**Lecture 16 & 17: Fancy Weave**

**Honeycomb Design**

**Features of Honey Comb:**

* The surface of this type of fabric is very rough.
* In repeat size, number of ends and picks may be equal or unequal.
* Two types of Honey comb is available- Ordinary and Brighton. The smallest repeat size for Ordinary honey comb is (6 × 4) and for Brighton honey comb is (8 × 8).
* Pointed draft is used for Ordinary honey comb and Straight draft for Brighton.
* Weave forms hollows which give a cell-like appearance to the texture.
* If repeat size is square, then ultimate raised and sunk diamond shaped areas are seen.
* Large Honey comb weaves are liable to be loose in structure when constructed in ordinary manner. To secure the firmness of texture a double row of binding is used.
* Water absorbency is very high of this structure.
* For Brighton honey comb, the number of threads in repeat should be multiple of 4.

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|  | Repeat (10×10) |  |  |  |  | Repeat (8×10) |  |
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|  | Repeat Size (16×16) |  |
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|  | **Ordinary Honey Comb** |  |

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|  | Repeat Size (24×24) |  |  |  |
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|  | **Brighton Honey Comb** |  |  |  |

**Rules of drawing Honey Comb Weave:**

* For small square repeat size Ordinary Honey comb, a Z twill is drawn from the starting point and an S twill is drawn from 1 space down or right from the top left corner. Then two motifs are drawn on either up and down side or left and right side leaving one space from the intersecting point of the two twill lines.
* For unequal repeat size Ordinary Honey Comb, the repeat size is divided into two halves warp wise. Then two Z twill lines are drawn from the bottom left and top right in respective halves. Then an S twill line is drawn from one space right or down from the top left corner and another S twill line is drawn from one space up or left from the bottom right corner in respective halves. Then two motifs are drawn considering the gap between the two “V”s.
* For large repeat size Ordinary Honey Comb, Drawing procedure is similar to that of the small square repeat size O.H.C. The difference is that here a double row binding is used.
* For Brighton Honey Comb, at first “Longer Float” is selected. Longer float is (Repeat size /2)-1. Then Z twill is drawn from the starting point, and two S twill lines are drawn from one space right and down of the top left corner. Then considering Long float, two full diamond designs are drawn. Then four half diamond designs are drawn considering that each half of the respective diamonds are in the same warp.