

4 Point System Fabric Quality

In 4-point system fabric quality is evaluated by unit points/100 sq. yds. Normally fabric roll containing 40 points per 100 square yard are acceptable. Example: A fabric roll 120 yards long and 46 inch wide contains following defects.

[HomeFabric](#)

How to use 4 Point System in Fabric Inspection?

How to use the 4 point system for fabric inspection? Provide me an example with calculation. ...



Fabric inspection machine

Answer:

4 Point system for fabric inspection is widely used in apparel industry for fabric quality inspection. To use this system you have to know following things.

1. Fabric inspection method or preparation
2. Criteria of giving penalty points based on defects and defect length.

3. Calculation method of total penalty points for total defects found in a fabric roll or thān
4. A Check sheet or format for recording data
5. Knowledge of different types of defects (how a defect looks and its appearance)

Fabric inspection method or preparation

[Essential Fabric Quality Reports for Bulk Cutting Approval of Fabrics](#)

Criteria for giving penalty points

In the following table the penalty evaluation points has been given for different length of fabric defect and dimension of holes.

Table -1

Size of Defect	Penalty Points
Length of defects in fabric (either length or width)	
Defects up to 3 inches	1
Defects > 3 inches \leq 6 inches	2
Defects > 6 inches \leq 9 inches	3
Defects > 9 inches	4
Holes and openings(largest dimension)	
1 inch or less	2
Over 1 inch	4

Calculation of total points per yards

In 4 point system fabric quality is evaluated by unit **points/100 sq. yds.**

Points / 100 sq. yd. = (Total points in roll * 36 * 100)/ (Fabric length in yards * Fabric width in inches)

Normally fabric roll containing 40 points per 100 square yard are acceptable.

Also Read: [4 Point System - Acceptable Level](#)

Example: A fabric roll 120 yards long and 46 inch wide contains following defects.

4 defects up to 3 inch length	4 x 1	4 points
3 defects from 3 to 6 inch length	3 X 2	6 points
2 defects from 6 to 9 inch length	2 X 3	6 points
1 defect over 9 inch length	1 X 4	4 points
1 hole over 1 inch	1 X 4	4 points
Total defect points		24 Points
Therefore, Points/ 100 sq. yards	$= (24 \times 3600)/(120 \times 46)$ $= 15.652 \text{ points}$	

[Acceptable level \(Points per 100 square yards\) in 4-point system](#)

Check sheet or Inspection Format

To record or to collect defects during inspection you must use a simple check sheet. A check sheet includes general details, details of fabric lot, fabric defects according their sizes, summary of fabric

