



# Hcal- Glass Plate Calculations

- Modeled
  - Using equations from Formulas for Stress and Strain (5th edition) by Roark and Young
  - Edges of plate simply support around all sides
  - Uniformly loaded over entire surface
- Assumed
  - Plate thickness of 1mm
  - Square plates
  - glass with a modulus of  $7,5E10$  Pa
- Weight of plate only; stress limited
  - Stress  $1.37E7$  Pa ~safety factor of 10
  - 1818mm spacing



# Hcal- Deflection Limited

