

## EXTENDED CURRICULUM VITAE T.J. HAARTSEN

<i>Surname</i>		Haartsen
<i>Christian names</i>		Thomas Jacob
<i>Place of birth/date</i>		Dordrecht, 26 November 1950
<i>Nationality</i>		Dutch
<i>Education</i>	1963-1968	HBS-B, secondary education at Christelijk Lyceum, Dordrecht.
	1973	Parts of International Course on Housing, Planning & Building (Bouwcentrum Rotterdam).
	1968-1979	Delft University of Technology, Building science (architecture).
<i>Languages</i>		Dutch, English, French, German.
<i>Career</i>	1974	Trainee architectural design office Teheran (Iran), Design of research program on natural ventilation at the Building & Housing Research Centre in Teheran.
	1979-1980	Draftsman, J. Bos Architects, Delft (Netherlands).
	1981-1985	Building physics engineer, Peutz & Associates BV, Consulting Engineers, Nijmegen (Netherlands).
	1985-1991	(Senior) consultant building physics, DHV consulting engineers and DHV AIB, Amersfoort (Netherlands).
	1991-now	Managing director/Senior consultant building physics Climatic Design Consult, Nijmegen (Netherlands).
<i>Committees</i>	1988-1990	Building Research Foundation (SBR), Annoying reflections caused by large glazed facades.
	1989-1991	Chairman of the Committee for Dutch activities within the international research program "condensation and energy" (annex XIV) of the International Energy Agency.
	1989-1991	Several committees on moisture research
	1991-	Netherlands Standardisation Institute, subcommittee 351 74 016, Energy performance of non residential buildings, editor
	1992-1996	Member of the board of the Dutch Flemish Building Physics Association; Main editor of "Bouwfysica" (Magazine on building physics)
	1996 - now	Netherlands Standardisation Institute, subcommittee 351 74 00 01, preparation committee Dutch representation in CEN TC 89
	1996 -1998	Chairman of the Dutch Flemish Building Physics Association.
	2000 - now	Netherlands Standardisation Institute, subcom. 351 74 04, Thermal insulation of buildings - Calculation methods
	2003 - now	corresponding member of ISO TC 163/SC2/WG9 (Calculation of heat transmission)
	2004- now	Netherlands Standardisation Institute, subcom. 351 74 0008, Dutch mirror committee for the preparation of CEN standards supporting the EPBD (Energy Performance for Buildings)

Directory)

*Professional experience.*

*consulting on building physics*

new buildings among which contributions to the design of

- main office ING banking corporation, Amsterdam
- MEC, Maastricht
- Municipal theatre, Rotterdam
- Royal Naval Military Academy, Den Helder
- Governmental Office Ceramique, Maastricht
- underground school building, Arnhem
- Dutch Embassy, Bangkok

renovation of architectural highlights build in the 20th century:

- Oranje Nassau gebouw, Heerlen (Roosenburg)
- Van Nellefabriek, Rotterdam (Brinkman/Van der Vlugt)
- Luchthavengebouw Welschap, Eindhoven (Roosenburg)
- Wiebengahal, Maastricht (Wiebenga)

Energy efficient design of residential and non-residential buildings.

Moisture control in dwellings.

Natural ventilation

*experimental experience*

- air flow measurements in windtunnels;
- testsite air-solar collectors and test dwelling with air-solar collectors;
- water and air permeability tests.

*Research*

Research on the potentials for energy efficiency of non-residential buildings in the Netherlands in 2015

Development of concepts for energy performance standardization.

Coordination and final editing of Dutch Standard NEN 2916, Energy performance of non residential buildings - determination method.

Design of a monitoring system for energy efficiency of non-residential buildings on a national level.

*interim (project)management/support*

Interim project management Dutch Agency for Energy and the Environment (NOVEM).

Setting up building physics at a regional office of the Governmental Building Agency.

Secretary of preparation board of the Ministry of Economic Affairs and the Ministry of Housing, Physical Planning and Environment regarding the introduction of the energy performance standardization for buildings.

