

The cross section in Fig. 11.65 is area balanced based on its area-depth graph (Fig. 11.65A). The lower detachment is at -8.5 km below sea level and the displacement that formed the structure is 3.04 km. The predicted strain in each layer is 1 = -8.0% ; 2 = -18.6% ; 3 = -26.0% , calculated from Eq. 11.26. Strains of these magnitudes would imply substantial sub-resolution faulting in low temperature deformation.

Fig. 11.65A.

Area-depth graph for the detachment fold in Fig. 11.65.
Depth in km, area in km^2

