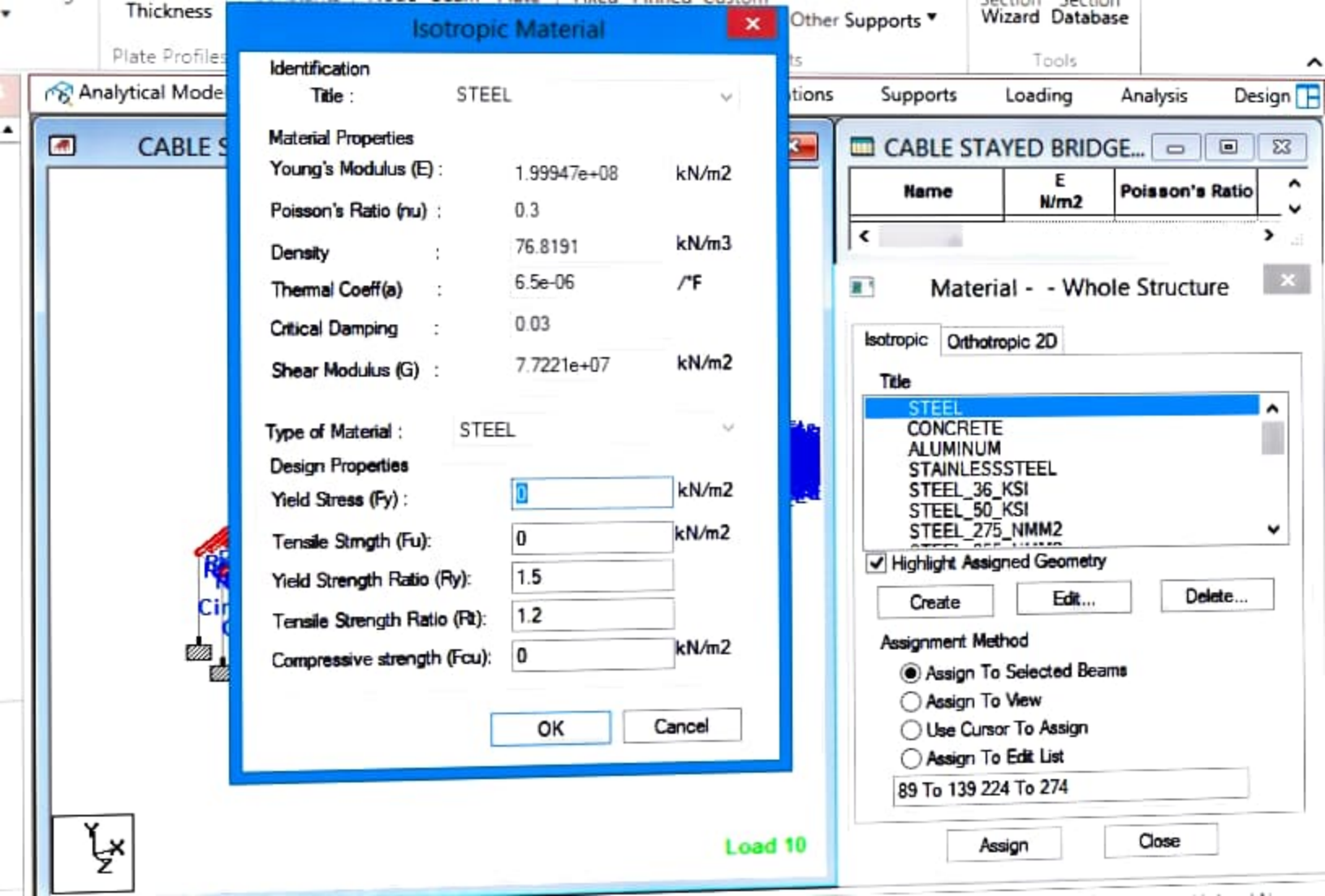
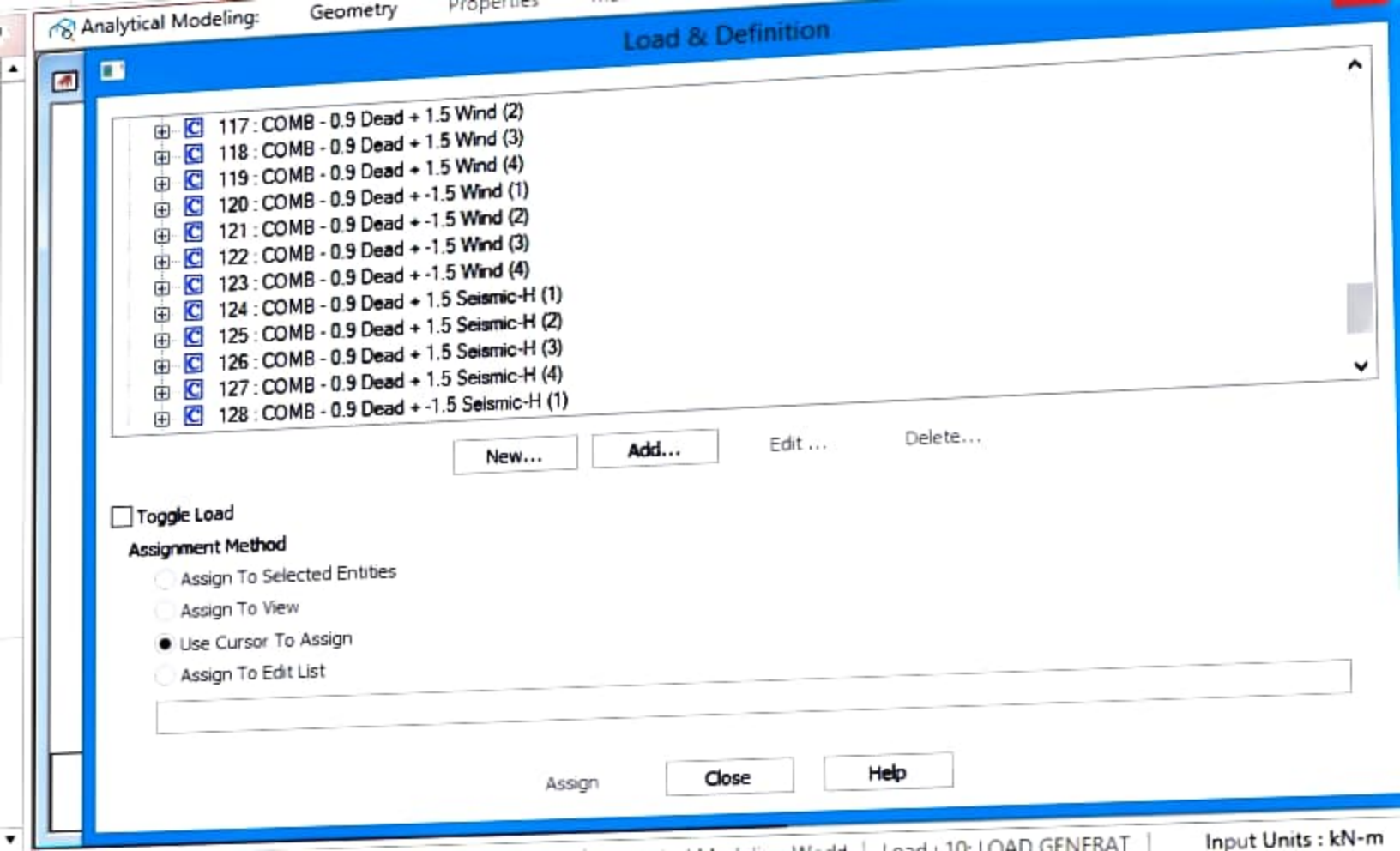
