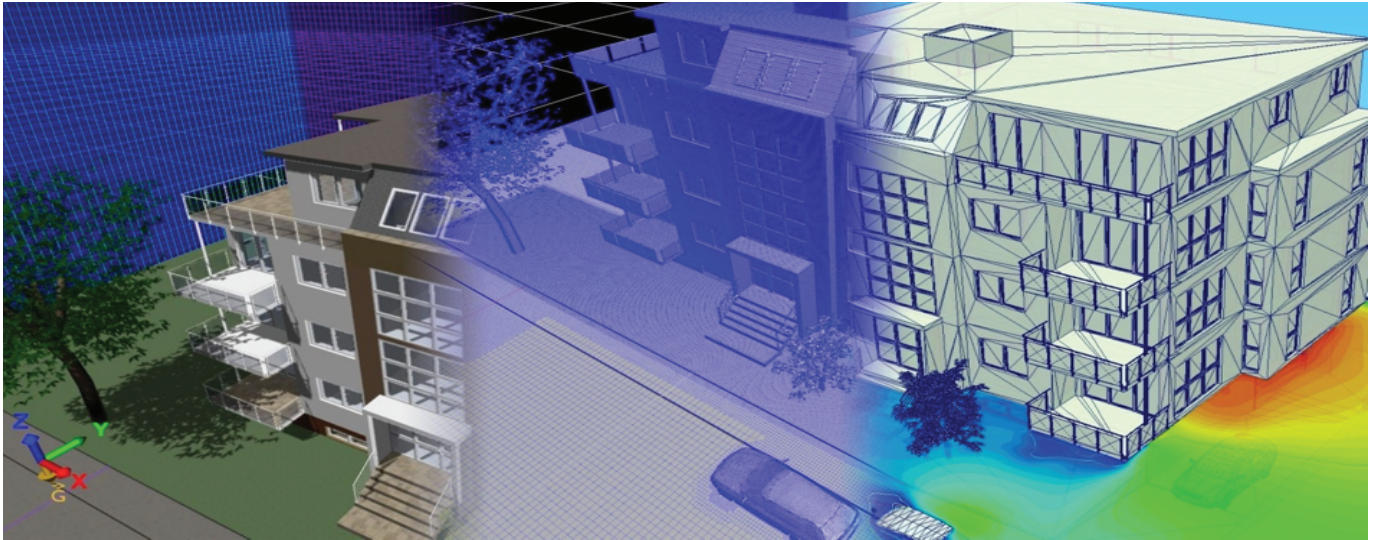


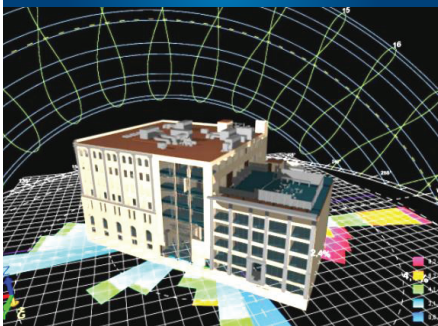
BIM HVACTool

BIM Centric Building Performance Simulation

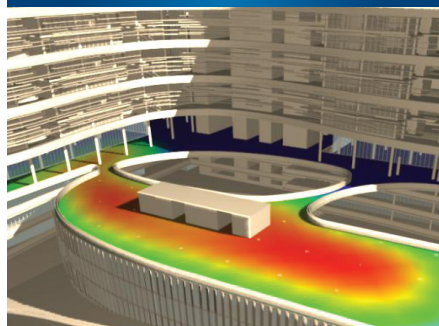
Integrated Simulation platform for Building Designers



