



# A TWILL OF YOUR CHOICE

*Paul R. O'Connor*

**Color and weave effect twills on two to eight harnesses, with computer drawdowns**

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Interweave Press, Inc.  
Loveland, Colorado 80537

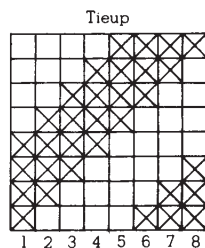
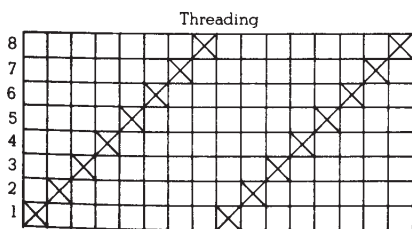
ISBN 0-934026-06-8  
Library of Congress Catalog Card No. 81-81875  
O'Connor, Paul R.  
A Twill of Your Choice  
Loveland, Colorado: Interweave Press, Inc.  
173 pp.

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**H**ave you ever wondered how many different twills you could weave on straight draw twill threadings? Well, I did, and this book is the result. This project had its origin when I wove a skirt material in which I wanted twill bands with color gradations from grays and browns at the bottom of the skirt to light grays and beiges at the top. However, I wanted if possible to avoid any obvious twill patterns in these bands. The skirt was woven on a 4-harness loom with broken twill as the weave structure in the colored bands.

When I graduated to an 8-harness loom, I was curious to see if I could blend colors in twill weaves, again without developing noticeable patterns. This proved to be more of a challenge than I first realized. If you take the following twill threading on eight harnesses and one of the possible twill tieups, there are  $8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1$  or 40,320 different ways to treadle where all treadles are used before



repeating any of them. For example, the treadle order might be 12345678 or it might be 56123478. There are only 40,318 other possibilities! By rather laborious methods I

convinced myself that there are many duplicates and that there are 320 different twills for straight draw threading of eight harnesses (not counting the reverse or mirror image of a pattern as different). Although this is not an impossible number to draft by hand, I was fortunate to have my son volunteer to develop a computer program which could print out these patterns for me.

The computer program is based on straight draw threading, and up to 20 harnesses can be programmed. The treadle tieup, the treadling sequence and the warp and weft colors (black, white and two shades of gray) can be chosen in any manner desired. The number of possible patterns with all these variables is immensely large and one could spend a lifetime generating computer printouts. There are over 1800 patterns in this book and you'll probably find it a real challenge to decide which one of them is just the pattern that you want to weave. My hope is that this collection of twill patterns will be useful as a reference to fellow weavers. At least, the task has been completed and will not have to be duplicated!

#### How to determine the number of different twill patterns

Here's how you can determine the number of different twill patterns that can be woven with a certain number of harnesses, using only 3-harness and 4-harness examples. Consider straight draw threading on three harnesses. There are, of course, two different tieups. The first tieup gives a 1/2 twill and the second gives a 2/1 twill. The

reduced to four different patterns. These correspond to the treadling sequences:

- 12345 (straight twill)
- 12354 (broken twill A)
- 12453 (broken twill B)
- 13524 (satin twill)

A summary here will help. Table I gives the number of different twill patterns that can be woven using the number of harnesses indicated. REMEMBER: The threading is always straight draw, all treadles are to be used once before using a treadle a second time, and the reverse or mirror image pattern is not counted as different.

**Table I. Twill Patterns versus Number of Harnesses**

Number of Harnesses	Number of different twill patterns
2	1 (usually called tabby)
3	1
4	2
5	4
6	14
7	52
8	320

I have no idea how many patterns there are for more than eight harnesses but clearly the number goes up very rapidly.

**Some comments and suggestions**

The remainder of this book is divided into sections based on the number of harnesses to be used. For 2-, 3- and 4-harness weaves, there are 21 different warp and weft color combinations. For 5-, 6-, 7- and 8-harness weaves, there are six warp and weft color combinations for each treadling sequence. Even so, the number of patterns presented is very large and it becomes bewildering to choose the one you may want to weave. I would recommend that you cut a template out of paper or cardboard so that you can look at one pattern at a time.

Colors in the warp and weft are indicated above each twill pattern. **W** specifies white and **B** black. In 2-, 3- and 4-harness patterns, the weft sequence is BBWW; in 5-, 6-, 7- and 8-harness patterns, it is BWWB. In many examples this only shifts the pattern without changing it.

The photographs of the woven samples beginning on p. 000 are keyed to indicate the treadling sequence, the page, and the warp-weft color sequences so that you can compare the computer printout with a woven sample. The key will have the form:

123654 W  
64 B

and means: this pattern appears on page 64, the treadling sequence is 123654, and the warp is white, the weft is black. The samples were woven with 3-ply Maypole wool at 24 ends per inch.

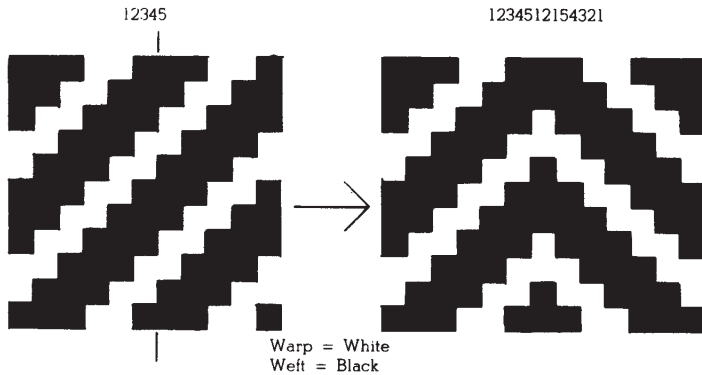
**Some additional points to consider:**

A. The weave structure can always be read from the first pattern given in any treading sequence where the warp is white and the weft is black.

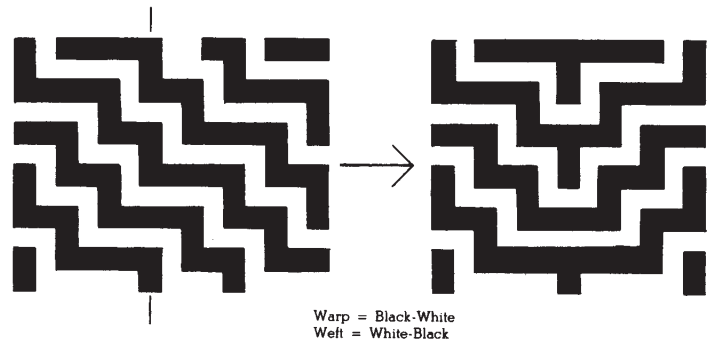
B. If you want a pattern to slant in the opposite direction from the one shown, all you have to do is reverse the number. For example, 12345 is a twill slanting up to the right while 54321 slants up to the left.

C. By using a mirror you can see what point twill threading will give you for each of the treading sequences. Here are two examples of this. The vertical line represents a mirror held at this point. By using two mirrors at right angles you can develop goose eye patterns.

**Mirror reflection of twill threading**



4



D. In all examples there are at least two warp repeats and two complete treading sequences. However, for five- and seven-harness patterns and for some color weave effects, this gives only one pattern repeat rather than two.

E. Different color combinations in different sections of the same warp can be used side by side without affecting the weave structure. You can place the patterns next to each other to see what the overall pattern would be.

F. You can change from one treading sequence to another at any point you desire. Similarly you can change from one color sequence in the weft to another whenever you want. You can anticipate the result by placing patterns from this book above one another.

G. The lowest possible number for the treading sequence has been assigned. When only one number is assigned, this means that the pattern is the same whether

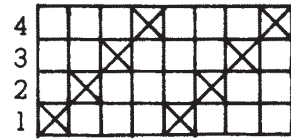
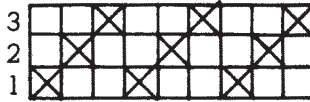
viewed right side up or upside down. When two numbers are indicated for a pattern, then the first number is for the pattern as presented and the second number corresponds to the treadling sequence when you look at the pattern upside down. For 6- and 7-harness patterns, both treadling sequences are presented separately but for 8-harness patterns only the lower number of the two is given so turn the book upside down to see the other treadling sequence.

H. You will find that the patterns fall into groups: twill lines to the right or left; horizontal or vertical lines; herringbone or chevrons; blocks; and complex patterns. The last type is best if you want to blend colors and avoid a definite pattern.

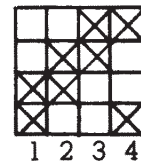
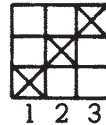
## 2-, 3- and 4-Harness Twills

The threadings and tieups that have been used for the computer printouts are given here.

Threading



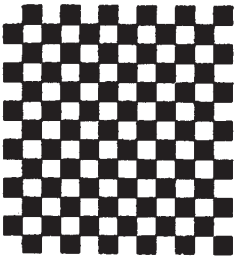
Tieup



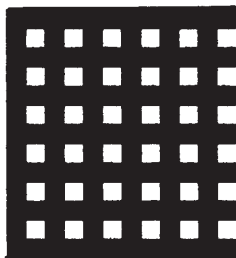


**Treading Sequence 12** (see photo p. 158)

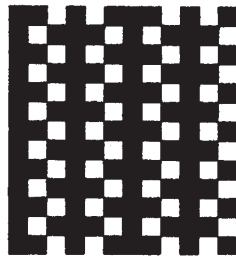
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**Weft = B**



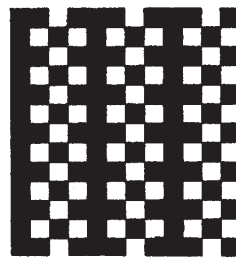
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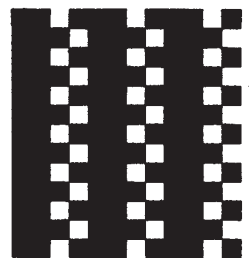
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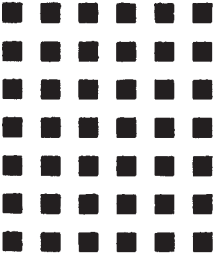
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**Weft = B**



**Warp = BBWW**  
**Weft = B**



**Warp = W**  
**Weft = BW**



**Warp = BW**  
**Weft = BW**



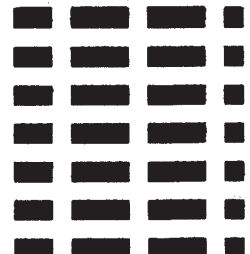
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**Weft = BW**



**Warp = BWW**  
**Weft = BW**

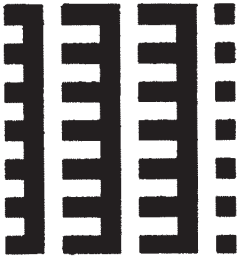


**Warp = BWWW**  
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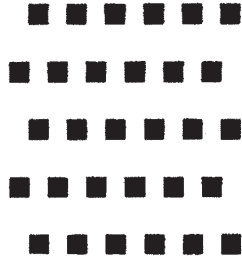


## Treadling Sequence 12

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Weft = BW



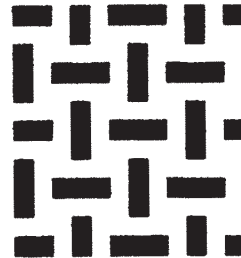
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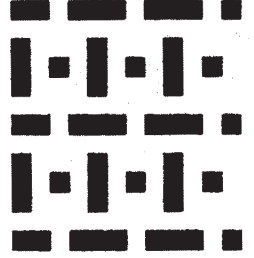
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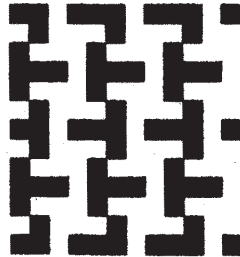
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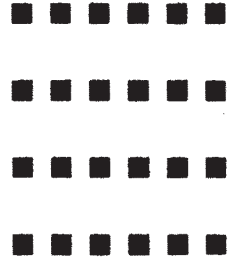
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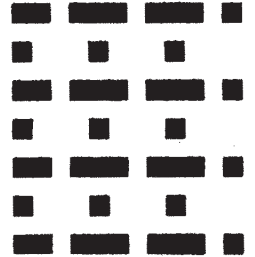
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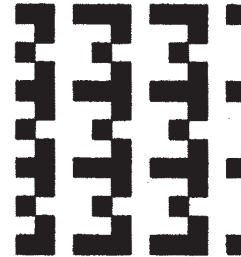
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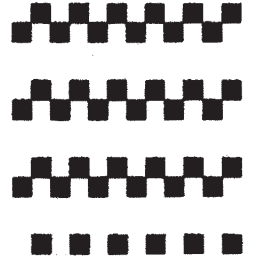
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Warp = BBWW  
Weft = BWWW



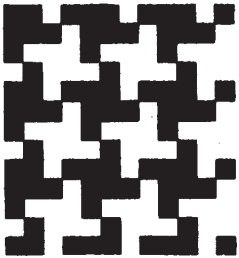
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## Treadling Sequence 12

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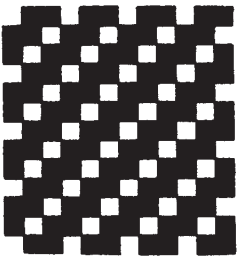
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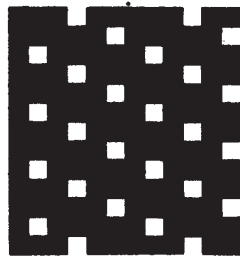
## Treadling Sequence 123 (see photo p. 159)