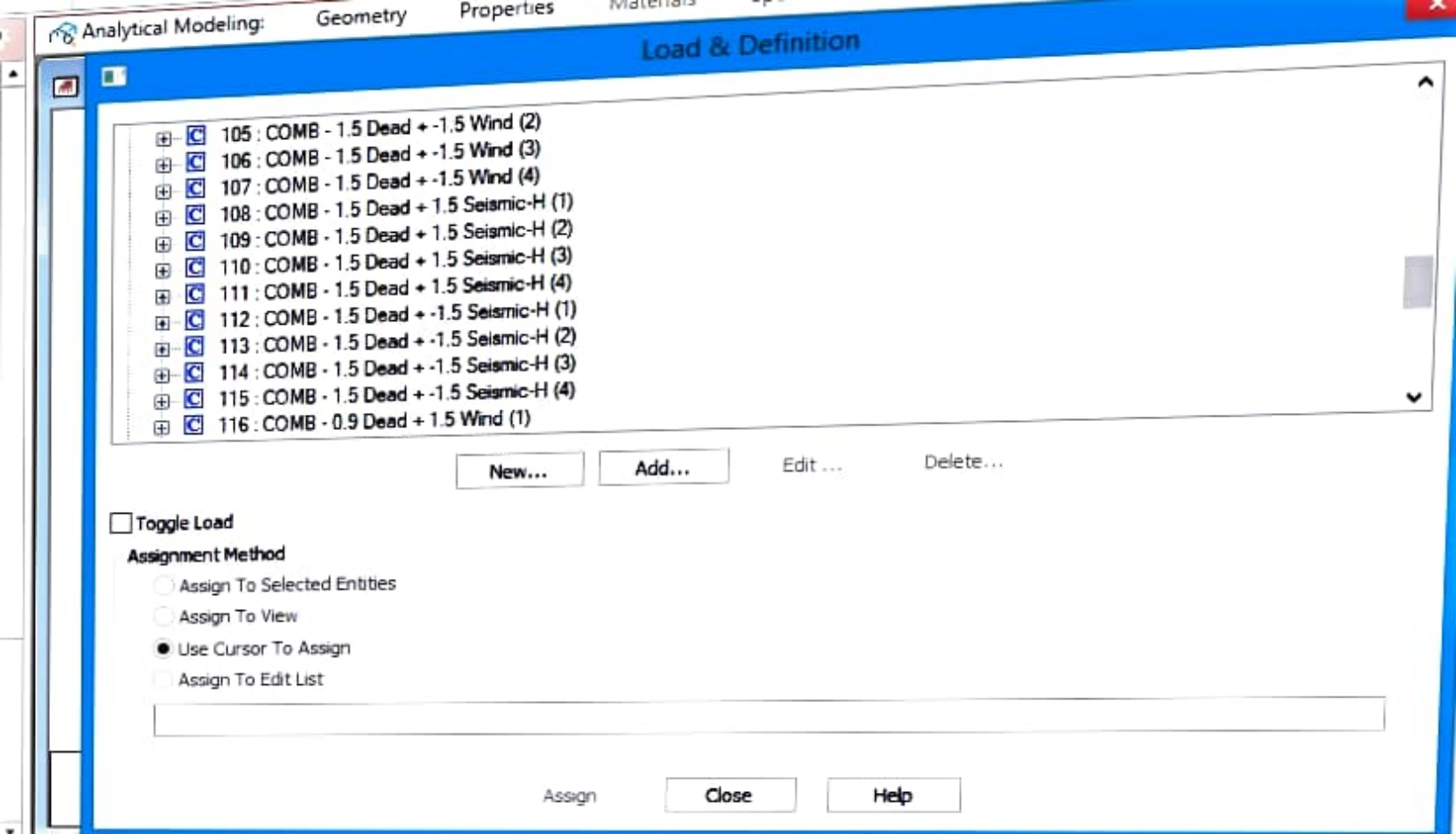
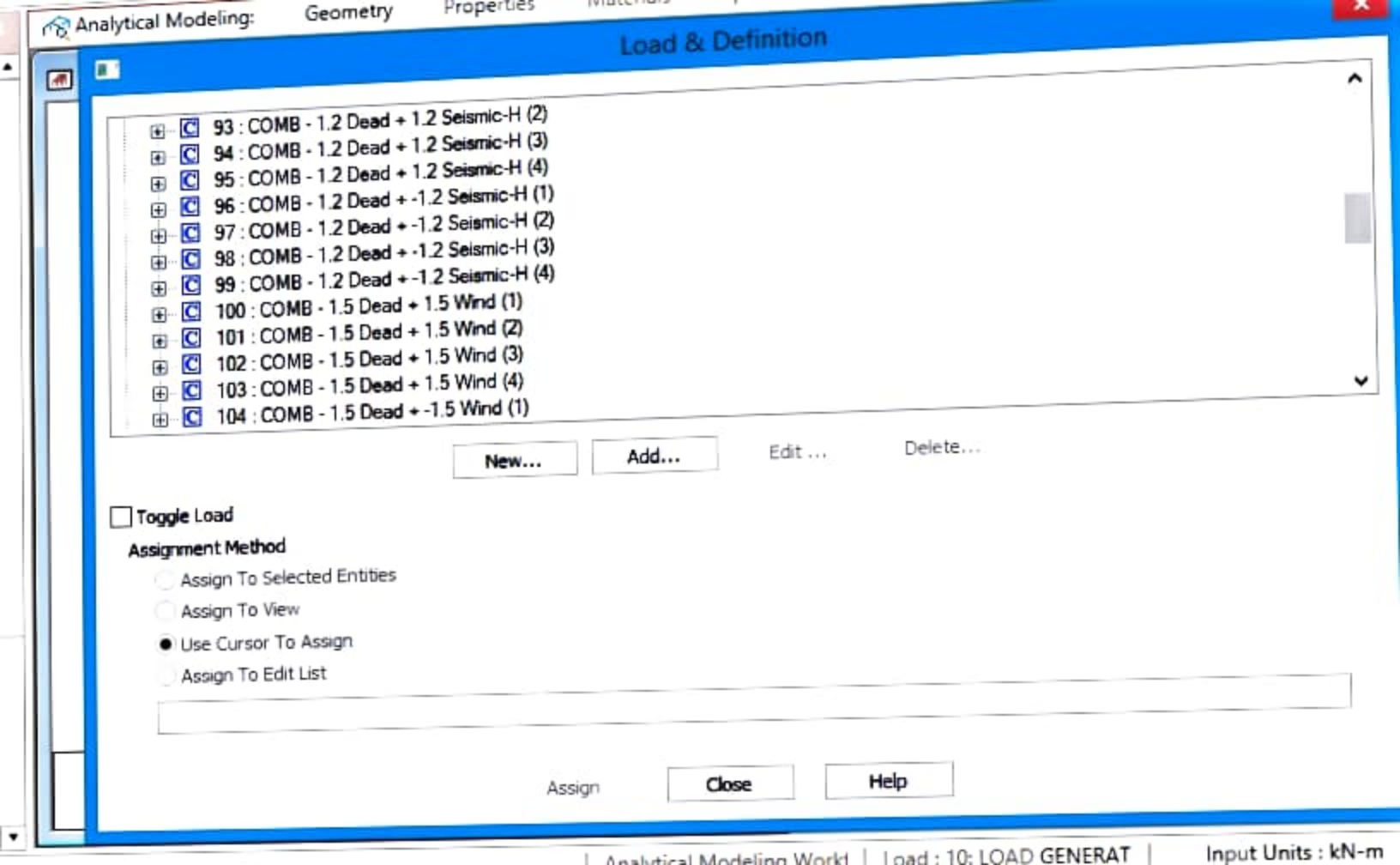
