Upper beam:

Reaction force: $R_x = 3.1\ N \cdot \overrightarrow{x_o}, R_y = -11.2\ N \cdot \overrightarrow{y_o} \rightarrow R_{y_\alpha} = -11.62\ N \cdot \overrightarrow{y_\alpha}$

Max. Normal force: $N_f = 0\ N \cdot \overrightarrow{x_\alpha}$

Max. Shear force: $\tau = 11.62\ N\ \cdot\ \overrightarrow{y_\alpha}\ on\ ground\ support$

Max. Bending moment: $M_b = 72.26\ N\ cm\ \cdot\ \overrightarrow{z_{0,1,\alpha}}\ on\ node\ 1$

Highest stress: $\sigma = 67.74\ MPa\ on\ node\ 1$

Rest of the wing rib:

Sum of Reaction forces:

$R_x = -3.1\ N \cdot \overrightarrow{x_o}, R_y = 11.2\ N \cdot \overrightarrow{y_o} \rightarrow R_{y_\alpha} = 11.62\ N \cdot \overrightarrow{y_\alpha}$

Max. displacement (free end): $\delta_x = 0.012\ cm \cdot \overrightarrow{x_o}, \delta_y = 0.256\ cm \cdot \overrightarrow{y_o}$

Max. Normal force: $N_f = 11.85\ N \cdot \overrightarrow{x_o}$

Max. Shear force (rightmost ground support): $\tau = 3.23\ N$

Max. Bending moment (rightmost ground support): $M_b = 21.67\ N\ cm$

Highest stress (rightmost ground support): $\sigma = 20.36\ MPa$