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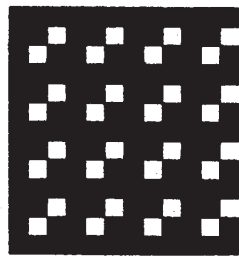
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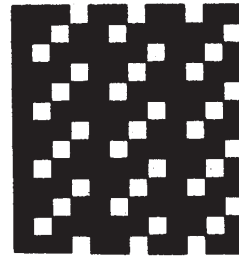
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Warp = BWW  
Weft = B



Warp = BWWW  
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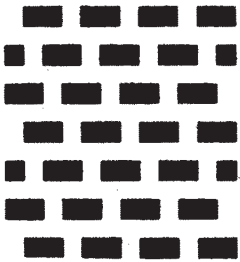


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## Treading Sequence 123

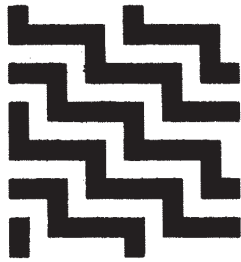
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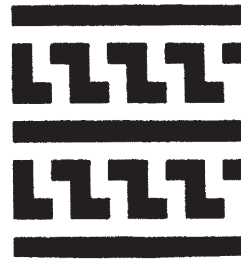
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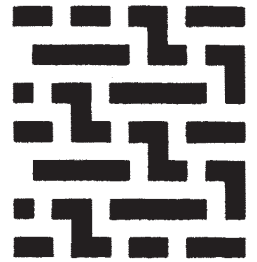
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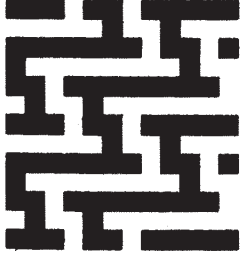
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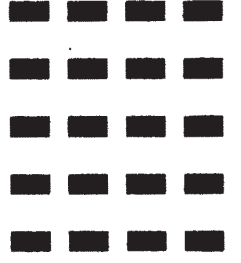
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Warp = BBWW  
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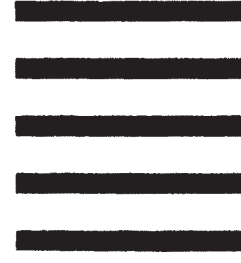
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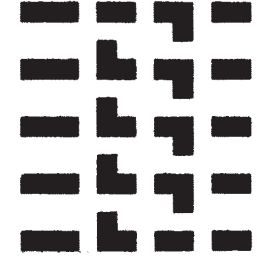
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Warp = BWW  
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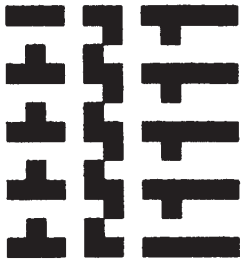
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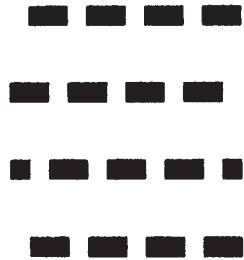
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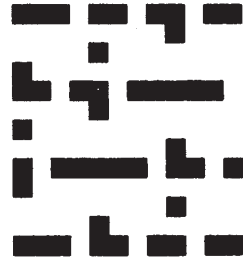
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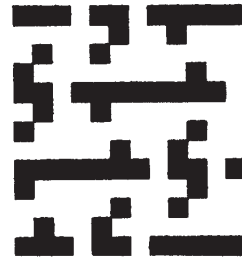
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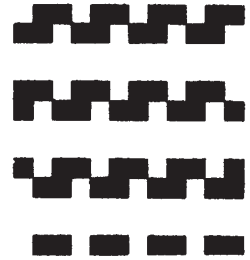
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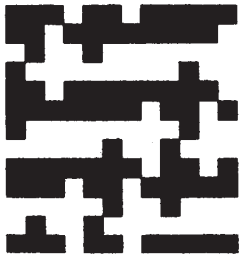
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Warp = BBWW  
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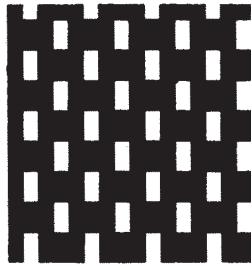


**Treadling Sequence 1234** (see photo p. 160)

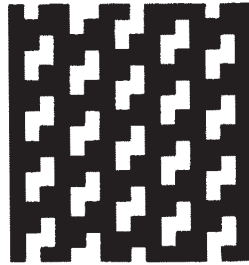
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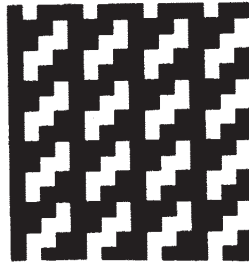
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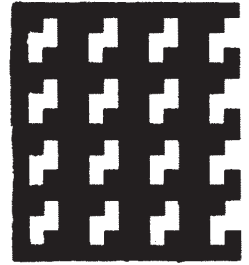
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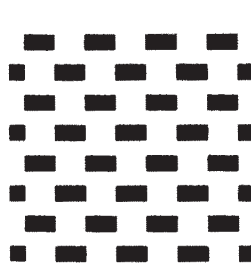
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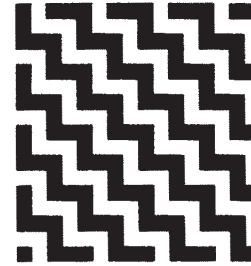
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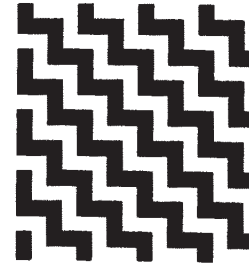
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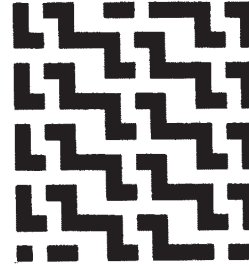
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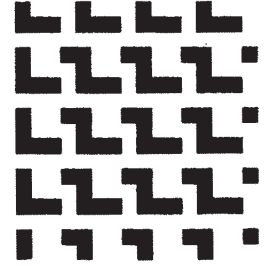
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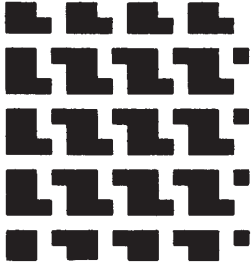


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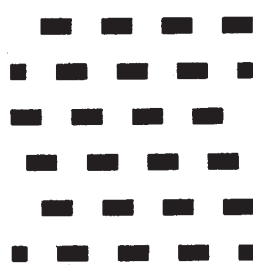


## Treading Sequence 1234

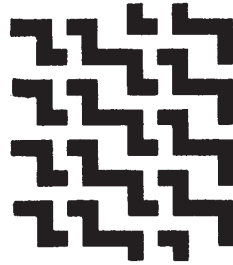
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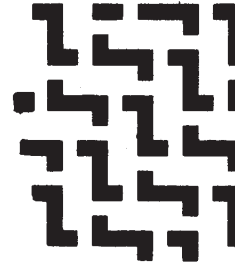
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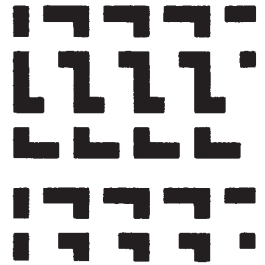
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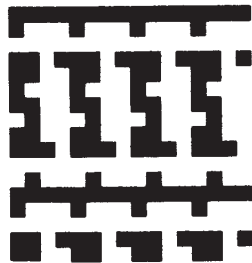
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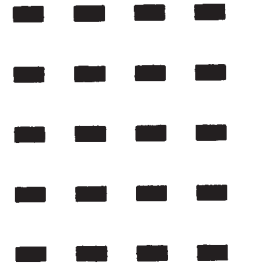
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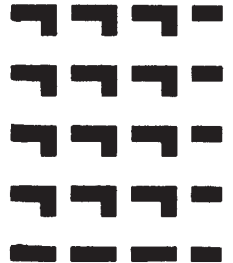
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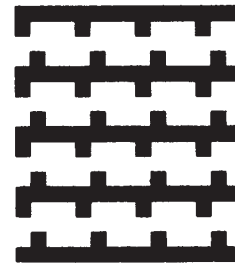
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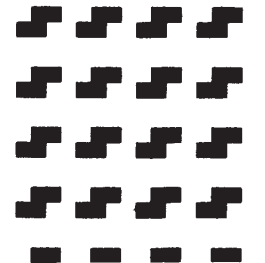
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Weft = BWWW



Warp # BBWW  
Weft = BWWW



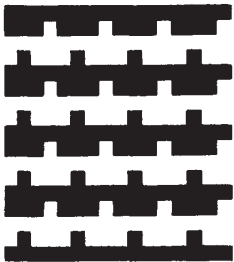
Warp = W  
Weft = BBWW



### Treading Sequence 1234

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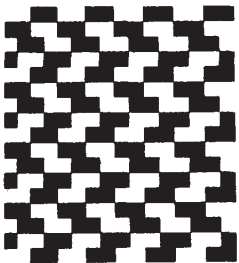
Warp = BBWW  
Weft = BBWW



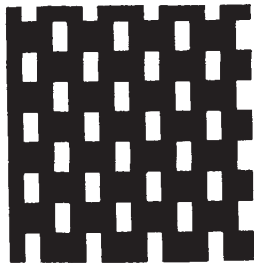
### Treading Sequence 1243 (see photo p. 161)

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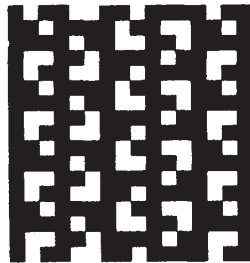
Warp = W  
Weft = B



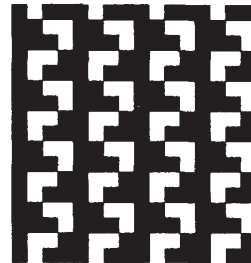
Warp = BW  
Weft = B



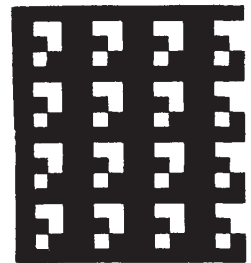
Warp = BWW  
Weft = B



Warp = BWWW  
Weft = B



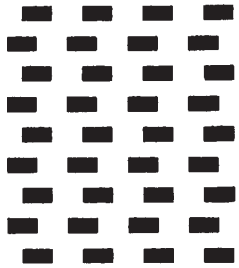
Warp = BBWW  
Weft = B



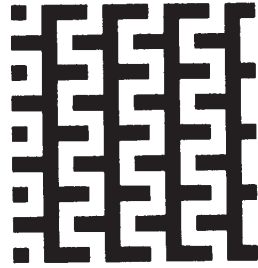


## Treading Sequence 1243

Warp = W  
Weft = BW



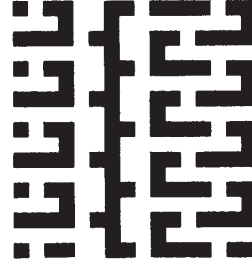
Warp = BW  
Weft = BW



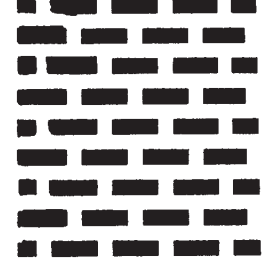
Warp = WB  
Weft = BW



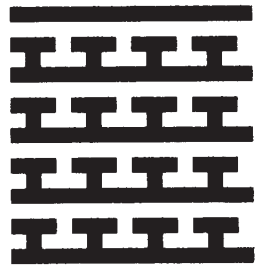
Warp = BWW  
Weft = BW



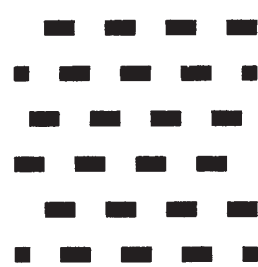
Warp = BWWW  
Weft = BW



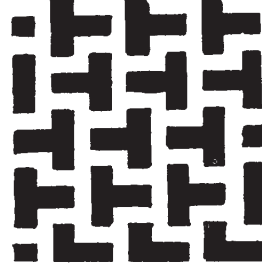
Warp = BBWW  
Weft = BW



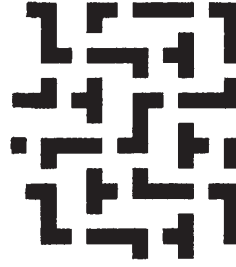
Warp = W  
Weft = BWW



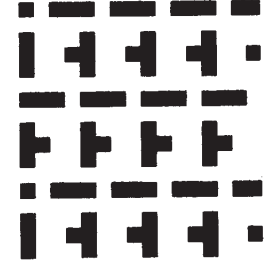
Warp = BW  
Weft = BWW



Warp = BWW  
Weft = BWW



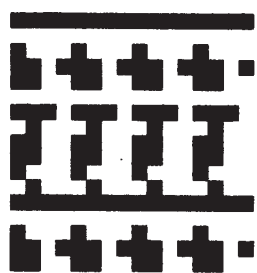
Warp = BWWW  
Weft = BWWW



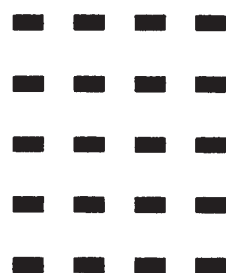
## Treading Sequence 1243

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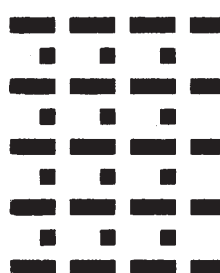
Warp = BBWW  
Weft = BWW



