



RhinoCFD



Powered by **PHOENICS**

RhinoCFD FLAIR brings flow and thermal analysis in the built environment into Rhino3D



CHAM Concentration Heat & Momentum Limited

☎ +44 (0)20 8947 7651 ✉ rhinocfd@cham.co.uk 🌐 www.rhinocfd.com

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Choose **RhinoCFD** for a fully integrated CAD to CFD user environment for Rhino3D

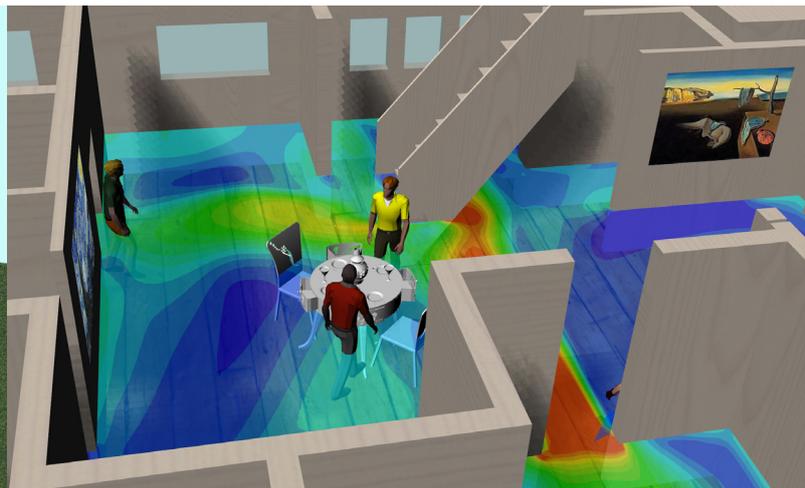
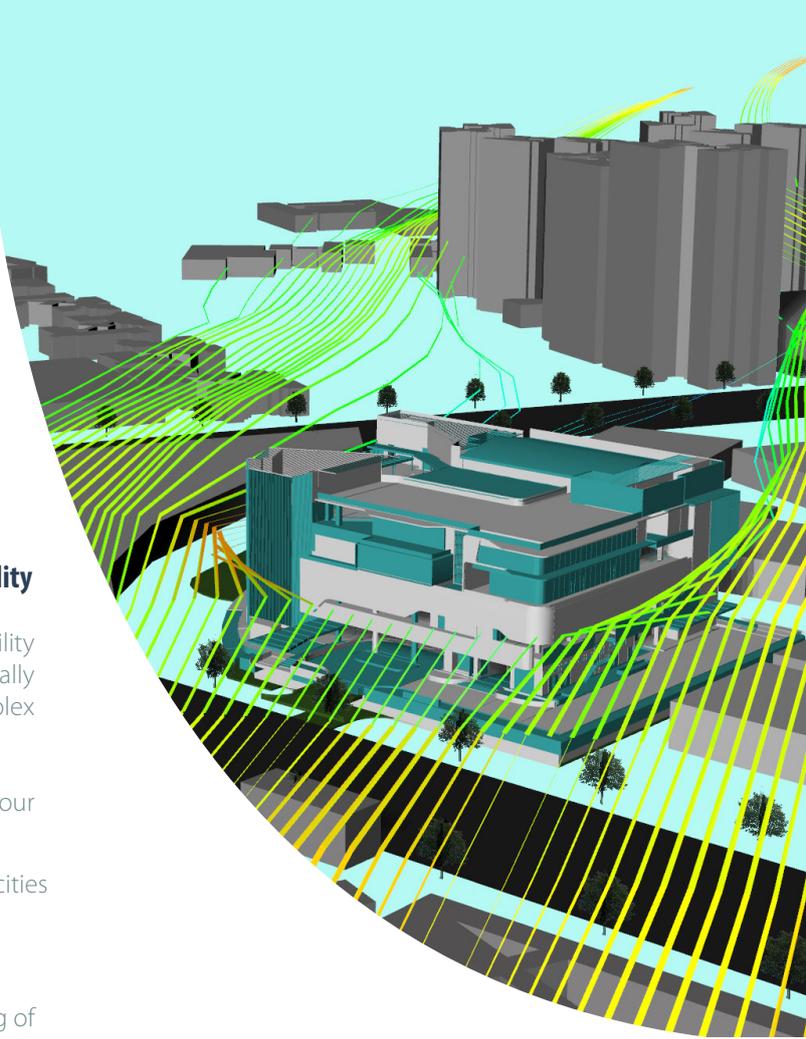
Integration of Two Worlds

RhinoCFD is a Computational Fluid Dynamics (CFD) plug-in for Rhino3D, powered by CHAM's world-renowned PHOENICS solver. It has been streamlined for easy use, allowing non-CFD users and experts alike to perform cutting-edge CFD simulations within the Rhino environment.

RhinoCFD FLAIR - Analyse the Built Environment for Sustainability

RhinoCFD FLAIR provides an airflow and thermal simulation facility specific to the built environment and HVAC community, specifically aimed at making CFD easy to set up and run for a host of complex problems:

- Wind - Analyse the effect of an atmospheric boundary layer on your design as well as the surrounding environment.
- Internal ventilation - Determine humidity, temperature and velocities with a host of comfort indices.
- Fires and smoke - Predict the efficiency of your safety solutions.
- Chemical release and dispersion of particles - Track the spreading of contaminants and smells in and around buildings.
- Radiation modelling - Easily account for radiation emitted and absorbed by multiple elements including sun illuminated regions.
- Vegetation - Capture the effect of turbulence and humidity posed by large areas of vegetation.



RhinoCFD incorporates many of the capabilities of its mainstream PHOENICS counterpart, including amongst others:

- Parallel processing.
- Sophisticated fast automatic meshing – Instant mesh computation capturing complex geometry using simple standard grids.
- Standard and advanced turbulence model options.
- User-defined formulae and variables can be simply introduced, and without recompiling.
- Time dependent simulations to effortlessly capture changing conditions