









CSiBridge is available in four levels:

Plus, Plus with Rating, Advanced, and Advanced with Rating

 User Interface	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
One Window, Many Views	✓	✓	✓	✓
 Modeling	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Templates	✓	✓	✓	✓
Interactive Database Editing	✓	✓	✓	✓
Groups	✓	✓	✓	✓
Selections	✓	✓	✓	✓
 Parametric Bridge Modeling	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Bridge Object Model	✓	✓	✓	✓
Bridge Wizard	✓	✓	✓	✓
Layout Lines	✓	✓	✓	✓
Substructure	✓	✓	✓	✓
<i>Abutments and Bents</i>	✓	✓	✓	✓
<i>Bearings and Restrainers</i>	✓	✓	✓	✓
Diaphragms	✓	✓	✓	✓
Post-Tensioning	✓	✓	✓	✓
Parametric Variations	✓	✓	✓	✓
Lanes	✓	✓	✓	✓
Superstructure Deck Section Templates	✓	✓	✓	✓
<i>Steel Girder</i>	✓	✓	✓	✓
<i>Concrete Box Girder</i>	✓	✓	✓	✓
<i>Precast I and U Girder</i>	✓	✓	✓	✓
<i>T Girders</i>	✓	✓	✓	✓
 Structural Components	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Joints	✓	✓	✓	✓
Frames	✓	✓	✓	✓
<i>Section Properties</i>	✓	✓	✓	✓
Tendons	✓	✓	✓	✓
Cables	✓	✓	✓	✓
Shells	✓	✓	✓	✓
Solids	✓	✓	✓	✓
Links	✓	✓	✓	✓
Hinges	✓	✓	✓	✓
Springs	✓	✓	✓	✓
Nonlinear Frame Hinge Element			✓	✓
Nonlinear Layered Shell Element			✓	✓
Nonlinear Link Elements: Gaps and Hooks	✓	✓	✓	✓
Nonlinear Link Elements: Plasticity, Dampers, Isolators			✓	✓
Cables - Nonlinear Catenary Behavior			✓	✓
 Loading	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating

Compare Levels | CSIBridge


Vehicle Loads and Classes	✓	✓	✓	✓
Load Patterns	✓	✓	✓	✓
Parametric Loading	✓	✓	✓	✓
<i>Point, Line and Area Loads</i>	✓	✓	✓	✓
<i>Temperature Loads</i>	✓	✓	✓	✓
 Analysis	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
SAPFire™ Analysis Engine	✓	✓	✓	✓
<i>Eigen Analysis</i>	✓	✓	✓	✓
<i>Ritz Analysis</i>	✓	✓	✓	✓
<i>Multiple 64-Bit Solvers</i>	✓	✓	✓	✓
Moving Load	✓	✓	✓	✓
<i>Influence Based</i>	✓	✓	✓	✓
<i>Multi-Step</i>	✓	✓	✓	✓
Buckling			✓	✓
P-Delta	✓	✓	✓	✓
Pushover			✓	✓
Dynamic	✓	✓	✓	✓
<i>Modal</i>	✓	✓	✓	✓
<i>Response Spectrum</i>	✓	✓	✓	✓
Staged Construction			✓	✓
<i>Single Stage from Initial State</i>	✓	✓	✓	✓
<i>Change Sections & Assignments</i>	✓	✓	✓	✓
<i>Multiple Stages</i>			✓	✓
<i>Time Dependent Stiffness</i>			✓	✓
<i>Creep and Shrinkage</i>			✓	✓
Steady State	✓	✓	✓	✓
Target Force	✓	✓	✓	✓
Nonlinear Analysis			✓	✓
<i>Nonlinear Buckling</i>			✓	✓
<i>Wilson FNA (Fast Nonlinear Analysis) Method</i>			✓	✓
<i>Direct Integration Time History</i>			✓	✓
<i>Material Nonlinearity - Frame, Hinges and Links</i>			✓	✓
<i>Geometric Nonlinearity - Large Displacement</i>			✓	✓
Load Combinations	✓	✓	✓	✓
 Design	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Steel Frame	✓	✓	✓	✓
Concrete Frame	✓	✓	✓	✓
Live Load Distribution	✓	✓	✓	✓
Automated Seismic Design	✓	✓	✓	✓
<i>Category A, B, C</i>	✓	✓	✓	✓
<i>Category D</i>			✓	✓
Superstructure Design	✓	✓	✓	✓
<i>Composite steel girder (AASHTO LRFD 2007 with 2008 interims)</i>	✓	✓	✓	✓
<i>Precast I and U girder (AASHTO LRFD 2007, CSA-S6-06)</i>	✓	✓	✓	✓
<i>Concrete box girder (AASHTO LRFD 2007, CSA-S6-06)</i>	✓	✓	✓	✓
 Load Rating	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Load Rating		✓		✓

Compare Levels | CSiBridge

Concrete box girder bridges (AASHTO LRFR 2005)	✓	✓
Precast I and U girder bridges (AASHTO LRFR 2005)	✓	✓
Steel I-Section with Concrete Slab (AASHTO MBE 2008/2010)	✓	✓

 Output and Display	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Deformed Geometry	✓	✓	✓	✓
Force Diagrams	✓	✓	✓	✓
Bridge Reponses	✓	✓	✓	✓
Influence Surfaces	✓	✓	✓	✓
Animations	✓	✓	✓	✓
Plot Functions	✓	✓	✓	✓

 Reporting	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Report Generation	✓	✓	✓	✓

 Tools	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Load Optimizer	✓	✓	✓	✓
Section Designer	✓	✓	✓	✓
Application Programming Interface	✓	✓	✓	✓

 Import and Export	Plus	Plus w/ Rating	Advanced	Advanced w/ Rating
Supported Formats	✓	✓	✓	✓