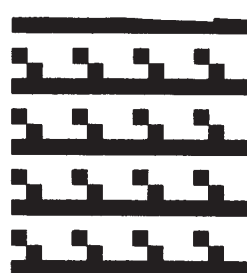
Warp = W  
Weft = BWWW



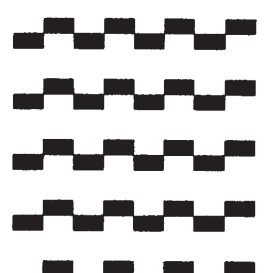
Warp = BWWW  
Weft = BWWW



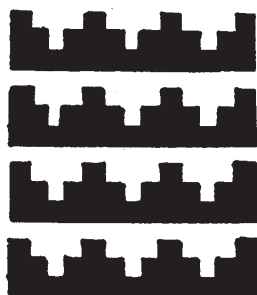
Warp = BBWW  
Weft = BWWW



Warp = W  
Weft = BBWW

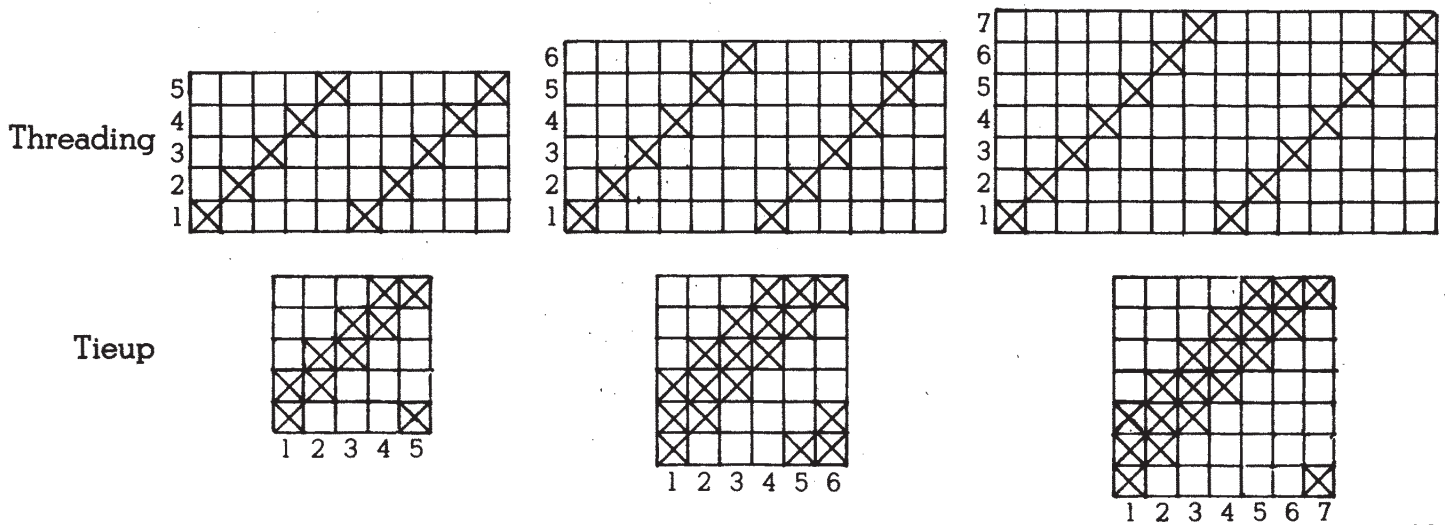


Warp = BBWW  
Weft = BBWW



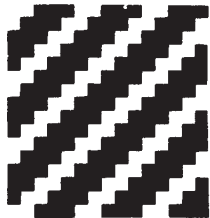
## 5-, 6- and 7-Harness Twills

The threadings and tieups that have been used for the computer printouts are given here.

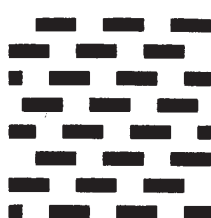


### Treadling Sequence 12345

Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB

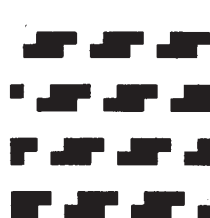
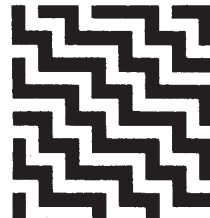


photo p. 162

Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

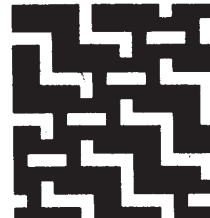
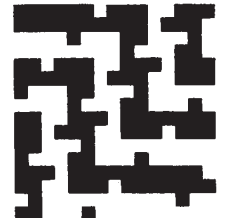


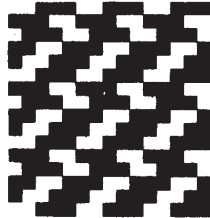
photo p. 162

Warp = BBWW  
Weft = BWWB

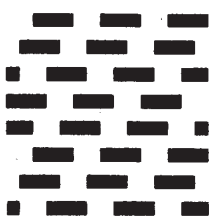


### Treadling Sequence 12354

Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB

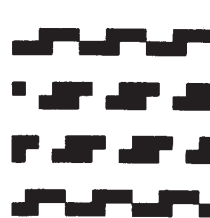
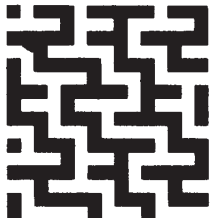


photo p. 163

Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

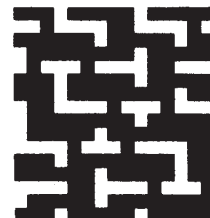
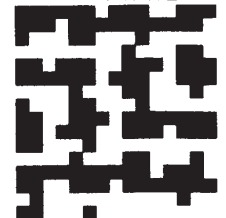


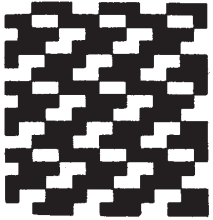
photo p. 163

Warp = BBWW  
Weft = BWWB

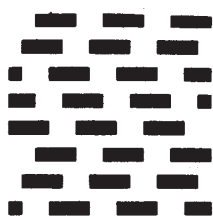


### Treadling Sequence 12453

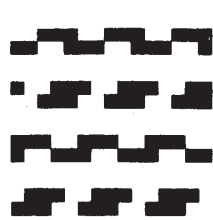
Warp = W  
Weft = B



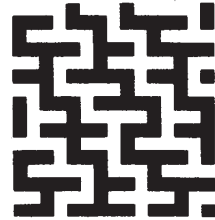
Warp = W  
Weft = BW



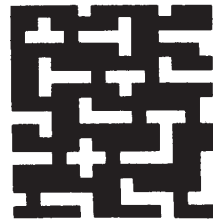
Warp = W  
Weft = BWWB



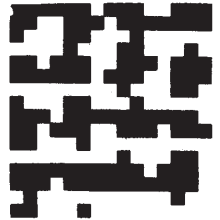
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

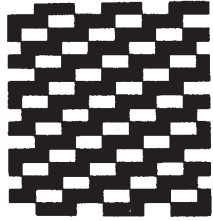


Warp = BBWW  
Weft = BWWB

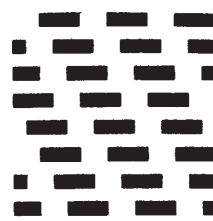


### Treadling Sequence 13524

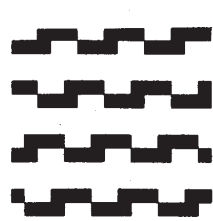
Warp = W  
Weft = B



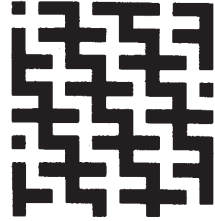
Warp = W  
Weft = BW



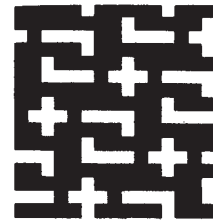
Warp = W  
Weft = BWWB



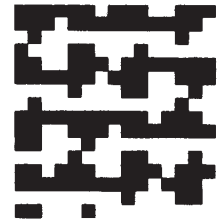
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

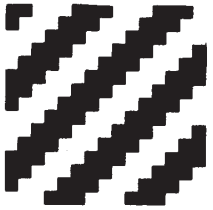


Warp = BBWW  
Weft = BWWB

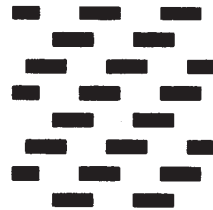


**Treadling Sequence 123456**

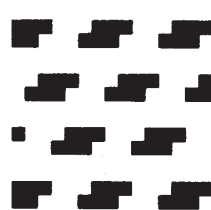
Warp = W  
Weft = B



Warp = W  
Weft = BW



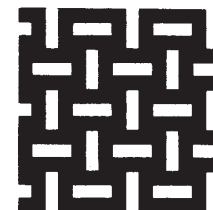
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

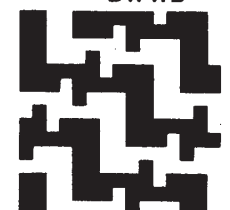
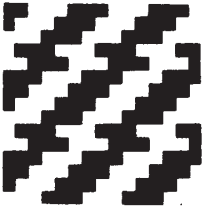


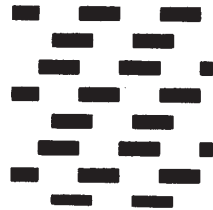
photo p. 164

**Treadling Sequence 123465**

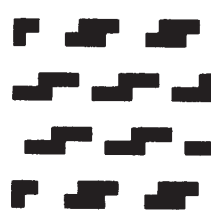
Warp = W  
Weft = B



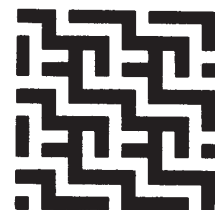
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



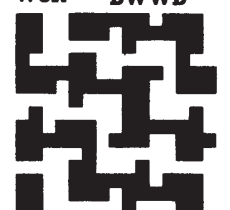
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

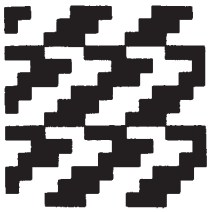


Warp = BBWW  
Weft = BWWB

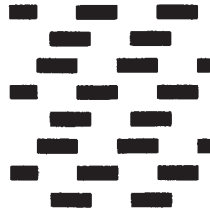


**Treadling Sequence 123564 (123645)**

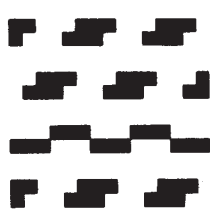
Warp = W  
Weft = B



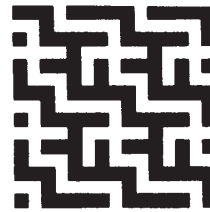
Warp = W  
Weft = BW



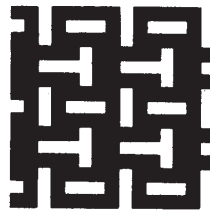
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

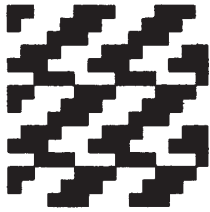


Warp = BBWW  
Weft = BWWB

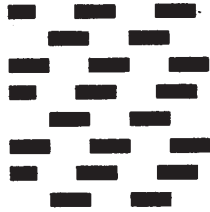


**Treadling Sequence 123645 (123564)**

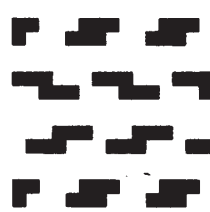
Warp = W  
Weft = B



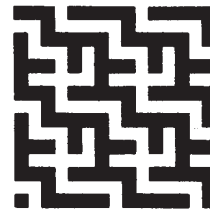
Warp = W  
Weft = BW



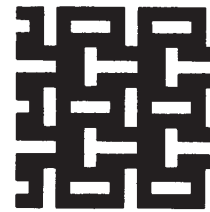
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

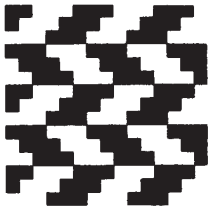


Warp = BBWW  
Weft = BWWB

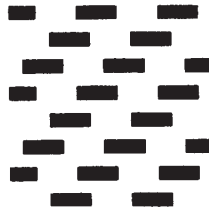


### Treadling Sequence 123654

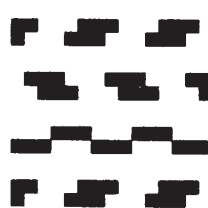
Warp = W  
Weft = B



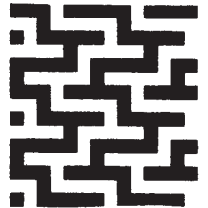
Warp = W  
Weft = BW



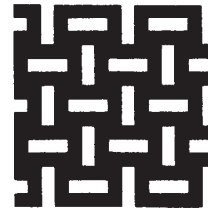
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



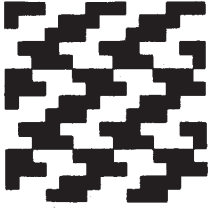
Warp = BBWW  
Weft = BWWB



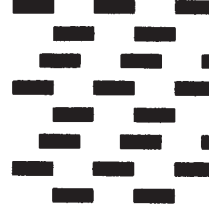
photo p. 164

### Treadling Sequence 124365

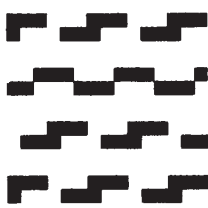
Warp = W  
Weft = B



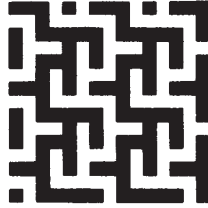
Warp = W  
Weft = BW



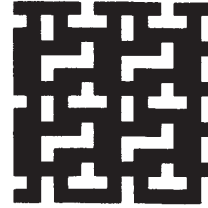
Warp = W  
Weft = BWWB



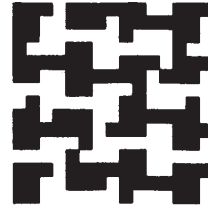
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



