

5-bay flat panel: Input for the PANDA2 processor, STAGSUNIT, is listed in Table 19

PA= 7.19550E+00 PB= 0.00000E+00 PX= 0.00000E+00

step 14 displacement w contours

Fig.47 nonlinear w same view as linear buckling mode; case=allflat

Minimum value = -4.10452E-02, Maximum value = 4.18748E-02

Θ x -35.84
Θ y -13.14
Θ z 35.63

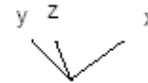


Fig. 47 STAGS prediction for the deformed state of the panel at the highest load factor, PA, for which STAGS was able to find a converged nonlinear static equilibrium solution. The panel has the buckling modal imperfection shape shown in the previous figure with amplitude, Wimp = 0.001 inch. Overall axial bending is NOT permitted. (IBCX0XL = 1 in the *.STG file that, via execution of the PANDA2 processor, STAGSUNIT, generates the *.bin and *.inp input files for STAGS.) There is no in-plane warping of the panel skin along the four edges of the STAGS model. This figure is analogous to Fig. 22. Since the panel is flat the outward and inward buckles have about the same amplitude.