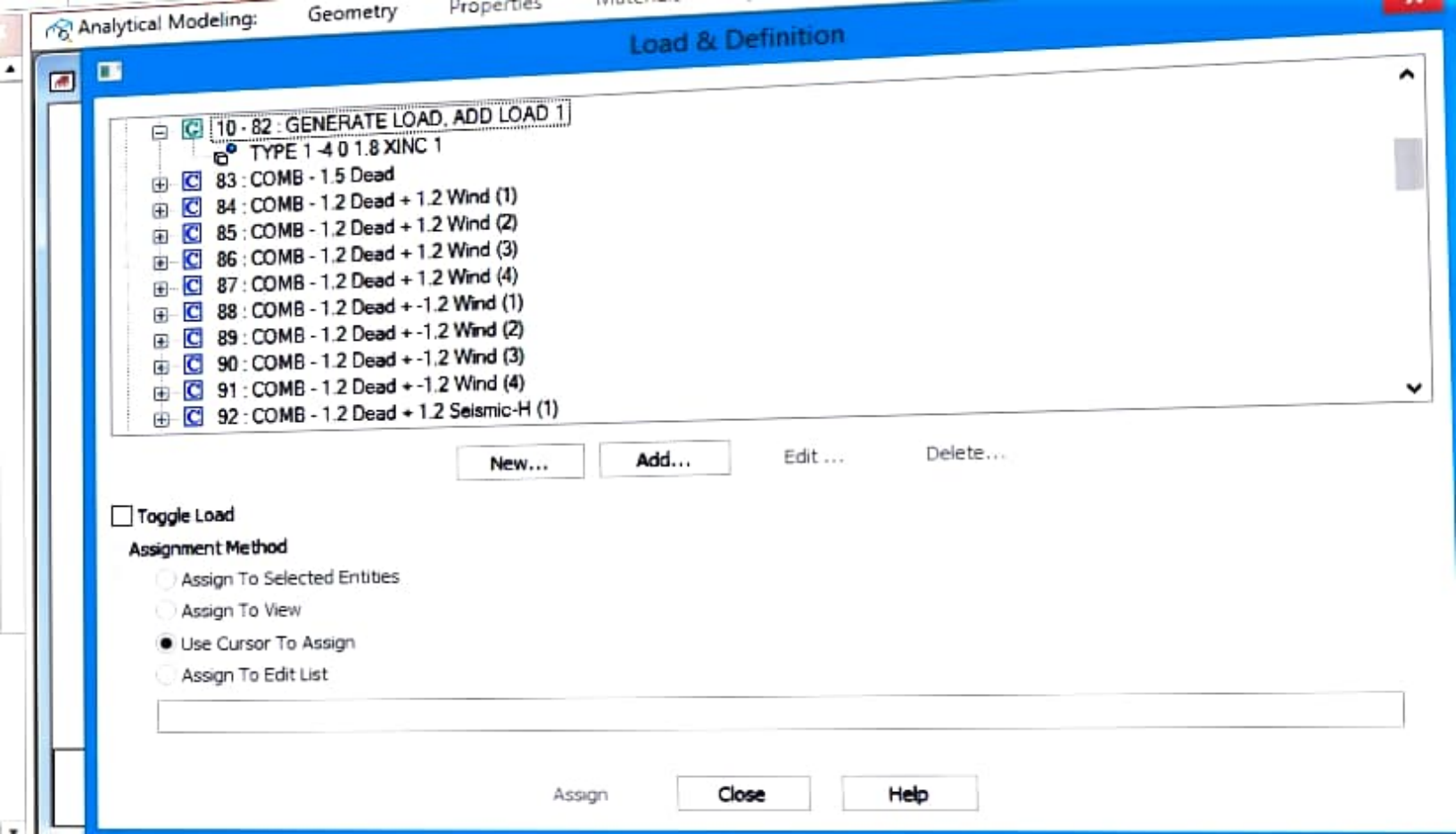
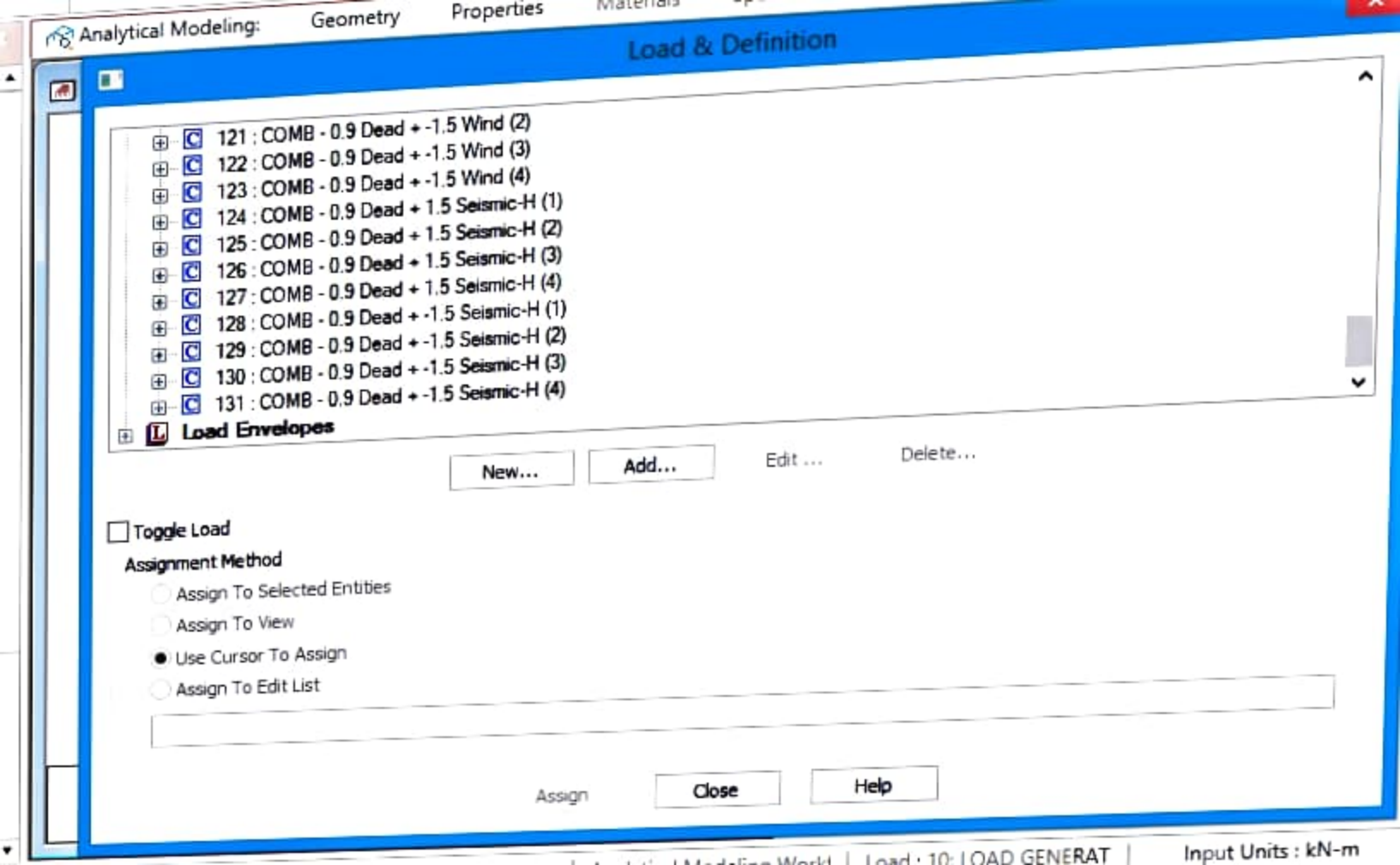

