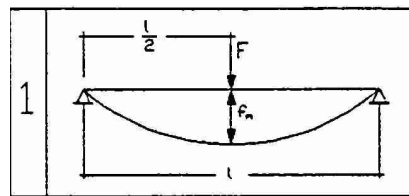


deflection of sandwich panels

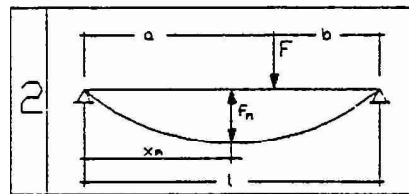
Depending on the beam type, the deflection of sandwich panels can be determined with the following formula:

F = load in N fm = maximum deflection in mm
 q = surface load in N/mm l = span between bearings in mm
 $E*J$ = theoretical bending resistance in Nmm^2

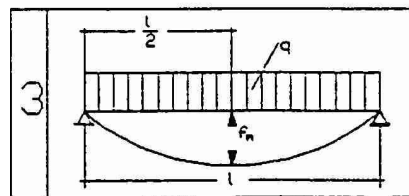
beam type



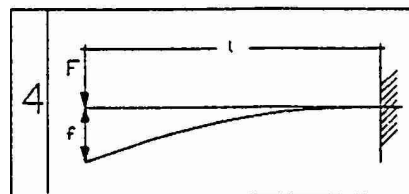
$$fm = \frac{F * l^3}{48 * E * J}$$



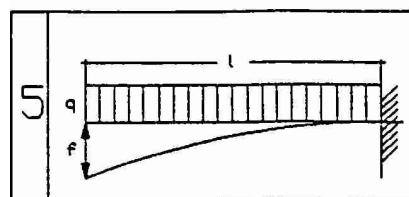
$$fm = \frac{F * a^2 * b^2}{3 * E * J * l}$$



$$fm = \frac{5 * q * l^4}{384 * E * J}$$



$$fm = \frac{F * l^3}{3 * E * J}$$



$$fm = \frac{q * l^4}{8 * E * J}$$