

normal displ.w (in) where w is maximum; nodal point 1132 Fig. 180 Optimized unstiffened equivalent ellipsoidal shell with thick apex, t(apex)=0.4 inch; Wimp=0.2 inch; the optimum design is listed in Table 78. Shown here are three load cycles for load set B (load factor PB) that produce residual dents of three different depths. The load set B consists of a number of normal concentrated loads applied along the junction of shell segments 3 and 4 that has a cos(theta) circumferential distribution from theta = 0 to 90 degrees. (Figs. 2, 169, 190, 191; See Shell units 11 and 12 listed in Table a40, except that the input datum, LT, in Load Set B is +1 instead of -1). This "cos(theta)" loading produces a more harmful dent than that produced by a pressure applied to a single finite element, as is demonstrated in Fig. 188. Compare with Fig. 175.