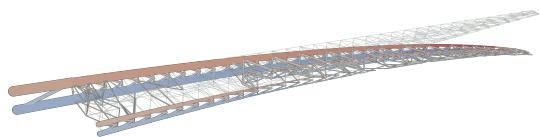
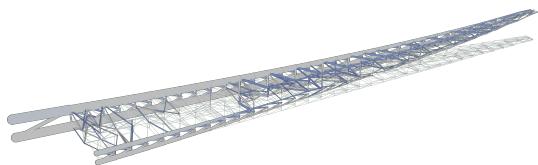
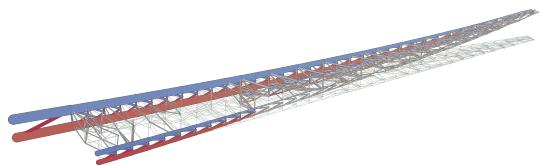


(a)



(b)



(c)

$$-\frac{q \cdot sf}{\sigma_c a}$$

0

$$+\frac{q \cdot sf}{\sigma_t a}$$

0

$$\frac{q \cdot sf}{q_{crit}}$$