Sun Path



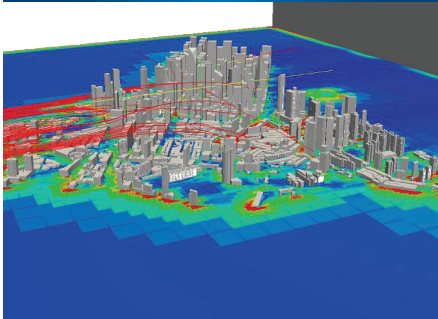
Solar



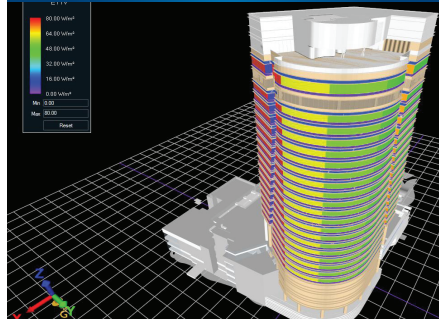
Shadow



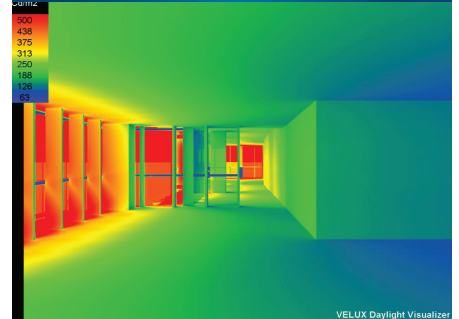
Computational Fluid Dynamics



Envelop Thermal Transfer Value



Daylight



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HB@119 Genting Lane, Singapore 349570
Tel +65 6749 4922 / Fax +65 6745 2898

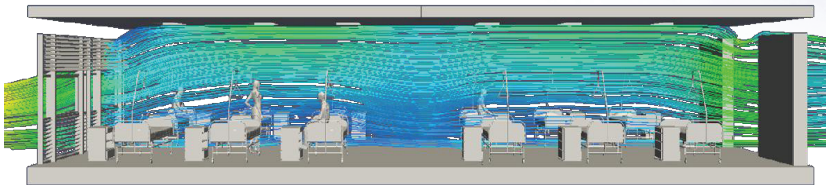
BIM HVACTool

Computational Fluid Dynamics

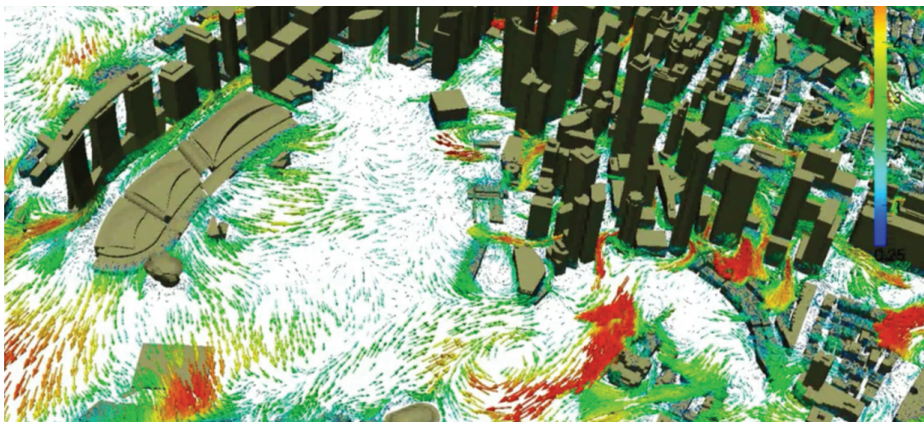
A Graphical Interface for Building Simulation

Input format supported:

- | | |
|---|---|
| <input checked="" type="checkbox"/> IFC | <input checked="" type="checkbox"/> Wavefront Obj |
| <input checked="" type="checkbox"/> gdXML | <input checked="" type="checkbox"/> Google SketchUp |
| <input checked="" type="checkbox"/> STL | <input checked="" type="checkbox"/> Autodesk DXF |
| <input checked="" type="checkbox"/> Rhino | |

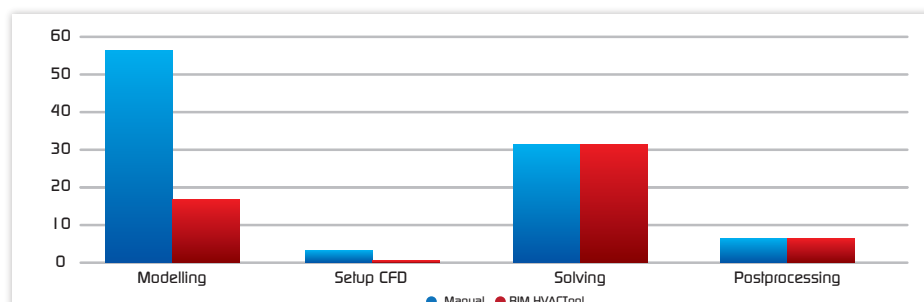


Urban Wind Simulation

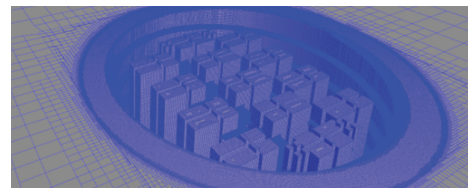
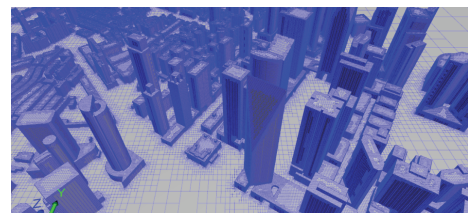


