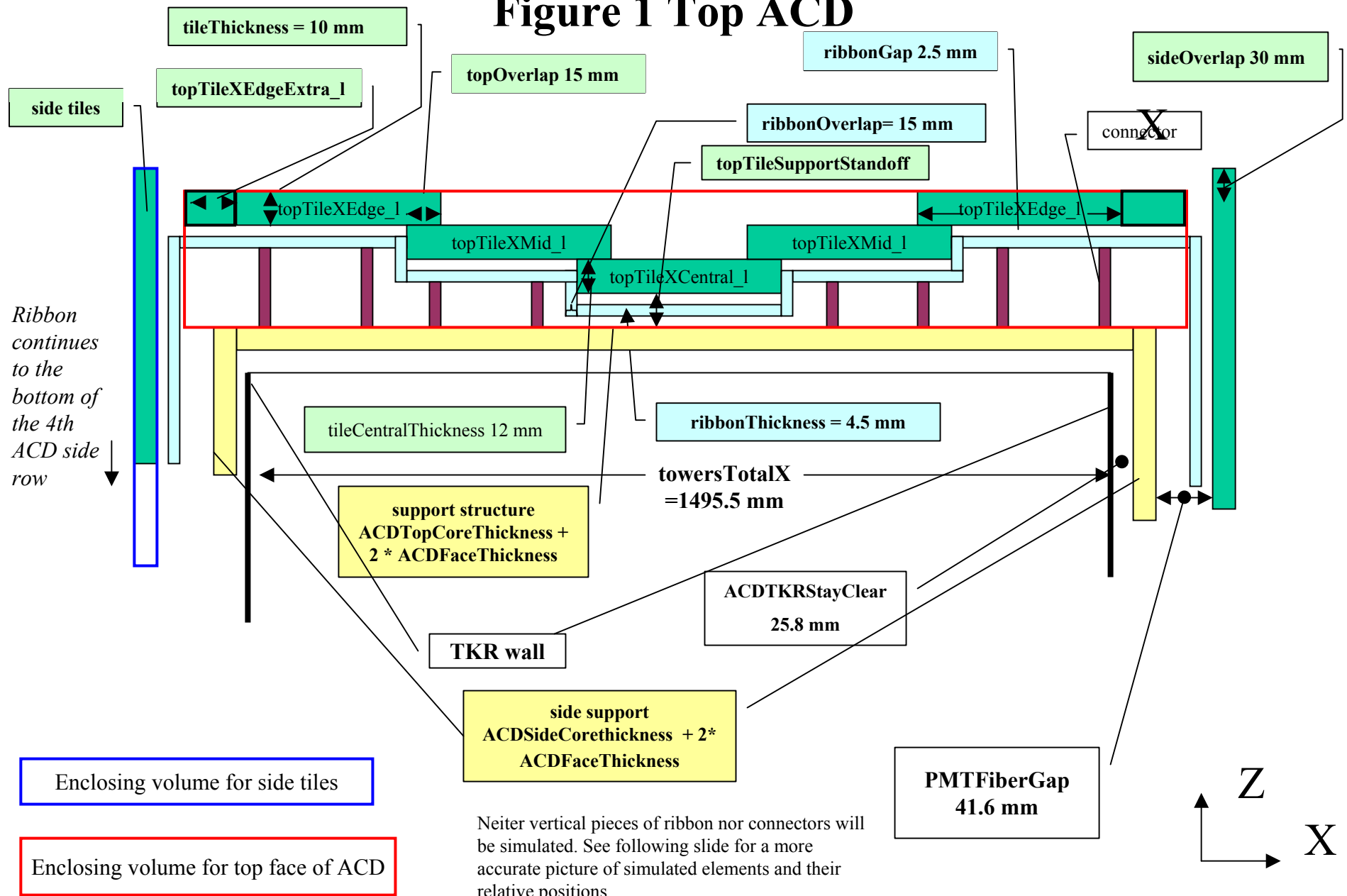


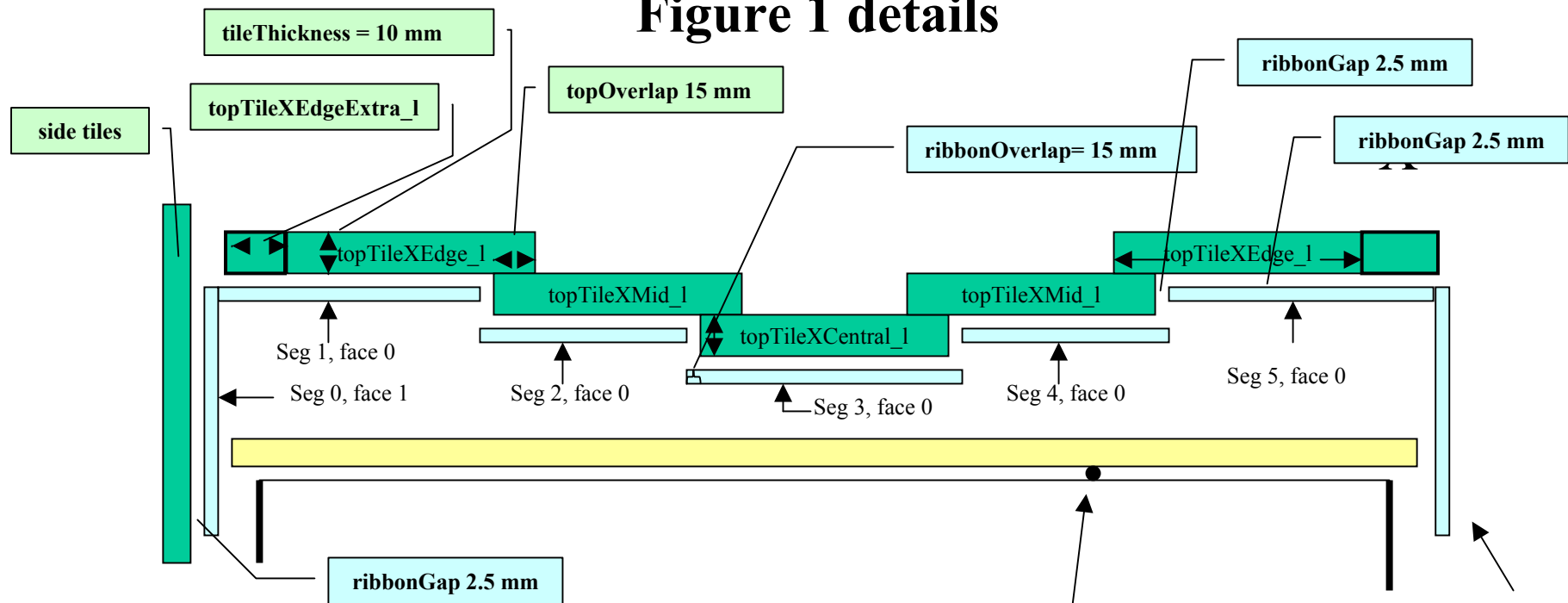
Figure 1 Top ACD



Neither vertical pieces of ribbon nor connectors will be simulated. See following slide for a more accurate picture of simulated elements and their relative positions.

Not to Scale

Figure 1 details



Some constants:

- topTileXCentral_1 (primary) 334 mm
- topTileXMid_1 (primary) 338 mm
- topTileXEdge_1 (primary) 300 mm
- topTileXEdgeExtra_1 (derived, computed so that tile almost extends to side tile; gap = ribbon thickness + ribbon Gap)
- topTileXEdgeTotal_1 (derived, sum of previous 2)
- topTileSupportStandoff (primary) 25.4; distance from bottom edge of central tiles (col 2) and top of support

TKRACDSupportGap = 45mm
 Needed to increase from old number of 10 mm to avoid overlap of ACD and grid.

Vertical ribbon pieces are not simulated. Ribbons extend beyond corresponding tile's edge by ribbonOverlap, except for edgemoat ribbons, which go only as far as tile. Transvers gap between ribbon and adjacent tile is ribbonGap, same as vertical gap between tile and ribbon below.

Assume gap of 10 mm between top of towers and lower face of top support. Side support structures not shown.

