

Table a33 List of the file, **wall.diff**, which is generated from the statement:

```
diff wall.soccerball.plastic.src wall.plastic.src > wall.diff
```

These differences are necessary because the 180-degree "soccerball" model has four shell units corresponding to each shell unit of the 360-degree "eqellipse" model from Shell Unit No. 2 through Shell Unit No. 12 of the 360-degree "eqellipse" model. The same input file, **WALLTHICK.STAGS**, is used for both the 180-degree "soccerball" model (Fig. a2) and the 360-degree "eqellipse" model (Fig. a1).

```
=====
47,49d46
<      Integer      icap
<      Integer      junit
<      Integer      icirc
226,247c223
< c
< c BEG NOV 2008
< c  soccerball shell unit number is not the same as the
< c  equivalent ellipsoidal shell unit number...
<      icirc = 180
<      icap = 1
<      if (icirc.eq.180) icap = 2
<      if (icirc.eq.360) icap = 4
<      if (iunit.le.(icap*3)) then
< c      We are in the soccerball cap region (Shell Unit 1
< c      in the 360-degree "polar coordinate" STAGS model).
< c      TATX and HATX must be uniform within the soccerball
< c      cap region for this "soccerball" version of usrfab
< c      to be valid:
<          TATX = THSKIN(1,1)
<          HATX = HEIGHT(1,1)
<          junit = 1
<          go to 30
<      endif
< c
<      junit = (iunit - icap*3 + 2*icap-1)/(2*icap) + 1
<      I5I = I5(junit)
---
>      I5I = I5(iunit)
249c225
<          IF (XYs(1).LT.PHORIG(I,junit)) THEN
---
>          IF (XYs(1).LT.PHORIG(I,iunit)) THEN
256,257c232,233
<          PHDIFF = PHORIG(IMORE,junit) - PHORIG(IMORE1,junit)
<          XDIFF  = XYs(1) - PHORIG(IMORE1,junit)
---
```

```

>      PHDIFF = PHORIG(IMORE,iunit) - PHORIG(IMORE1,iunit)
>      XDIFF  = XYS(1) - PHORIG(IMORE1,iunit)
259,265c235,238
<      TDIFF  = THSKIN(IMORE,junit) - THSKIN(IMORE1,junit)
<      HDIFF  = HEIGHT(IMORE,junit) - HEIGHT(IMORE1,junit)
<      TATX   = THSKIN(IMORE1,junit) + RATIO*TDIFF
<      HATX   = HEIGHT(IMORE1,junit) + RATIO*HDIFF
< C
<      30 CONTINUE
< C END NOV 2008
---
>      TDIFF  = THSKIN(IMORE,iunit) - THSKIN(IMORE1,iunit)
>      HDIFF  = HEIGHT(IMORE,iunit) - HEIGHT(IMORE1,iunit)
>      TATX   = THSKIN(IMORE1,iunit) + RATIO*TDIFF
>      HATX   = HEIGHT(IMORE1,iunit) + RATIO*HDIFF
266a240
> c      Find ecz
281c255
<      e1L(1) = EMATL*THKSTF(1,junit)/SPACNG
---
>      e1L(1) = EMATL*THKSTF(1,iunit)/SPACNG
287c261
<      rhoL(1) = DNMATL*THKSTF(1,junit)/SPACNG
---
>      rhoL(1) = DNMATL*THKSTF(1,iunit)/SPACNG
=====

```