COLD FORMED STEEL DESIGN

The latest revision of SAFI GSE STEEL enables structural steel designers to design cold-formed steel members based on the North American specification for the design of cold-formed steel structural members covering Canada (CSA S136-16), the United States and Mexico (AISI S100-16).

Cold-formed steel sections can be mixed with regular steel shapes in a model allowing to design hybrid structures.
SUPPORTED SECTION SHAPES

Effective section properties are calculated using the effective width of elements method for the following section shapes:
• 60° and 90° angles
• 90° angles with lips
• Channel with or without lips
• Z sections with or without lips
• U (Hat) sections

PERFORMED DESIGN CHECKS

The following parts of the standard are covered:
• Tension resistance (Chapter D)
• Compression resistance including distortional buckling (Chapter E)
• Bending resistance including distortional buckling (Chapter F)
• Shear resistance (Chapter G)
• Combined forces (Chapter H)
• Web yielding and web crippling at supports (Chapter G)