Table 50 Optimized **imperfect isogrid-stiffened** equivalent elliposidal shell. Design margins from Load Set 3 (+mode 3 and +mode 4 imperfection shapes) corresponding to the design optimized with the use of only mode 1 and mode 2 imperfection shapes. These margins are developed via the same seven analyses of the type listed in Table 30. Critical margins in **bold.**

A typical margin with the meanings of the indices, a, b, c, d, e, explained:

```
                                  a             b
5  1.380E+00  (STFBK1(3,1)/STFBK1A(3,1))/STFBK1F(3,1)-1; F.S.= 1.00
                    c d e       c  d e        c  d e
```

"STFBK" means "Stiffener buckling"
a = "A" means "Allowable value"
b = "F" means "Factor of safety"
c = Imperfection mode number, [1 = odd (mode 3); 2 = even (mode 4)]
d = Load set number (3 or 4 in the cases explored here)
Load set 3 means "use +mode 3 and +mode 4 imperfection shapes"
Load set 4 means "use -mode 3 and -mode 4 imperfection shapes"
e = Region number:
(1 or 2 Region 1 is from the axis of revolution to xlimit,
that is, 0 < x < xlimit.
Region 2 is from xlimit to the equator,
that is, xlimit < x < semi-major axis.)

*** RESULTS FOR LOAD SET NO. 3 (+mode 3 and +mode 4 imperfections) ***
MARGINS CORRESPONDING TO CURRENT DESIGN (F.S.= FACTOR OF SAFETY)

MARGIN NO.	CURRENT VALUE	DEFINITION
1	6.727E-01	(CLAPS1(3)/CLAPS1A(3)) / CLAPS1F(3)-1; F.S.= 1.00
2	1.931E+00	(GENBK1(3)/GENBK1A(3)) / GENBK1F(3)-1; F.S.= 1.00
3	2.022E+00	(SKNBK1(3,1)/SKNBK1A(3,1))/SKNBK1F(3,1)-1; F.S.= 1.00
4	2.022E+00	(SKNBK1(3,2)/SKNBK1A(3,2))/SKNBK1F(3,2)-1; F.S.= 1.00
5	1.380E+00	(STFBK1(3,1)/STFBK1A(3,1))/STFBK1F(3,1)-1; F.S.= 1.00
6	1.167E+00	(STFBK1(3,2)/STFBK1A(3,2))/STFBK1F(3,2)-1; F.S.= 1.00
7	5.313E-01	(SKNST1A(3,1)/SKNST1(3,1))/SKNST1F(3,1)-1; F.S.= 1.00
8	**-5.063E-02**	**(SKNST1A(3,2)/SKNST1(3,2))/SKNST1F(3,2)-1; F.S.= 1.00**
9	3.505E-01	(STFST1A(3,1)/STFST1(3,1))/STFST1F(3,1)-1; F.S.= 1.00
10	**-2.263E-01**	**(STFST1A(3,2)/STFST1(3,2))/STFST1F(3,2)-1; F.S.= 1.00**
11	1.318E+00	(WAPEX1A(3)/WAPEX1(3)) / WAPEX1F(3)-1; F.S.= 1.00
12	6.727E-01	(CLAPS2(3)/CLAPS2A(3)) / CLAPS2F(3)-1; F.S.= 1.00
13	1.807E+00	(GENBK2(3)/GENBK2A(3)) / GENBK2F(3)-1; F.S.= 1.00
14	2.202E+00	(SKNBK2(3,1)/SKNBK2A(3,1))/SKNBK2F(3,1)-1; F.S.= 1.00
15	2.142E+00	(SKNBK2(3,2)/SKNBK2A(3,2))/SKNBK2F(3,2)-1; F.S.= 1.00
16	1.148E+00	(STFBK2(3,1)/STFBK2A(3,1))/STFBK2F(3,1)-1; F.S.= 1.00
17	9.793E-01	(STFBK2(3,2)/STFBK2A(3,2))/STFBK2F(3,2)-1; F.S.= 1.00
18	6.241E-01	(SKNST2A(3,1)/SKNST2(3,1))/SKNST2F(3,1)-1; F.S.= 1.00
19	**1.102E-01**	**(SKNST2A(3,2)/SKNST2(3,2))/SKNST2F(3,2)-1; F.S.= 1.00**
20	**1.138E-01**	**(STFST2A(3,1)/STFST2(3,1))/STFST2F(3,1)-1; F.S.= 1.00**
21	**-3.096E-01**	**(STFST2A(3,2)/STFST2(3,2))/STFST2F(3,2)-1; F.S.= 1.00**
22	1.251E+00	(WAPEX2A(3)/WAPEX2(3)) / WAPEX2F(3)-1; F.S.= 1.00