Thickness
Plate Profiles
Other Supports
Section Wizard
Section Database
Tools
Analytical Mode
Supports
Loading
Analysis
Design
CABLE S
Isotropic Material
Identification
Title : STEEL
Material Properties
Young's Modulus (E) : 1.99947e+08 kN/m2
Poisson's Ratio (nu) : 0.3
Density : 76.8191 kN/m3
Thermal Coeff(a) : 6.5e-06 /°F
Critical Damping : 0.03
Shear Modulus (G) : 7.7221e+07 kN/m2
Type of Material : STEEL
Design Properties
Yield Stress (Fy) : 0 kN/m2
Tensile Strngth (Fu): 0 kN/m2
Yield Strength Ratio (Ry): 1.5
Tensile Strength Ratio (Rt): 1.2
Compressive strength (Fcu): 0 kN/m2
OK
Cancel
CABLE STAYED BRIDGE...
Name
E N/m2
Poisson's Ratio
Material - - Whole Structure
Isotropic
Orthotropic 2D
Title
STEEL
CONCRETE
ALUMINUM
STAINLESSSTEEL
STEEL_36_KSI
STEEL_50_KSI
STEEL_275_NMM2
Highlight Assigned Geometry
Create
Edit...
Delete...
Assignment Method
Assign To Selected Beams
Assign To View
Use Cursor To Assign
Assign To Edit List
89 To 139 224 To 274
Assign
Close
Load 10