Not to Scale

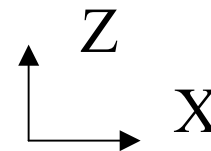
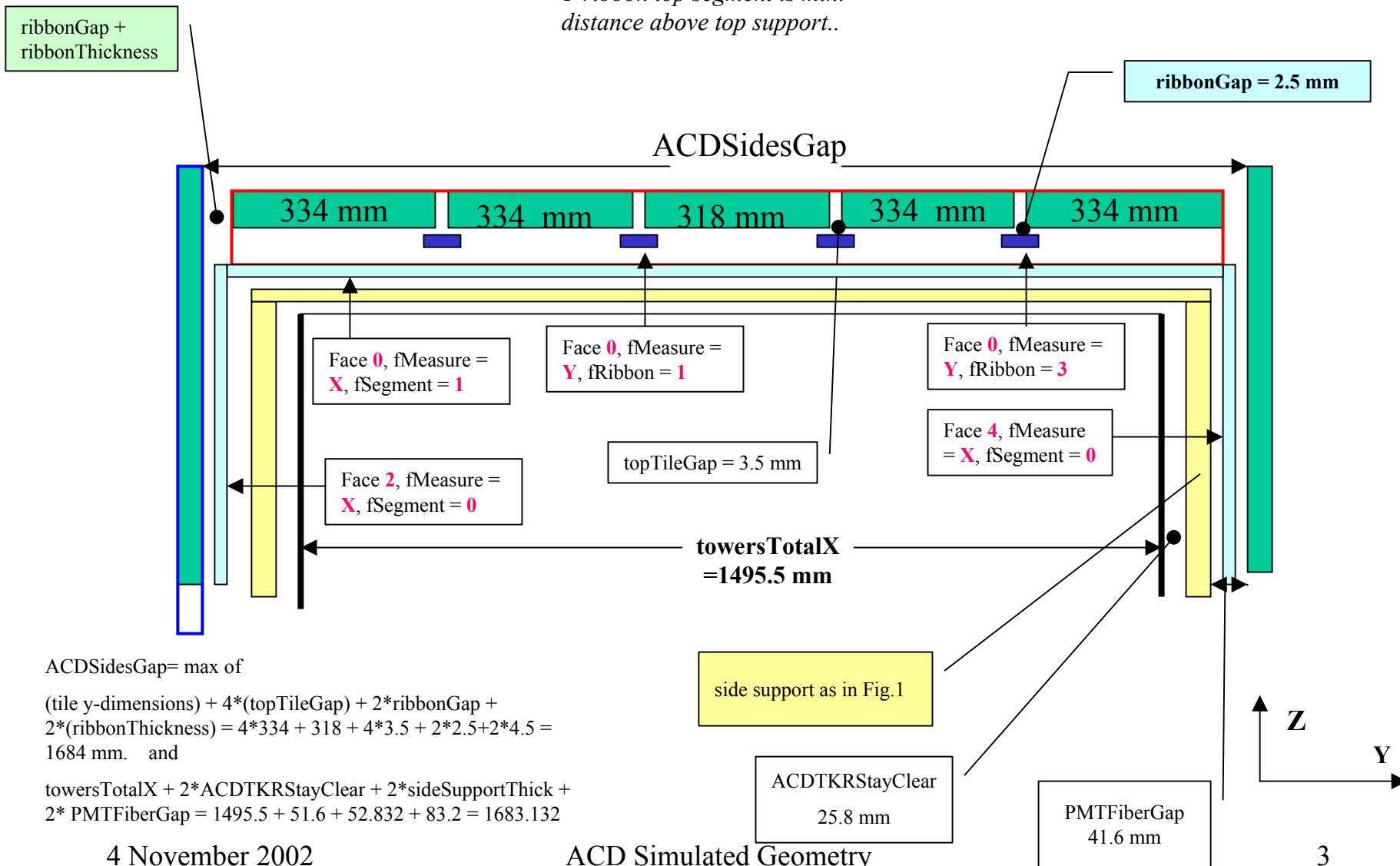