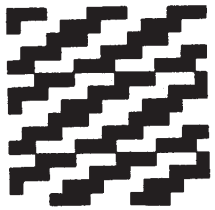
Warp = BBWW  
Weft = BWWB



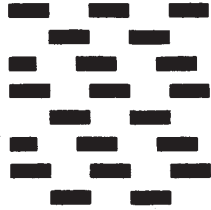


### Treadling Sequence 124635

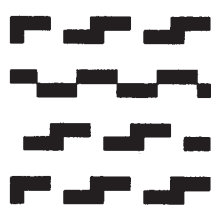
Warp = W  
Weft = B



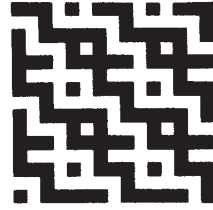
Warp = W  
Weft = BW



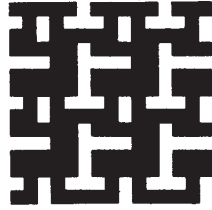
Warp = W  
Weft = BWWB



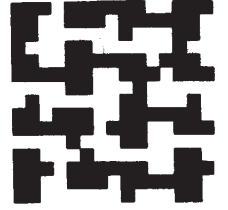
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

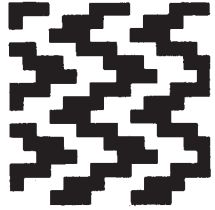


Warp = BBWW  
Weft = BWWB

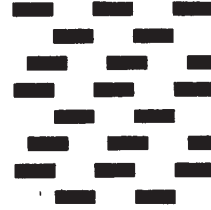


### Treadling Sequence 124653

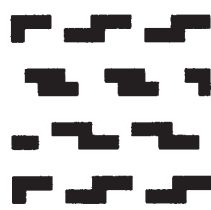
Warp = W  
Weft = B



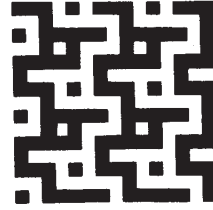
Warp = W  
Weft = BW



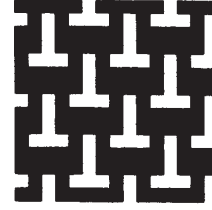
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

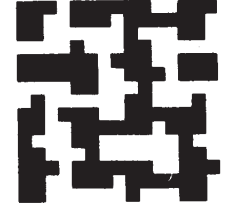
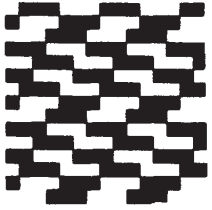


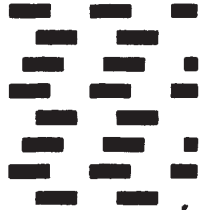
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### Treadling Sequence 125364

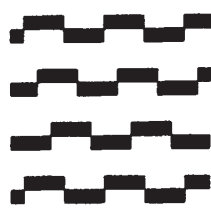
Warp = W  
Weft = B



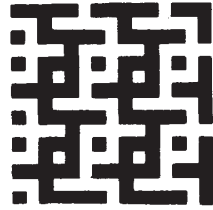
Warp = W  
Weft = BW



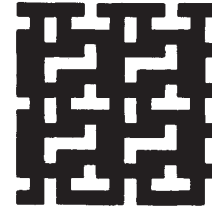
Warp = W  
Weft = BWWB



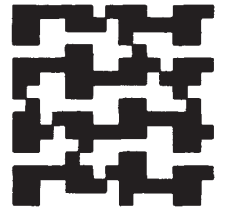
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

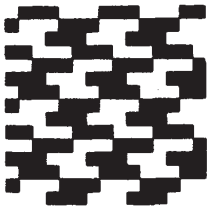


Warp = BBWW  
Weft = BWWB



### Treadling Sequence 125463 (126354)

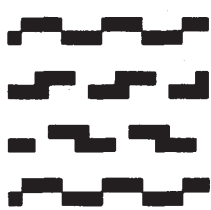
Warp = W  
Weft = B



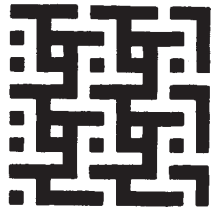
Warp = W  
Weft = BW



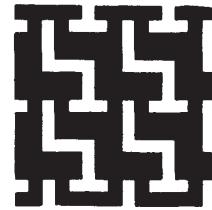
Warp = W  
Weft = BWWB



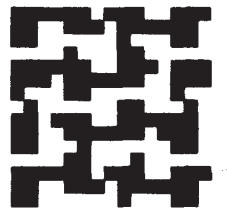
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

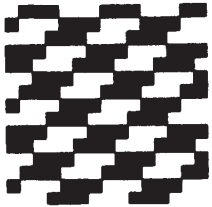


Warp = BBWW  
Weft = BWWB

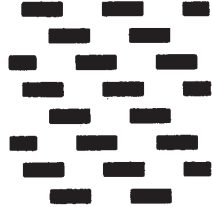


**Treadling Sequence 125634**

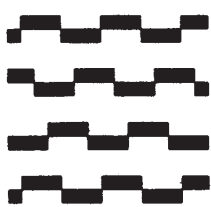
Warp = W  
Weft = B



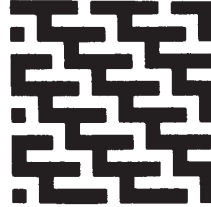
Warp = W  
Weft = BW



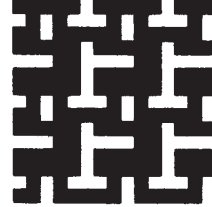
Warp = W  
Weft = BWWB



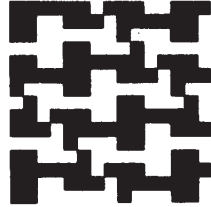
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

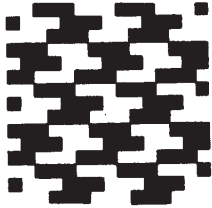


Warp = BBWW  
Weft = BWWB

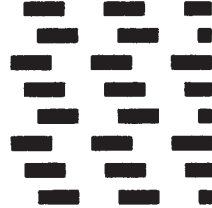


**Treadling Sequence 126354 (125463)**

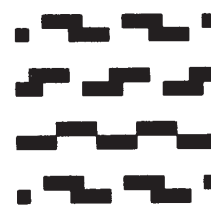
Warp = W  
Weft = B



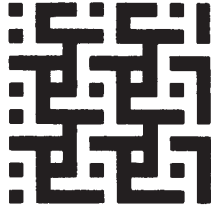
Warp = W  
Weft = BW



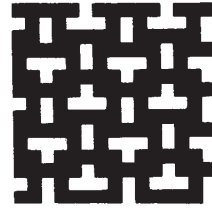
Warp = W  
Weft = BWWB



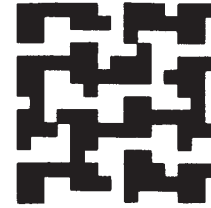
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

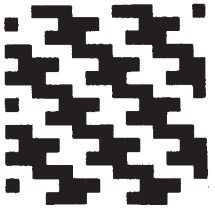


Warp = BBWW  
Weft = BWWB

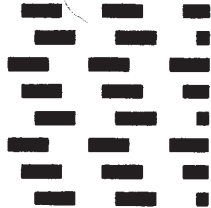


### Treadling Sequence 126453

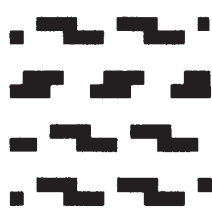
Warp = W  
Weft = B



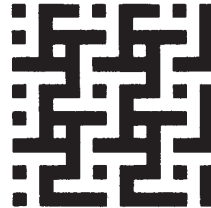
Warp = W  
Weft = BW



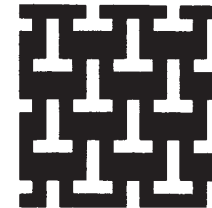
Warp = W  
Weft = BWWB



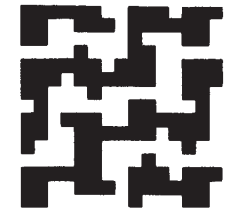
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

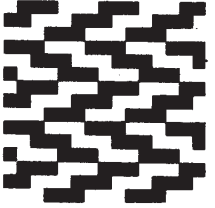


Warp = BBWW  
Weft = BWWB

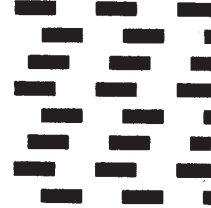


### Treadling Sequence 135264

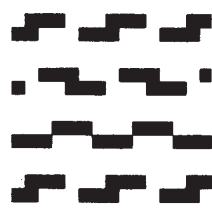
Warp = W  
Weft = B



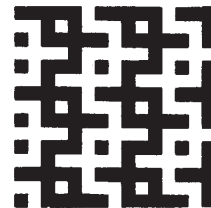
Warp = W  
Weft = BW



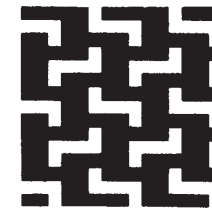
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

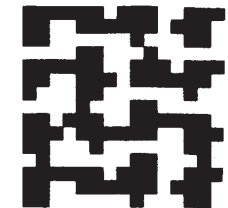
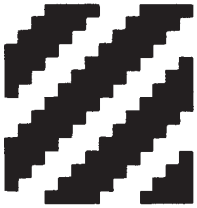


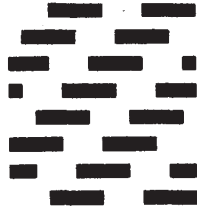
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**Treadling Sequence 1234567**

Warp = W  
Weft = B



Warp = W  
Weft = BW



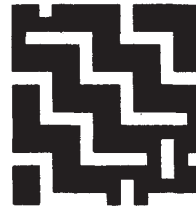
Warp = W  
Weft = BWWB



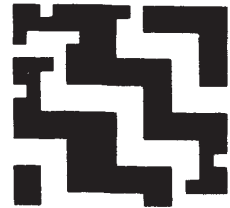
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1234576**

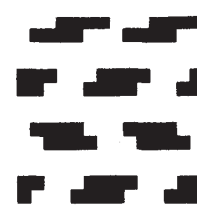
Warp = W  
Weft = B



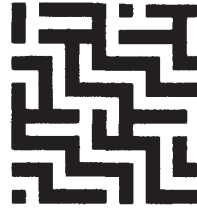
Warp = W  
Weft = BW



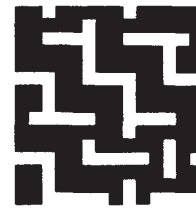
Warp = W  
Weft = BWWB



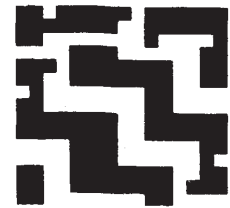
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1234675 (1234756)**

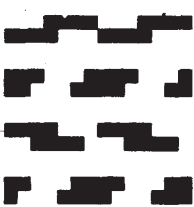
Warp = W  
Weft = B



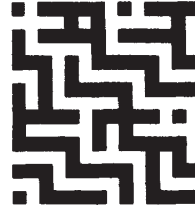
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

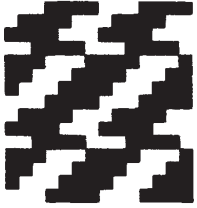


Warp = BBWW  
Weft = BWWB

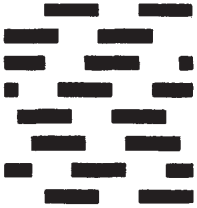


**Treadling Sequence 1234756 (1234675)**

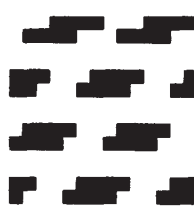
Warp = W  
Weft = B



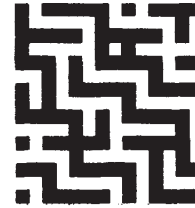
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

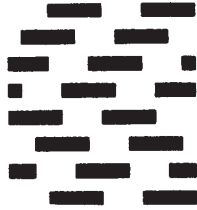


### Treadling Sequence 1234765

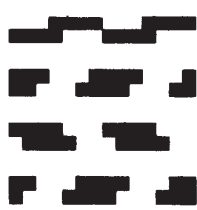
Warp = W  
Weft = B



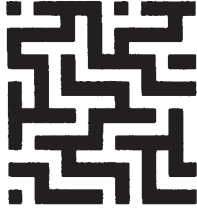
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

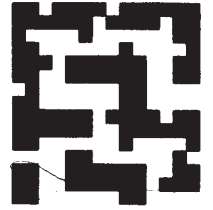


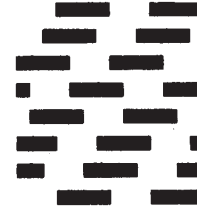
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### Treadling Sequence 1235476

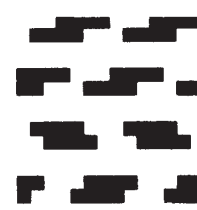
Warp = W  
Weft = B



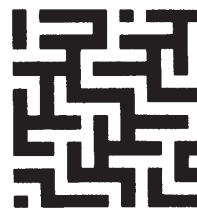
Warp = W  
Weft = BW



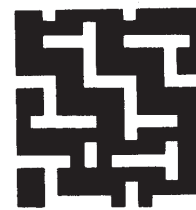
Warp = W  
Weft = BWWB



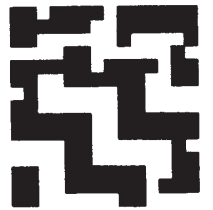
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

