Application of Universal Design in the Built Environment

Editors: Asiah Abdul Rahim Ismawi Hj Zen









Application of Universal Design in the Built Environment

Editors: Asiah Abdul Rahim Ismawi Hj. Zen



INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

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 & Ismawi Hj. Zen: Application of Universal Design in the Built Environment

ISBN: 978-967-418-205-2

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

Printed by:

HUM 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
	Preface	vii
	Acknowledgement	viii
1	Universal Design and Access Audit Asiah Abdul Rahim and Nur Amirah Abd Samad	1
2	Malaysian Standards, Other Regulations for People with Disabilities, and the Future Direction Asiah Abdul Rahim, Ismawi Hj.Zen, and Nur Amirah Abd Samad	19
3	Accessible Building Design: Transportation Buildings - Case Studies of LRT Station of Bandar Tasik Selatan, Ferry Jetty of Penang, and Ferry Jetty of Pangkor Island Muna Hanim Abdul Samad, Asiah Abdul Rahim, NurAmirah Abd Samad, Wan Mariah Wan Harun, and Zulkefle Ismail	35

Chapter	Title	Page
4	Recreational Park for All Taman Rekreasi Kiara, Kuala Lumpur Saodah Wok and	55
	Ardi Herman Mohd Mardzi	
5	Accessibility for People with	88
	Disabilities (PwDs) within Housing	
	Area	
	Aniza Abu Bakar and	
	Norliza Muhamad	
6	Provision of Barrier-Free	114
	Environment at Waterfront	
	Development in Malaysia	
	Shuhana Shamsuddin,	
	Fadzidah Abdullah,	
	Ruzita Mohd. Amin,	
	Sulzakimin Mohammad, and	
	Che Raiskandar Che Rahim	
	Glossary	148
	References	151

CHAPTER 5: ACCESSIBILITY FOR PEOPLE WITH DISABILITIES (PwDs) WITHIN HOUSING AREA

Aniza Abu Bakar and Norliza Muhamad

BACKGROUND

Housing can be defined as "...a place in which the basic human activities of sleeping, eating, washing, storage of possessions, social contact, recreation and care within the self-selected household take place" (Heywood et al, 2002: p.3). The components of a housing development such as housing itself, commercial buildings (business area), institutions such as schools and mosque, as well as open space for recreation imply their importance in giving support and services in one's life. Thus, it reflects or includes the human settlement as a whole (Sudin, 2002).

Housing and its development components play a vital role in one's everyday life, particularly to those who have limited access to venture beyond this locality. It can be said that generally people with disabilities have limited spaces for their activity that affects their ability to live independently as well as their life quality and satisfaction (Phillips, 1999). Hence, problems in accessing these service areas would also mean increasing isolation and may lead to loss of independence (Heywood et al, 2002).

In studying accessibility in the housing environment, Phillips (1999) divided the housing environment into three types or levels, which are:

 the micro-scale - the internal environment such as the home design, access, maintenance and architectural aspects;