

**FINE
FIRE**

FIRE



Fire Fighting Design

4M

Integrated Workstation for Fire Fighting Installation Design

FineFIRE combines Design and Calculations in a Fully INtegrated Environment, making all the required calculations for any Fire Fighting Building Installation directly from drawings, and producing thus automatically all the study results: Calculation sheets, technical reports, bill of materials and costing, as well as all the final drawings (plan views, panel diagrams, details) fully updated.

FineFIRE consists of two Components, synergistically interacting between each other:

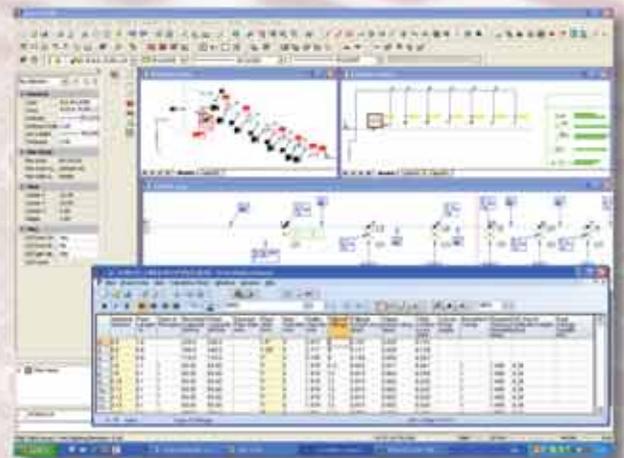
- The CAD Component, a powerful autonomous tool (based on IntelliCAD), including a flexible cad interface for designing the installation plus an expert system for producing the final drawings (plan views of the installation, vertical diagram, construction details etc).
- The Calculations Component, an advanced calculation environment, using a spreadsheet-like functionality and a rich methodological background. It provides all the calculation results of the Fire Fighting Installation network, in a perfectly presented and completely documented way.

In addition, FineFIRE embeds an intelligent wizard component, which defines visually the installation and then produces the vertical diagram along with the full calculations in just few seconds.

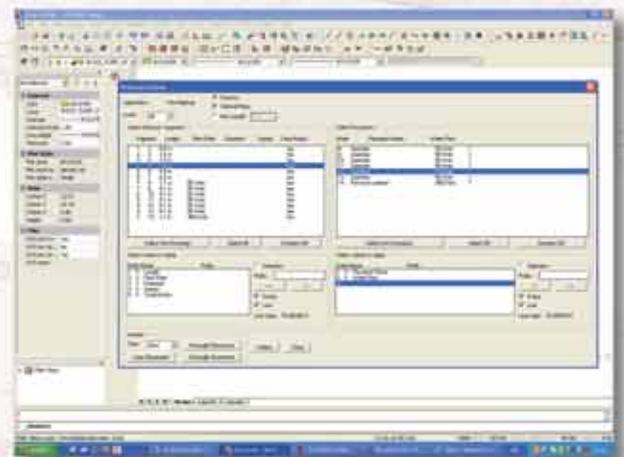
✓ Advanced CAD Interface

FineFIRE incorporates an advanced CAD interface for designing any building fire fighting installation in two simple steps:

- Location of the Installation components (sprinklers, fire-hoses, collectors etc) on the floor plan
- Piping design with simple or more sophisticated routing commands (i.e. "Pipes Parallel to Wall", "automatically connected to the receptors" etc) that speed up the process.



The view plan can be in any DWG or DXF file format or even taken from a scanner (bitmap file). Also the Architectural plan can be drawn from scratch through the AutoBLD (Architectural) commands of the package.



FINE FIRE

✓ Complete Calculations directly from the Drawings

The calculation Component of FineFIRE is being automatically updated from the installation drawings through the AutoNET group of commands. **The pipework networks of any type (tree systems, gridded, looped or any combination) are recognized and transferred into the calculation sheets.** The calculation environment specifies automatically the sprinkler spacing and locations according to the classification of hazard, the determination of the area covered per sprinkler, as well as the determination of the hydraulically most unfavorable and favorable operation areas. Further to the pipework network sizing, all the parts of the installation equipment are also calculated in detail (i.e. pump selection capable to supply the flow & pressure of most unfavorable and most favorable area, suction pipe calculation, NPSH calculation, tank size calculation etc.) and with close respect to analytical tables and curves.