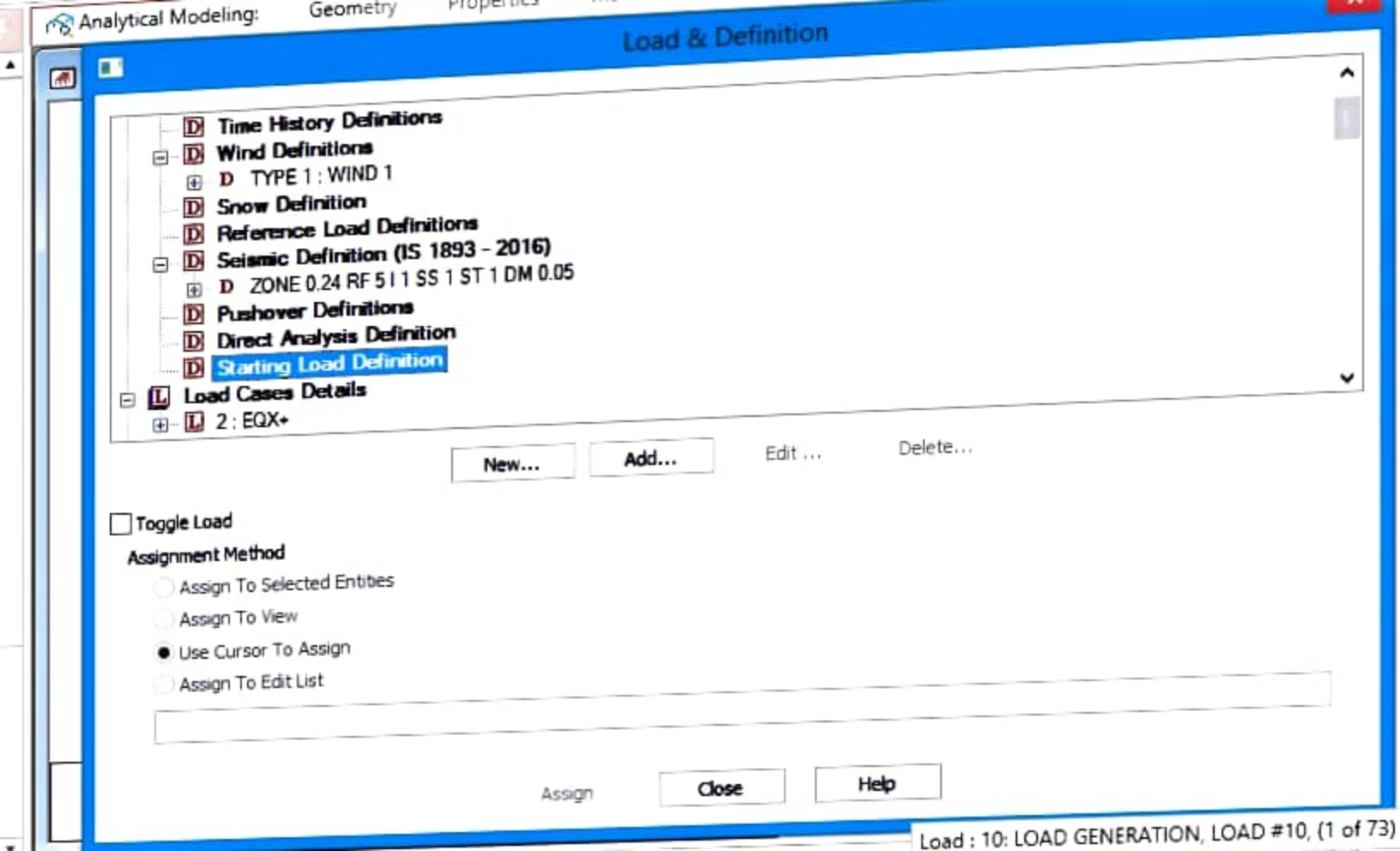

Analytical Modeling:
Geometry
Properties
Load & Definition
117 : COMB - 0.9 Dead + 1.5 Wind (2)
118 : COMB - 0.9 Dead + 1.5 Wind (3)
119 : COMB - 0.9 Dead + 1.5 Wind (4)
120 : COMB - 0.9 Dead + -1.5 Wind (1)
121 : COMB - 0.9 Dead + -1.5 Wind (2)
122 : COMB - 0.9 Dead + -1.5 Wind (3)
123 : COMB - 0.9 Dead + -1.5 Wind (4)
124 : COMB - 0.9 Dead + 1.5 Seismic-H (1)
125 : COMB - 0.9 Dead + 1.5 Seismic-H (2)
126 : COMB - 0.9 Dead + 1.5 Seismic-H (3)
127 : COMB - 0.9 Dead + 1.5 Seismic-H (4)
128 : COMB - 0.9 Dead + -1.5 Seismic-H (1)
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help
Input Units : kN-m

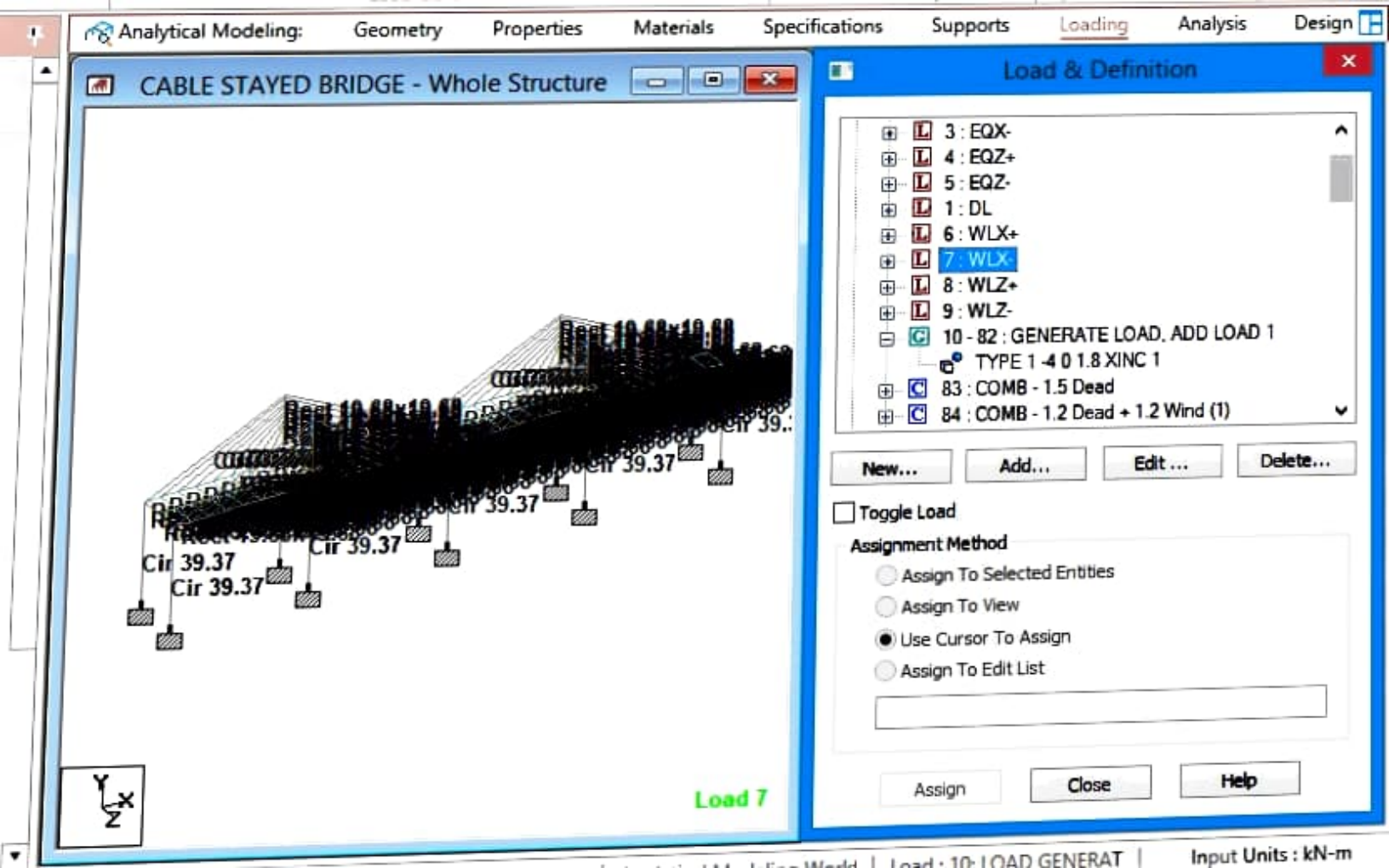

Analytical Modeling:
Geometry
Properties
Load & Definition
105 : COMB - 1.5 Dead + -1.5 Wind (2)
106 : COMB - 1.5 Dead + -1.5 Wind (3)
107 : COMB - 1.5 Dead + -1.5 Wind (4)
108 : COMB - 1.5 Dead + 1.5 Seismic-H (1)
109 : COMB - 1.5 Dead + 1.5 Seismic-H (2)
110 : COMB - 1.5 Dead + 1.5 Seismic-H (3)
111 : COMB - 1.5 Dead + 1.5 Seismic-H (4)
112 : COMB - 1.5 Dead + -1.5 Seismic-H (1)
113 : COMB - 1.5 Dead + -1.5 Seismic-H (2)
114 : COMB - 1.5 Dead + -1.5 Seismic-H (3)
115 : COMB - 1.5 Dead + -1.5 Seismic-H (4)
116 : COMB - 0.9 Dead + 1.5 Wind (1)
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help

