

These threadings form the basis of much weaving and their use and variations are many. To the beginner perhaps it may not seem as though they could be so useful and interesting, because they are simple and easy to thread into the loom.

Uses for twill, herringbone and rose-path. These threadings are the next step beyond the two harness weaving, and of course can be used in many of the same ways as two harness variations. And they can be used for practically all kinds of woven materials, as tweeds, linens, upholstery fabrics, draperies and curtain materials, rugs etc. They are being much used for modern effects where pattern has become of less importance than texture interest. "Vavbok" by Eva Odlund and other of the Scandinavian books on weaving devote much space to these threadings. E.A. Poseldt "Dictionary of Weaves" is another book which is entirely made up of many different arrangments of twills.

Twill and its Complete Tie-up. At Figure No.1 given above is one repeat of the twill threading represented by black squares. Beginning at the bottom square, one thread on harness 1, one on harness 2, one on harness 3, and one on harness 4. This is then repeated across the width of the loom for number of warp threads required. The X's represent how the 4 harnesses are tied to the treadles, and the numbers below these X's the treadle number. Thus the complete tie-up for twill would require 14 treadles if all were to be tied up at one time on the loom. Beginning with the figure l or treadle 1 of the complete tie-up, the X means that the 4th harness is tied to the first treadle, continuing with 2 the second treadle is tied to the 3rd harness, 3 or the third treadle is tied to the second harness, and 4 or the 4th treadle is tied to the first harness. On most looms the harnesses are tied one to each lamm, and then the lamm is tied to the treadles as indicated on the tieup draft. Treadles 5 and 6 are the tieup for plain weave, often called binder or tabby. The location of these treadles is a matter of choice with the weaver. Some persons like to have them both together and the last two treadles on the right hand side, others tie them in the center between the pattern treadles, while others the them one at the extreme left and the other at the extreme right. It makes no particular difference where they are located, they are for the plain weare and always tied to bring down harnesses 2 and 4, and their opposites harnesses 1 and 3, in this standard twill threading draft. The woven effect of weaving with only one harness is shown at A of Figure No.2 on Page 2, the effect of weaving the plain weave treadles is shown at B of Figure No.2. If your loom has only four treadles, you have to weave with two feet in order to bring down more than one harness at a time. At C of Figure No.2 is shown the "two and two" twill effect, or in other words each weft goes over and then under two warp threads consecutively as the pattern treadles are brought down in order. The drawing shows how the pattern effect can be worked out. Of course these pattern treadles can be brought down to weave in any desired order, and the plain weave treadles should alternate after each pattern weft shot if the same treadles is used for several pattern weft shots. This is the principle of all so called "over-shot" weaving.

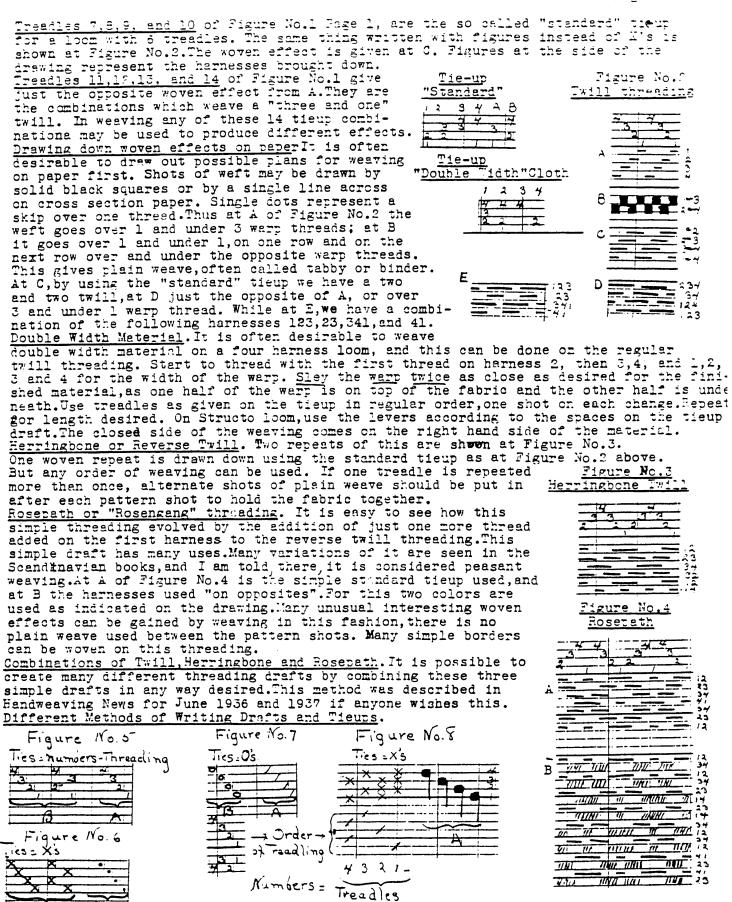


Figure No.5 on Page 2 represents both the threading and the tieup to the treadles by means of numbers. This is a convenient way to write drafts, especially when one has no cross section paper on hand, and there is never any confusion as to which of the harnesses is to be used either when figures are used. In this figure No.5, A is the threading draft, and B is the tieup.

Figure No.6 is exactly the same thing. Here the •'s are the threading and the X's

the tieup to the treadles. When using either of these drafts for the Structo loom, or in fact for any loom where the harnesses rise instead of sink, use the spaces of the tieup draft instead of the X's, or in the case of Figure No.5 the figures. Figure No.7 represents the threading draft with the l's and the tieup with O's. Below the O's the figures indicate the order of using the tieup O's. Figure No.8 has black notes for the threading draft and X's for the tieup. The Mumbers at the bottom indicate the treadles. And the I's on these lines the order in which the treadles are used. Here the order would be treadles 3,4,2,1 etc. Reading the X's of the tieup would tie herness 2,3,4 to treadle 1;1,2,3 to treadle 2, 2 &4 to treadle 3 for plair weave, and 1&3 to treadle 4 for the opposite plain weave. Sometimes one sees white notes on a threading draft combined with black, usually this indicates a thread of a different color. From these it is hoped that the student will have no difficulty in reading the Scandinavian books, although the language may not be clear.

References for Further Notes on Twills, Herringbone and Rosepath threadings,

Much technical material designed especially for power looms to be found in Textile Design, Pure and Applied by Thomas Woodhouse and Thomas Milne. Haandbok I Vaevning by Caroline Halvorsen, one of the best of the Scandinavian books. Foot Power Loom Weaving by Edward Worst.

My Vavbok Vol I and II, by Gerda Bjork, Elin Johansson.

Vara Hemvavnader By Maria Collin

Vavbok by Hulda Peters

Praktisk Vavbok By Ottilia Svensson

Hermets Vavbok Elisabeth Waern-Bugge

Jamtlamds-Harjedalsvavar by Alexander Berger

Vavbok VolI and II by Sigrid Palmgrens. Many of the illustrations in this are in color Vavboken by Montell-Glantzberg. This book also has many colored illustrations. How to Weave Linens by Edward Worst

It is hoped this list of books may prove helpful for further study.

There are many variations of twills etc. which are possible and which cannot be given in so short a space, but some of the broken twills and some other arrangments of twill threadings are given below. The dots on these diagrams indicate where just one weft thread comes, and the lines the length of the weft thread skip. The numbers at the right of the drafts indicate the harnesses required to weave as shown. These broken twills can be effectively used for tweeds or dress materials, and some of them are excellent for curtain and drapery material if the warp is spaced far apart and in some cases empty dents are left in the reed.

