 1
BFI (2009): BFI-level 1
BFI (2008): BFI-level 1
Original language: English
Keywords: Configuration, Expert systems, Prefabrication, Regulations, Handicapped persons, Installation, Sanitary engineering, Shafts
Electronic versions:
Using_a_Configuration_System.pdf
DOIs:
10.2174/1874836801307010158
Source: dtu
Source-ID: n:oat:DTIC-ART:compendex/449044846::38625
Research output: Research - peer-review › Journal article – Annual report year: 2014