

Candidate Application Information sheet

Certification Date 2001-05-23

Application Name and Version

RIUSKA ver. 2.0

Software Company & Contact info

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Availability

Publicly available

Application Description

RIUSKA is a tool for performing energy simulations of building services technology

View

Architectural design to thermal load calculations and HVAC system design

IFC Implementation Type

RIUSKA: Read only

IFC Data Import

IFC object instances to be contained in the appropriate hierarchical organization (e.g., project->site->building->building story etc.). However, some flexibility in this requirement has been built into RIUSKA.

Minimum IFC-data content for the thermal simulation:

-IfcWall,

-IfcWindow

-IfcSpace,

IfcSlab(roofslab, floor)

IFC Data Export (if relevant)

RIUSKA: Space thermal properties back to an existing ifc-file.

Other

RIUSKA is based on the DOE simulation program, which is in use worldwide. We are collaborating with [The Lawrence Berkeley National Laboratory](http://www.lbl.gov) of the University of California to develop RIUSKA.

The simulation requires building envelope elements such as walls to be associated with thermal zones within the building.