Figure 2 Top Tiles

Not to Scale

*Y-ribbon top segment is min.
distance above top support..*



ACDSidesGap= max of

(tile y-dimensions) + 4*(topTileGap) + 2*ribbonGap +
 2*(ribbonThickness) = 4*334 + 318 + 4*3.5 + 2*2.5+2*4.5 =
 1684 mm. and

towersTotalX + 2*ACDTKRStayClear + 2*sideSupportThick +
 2* PMTFiberGap = 1495.5 + 51.6 + 52.832 + 83.2 = 1683.132

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ACD Simulated Geometry

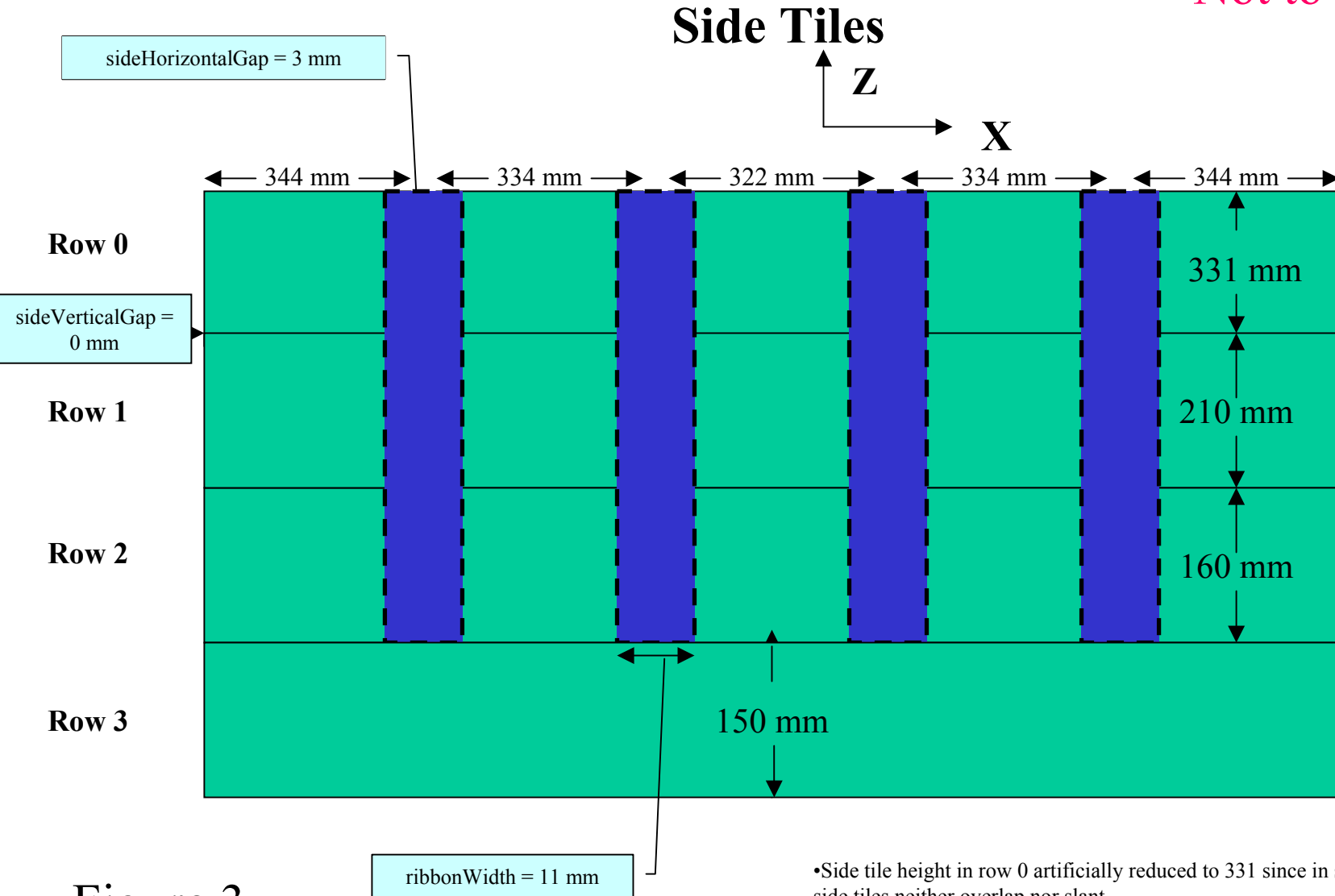
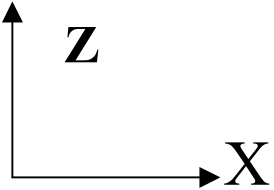


Figure 3

- Side tile height in row 0 artificially reduced to 331 since in simulation side tiles neither overlap nor slant.
- X-dimension of middle column set to 322 mm to get total X-extent to be 1690.

