Fabric Roll Diameter:

GSM:- 340gsm

Width:- 58’’ = 1.4732mts

Length:- 90mts

Fabric roll length:- 60’’

Weight:- (1.5\*90)\*340

=45,900grams

=45.900kg

Thickness:- 1.1

Inside diameter:- 3’’

Outside Roll Diameter:- 14.29’’

Fabric consumption:- 1.75mts

Total Fabric consumed for 8000 jackets= 14000mts

Rolls required:- 155.55

Rolls Required= (Total fabric consumption/length per roll)= 156 rolls per day

15 Days Inventory:- 156\*15

= 2340 rolls

Rach Dimemsions:-

Breadth= 120’’

Per Roll Diameter= 14.29’’

So, you can store 8 rolls in 1 line and 7 rolls on top of it.

Therefore, the height of each rack is 36’’(8’’ allowance)

Total height of the rack:- 36\*4

=144’’= 3.6576mts

In each section, 15 rolls can be stored.

So, in whole rack 60 rolls (15\*4) can be stored.

Total number of APRs required= 2340/60 = 39 racks = 40 racks