

“EdgeWise Structure saved us 50% out of the box.”

- Keith McKinney, CEO, Piping Layout Consultants, Inc.

EdgeWise Structure

The Speed and Accuracy of EdgeWise—Now for Structural Steel & Concrete.

Modeling steel from scan data can be a pain. Current software is slow and often inaccurate, leading to missed deadlines and cost overruns. EdgeWise Structure™, the latest software from ClearEdge3D, changes all that by applying our advanced extraction algorithms and automated modeling technologies to accurately extract steel, concrete and wood structure faster than ever before.

Extract Structural Members to Correct Specifications Without Point Cloud Clipping or Cleaning

Whether you're modeling beams or angle iron, channels or round tubes, EdgeWise Structure algorithms have been fine-tuned to extract the correctly specified structural member in just a few clicks. The software's extensive library of steel members and our proprietary pattern matching algorithms mean a precise mathematical best-fit to the point cloud without having to tediously clean, clip or manipulate points.

Accurate Structural Extraction Even from Fireproofed Steel

Even if the structural members in your project have been fireproofed, EdgeWise is able to quickly and accurately model the bare member.

Our advanced modeling methodology allows you to efficiently extract and precisely position a member even with heavy fireproofing.

Full Integration with Revit and CAD Dramatically Speeds Your Field-to-Finish Workflow

The ClearEdge scientists worked closely with the Autodesk team to ensure full integration with Revit® software so that structural members extracted in EdgeWise are imported directly into Revit as structural family objects. This direct connection means that key intelligence, such as family type, spec, neutral axis and length, is transferred when the EdgeWise Structure model is brought into Revit. EdgeWise also exports to AutoCAD®, Microstation® and most other CAD software applications.

Extensive Catalog of Structural Components Creates an Accurate Intelligent Model

EdgeWise Structure's catalog library has thousands of structural components from several different popular standards with more to come. Once you choose a particular catalog, EdgeWise analyzes the point cloud, inserts the correctly specified structural member and logs it in our SmartSheet™ parts list.