- Supports Open Source Flow Solver.
- Standalone, all-inclusive pre-processor GUI, specifically tailored for building simulation.
- Boundary conditions coupled to Thermal Simulation Modules like Energy Plus.
- Simple Mesh generation and control using SnappyHexMesh.
- Runs on all 64bit Windows Versions from Vista 64bit.
- No Linux system required.
- Interfaces to BIM Formats.
- One-Click Case Setup.

CFD Effort - Time is money



Advanced Mesh Generation



BIM HVACTool achieves extremely fast setup for CFD simulation:

- Technologically more sophisticated and accurate than other commercial solutions.
- Individualized solutions - we offer great scopes for custom development and CFD solutions literally tailored to your product portfolio.
- Cost savings - Approx. 40% reduction in CFD related costs recorded after deployment at the customer's site.

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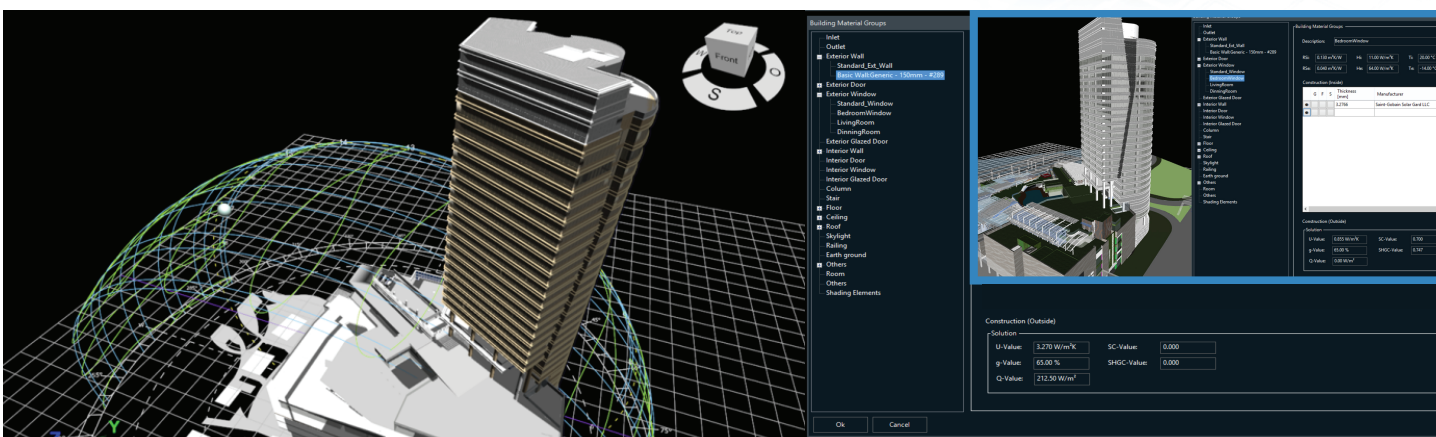
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BIM HVACTool

Envelope Thermal Transfer Value Analyzer

Innovative BIM Centric Tool for Facade Designer

- ✓ BCA Code Compliance (2008)
- ✓ Direct IFC Import
- ✓ Other Supported Formats include STL & Google SketchUp (STU)
- ✓ Fast Facade Identification & Material Characterization
- ✓ Drag & Drop Property Assignment
- ✓ Colour Coded Facade for Easy Identification & Verification
- ✓ Allow Designers to conduct Parametric Study
- ✓ Fully Automatic SC2 & CF Calculations
- ✓ Automatic Report Generation in BCA submission format
- ✓ High Productivity Gains
- ✓ Stand Alone Software



BIM Centric ETTV/RTTV Computation

PRODUCTIVITY REPORT

Task Description	SquireMech (Hrs)	BIM HVACtool (Hrs)	Variance (saving) %
Study of facade and material categorization	12	12	0.0
Facade Preparation	12	6	-50.0
ETTV Computation	20	1	-95.0
Report Documentation	8	1	-87.5
Review	16	2	-87.5
Total Man Effort (Hrs)	68	22	-67.6

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