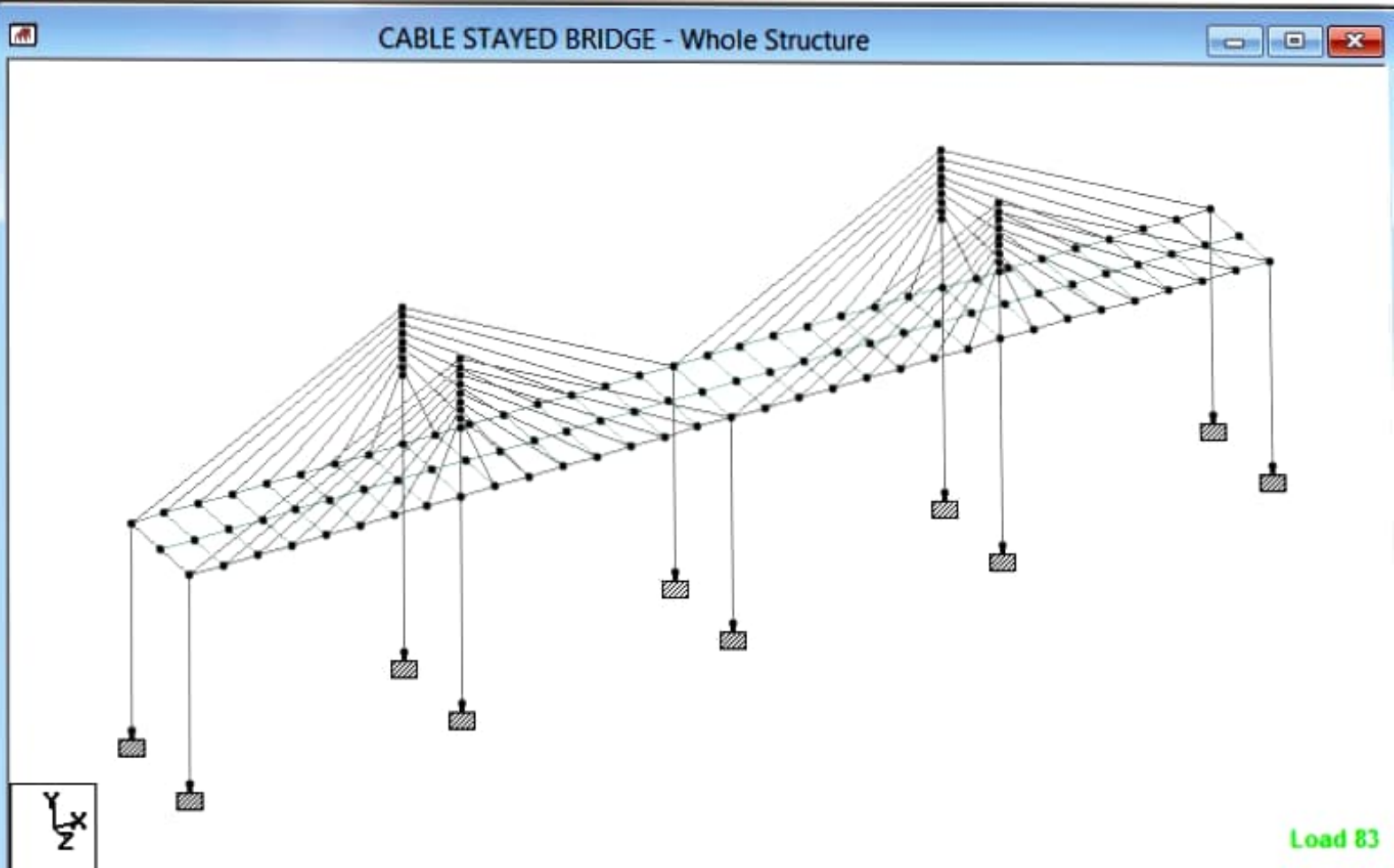

Analytical Modeling:
Geometry
Properties
Load & Definition
93 : COMB - 1.2 Dead + 1.2 Seismic-H (2)
94 : COMB - 1.2 Dead + 1.2 Seismic-H (3)
95 : COMB - 1.2 Dead + 1.2 Seismic-H (4)
96 : COMB - 1.2 Dead + -1.2 Seismic-H (1)
97 : COMB - 1.2 Dead + -1.2 Seismic-H (2)
98 : COMB - 1.2 Dead + -1.2 Seismic-H (3)
99 : COMB - 1.2 Dead + -1.2 Seismic-H (4)
100 : COMB - 1.5 Dead + 1.5 Wind (1)
101 : COMB - 1.5 Dead + 1.5 Wind (2)
102 : COMB - 1.5 Dead + 1.5 Wind (3)
103 : COMB - 1.5 Dead + 1.5 Wind (4)
104 : COMB - 1.5 Dead + -1.5 Wind (1)
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help
Analytical Modeling Workl
Load : 10: LOAD GENERAT
Input Units : kN-m