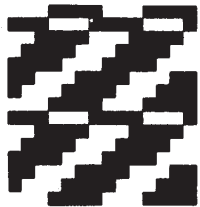


Warp = BBWW  
Weft = BWWB

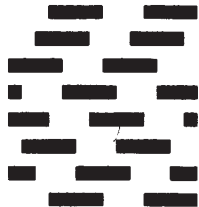


**Treadling Sequence 1235674**

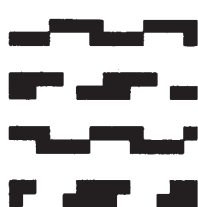
Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

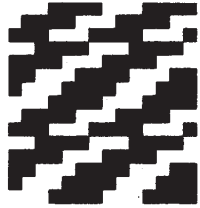


Warp = BBWW  
Weft = BWWB

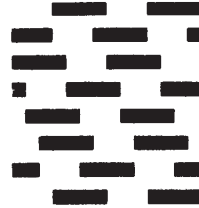


**Treadling Sequence 1235746**

Warp = W  
Weft = B



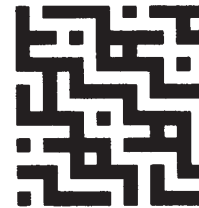
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

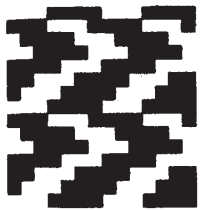


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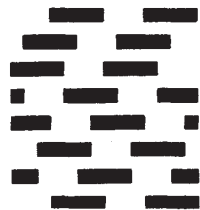


**Treadling Sequence 1235764 (1237546)**

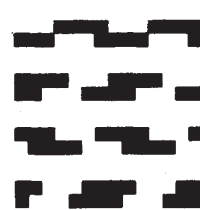
Warp = W  
Weft = B



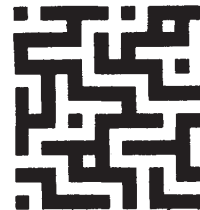
Warp = W  
Weft = BW



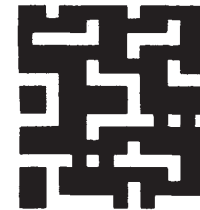
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

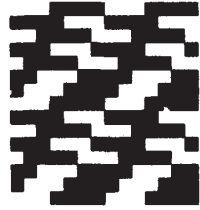


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1236475**

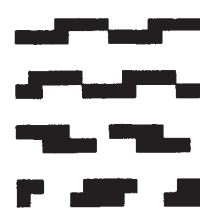
Warp = W  
Weft = B



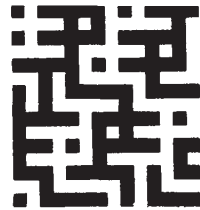
Warp = W  
Weft = BW



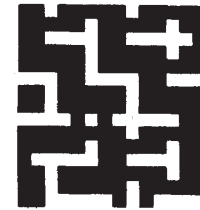
Warp = W  
Weft = BWWB



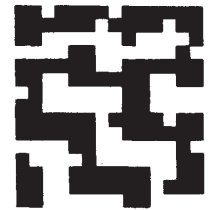
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



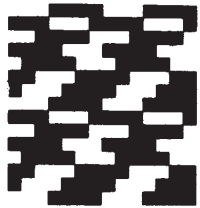
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1236574 (1237465)**

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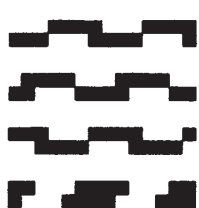
**Warp = W  
Weft = B**



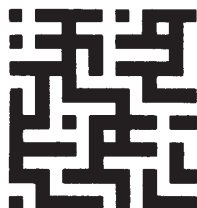
**Warp = W  
Weft = BW**



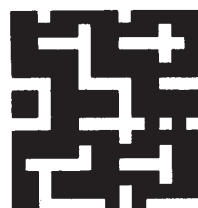
**Warp = W  
Weft = BWWB**



**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**



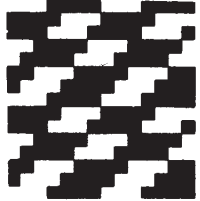
**Warp = BBWW  
Weft = BWWB**



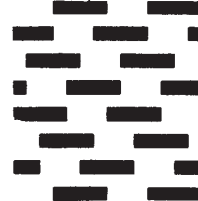
**Treadling Sequence 1236745**

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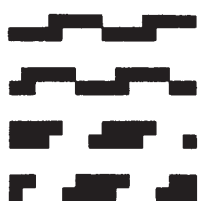
**Warp = W  
Weft = B**



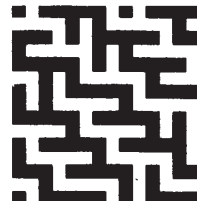
**Warp = W  
Weft = BW**



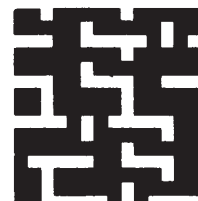
**Warp = W  
Weft = BWWB**



**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**



**Warp = BBWW  
Weft = BWWB**

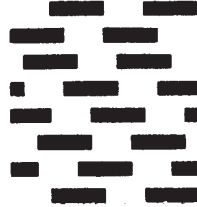


**Treading Sequence 1236754**

Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB

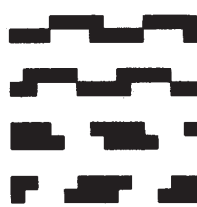
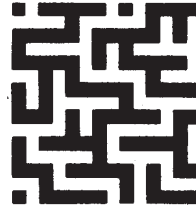


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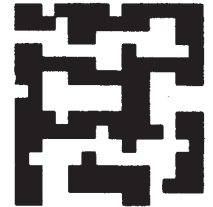
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

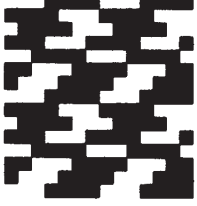


Warp = BBWW  
Weft = BWWB



**Treading Sequence 1237465 (1236574)**

Warp = W  
Weft = B



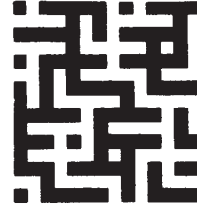
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



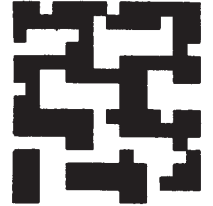
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



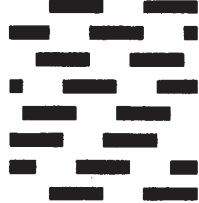
**Treadling Sequence 1237546 (1235764)**

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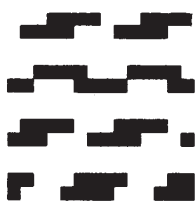
Warp = W  
Weft = B



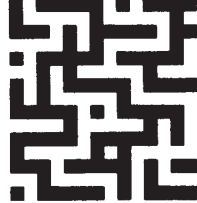
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



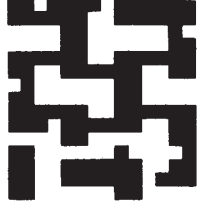
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



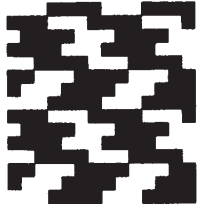
Warp = BBWW  
Weft = BWWB



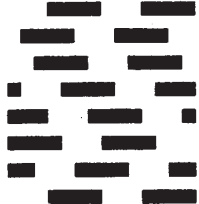
**Treadling Sequence 1237564** ✓

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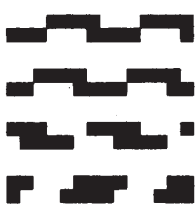
Warp = W  
Weft = B



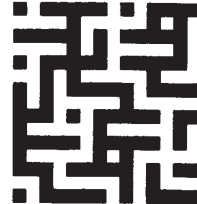
Warp = W  
Weft = BW



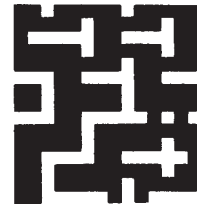
Warp = W  
Weft = BWWB



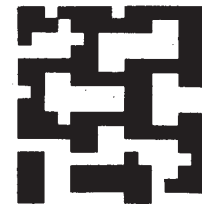
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

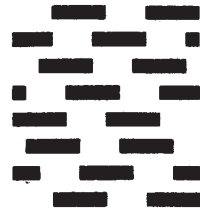


**Treadingling Sequence 1237645 (1236754)**

Warp = W  
Weft = B



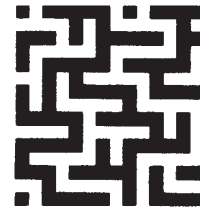
Warp = W  
Weft = BW



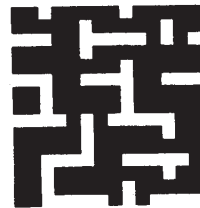
Warp = W  
Weft = BWWB



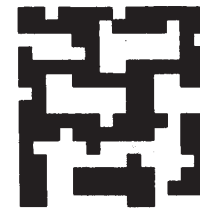
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1243576**

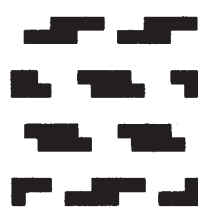
Warp = W  
Weft = B



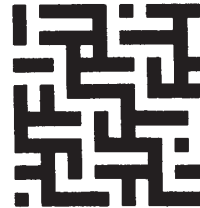
Warp = W  
Weft = BW



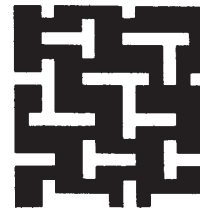
Warp = W  
Weft = BWWB



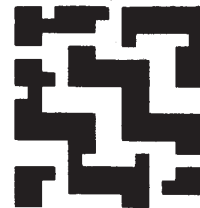
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

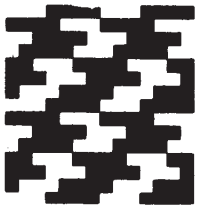


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1243675 (1253476)**

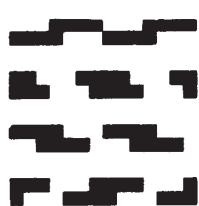
**Warp = W  
Weft = B**



**Warp = W  
Weft = BW**



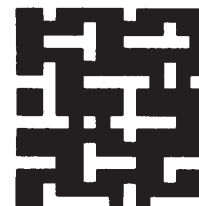
**Warp = W  
Weft = BWWB**



**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**

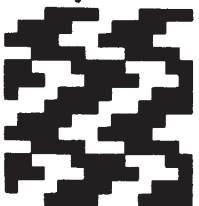


**Warp = BBWW  
Weft = BWWB**

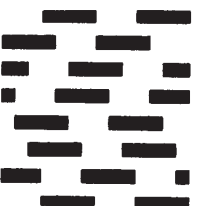


**Treadling Sequence 1243756**

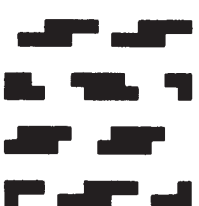
**Warp = W  
Weft = B**



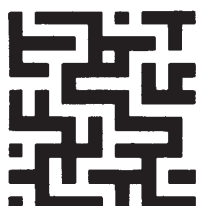
**Warp = W  
Weft = BW**



**Warp = W  
Weft = BWWB**



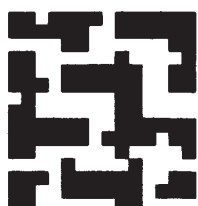
**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**



**Warp = BBWW  
Weft = BWWB**

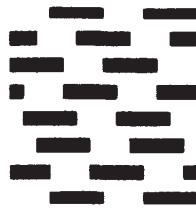


**Treadling Sequence 1245736**

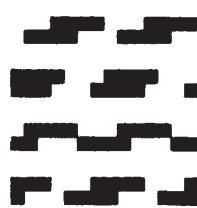
Warp = W  
Weft = B



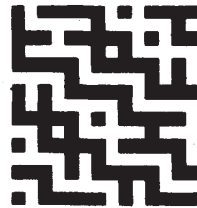
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



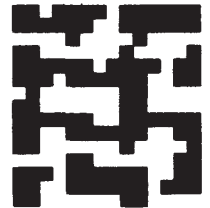
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

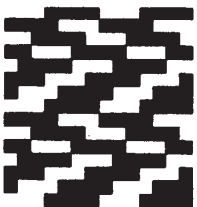


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1246375**

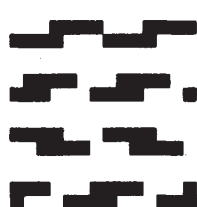
Warp = W  
Weft = B



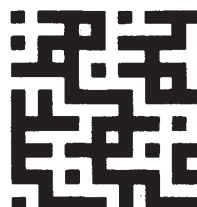
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



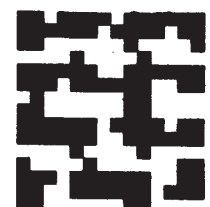
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

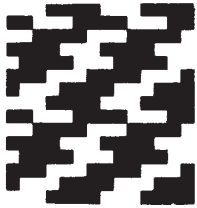


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1246573 (1273546)**

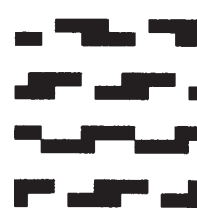
Warp = W  
Weft = B



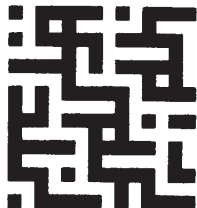
Warp = W  
Weft = BW



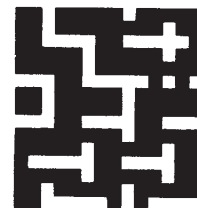
Warp = W  
Weft = BWWB



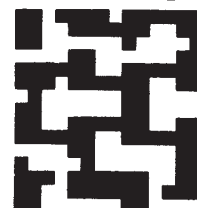
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

