

Research in Architectural Engineering Series, Volume 7

CARDBOARD IN ARCHITECTURE

ДЕРЕВЯНКА И ЕВУЛСЕТИНКА



Cardboard In Architecture Volume 7 Research In Architectural Engineering Series

M. Eekhout,A. van Timmeren



Cardboard In Architecture Volume 7 Research In Architectural Engineering Series:

Cardboard in Architecture Mick Eekhout, Fons Verheijen, 2008-01-15 The Department of Building Technology at the Faculty of Architecture at TU Delft is studying and developing cardboard as a potential building material on a broad systematic and where possible comprehensive basis The guiding research question is How can cardboard be used in both architectural and structural terms as a fully fledged building material making use of the material specific properties An exploratory phase from 2003 to 2005 including an outdoor pilot structure multi shed a pilot pavilion accommodating an exhibition workshops on resistance to fire and to damp a first patent KCPK the design of an interior wall Besin and the publication of this book was concluded by an international symposium attended by both the paper industry and the building industry This publication comprises the report on that symposium *Lord of the Wings* M. Eekhout, S. Wichers, 2016-03-10 Buildings are neither conceived nor realized by architects in a vacuum the architect forms part of a larger team of builders craftsmen engineers and other experts who join forces to bring together their diverse fields of knowledge This book describes the design and development of the building process for the wings at the Yitzhak Rabin Centre in Tel Aviv and demonstrates how collaborative building technical design and development can lead in an integrated and innovative but risky process to an extreme innovation an Octatube Moonshot The challenge posed by the Rabin Centre wings was to develop an entirely novel technology for constructing free form shells It is necessary for many disciplines to collaborate in such a process and these must be coordinated throughout the entire process including all of its unforeseen and experimental stages The results of the process then have to be integrated into one technical artifact that satisfies all requirements and delivers effective answers or compromises in all of its life phases be that conceptual design material design detail design engineering production assembly installation loading behavior functional use as a building meaning of the building as an artifact even as architecture and in both its local and global context in its meaning as an integral part of the building *Development and Realisation of the Concept House 'Delft' Prototype* M. Eekhout, A. van Timmeren, 2016-03-10 The Delft Prototype is a single apartment from a not yet realized Concept House Urban Villa which consists of 16 apartments on 4 floors Both the urban villa and the prototype demonstrate the characteristics of high level industrial production with an extremely low ecological footprint as well as being energy positive in use and both are suitable for multi storey housing The research development production and built prototype resulted in a unique innovation on the Dutch building market a sustainable energy positive apartment system for medium rise energy positive housing This scientific report deals with the history development and realization process of the prototype up to the completion of the building phase after which the prototype was furnished and the garden landscaped culminating with the opening of the prototype in October 2012 The development was initiated by Mick Eekhout s Chair of Product Development at the TU Delft at the specific request of the building industry and was carried out in close collaboration with a consortium of partners from the SME building supply industry Innovation continues to progress

in these partner industries The entire project was externally financed for the 8 years of its duration Apart from initiative and natural project leadership the innovative contribution of the Chair included the design coordination and integration of the many components into the single coherent entity of the Concept House Delft Prototype The Future Envelope 3 Ulrich Knaack,Tillmann Klein,2010 For The Making Of the book title s association to film making the director must have broad knowledge of the technical aspects of producing a film If a designer architect aims to reach beyond the basic standard and wants to have full control over the outcome of his work he or she also needs to cover all the different aspects of The Making Of This book shows cutting edge examples of how fa ades are currently made But it also reveals where possible innovative developments will emerge from and what the typical problems are in implementing them in the unique building market

The Future Envelope 2 Ulrich Knaack,Tillmann Klein,2009 The role of the building envelope related to the energy performance of a building and the comfort of the user is significant This title deals with the practical experience and visions of the specialists from the fields of architecture engineering and research for the climate oriented building envelope **The**

Future Envelope 1 U. Knaack,T. Klein,2008-01-28 Challenges the market and creates discussions on the basis of concrete material This book also focuses on non technological topics It discusses items such as issues of strategy and the analysis of customer desires and demands

The House as a Product A. Vogler,2016-03-10 Industrialized housing has been a common phenomenon in the building industry since the industrial revolution the casting of iron components enabled Victorian iron casters to prefabricate entire buildings and to export them to all British colonies It got a second boost from Modernist architects like Ludwig Mies van der Rohe Walter Gropius and Konrad Wachsmann and a third boost in the US when the soldiers came back from the Second World War in 1945 and wanted to buy a ready made house In the later decades of the 20th century composite prototypes were built Timber frame houses are extremely popular in low density areas worldwide For densely populated areas housing is now firmly attached to reinforced concrete The contracting industries have developed efficient building methods for the concrete structures on which separate systems of claddings are fixed to form a house However in the coming decades designers builders and scientists also have to keep the environment in mind working with a minimal amount of materials and for minimizing embodied energy and energy use In the coming age minimal embodied energy and low ecological footprints are renewed values that will be added to energy positive housing and that will have an influence on the building technology of the future This will lead to a reformation of the building vocabulary Other materials will have to be chosen and developed to function in building elements and components **Free Form Technology**

from Delft M. Eekhout,2016-03-10 The success of the Guggenheim Museum in Bilbao designed and engineered by Frank O Gehry and inaugurated in 1997 opened the eyes of the world to the plastic possibilities of Free Form Design That is on the side of architects and their admiring clients Some architects draw up complicated but surprising and attractive Free Form Designs and win design competitions The next step is to involve the manufacturing industry and the contractors in realizing

these dreams According to the author s the desire and logic for an adapted Free Form Technology will become became apparent after more designs At Mick Eekhout s design build company Octatube the first experiences with Free Form Designs either failed were aborted were a disaster or led to unfortunate events such as the bankruptcy of competing firms who took on the projects without major Free Form Design experience But Free Form design has matured nowadays Many lessons can be learned from these early experiments which is the main reason to share these experiences with readers of this book

Experimental Investigations on Joining Techniques for Paper Structures Evgenia Kanli,2021-08-26 The background of this research is related to innovative lightweight construction methods for short term applications realized with highly recyclable materials produced from renewable resources Specifically the possibility of using selected paper based products for design purposes is examined The main topic discussed regards the state of the art and future potential of joining techniques for assemblies and structures designed with paper based products In this context the preference on paper tubes for a variety of designs is examined closely A collection of case studies for selected joining techniques supported with digital tools fabrication of prototypes and targeted structural experiments demonstrates possibilities and considerations This book presents the research process and aims to inspire architects designers and engineers who are eager to discuss on material innovation and the steps that need to be taken to examine the feasibility of such ideas **On the Bi-Axial In-Plane**

Behavior of Laminated Paperboard Components in Construction: A Representative Engineering Model Nihat Kiziltoprak,2023-01-29 The present book deals with the structural characterization of paperboard materials The main focus is set on the development of an engineering model for paperboard laminates for use in design processes Furthermore the bi axial limits are examined and related to those of the single paperboard sheet in order to enable the estimation of laminate performance from the properties of the single paperboard sheet on Finally a simple model for failure estimation during bi axial loading is established which relies on simple material tests

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