

Table 26 Input data for the PANDA2 processor STAGSUNIT (allenflat.STG) for generating the STAGS input files, allenflat4.bin and allenflat4.inp . This file pertains to the 2-stringer-bay flat panel with edge stiffeners. See Fig. 67.

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n      $ Do you want a tutorial session and tutorial output?
1      $ Choose type of STAGS analysis (1,3,4,5,6),INDIC
0      $ Restart from ISTARTth load step (0=1st nonlinear soln), ISTART
1.000000 $ Local buckling load factor from PANDA2, EIGLOC
y      $ Are the dimensions in this case in inches?
0      $ Nonlinear (0) or linear (1) kinematic relations?, ILIN
0      $ Type 1 for closed (360-deg) cyl. shell, 0 otherwise, ITOTAL
9.779300 $ X-direction length of the STAGS model of the panel: XSTAGS
4.941    $ Panel length in the plane of the screen, L2
y      $ Is the nodal point spacing uniform along the stringer axis?
161     $ Number of nodes in the X-direction: NODEX
-100.0000 $ Resultant (e.g. lb/in) normal to the plane of screen, Nx
0        $ Resultant (e.g. lb/in) in the plane of the screen,   Ny
0        $ In-plane shear in load set A,                        Nxy
0        $ Normal pressure in STAGS model in Load Set A, p
0        $ Resultant (e.g. lb/in) normal to the plane of screen, Nx0
0        $ Resultant (e.g. lb/in) in the plane of the screen,   Ny0
0        $ Normal pressure in STAGS model in Load Set B, p0
1.000000 $ Starting load factor for Load System A, STLD(1)
0        $ Load factor increment for Load System A, STEP(1)
1.000000 $ Maximum load factor for Load System A, FACM(1)
0        $ Starting load factor for Load System B, STLD(2)
0        $ Load factor increment for Load System B, STEP(2)
0        $ Maximum load factor for Load System B, FACM(2)
1        $ How many eigenvalues do you want? NEIGS
480     $ Choose element type: 410 or 411 or 480 or 940
n      $ Have you obtained buckling modes from STAGS for this case?
3        $ Number of stringers in STAGS model of the flat panel
2        $ Number of rings in the STAGS model of the panel
y      $ Are there rings at the ends of the panel?
20      $ Number of finite elements between adjacent stringers
40      $ Number of finite elements between adjacent rings
3        $ Stringer model: 1 or 2 or 3 or 4 or 5(Type H(elp))
3        $ Ring model: 1 or 2 or 3 or 4 or 5 (Type H(elp))
0        $ Reference surface of cyl: 1=outer, 0=middle, -1=inner
n      $ Do you want to use fasteners (they are like rigid links)?
n      $ Are the stringers to be "smeared out"?
n      $ Are the rings to be "smeared out"?
5        $ Number of nodes over height of stiffener webs, NODWEB
5        $ Number of nodes over width of stringer flange, NDFLGS
5        $ Number of nodes over width of ring flange, NDFLGR
n      $ Do you want stringer(s) with a high nodal point density?
n      $ Do you want ring(s) with a high nodal point density?
n      $ Is there plasticity in this STAGS model?
n      $ Do you want to use the "least-squares" model for torque?
n      $ Is stiffener sidesway permitted at the panel edges?
n      $ Do you want symmetry conditions along the straight edges?
1        $ Edges normal to screen (0) in-plane deformable; (1) rigid
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1       \$ Edges parallel to screen (0) in-plane deformable; (1) rigid  
1       \$ Stringer web axial displacement index, IBCX0XL=0 or 1

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