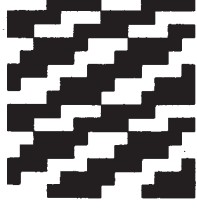


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1246735**

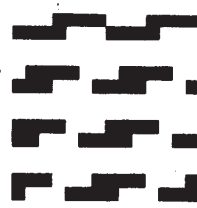
Warp = W  
Weft = B



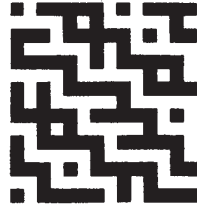
Warp = W  
Weft = BW



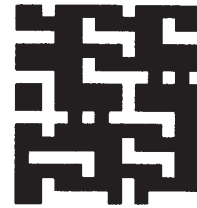
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



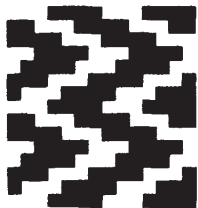
Warp = BBWW  
Weft = BWWB





**Treading Sequence 1246753**

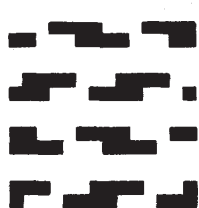
Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



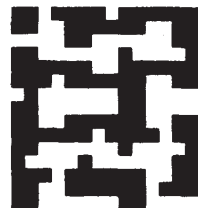
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

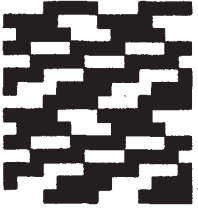


Warp = BBWW  
Weft = BWWB

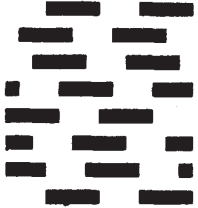


**Treading Sequence 1247365 (1254736)**

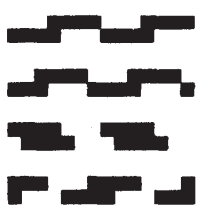
Warp = W  
Weft = B



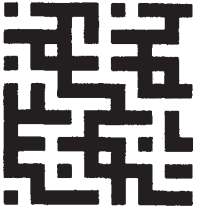
Warp = W  
Weft = BW



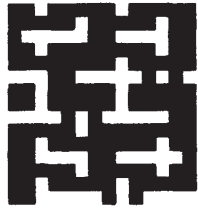
Warp = W  
Weft = BWWB



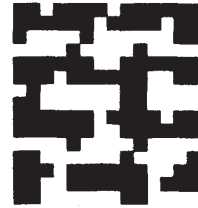
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

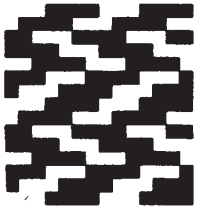


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1247536**

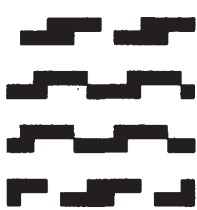
Warp = W  
Weft = B



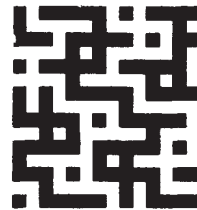
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



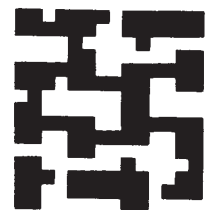
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

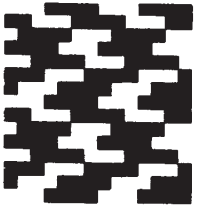


Warp = BBWW  
Weft = BWWB

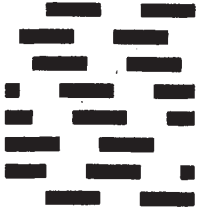


**Treadling Sequence 1247563 (1273564)**

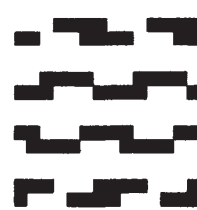
Warp = W  
Weft = B



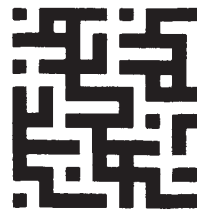
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



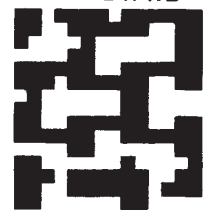
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



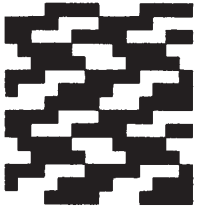
Warp = BBWW  
Weft = BWWB



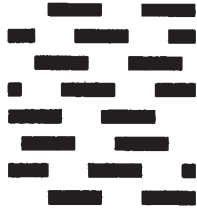
**Treadling Sequence 1247635 (1253764)**

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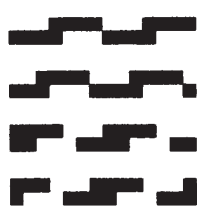
Warp = W  
Weft = B



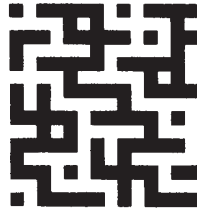
Warp = W  
Weft = BW



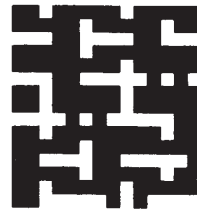
Warp = W  
Weft = BWWB



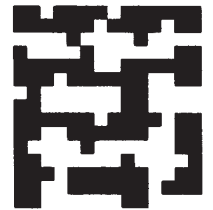
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



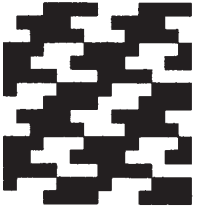
Warp = BBWW  
Weft = BWWB



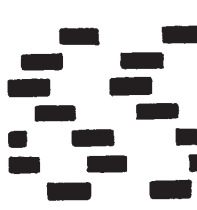
**Treadling Sequence 1253476 (1243675)**

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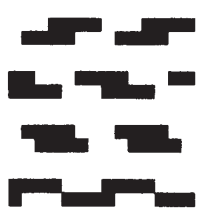
Warp = W  
Weft = B



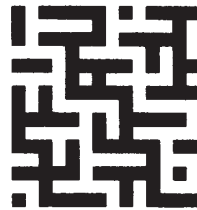
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



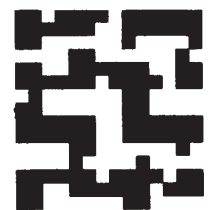
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



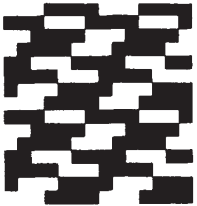
Warp = BBWW  
Weft = BWWB



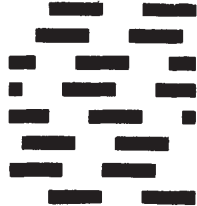
### Treadling Sequence 1253674

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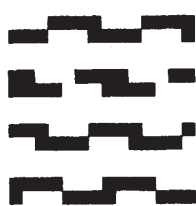
Warp = W  
Weft = B



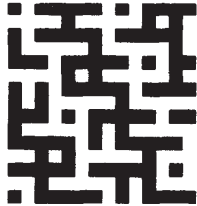
Warp = W  
Weft = BW



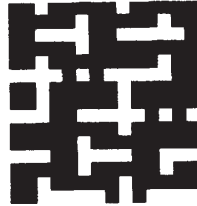
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



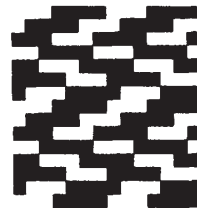
Warp = BBWW  
Weft = BWWB



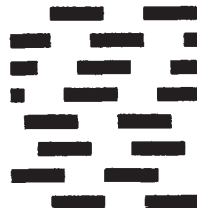
### Treadling Sequence 1253746 (1246375)

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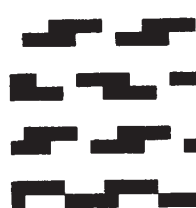
Warp = W  
Weft = B



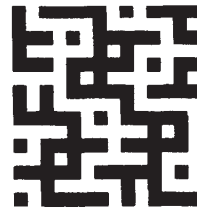
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treading Sequence 1253764 (1247635)**

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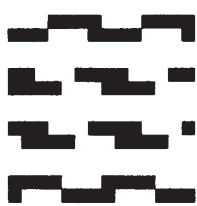
Warp = W  
Weft = B



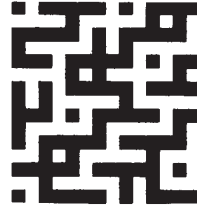
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



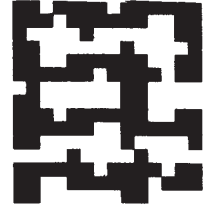
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



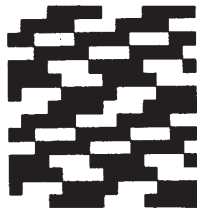
Warp = BBWW  
Weft = BWWB



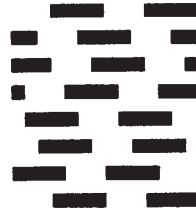
**Treading Sequence 1254736 (1247365)**

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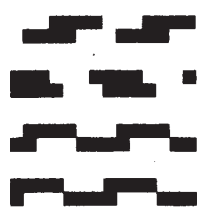
Warp = W  
Weft = B



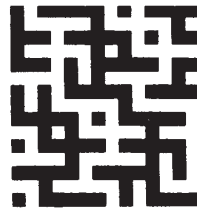
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



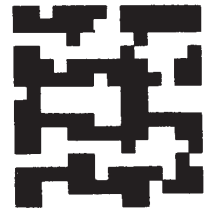
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



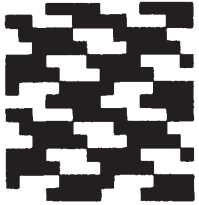
Warp = BBWW  
Weft = BWWB



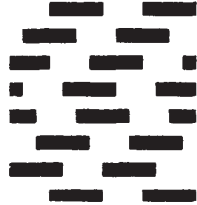
**Treadling Sequence 1254763 (1257634)**

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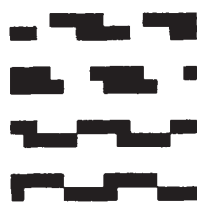
Warp = W  
Weft = B



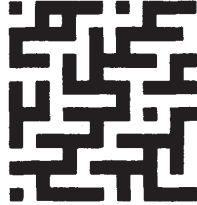
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



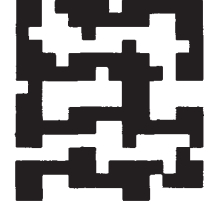
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



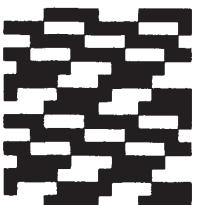
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1256374**

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Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



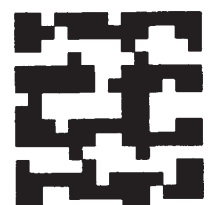
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

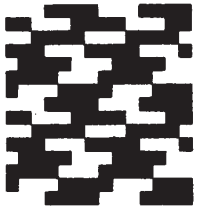


Warp = BBWW  
Weft = BWWB

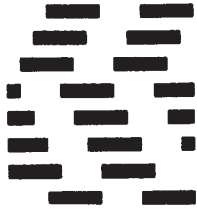


**Treading Sequence 1256473**

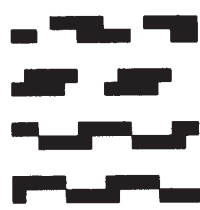
Warp = W  
Weft = B



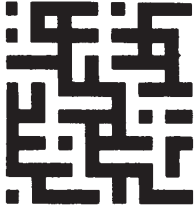
Warp = W  
Weft = BW



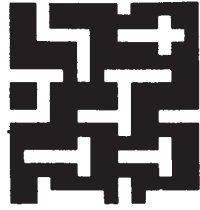
Warp = W  
Weft = BWWB



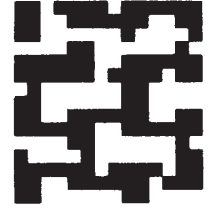
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

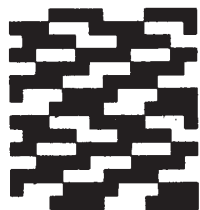


Warp = BBWW  
Weft = BWWB

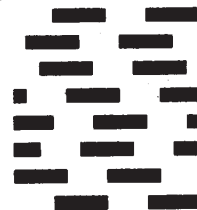


**Treadling Sequence 1257364 (1264735)**

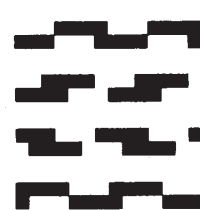
Warp = W  
Weft = B



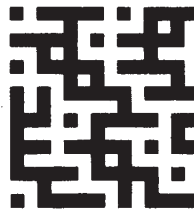
Warp = W  
Weft = BW



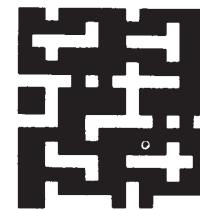
Warp = W  
Weft = BWWB



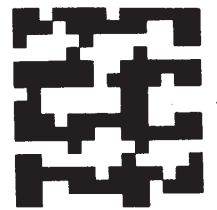
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

