Dimensioning aid – truss compression
Planned construction

User input

Design Criteria:

Design code reference	NDS-2018
Design method used	ASD
Load assumptions	dead loads, live loads

Member Size and Geometry:

b, d :width and depth of the member (inches)

Material Properties:

F_c^* :Reference compression parallel to grain design value (psi)
E :Modulus of elasticity (psi)
E_{min} :Minimum modulus of elasticity (psi)

Adjustment Factors:

C_F :Size factor for the member
C_M :Moisture content factor
C_t :Temperature factor
C_i :Incising factor for treated wood members
C_T :Buckling stiffness factor
C_D :Load duration factor

Stability and Buckling Considerations:

L :Unbraced length of the member (feet)
K :Effective length factor for buckling
l_e :Effective length for buckling (the actual length adjusted by the effective length factor K)

Service Conditions:

Dry, wet, etc..

Load Information:

P: Axial load on the member (lbs or kips).