Side Tiles another view

Not to Scale



Ribbon width 11 mm,
4.5 mm thick.
This is +x side so identifier
has fFace=3, fMeasure=Y,
fSegment=0

**ACD side
support**

851.0 mm

Row 0
Height = 331 mm

Row 1
Height = 210 mm

Row 2
Height = 160 mm

Row 3
Height = 150 mm

Figure 4

4 November 2002

ACD Simulated Geometry

tileThickness = 10 mm

Not to Scale

One more Top View

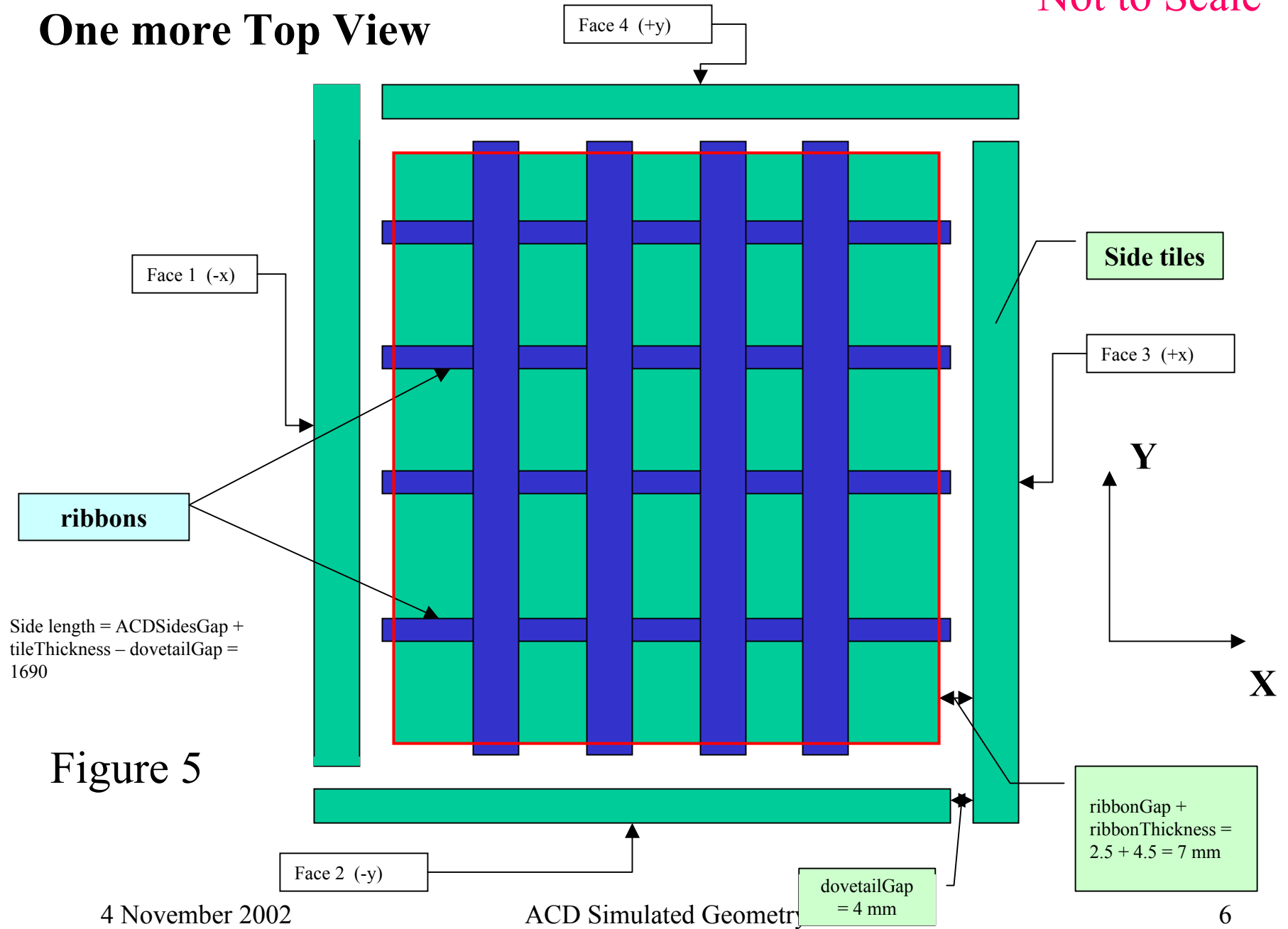
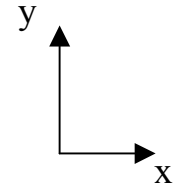
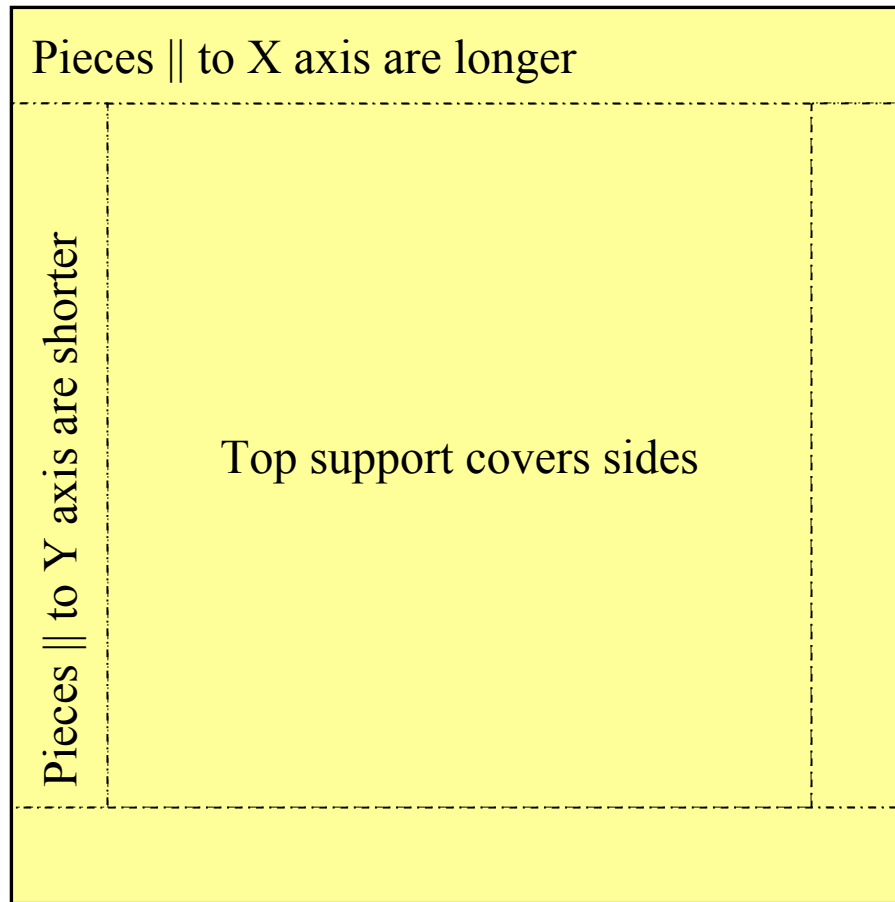


