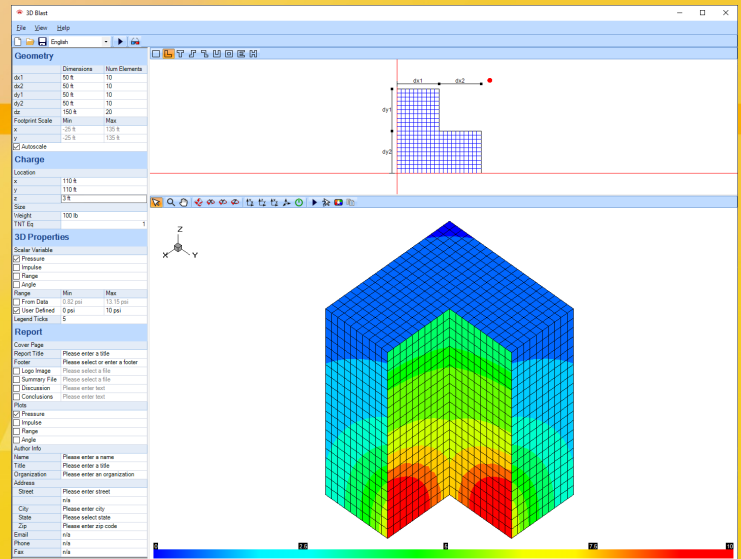
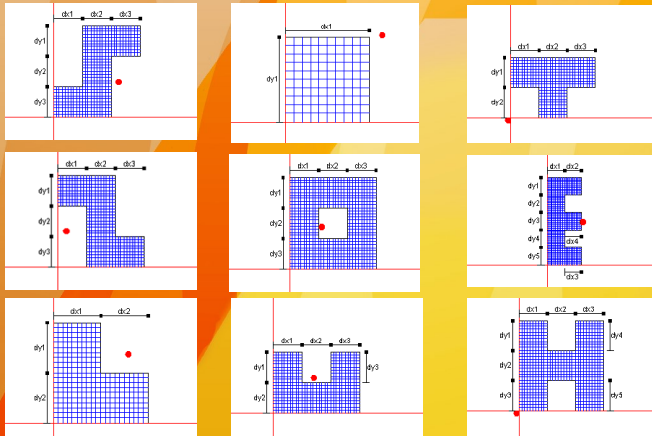


3D BLAST

3D Blast provides quick calculation and visualization of the loads on different building shapes for an open-air explosion of a bare hemispherical charge. Given the dimensions of a building and the size and location of an explosive device, the program estimates the pressure and impulse distribution on the building facade and maps the results to the 3D model. The resulting model may be rotated to a desired orientation, zoomed in specific areas, zoomed out for perspective, and probed for loads at a selected location.

The program currently contains nine building footprints for analysis:

- S-Shape
- Z-Shape
- L-Shape
- Box-Shape
- O-Shape
- U-Shape
- T-Shape
- E-Shape
- H-Shape



Specific features of 3D Blast include the ability to:

- **Quickly develop models by selecting a building shape and dragging values on the building footprint**
- **Display results on a full color 3D model of the structure**
- **Create a report detailing the technical parameters and results including pictures of the 3D-load engulfment models**
- **Quickly switch between English and Metric units**
- **Interact with graphs (zoom, scale)**
- **Copy and/or print all output**



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