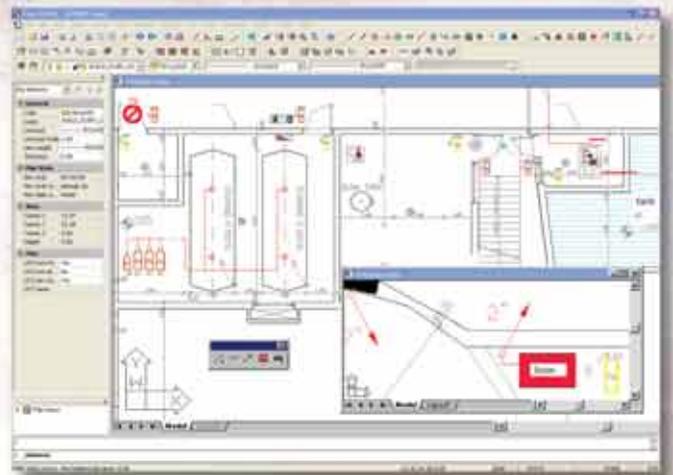
✓ Reliable Methodology

FineFIRE is based on a rich methodological background, in order to face any type of pipework network model and above all to fulfill precisely both, a) the latest NFPA13 standards for fire protection, and b) the European Norm EN12845.

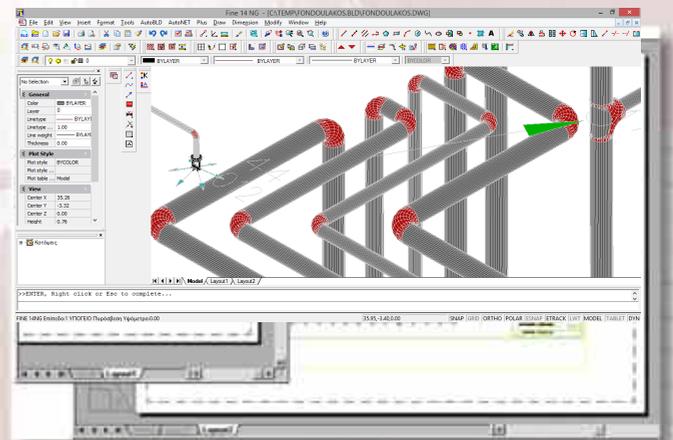
✓ Automatic production of all project drawings

All project drawing are automatically created in a final form:

Detailed View Plan Drawings: Fully updated according to the calculation results.



2D/3D Isometrics & Vertical Diagrams: They include all the information and can be edited by the user.



All the drawings can be edited and enriched, using the special utilities and the symbol libraries which are open to the user.

FineFIRE belongs to the FINE-MEP Suite, including also FineHVAC, FineSANI, FineELEC and FineLIFT. Moreover, FINE is only a part of the Integrated Building Design Suite FINE/IDEA/STRAD which advances the cooperation among the Architect, the Civil Engineer and the Mechanical/Electrical Engineer.

5 + 1 reasons for working with FineFIRE

- Global Design based on Object Oriented Programming (OOP) philosophy, Implemented with the most advanced tools (C++) and a long-range software engineering technology.
- Autonomous CAD (including IntelliCAD with its user license) providing full independency from other CAD environments, but keeping the most popular CAD standards and open dwg communication.
- Work on real 3D model of the project (building plus fire installation networks) from the beginning to the end. Unlimited freedom to create and modify, through parametric dialog boxes, due to the object structure of the whole information.
- Seamless Integration between the CAD Component and the Calculation Component, plus Interactive Communication between drawings and spreadsheets.
- Calculation environment based on a rich and reliable methodological background, adopting the most modern techniques and standards. Results completely documented and perfectly presented.
- 4M-Suite Supports the close cooperation between the Mechanical Engineer and the Architect, Civil Engineer and Electrical Engineer, over any stage of the Building Design process.

FUEL



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