



## 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, 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
	1991-2006	Netherlands Standardisation Institute, subcom. 351 74 016, Energy performance of non residential buildings, main editor
	1992-1996	Member of the board of the Dutch Flemish Building Physics Association; Main editor of "Bouwfysica" (Magazine on building physics)
	1996 - 2013	Netherlands Standardisation Institute, subcommittee 351 74 00 01, Dutch mirror committee CEN TC 89
	1996 -1998	Chairman of the Dutch Flemish Building Physics Association.
	2000 - 2013	Netherlands Standardisation Institute, subcom. 351 74 04, Thermal insulation of buildings - Calculation methods (chair since 2004)
	2003 - 2013	corresponding member of ISO TC 163/SC2/WG9 (Calculation of heat transmission)
	2004 - 2013	Netherlands Standardisation Institute, subcom. 351 74 0008, Dutch mirror committee for CEN standards supporting the EPBD (Energy Performance for Buildings Directory)
	2006 - 2019	Netherlands Standardisation Institute, subcom. 351 74 021, Energy performance of buildings, reporting expert member.
	2010-2021	Bureau CRG (Checking and registration of DOP's and declarations of equivalence regarding energy performance)
	2011-now	Stichting Volksbelang van 1895, Nijmegen

*Professional experience.*

*consulting on building physics*

- new buildings among which contributions to the design of
- main office ING banking corporation, Amsterdam
  - Municipal theatre, Rotterdam
  - three vaccin factories in different climatic regions, China
  - Governmental Office Ceramique, Maastricht
  - underground school building, Arnhem (ArTEZ)
  - Dutch Embassy, Bangkok
  - extension Fundatie museum, Zwolle

renovation of architectural highlights build in the 20th century:

- Oranje Nassau building, Heerlen (Roosenburg)
- Van Nellefactory, Rotterdam (Brinkman/Van der Vlugt);
- Airport building Welschap, Eindhoven (Roosenburg);
- Cygnus schoolbuilding Vrolikstraat Amsterdam
- Huf building, Rotterdam (Van den Broek en Bakema)

renovation of other monuments

- Museum Catharijneconvent, Utrecht
- Museum Boijmans van Beuningen, Rotterdam

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 standardisation.

Co-ordination 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/Agentschap/RVO).

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 standardisation for buildings.

## *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 agency of public works and water management in Maastricht)
- 2000 Koeling in de energieprestatienorm, TVVL magazine 29 (2000) nr. 6 (Cooling in the energy performance standard)
- 2006 with E.R. van den Ham  
Utilization of daylight in offices; monitoring in a sample of ten buildings;  
Proceedings 3rd International Building Physics Conference, Montreal, august 2006
- 2008 with E.R. van den Ham  
The feet of the duck or dynamic insulation; tackling single glass facades of Modern Movement buildings;  
Proceedings of the 10th International Docomomo Conference, Rotterdam, 2008 (IOS Press BV Amsterdam)
- 2010 Naar een duurzaamheidsmaatlat voor monumenten (To a sustainability rating of listed buildings); in Ecomomo nr. 1, hoe duurzaam is modern erfgoed; docomomo-nl, april 2010
- 2011 with K.C.J. Nobel  
Labels plakken op monumenten ?; beschikbare beoordelingsmethoden schieten tekort in: Duurzaam Erfgoed, Duurzaamheid, energiebesparing en monumenten; Terra Lannoo/ RCE, Amersfoort, 2011. (Attaching labels to listed buildings; available ratings fail in: Sustainable Cultural Heritage; Sustainability, energy conservation and listed buildings)
- 2012 Transparantie; reflectie over doorzicht (transparency; reflection about discernment); monografie of CDC, Nijmegen, november 2012.
- 2013 Kan erfgoed energiebesparing dragen; bouwstenen voor een bezwijkanalyse ? (Can cultural heritage bear energy conservation ? building stones for a limit analyses) ; in: Culturele draagkracht; Op zoek naar de tolerantie voor verandering bij gebouwd erfgoed; TUDelft november 2013.
- 2017 with E.R. van den Ham (free translation DOCOMOMO 2008). Dynamische isolatie of de poten van eend; aanpak van enkel glasgevels van jonge monumenten (The feet of the duck or dynamic insulation; tackling single glass facades of Modern Movement buildings); Bouwfysica 28 (2017) nr. 2
- 2021 with Wessel de Jonge and Eric R. van den Ham  
Van Nelle Factory, in: Bernard Flaman and Chandler McCoy (ed), Managing Energy Use in Modern Buildings; Case Studies in Conservation Practice, Getty Publications, august 2021
- 2022 Warmtegeleidingscoëfficiënt hergebruikte isolatiematerialen (Thermal conductivity of reused insulation materials); Bouwfysica 32 (2022) nr. 1, p 13 – 15
- 2022 Energiearmoede; het lage fruit effectief plukken; besparingen radiatorfolie achter radiatoren in vergelijking met vacuümisolatie (Energy poverty; effective harvesting of low hanging fruit; energy conservation of heat reflecting foils behind radiators compared to vacuum insulation); Bouwfysica 32 (2022) nr. 3, p 8 – 11
- 2023 Heilige graal van kunstmatige intelligentie ook voor bouwkundig ontwerpen ?; parametrisch ontwerpen of de achterkant van een bierviltje ? (Holy grail of AI also for building design or the back of a beer mat ?  
Bouwfysica 33 (2023) nr.1, p 15 – 20
- 2024 with Natasja Hogen, 'Installaties' (Building services), in: Somer, K. en R. Stenvert (eds). Bouwmaterialen (Building materials) 1940-1990. Vernieuwing, constructie, toepassing. Rotterdam: nai010 publishers i.s.m. Rijksdienst voor het Cultureel Erfgoed.