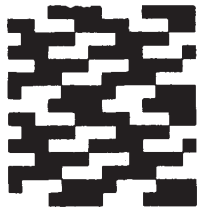


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1257463 (1274635)**

Warp = W  
Weft = B



Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

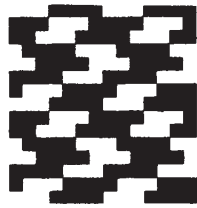


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1257634 (1254763)**

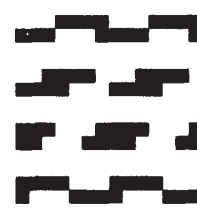
Warp = W  
Weft = B



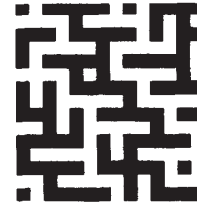
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



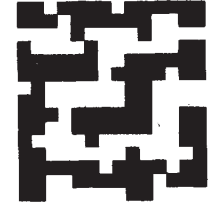
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



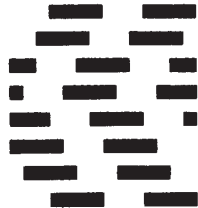


**Treadling Sequence 1263574**

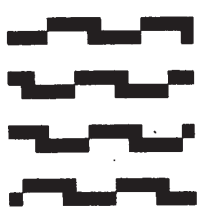
Warp = W  
Weft = B



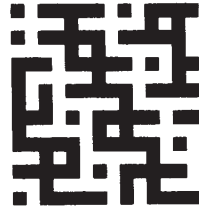
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



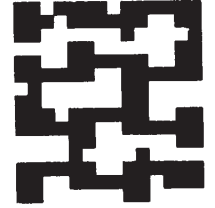
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

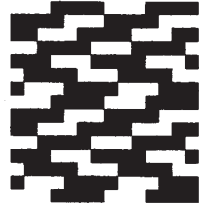


Warp = BBWW  
Weft = BWWB

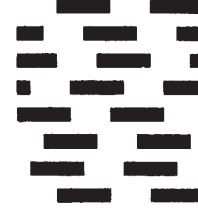


**Treadling Sequence 1264735 (1257364)**

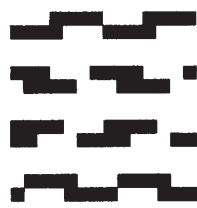
Warp = W  
Weft = B



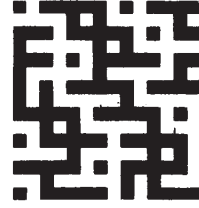
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



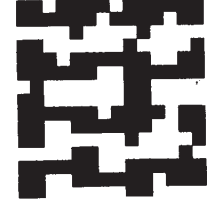
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

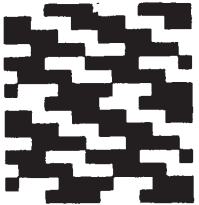


Warp = BBWW  
Weft = BWWB

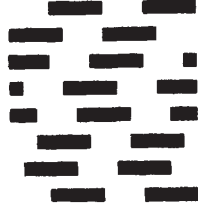


**Treadling Sequence 1264753 (1275364)**

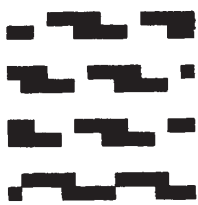
Warp = W  
Weft = B



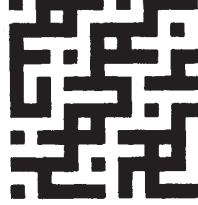
Warp = W  
Weft = BW



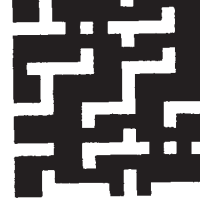
Warp = W  
Weft = BWWB



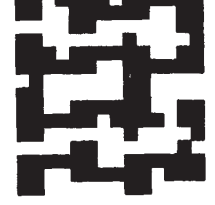
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

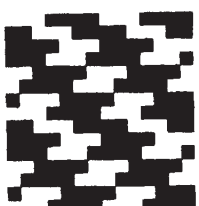


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1267453**

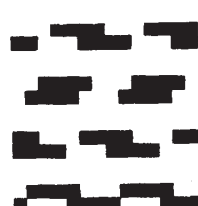
Warp = W  
Weft = B



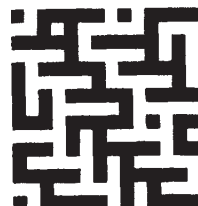
Warp = W  
Weft = BW



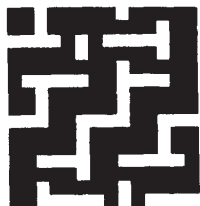
Warp = W  
Weft = BWWB



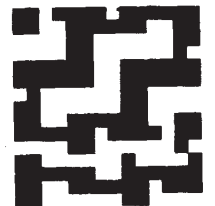
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

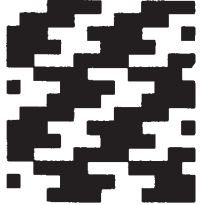


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1273546 (1246573)**

**Warp = W  
Weft = B**



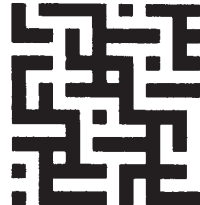
**Warp = W  
Weft = BW**



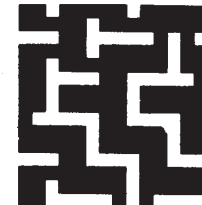
**Warp = W  
Weft = BWWB**



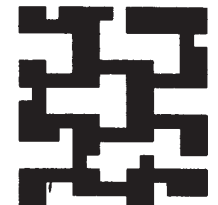
**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**

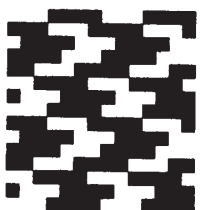


**Warp = BBWW  
Weft = BWWB**

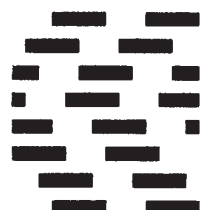


**Treadling Sequence 1273564 (1247563)**

**Warp = W  
Weft = B**



**Warp = W  
Weft = BW**



**Warp = W  
Weft = BWWB**



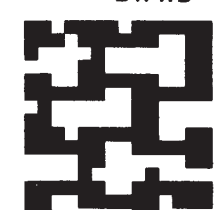
**Warp = BW  
Weft = BW**



**Warp = BBW  
Weft = BBW**



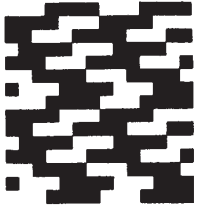
**Warp = BBWW  
Weft = BWWB**



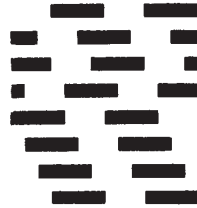
**Treadingling Sequence 1274635 (1257463)**

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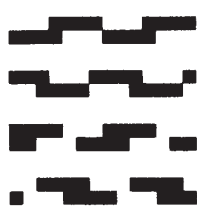
Warp = W  
Weft = B



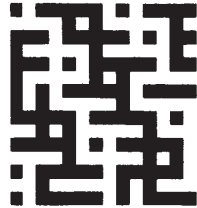
Warp = W  
Weft = BW



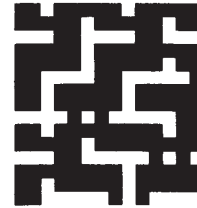
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



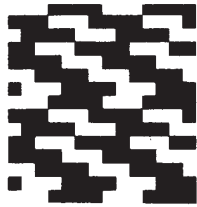
Warp = BBWW  
Weft = BWWB



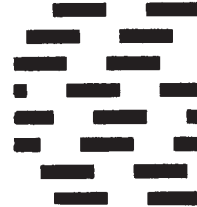
**Treadingling Sequence 1275364 (1264753)**

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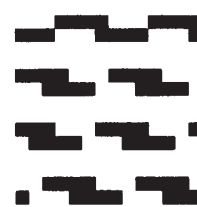
Warp = W  
Weft = B



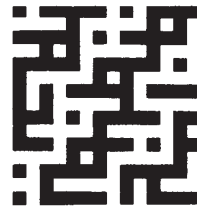
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

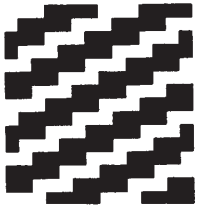


Warp = BBWW  
Weft = BWWB

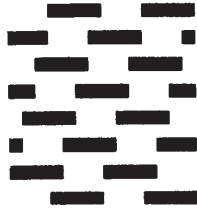


**Treadingling Sequence 1357246**

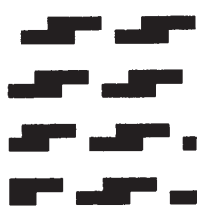
Warp = W  
Weft = B



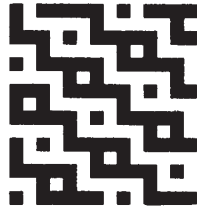
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

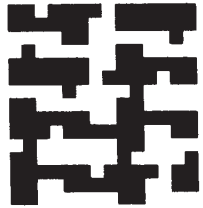
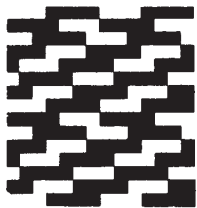


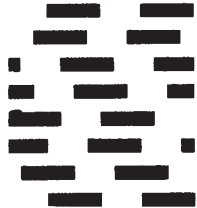
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**Treadingling Sequence 1362475**

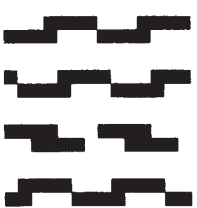
Warp = W  
Weft = B



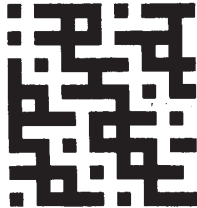
Warp = W  
Weft = BW



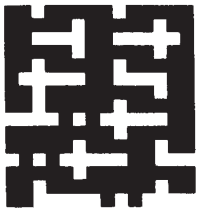
Warp = W  
Weft = BWWB



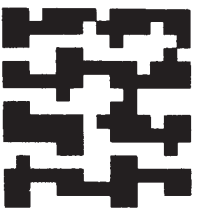
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

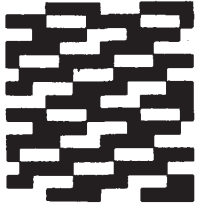


Warp = BBWW  
Weft = BWWB

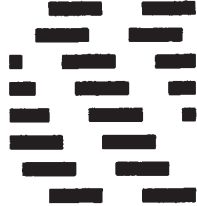


**Treadling Sequence 1362574**

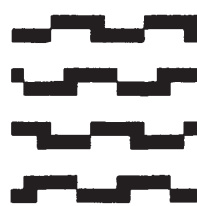
Warp = W  
Weft = B



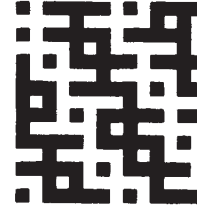
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



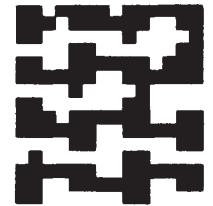
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

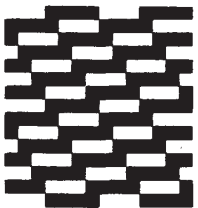


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 1473625**

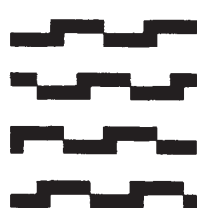
Warp = W  
Weft = B



Warp = W  
Weft = BW



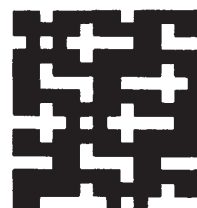
Warp = W  
Weft = BWWB



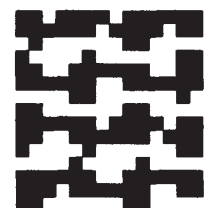
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



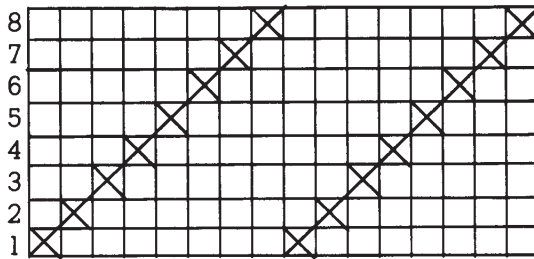
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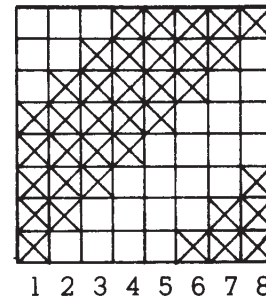
## 8-Harness Twills

The threading and tieup that has been used for the computer printouts is given here.