Figure 5

4 November 2002

ACD Simulated Geometry

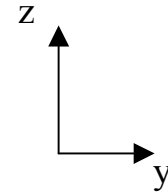
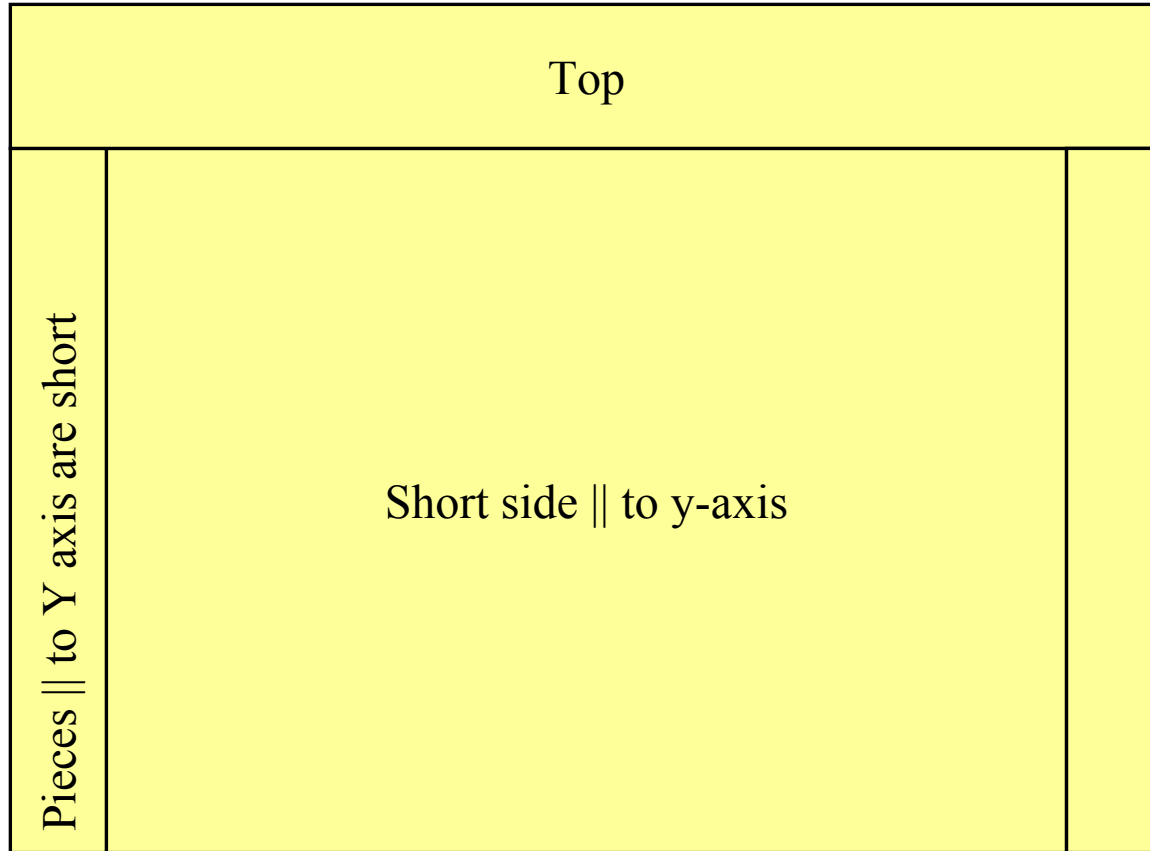
Support pieces jigsaw puzzle, top view



Not to Scale

Figure 6

Support pieces jigsaw puzzle, side view



Not to Scale

Figure 7

Identifiers

Tiles

FIELD NAME	fLATOjects	fACDFace	fACDCmp	fRow	fCol
Symbolic Value	eLATACD	eACDTopFace, etc.	eACDTile	-	-
Numeric Value	1	0- 4	40	0-4	0-4
Example:	/1/0/40/2/2	(top center tile)			

Ribbons

FIELD NAME	fLATOjects	fACDFace	fACDCmp	fMeasure	fRibbon	fSegment
Symbolic Value	eLATACD	eACDTopFace, etc.	eACDRibbon	eMeasureX,..Y	-	-
Numeric Value	1	0- 4	41	0, 1	0-3	Side faces: 0 Top face: 1-5
Example:	/1/2/41/0/2/0	(segment of third “x-measuring” ribbon which runs along the -y face)				

Supports

FIELD NAME	fLATOjects	fACDFace	fACDCmp
Symbolic Value	eLATACD	eACDTopFace, etc.	eACDSupport
Numeric Value	1	0- 4	42
Example:	/1/4/42	(side support on +y side)	