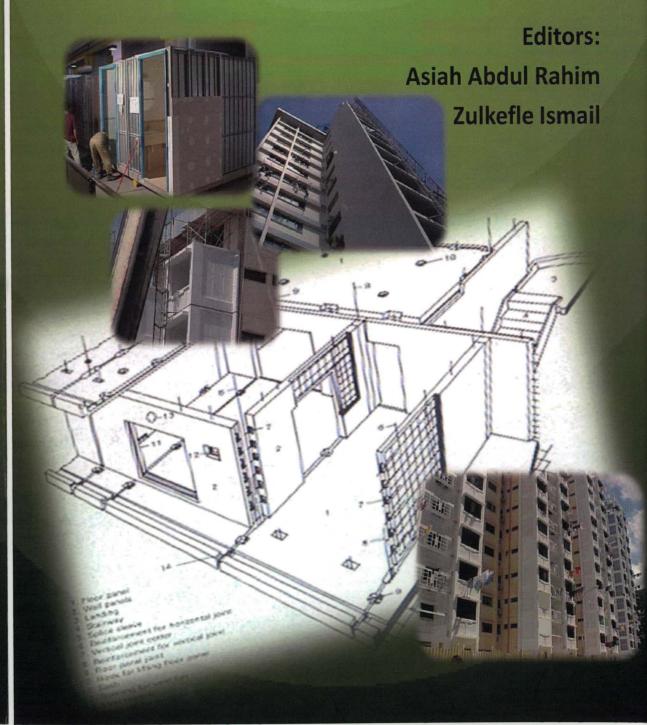
IBS TOWARDS O EN BUILDING SYSTEM IN MALAYSIA



IBS Towards Open Building System in Malaysia

editors: Asiah Abdul Rahim Zulkefle bin Ismail



Published by: IIUM Press International Islamic University Malaysia

First Edition, 2011 ©IIUM Press, IIUM

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without any prior written permission of the publisher.

Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Asiah Abdul Rahim & Zulkefle Bin Ismail: IBS Towards Open Building System in Malaysia

ISBN: 978-967-0225-51-7

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM (Malaysian Scholarly Publishing Council)

Printed by : IIUM PRINTING SDN. BHD.

No. 1, Jalan Industri Batu Caves 1/3
Taman Perindustrian Batu Caves
Batu Caves Centre Point
68100 Batu Caves
Selangor Darul Ehsan

TABLE OF CONTENTS

Chapter	Title	Page
1	Industrialised Building System (IBS): The Issue of Definition and Classification Kamarul Anuar Mohamad Kamar	1
2	Towards Open Building System in Housing: The Application of Malaysian Standard in IBS Construction Zulkefle Ismail & Asiah Abdul Rahim	21
3	The Policies and Chronology of Industrialised Building System (IBS) Adoption in Malaysia Kamarul Anuar Mohamad Kamar	44
4	Prefabricated Bathroom for High-rise Housing in Malaysia Zulkefle Ismail & Asiah Abdul Rahim	61
5	Consumers' Survey on Housing using IBS in Malaysia: Case Study in Klang Valley Asiah Abdul Rahim, Ismawi Zen, Saodah Wok, Nur Amirah Abdul Samad, and Che Raiskandar Che Rahim	82

Chapter	Title	Page
6	Adaptability and Modularity in Housing: A Case Study of Raines Court and Next21 Zulkefle Ismail & Asiah Abdul Rahim	108
7	The Setting Up of IBS Precast Manufacturing Factory in the Malaysian Construction Industry Mohamed Nor Azhari Azman, Taksiah A. Majid, Mohd Sanusi S. Ahamad, and Mohd Hanizun Hanafi	147
	Index	177

CHAPTER 6

Adaptability and Modularity in Housing: A Case Study of Raines Court and Next21

Zulkefle Ismail & Asiah Abdul Rahim

INTRODUCTION

The need for adaptability and modularity in housing, especially the latter, has always been present. demonstrates repeatedly that house form was influenced by several aspects of the environment, among them are the climate, existing materials, religious and cultural factors. The housing process is the common action of a society to fulfill certain conditions without which its existence would not be In many countries, the housing necessity of the masses remained an unresolved problem. The necessity for living accommodations has forced many dwellers to find their own alternatives to the problem of housing with the least amount of governmental support. Some actually returned to the source of the matter, regressing to a previous time era where the user built his home according to his needs, whether it be financial, technical and/or familial. Increased housing demand led to mass production. The apartment was designed and built for the unknown client. This anonymous buyer had to be flexible enough to adapt his needs within the limitations of the dwelling unit. This paper will describe the case study of adaptable and modular housing and will define the basic terms in adaptability which will be discussed further.