

PILE WEAVE

FOR

B.SC SEM. II

SUBJECT - FABRIC CONSTRUCTION

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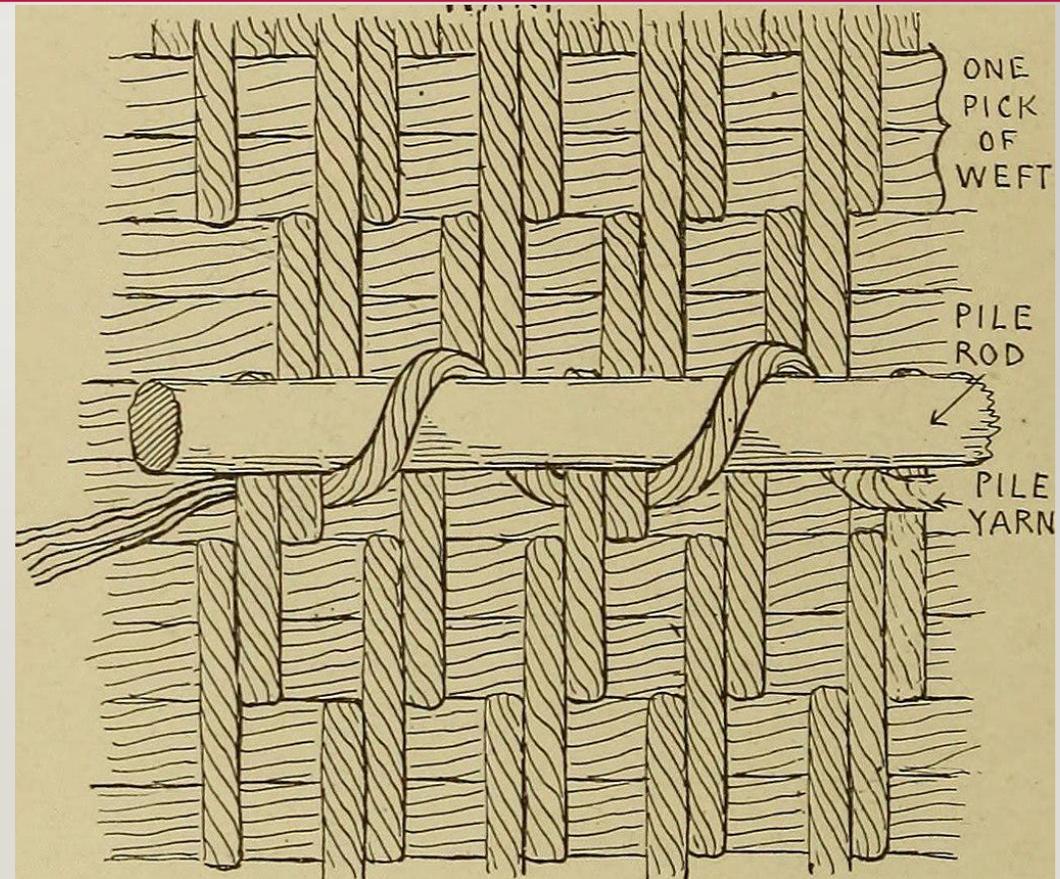
INTRODUCTION

Pile weave is a form of textile created by weaving .These fabrics are characterized by a pile, a looped or tufted surface that extends above the foundation or ground weave.The pile is formed by supplemental yarn running in the direction of the length of the fabric (warp pile weave) or the width of the fabric (weft or filling pile weave). Pile weaves include velvet and corduroy fabrics and machine-woven Berber carpets.



