

Sun wind water earth life living; legends for design

COLOFON

Editor/author: T.M. de Jong (ed.)

Authors: C. van den Akker
D. de Bruin
M.J. Moens-Gigengack
C.M. Steenbergen
M.W.M. van den Toorn

Book production and design: T. M. de Jong

Cover and frontspiece design: T. M. de Jong

Published and distributed by: Publicatiebureau Bouwkunde

2008, Publicatiebureau Bouwkunde
Delft University of Technology, Faculty of Architecture
P.O. Box 5043
2600 GA Delft
The Netherlands
Telephone: +31 15 27 84737
Telefax: +31 15 27 83030

Sun wind water earth life living; legends for design

Prof.dr.ir. T. M. de Jong ed. 2009-11-08

Prof.dr.ir. C. van den Akker

Ir.D. de Bruin

Drs. M.J. Moens

Prof.dr.ir. C.M. Steenbergen

Ir. M.W.M. van den Toorn

AR2U070 Territory

<http://team.bk.tudelft.nl> publications 2008

Contents

INTRODUCTION	7
1 SUN, ENERGY AND PLANTS.....	11
1.1 ENERGY	12
1.2 SUN, LIGHT AND SHADOW	36
1.3 TEMPERATURE, GEOGRAPHY AND HISTORY	51
1.4 PLANTING BY MAN	68
2 WIND, SOUND AND NOISE	106
2.1 GLOBAL ATMOSPHERE	107
2.2 NATIONAL CHOICE OF LOCATION	113
2.3 REGIONAL CHOICE OF LOCATION.....	122
2.4 LOCAL MEASURES.....	129
2.5 DISTRICT AND NEIGHBOURHOOD VARIANTS.....	141
2.6 ALLOTMENT OF HECTARES	149
2.7 SOUND AND NOISE	155
3 WATER, NETWORKS AND CROSSINGS	164
3.1 WATER BALANCE	166
3.2 CIVIL ENGINEERING IN THE NETHERLANDS	206
3.3 WATER POLICY	237
3.4 THE SECOND NETWORK: ROADS	248
3.5 OTHER NETWORKS: CABLES AND DUCTS	288
4 EARTH AND SITE PREPARATION	312
4.1 INTRODUCTION	313
4.2 EARTH SCIENCES.....	315
4.3 ENGINEERING	338
4.4 APPLICATIONS FOR DESIGNERS	348
5 LIFE, ECOLOGY AND NATURE	352
5.1 NATURAL HISTORY	353
5.2 DIVERSITY, SCALE AND DISPERSION	366
5.3 ECOLOGIES	392
5.4 VALUING NATURE	429
5.5 MANAGING NATURE	446
6 LIVING, HUMAN DENSITY AND ENVIRONMENT	457
6.1 ADAPTATION AND ACCOMMODATION	459
6.2 HABITAT	482
6.3 DENSITY.....	500
6.4 ECONOMY	524
6.5 ENVIRONMENT.....	547
6.6 SOIL POLLUTION	577
7 LEGENDS FOR DESIGN	595
7.1 MAPPING.....	596
7.2 CHILD PERCEPTION.....	622
7.3 COMPOSITION ANALYSIS.....	629
7.4 LEGENDS	638
7.5 SCALES OF SEPARATION	643
7.6 BOUNDARIES OF IMAGINATION	659
LITERATURE.....	671
KEY WORDS	686
QUESTIONS.....	711

