Figure 1 Top ACD

- Default tile thickness = 10 mm
- Top tile overlap 15 mm
- Ribbon gap 2.5 mm
- Side overlap 30 mm
- Curved edge
- Standoff ~ 25.4 mm
- Side support core thickness 25.4 mm
- 2 face sheets 0.508 mm
- TKR wall
- Stay clear gap 25.8 mm
- PMT fiber bundle gap 41.6 mm
- Scintillating ribbon ribbon thickness = 4.5 mm
- Support structure core thickness 50.8 mm
- 2 face sheets 0.508 mm
- Center tile thickness 12 mm

Not to Scale

Ribbon continues to the bottom of the 4th ACD side row

X

Z
Figure 2 Top Tiles

Not shown in this view, the ribbon as it continues from the top down the sides.

334 mm 334 mm 318 mm 334 mm 334 mm

1670 mm

ribbon_gap = 2.5 mm

5 mm gap

Scintillating ribbon_width = 11 mm

top_tile_gap = 3.5 mm

side support
core thickness 25.4 mm
2 face sheets 0.508 mm

Stay Clear Gap
25.8 mm

PMT fiber bundle gap 41.6 mm
Figure 3
Side Tiles another view

Not to Scale

Scintillating ribbon
width 11 mm
4.5 mm thick

ACD side support

851.0 mm

Row 0

Row 1

Row 2

Row 3

tile_thickness = 10 mm

Figure 4
One more Top View

ribbons

Side tiles

5 mm

4 mm

Figure 5