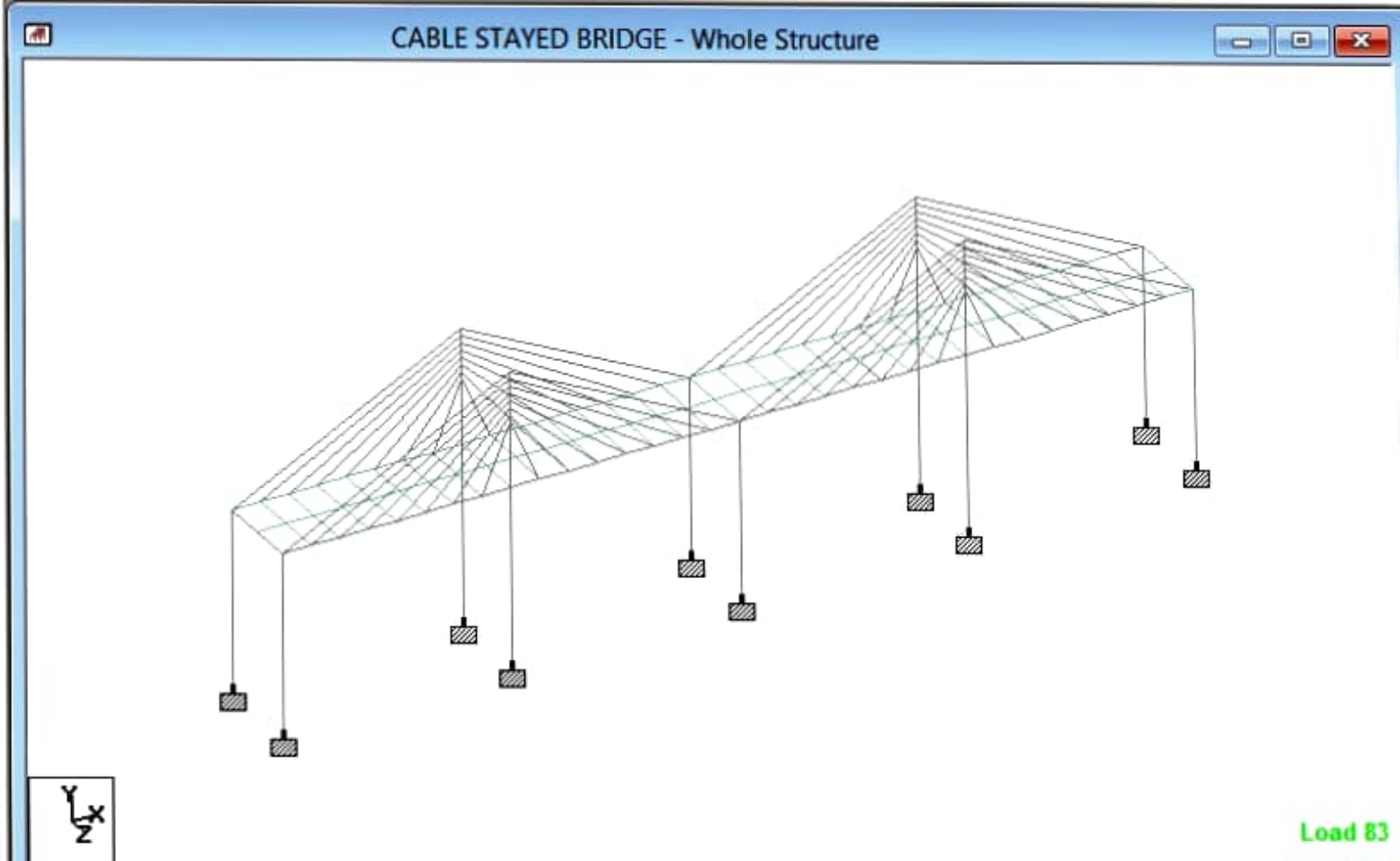

Analytical Modeling:
Geometry
Properties
Load & Definition
10 - 82 : GENERATE LOAD, ADD LOAD 1
TYPE 1 -4 0 1.8 XINC 1
83 : COMB - 1.5 Dead
84 : COMB - 1.2 Dead + 1.2 Wind (1)
85 : COMB - 1.2 Dead + 1.2 Wind (2)
86 : COMB - 1.2 Dead + 1.2 Wind (3)
87 : COMB - 1.2 Dead + 1.2 Wind (4)
88 : COMB - 1.2 Dead + -1.2 Wind (1)
89 : COMB - 1.2 Dead + -1.2 Wind (2)
90 : COMB - 1.2 Dead + -1.2 Wind (3)
91 : COMB - 1.2 Dead + -1.2 Wind (4)
92 : COMB - 1.2 Dead + 1.2 Seismic-H (1)
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help


Analytical Modeling:
Geometry
Properties
Load & Definition
121 : COMB - 0.9 Dead + -1.5 Wind (2)
122 : COMB - 0.9 Dead + -1.5 Wind (3)
123 : COMB - 0.9 Dead + -1.5 Wind (4)
124 : COMB - 0.9 Dead + 1.5 Seismic-H (1)
125 : COMB - 0.9 Dead + 1.5 Seismic-H (2)
126 : COMB - 0.9 Dead + 1.5 Seismic-H (3)
127 : COMB - 0.9 Dead + 1.5 Seismic-H (4)
128 : COMB - 0.9 Dead + -1.5 Seismic-H (1)
129 : COMB - 0.9 Dead + -1.5 Seismic-H (2)
130 : COMB - 0.9 Dead + -1.5 Seismic-H (3)
131 : COMB - 0.9 Dead + -1.5 Seismic-H (4)
Load Envelopes
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help
Input Units : kN-m


Analytical Modeling:
Geometry
Properties
Load & Definition
Time History Definitions
Wind Definitions
TYPE 1 : WIND 1
Snow Definition
Reference Load Definitions
Seismic Definition (IS 1893 - 2016)
ZONE 0.24 RF 5 I 1 SS 1 ST 1 DM 0.05
Pushover Definitions
Direct Analysis Definition
Starting Load Definition
Load Cases Details
2 : EQX+
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help
Load : 10: LOAD GENERATION, LOAD #10, (1 of 73)


Analytical Modeling:
Geometry
Properties
Materials
Specifications
Supports
Loading
Analysis
Design
CABLE STAYED BRIDGE - Whole Structure
Cir 39.37
Cir 39.37
Cir 39.37
Cir 39.37
Load 7
Load & Definition
3 : EQX-
4 : EQZ+
5 : EQZ-
1 : DL
6 : WLX+
7 : WLX-
8 : WLZ+
9 : WLZ-
10 - 82 : GENERATE LOAD, ADD LOAD 1
TYPE 1 -4 0 1.8 XINC 1
83 : COMB - 1.5 Dead
84 : COMB - 1.2 Dead + 1.2 Wind (1)
New...
Add...
Edit ...
Delete...
Toggle Load
Assignment Method
Assign To Selected Entities
Assign To View
Use Cursor To Assign
Assign To Edit List
Assign
Close
Help
Input Units : kN-m


CABLE STAYED BRIDGE - Whole Structure
Y
X
Z
Load 83


CABLE STAYED BRIDGE - Whole Structure
Y
X
Z
Load 83

AutoRecovery Off | CABLE STAYED BRIDGE.std - STAAD.Pro CONNECT Edition

File | Geometry | View | Select | Specification | Loading | Analysis and Design | Utilities

Search

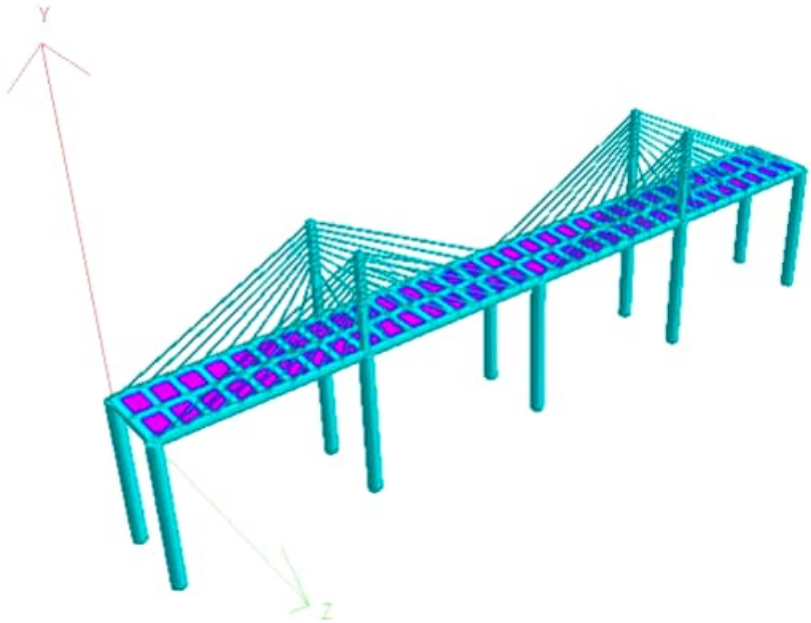
Label Settings | Zoom Window | Display Whole Structure | Open View | New View | Selected Objects | View Management | Display Options | Set Structure Colors | Structural Tooltip Options | Windows

