## Technical University of Denmark



# Whole-Building Hygrothermal Modeling in IEA Annex 41

Towards a new Annex?

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Publication date: 2008

Document Version Publisher's PDF, also known as Version of record

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*Citation (APA):* Rode, C. (2008). Whole-Building Hygrothermal Modeling in IEA Annex 41: Towards a new Annex? [Sound/Visual production (digital)]. CHAMPS Seminar, Université La Rochelle, France, 01/01/2008

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Software used/developed						
Name	Developer	Main user in Annex 41	Availability	Origin	Possibility of adding new components	Remarks
BSim	Danish Building Research Institute (Denmark)	Technical University of Denmark	Commercial program	Energy	No	
BUILDOPT-VIE	Vienna University of Technology	Vienna University of Technology	Research program	Energy	•	
Clim2000 3.2.0	EDF (Electricité de France)	Centre de Thermique de Lyon - CETHL, (France)	Research program, not commercially available	Energy	Yes	Core program or Unix workstation:
DELPHIN 4.5	TU Dresden, (Germany)	TU Dresden	Research program, commercial version available	Envelope	No	
EnergyPlus v1.2.1	Department of Energy (USA)	University College London, (UK)	Freeware	Energy	Yes	
ESP-r		ICA SAS	Freeware	Energy	Yes	
NPI	ICA SAS (Slovakia)	ICA SAS	Research program	Envelope	Yes	
IDA-ICE	EQUA Simulation AB, (Sweden)	Tallinn University of Technology, (Estonia)	Commercial program	Energy	Yes	The code is ope
HAMFitPlus	Concordia University, (Canada)	Concordia University,	Personal Research program (F. Tariku)	HAM whole building	Yes	Requires Matlal Simulink and Comsol
HAMLab (Heat Air & Moisture Laboratory)	Eindhoven University of Technology (Netherlands)	Eindhoven University of Technology	Freeware	Energy	Yes	Requires Matlat Simulink and Comsol
HAM-Tools	Chalmers University of Technology (Sweden)	Chalmers University of Technology, CETHIL	Freeware	HAM whole building	Yes	Requires Matlal Simulink
PowerDomus	LST at the Pontifical Catholic University of Parana - PUCPR, (Brazil)	PUOPR	Not ready for distribution	Envelope	No	
SPARK 2.01	LEPTAB, University of La Rochelle (France)	LEPTAB	Freeware	Energy	Yes	Possible couplin with EnergyPlu
TRNSYS 16.00	University of Wisconsin, Madison, (USA)	University of Gent (Belgium) PUCPR, CETHIL	Commercial program	Energy	Yes	Possible couplin with COMIS
TRNSYS ITT	Solar Energy Lab (University of Wisconsin), TU Dresden, (Germany)	TU Dresden, Germany	Research program	Energy	Yes	All features of TRNSYS availa
WUFI-Plus	Fraunhofer-Institut für Bauphysik, (Germany)	Fraunhofer-Institut für Bauphysik	Commercial program	Envelope	Yes	
Xam	Kinki University, Japan	Kinki University, Japan	Personal product by A. Iwamae	Energy	No	Personal use by author



























