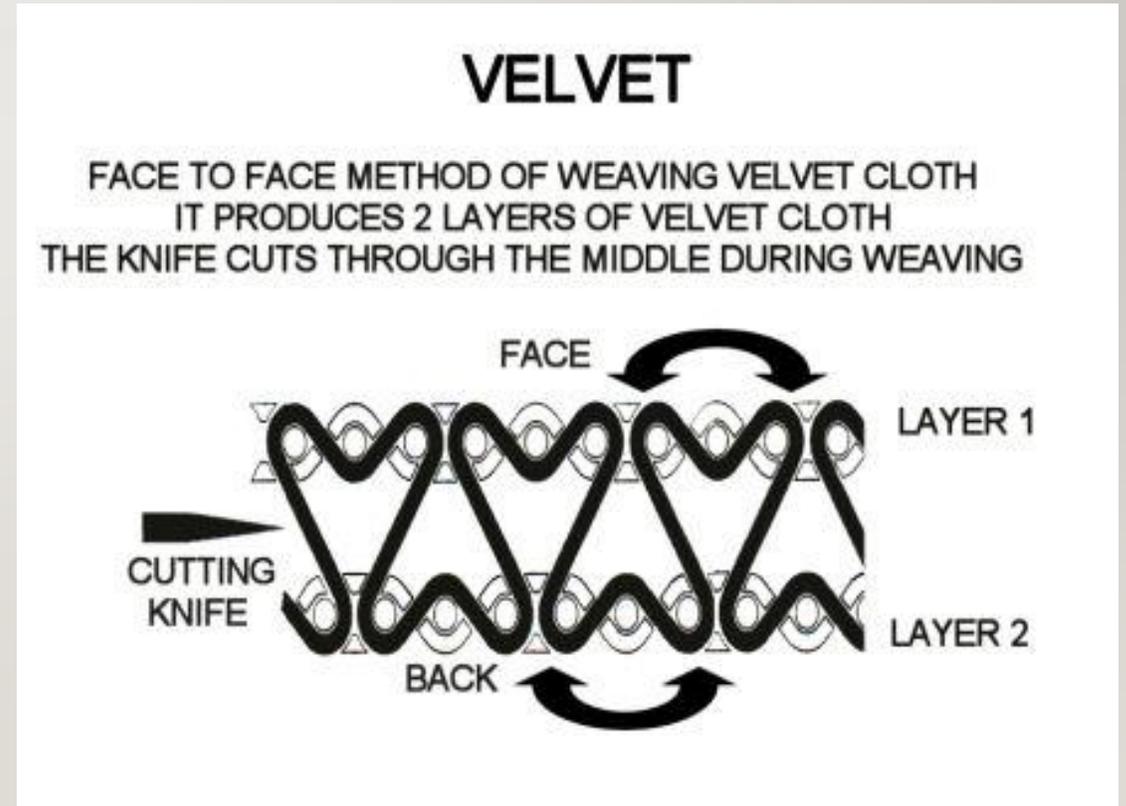
HAND-WOVEN PILE

- Pile fabrics were originally made on traditional hand looms. The warp ends that are used for the formation of the pile are woven over metal rods or wires that are inserted in the shed (gap caused by raising alternate threads) during weaving. Warp pile weaves may also be made on handlooms by winding the pile yarn around a rod during weaving. The pile yarns lie in loops over the inserted rods. When a rod is extracted the pile yarns remain as loops on top of the base fabric. The pile ends lying over the rod may be left as 'loop pile', or cut to form 'cut pile' or velvet.



MACHINE-WOVEN PILE

On power looms the technology of 'wire weaving' still exists, using modern technology and electronics. This weaving technique allows users to obtain both loop pile and cut pile in the same fabric. Other techniques involve the weaving of two layers of fabric on top of each other, whereby the warp ends used for the pile are inserted in such a way that they form a vertical connection between the two layers of fabric. By cutting the pile ends in between the two layers one obtains two separate pile fabrics. With this technique only the cut pile effect can be obtained. This is known as 'face-to-face weaving'. Both 'wire weaving' and 'face-to-face' weaving are used for the manufacturing of upholstery and furnishing fabrics as well as in rug making.

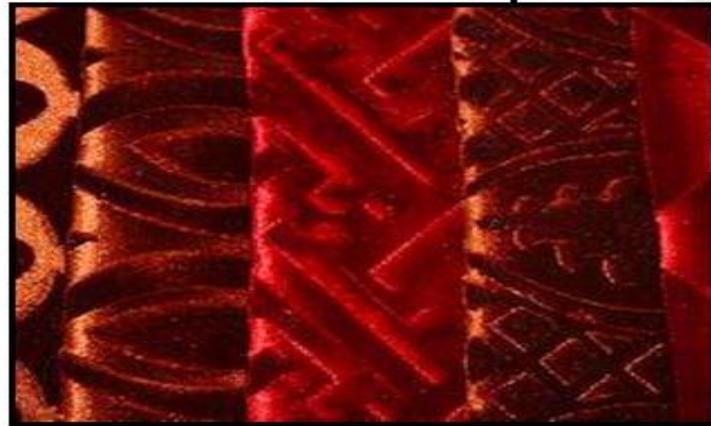
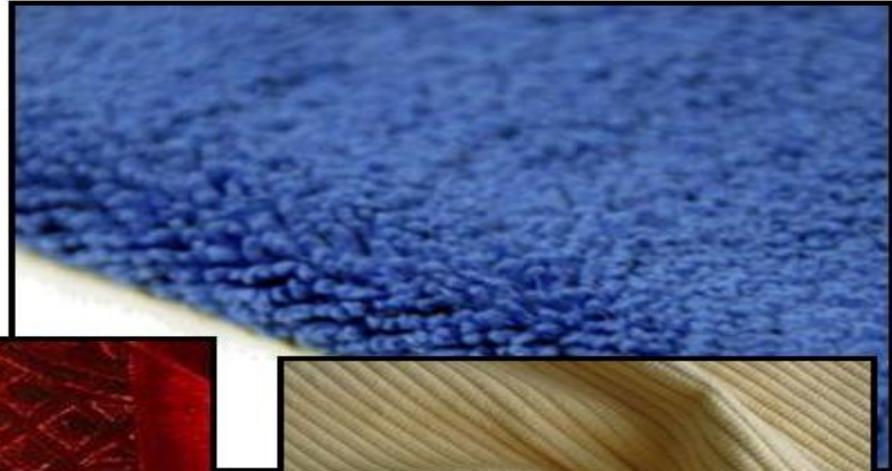


Pile Weaves, cont.

5. If the base is a twill weave it will be stronger than if it is a plain weave.

6. Examples of Pile Fabrics:

- a. Corduroy
- b. Terry Cloth
- c. Polar Fleece
- d. Velveteen
- e. Velvet



THANK YOU

