

Candidate Application Information sheet

Certification Date 2001-05-23

Application Name and Version

COMcheck-EZ Version 2.3

Software Company & Contact info

Pacific Northwest National Laboratory

P.O.Box 999, MS K5-16, Richland, WA 99352

<http://www.pnl.gov>

e-mail contact: k_Gowri@pnl.gov

Availability

Royalty free public domain software

Application Description

COMcheck-EZ is an energy code compliance checking software for commercial buildings according to energy codes based on the ASHRAE 90.1-1989. Using COMcheck-EZ, designers can develop energy efficient building envelope constructions and determine the insulation requirements for walls, roof, windows, doors, etc. COMcheck-EZ provides a compliance summary and certificate that may be submitted as part of the building permit application.

View

Architectural design to thermal load calculations and HVAC system design

IFC Implementation Type

Read-only

IFC Data Import

Following is the list of Concept groups supported:

Units and measure

Spatial Model

Building Elements

Building Materials

Actors

Properties and Property sets

Geometry

Relationships

Notes: All the above concepts are implemented with the objective of extracting only the exterior envelope related data. Location, building floor area, area of exterior walls, windows, doors, floors and slabs are the primary IFC data imported by the COMcheck-EZ/IFC interface.

IFC Data Export (if relevant)

N.A.

Other

No specific mapping of component types between the IFC model and the COMcheck-EZ are implemented. Construction types for exterior envelope components are defaulted during import. It is assumed that the IFC objects have the properties for identifying components as exterior or interior is defined. The software can only be used with completed building designs with exterior wall, window, doors, etc. information.