ALUMINIUM

Error code	Error message
E1	ERROR: The member length for the check is zero or negative! Please check the Field input of the Aluminium member data! The Field input is ignored until the input is corrected!

Warning code	Warning message
W1	Warning: No initial shape was defined for this cross-section! Without initial shape no effective cross-section properties can be obtained. Gross cross-section properties are used instead, and the cross-section is checked as elastic Class 3.
W2	Warning: The shear area according EN 1999-1-1 art. 6.2.6 could not be determined due to not defined initial shape. Consequently, the shear areas Ay and Az of the gross cross-section properties (FEM analysis) are used instead.
W3	Warning: Torsion is not taken into account for this cross-section!
W4	Warning: Due to extreme shear the bending resistance reduced for shear according to EN 1999-1-1 article 6.2.10 cannot be determined. Therefore, the elastic yield criterion according to EN 1999-1-1 article 6.2.1(5) is verified.
W5	Warning: Sheeting is not supported for this type of cross-section.
W6	Warning: Slenderness x,xx is larger than the limit value of x,xx.
W7	Warning: No point of contra flexure has been found within the buckling span for determining x,s according to the buckling load case or x,s is longer than the buckling length l,c. Half of the buckling length is used instead.
W8	Warning: The chosen calculation method for x,s according to EN 1999-1-1 article 6.3.3.5(2) formula (6.71) cannot be executed. Half of the buckling length is used instead.

Note code	Note message
N1	Note: This section is not located in a heat affected zone (HAZ).
N2	Note: This section is located in a heat affected zone (HAZ).
N3	Note: Axis definition : - principal y- axis in this code check is referring to the principal z axis in SCIA Engineer - principal z- axis in this code check is referring to the principal y axis in SCIA Engineer
N4	Note: The shift of the neutral axis eN,y leads to a favourable result in the check and is therefore neglected.
N5	Note: The shift of the neutral axis eN,z leads to a favourable result in the check and is therefore neglected.
N6	Note: The Class has been manually set to x by the user.
N7	Note: The Elastic verification has been set by the user.
N8	Note: The decomposition is calculated using the FriLo BTII Solver.
N9	Note: This cross-section type is not covered in EN 1999-1-1 for the combined section check. Therefore, the elastic yield criterion according to EN 1999-1-1 article 6.2.1(5) is verified.
N10	Note: Since there is no corresponding bending moment, the effect of the shear force cannot be accounted for in the interaction. Therefore, the elastic yield criterion according to EN 1999- 1-1 article 6.2.1(5) is verified.
N11	Note: Only the section check is executed for this member.
N12	Note: The slenderness or compression force is such that Flexural buckling effects may be ignored according to EN 1999-1-1 article 6.3.1.2(4).
N13	Note: The Buckling factors have been set to 0.001 to neglect Flexural buckling. (2nd Order calculation)
N14	Note: The slenderness or compression force is such that Torsional(-flexural) buckling effects may be ignored according to EN 1999-1-1 article 6.3.1.2(4).
N15	Note: The cross-section is not susceptible to Torsional(-flexural) buckling according to EN 1999-1-1 article 6.3.1.4(1).

N16	Note: The cross-section concerns a class 1 or 2 section composed of radiating outstands which is not susceptible to Torsional(-flexural) buckling according to EN 1999-1-1 article 6.3.1.4(1).
N17	Note: The Lateral torsional buckling check is ignored due to the fact that the compression flange is fully braced by the sheeting.
N18	Note: The slenderness or bending moment is such that Lateral torsional buckling effects may be ignored according to EN 1999-1-1 article 6.3.2.2(4).
N19	Note: C parameters are determined according to ECCS 119 2006 / Galea 2002.
N20	Note: The elastic critical moment Mcr has been manually inputted by the user.
N21	Note: The elastic critical moment Mcr is calculated using the FriLo BTII Solver.