Labels | Tools | Views | Options

Workflow

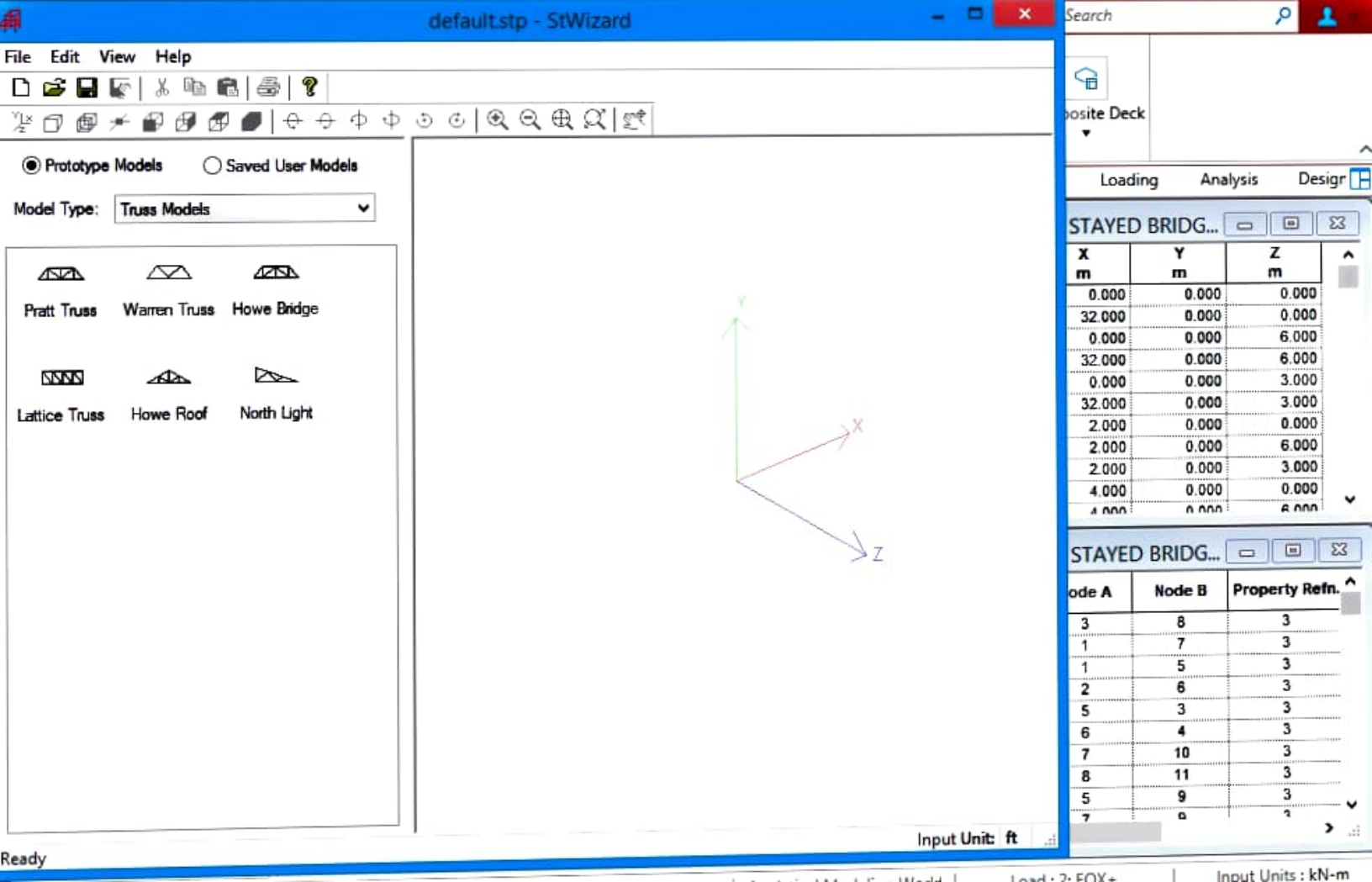
- Analytical Modeling
- Physical Modeling
- Building Planner
- Piping
- Postprocessing
- Foundation Design
- Steel AutoDrafter
- Chinese Steel Design
- Connection Design
- Advanced Concrete D...

Analytical Modeling: | Geometry | Properties | Materials | Specifications | Supports | Loading | Analysis | Design



For Help, press F1 | Analytical Modeling Work | Load : 1: DL | Input Units : kN-m

12:24 PM
Wednesday
11/12/2025


default.stp - StWizard
File Edit View Help
Prototype Models
Saved User Models
Model Type:
Truss Models
Pratt Truss
Warren Truss
Howe Bridge
Lattice Truss
Howe Roof
North Light
Input Unit: ft
Ready
Search
posite Deck
Loading
Analysis
Design
STAYED BRIDG...
X m
Y m
Z m
0.000 0.000 0.000
32.000 0.000 0.000
0.000 0.000 6.000
32.000 0.000 6.000
0.000 0.000 3.000
32.000 0.000 3.000
2.000 0.000 0.000
2.000 0.000 6.000
2.000 0.000 3.000
4.000 0.000 0.000
STAYED BRIDG...
ode A
Node B
Property Refn.
3 8 3
1 7 3
1 5 3
2 6 3
5 3 3
6 4 3
7 10 3
8 11 3
5 9 3
Input Units : kN-m

AutoRecovery Off | CABLE STAYED BRIDGE.std - STAAD.Pro CONNECT Edition

File | Geometry | View | Select | Specification | Loading | Analysis and Design | Utilities | Search

Label Settings | Zoom Window | Display Whole Structure | Open View | New View | Selected Objects | View Management | Display Options | Set Structure Colors | Structural Tooltip Options | Windows

Labels | Tools | Views | Options

Workflow

- Analytical Modeling
- Physical Modeling
- Building Planner
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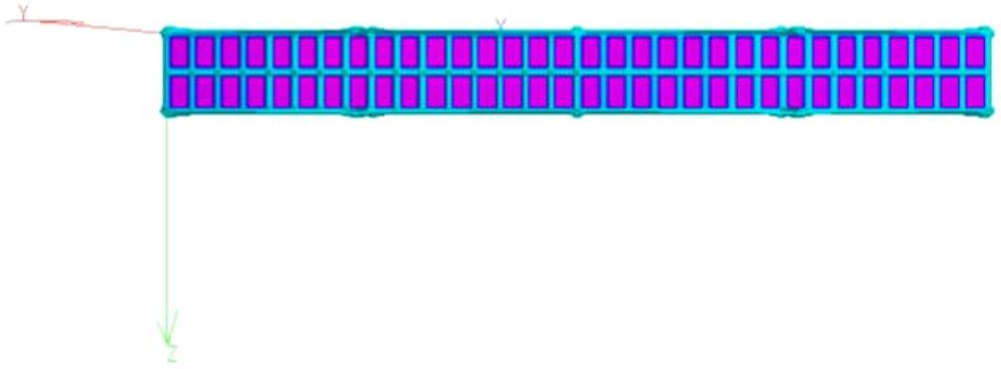
- Steel AutoDrafter
- Chinese Steel Design
- Connection Design
- Advanced Concrete D...

Analytical Modeling: | Geometry | Properties | Materials | Specifications | Supports | Loading | Analysis | Design



For Help, press F1 | Analytical Modeling Work! | Load : 1: DL | Input Units : kN-m

12:23 PM
Wednesday
11/12/2025