Development of educational program on energy performance standardization.

## *Publications*

- 1980     Daglicht kamer uitstekend hulpmiddel bij het ontwerpen.  
Bouw 35, nr. 14/15 (Daylight Simulation Chamber, an excellent tool for design)
- 1982     with ir. G.M.A. Perquin,  
Geïntegreerd ontwerpen maakt het dak tot warmte collector.  
Bouw 37, nr. 22. (Integrated design makes the roof a heat collector)
- 1988     with ir. E.R. van den Ham,  
Schakelbaar glas: een uitdaging voor architecten. A/B 4, nr. 10  
(Switchable glass : A challenge for architects)
- 1989     with ir. E.R. van den Ham  
Thermisch comfort in de zomer, uitgangspunten ook bij nieuwe normstelling vaak allesbepalend.  
Verwarming en Ventilatie 46, nr. 10 (Thermal comfort in summer, also for new requirements boundary conditions are often decisive)
- 1990     with ir. E.R. van den Ham  
Toekomst ziet er rooskleurig uit voor schakelbaar glas.  
Bouw 45, nr. 23     (A bright future for switchable glass)
- 1990     with ir. E.R. van den Ham  
RGD 20 aan de A 58, kwaliteit die telt voor de gebruiker.  
Facility Management Magazine (1990) nr. 12 (RGD 20 at the A 58, quality that counts for the user)
- 1991     with ir. E.R. van den Ham  
Energie normering van gebouwen. Bouwfysica vol. 2, nr. 3  
(Energy performance standardization for buildings)
- 1992     with ing. M. van Lohuizen  
Geen 160 mm beton maar 80 mm isolatie.  
Bouwwereld (1992), nr. 7     (Better 80 mm insulation than 160 mm concrete)
- 1992     with ir. G. Meerdink  
Energiezuinig ontwerpen van utiliteitsgebouwen.  
Proceedings Energie Economy 1992, Maastricht. (Energy efficient design of non-residential buildings)
- 1994     Dutch code for the determination of the energy performance of non-residential buildings,  
Proceedings European conference on Energy Performance and Indoor Climate in Buildings, Lyon, 24-26 nov. 1994.
- 1995     Normen in de Bouw; waar komen de installaties er bij ?, TVVL-magazine 24 (1995) nr. 1  
(Standardization in building design; where are installations added ?)
- 1995     bespreking "Rapport subtaak D van IEA-annex 21",  
Bouwfysica 6 (1995) nr. 1     (Review of the "Report subtask D of IEA-annex 21".)
- 1995     with A.M.S. Weersink,  
Bouwbesluit in theorie en praktijk, Bouwfysica 6 (1995) nr. 2 (Building Decree in theory and practice)
- 1995     with A. de Jong  
Omringende landen gaan Nederland voor in energieprestatienormering, Bouwfysica 6 (1995) nr.2  
(Surrounding countries are ahead of the Netherlands regarding energy performance standardization)
- 1996     Misverstanden over luchtdoorlatendheid, Bouwfysica 7 (1996) nr. 2  
(Misapprehension about air-permeability)
- 1997     with H. Krüs and R. Ruijsink,  
Rekenen met wind, Bouwfysica 8 (1997) nr. 1 (Computation of windflow)
- 1997     with H. Krüs  
Rekenen aan wind, Bouw 52 (1997) nr. 6 (Computation of windflow)

- 1998 with H.A.L. van Dijk  
Aanpassing in de energieprestatienormen,  
TVVL magazine 27 (1998) nr. 4 (Recent changes to the energy performance standards)
- 2000 with E.R. van den Ham  
Geavanceerde natuurlijke ventilatie bij kantoorgebouw Rijkswaterstaat te Maastricht, Bouwfysica 11 (2000) nr. 1  
(Advanced natural ventilation in building for the office of public works and watermanagement in Maastricht)
- 2000 Koeling in de energieprestatienorm, TVVL magazine 29 (2000) nr. 6 (Cooling in the energy performance standard)