Threading

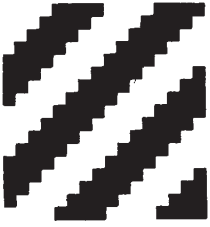


Tieup

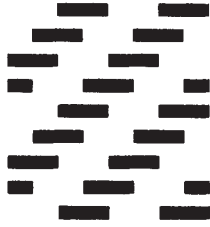


### Treadling Sequence 12345678

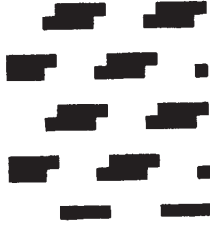
Warp = W  
Weft = B



Warp = W  
Weft = BW



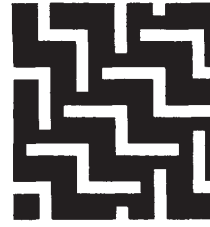
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

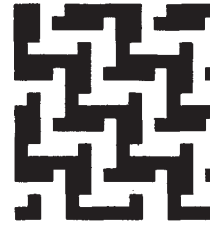
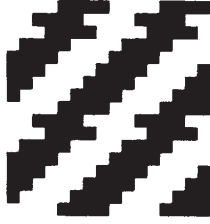


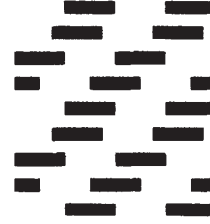
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### Treadling Sequence 12345687

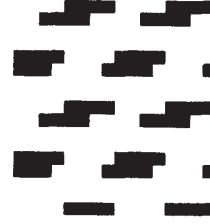
Warp = W  
Weft = B



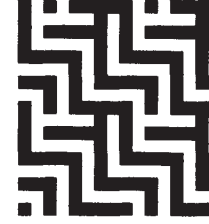
Warp = W  
Weft = BW



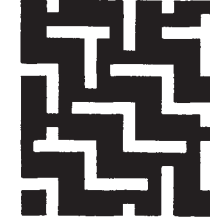
Warp = W  
Weft = BWWB



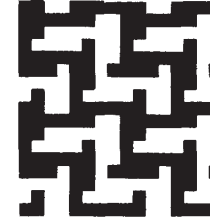
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



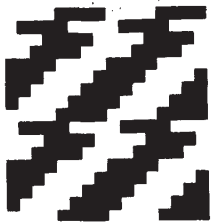
Warp = BBWW  
Weft = BWWB





**Treadling Sequence 12345786 (12345867)**

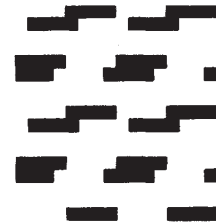
Warp = W  
Weft = B



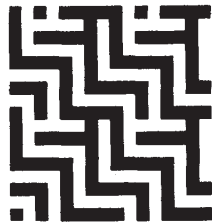
Warp = W  
Weft = BW



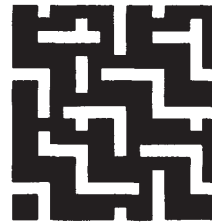
Warp = W  
Weft = BWWB



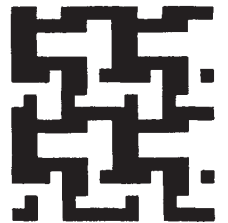
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

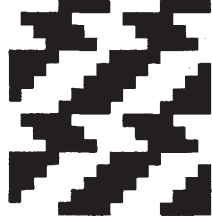


Warp = BBWW  
Weft = BWWB

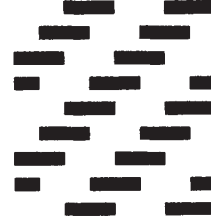


**Treadling Sequence 12345876**

Warp = W  
Weft = B



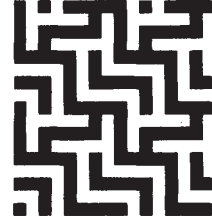
Warp = W  
Weft = BW



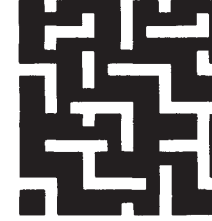
Warp = W  
Weft = BWWB



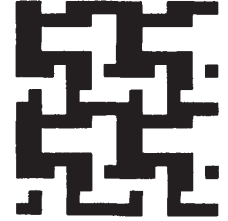
Warp = BW  
Weft = BW



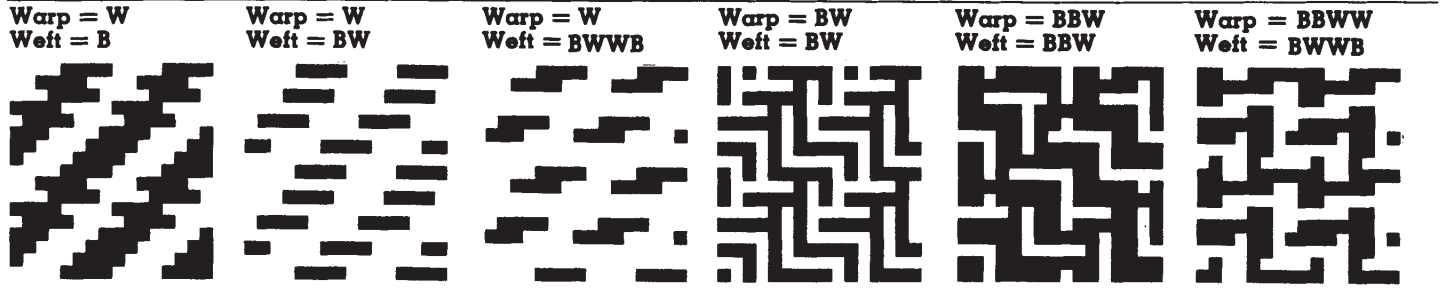
Warp = BBW  
Weft = BBW



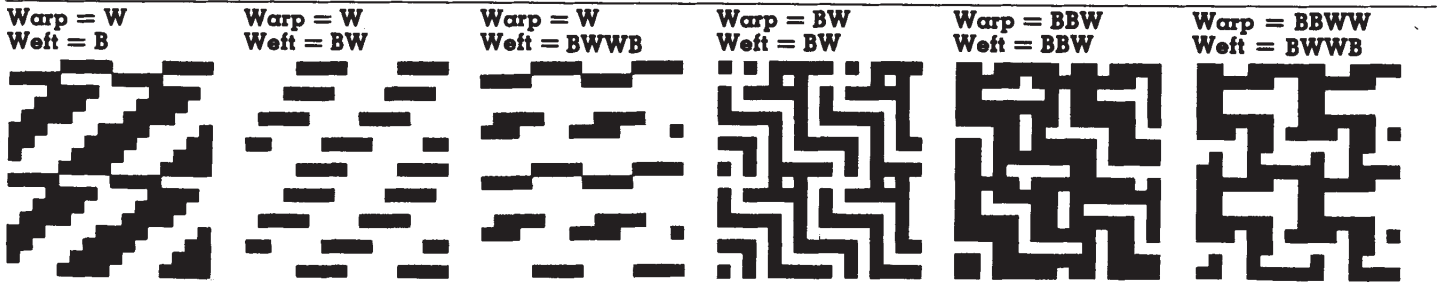
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12346587**



**Treadling Sequence 12346785 (12348567)**



**Treadling Sequence 12346857**

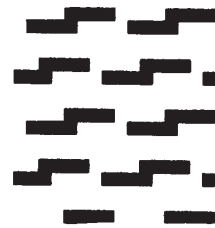
Warp = W  
Weft = B



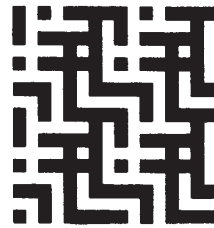
Warp = W  
Weft = BW



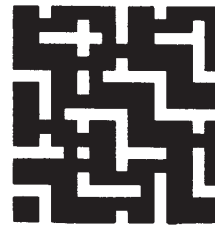
Warp = W  
Weft = BWWB



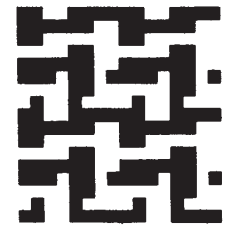
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

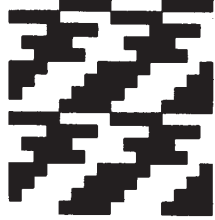


Warp = BBWW  
Weft = BWWB

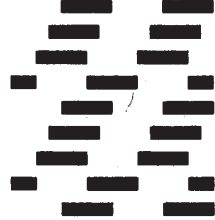


**Treadling Sequence 12346875 (12348657)**

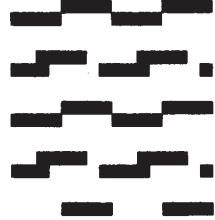
Warp = W  
Weft = B



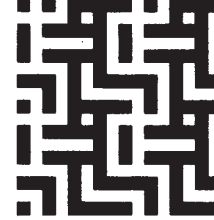
Warp = W  
Weft = BW



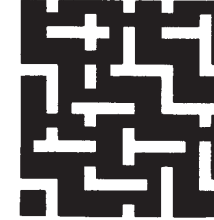
Warp = W  
Weft = BWWB



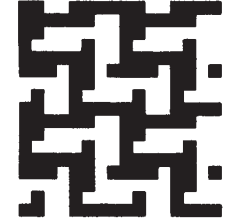
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

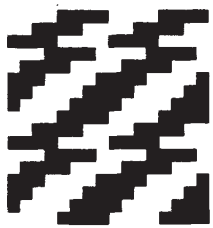


Warp = BBWW  
Weft = BWWB

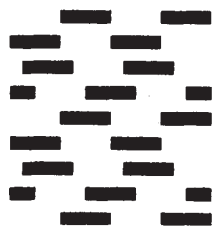


**Treading Sequence 12347586**

Warp = W  
Weft = B



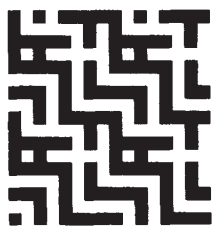
Warp = W  
Weft = BW



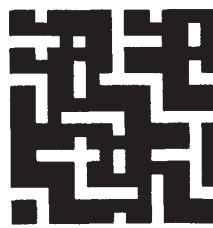
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

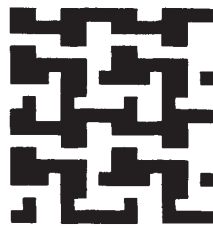


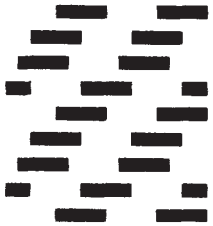
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**Treading Sequence 12347685 (12348576)**

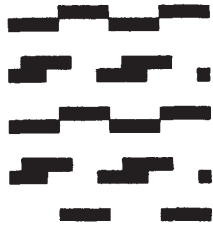
Warp = W  
Weft = B



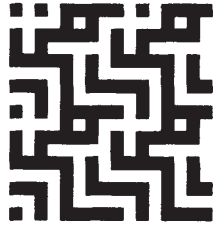
Warp = W  
Weft = BW



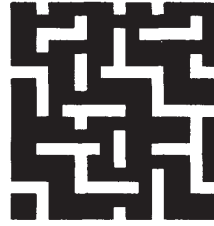
Warp = W  
Weft = BWWB



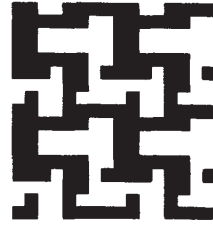
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

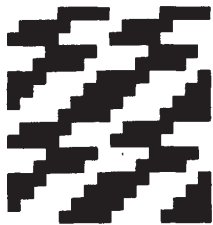


Warp = BBWW  
Weft = BWWB

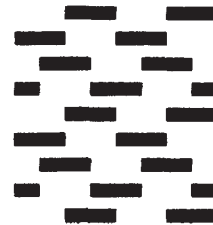


**Treadling Sequence 12347856**

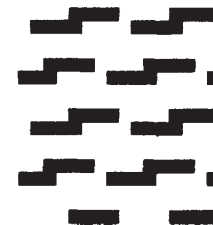
Warp = W  
Weft = B



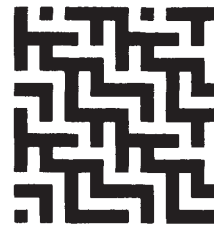
Warp = W  
Weft = BW



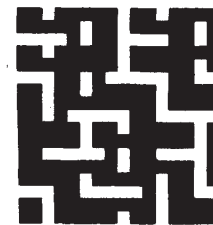
Warp = W  
Weft = BWWB



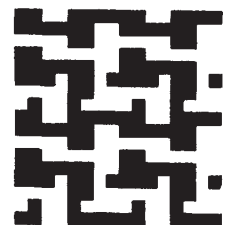
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

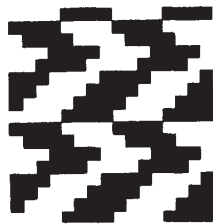


Warp = BBWW  
Weft = BWWB

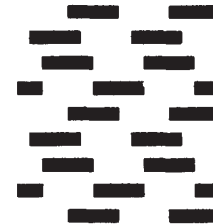


**Treadling Sequence 12347865 (12348756)**

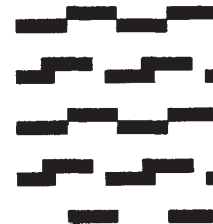
Warp = W  
Weft = B



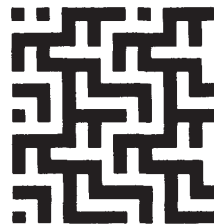
Warp = W  
Weft = BW



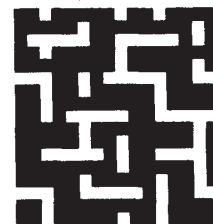
Warp = W  
Weft = BWWB



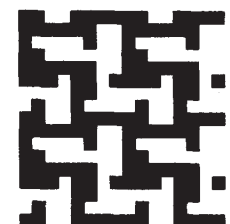
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

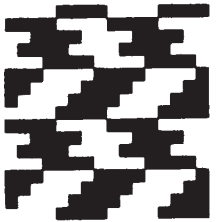


Warp = BBWW  
Weft = BWWB

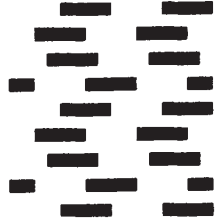


### Treading Sequence 12348675

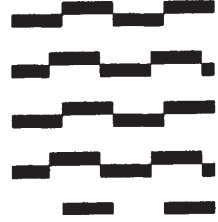
Warp = W  
Weft = B



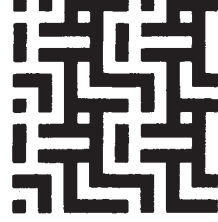
Warp = W  
Weft = BW



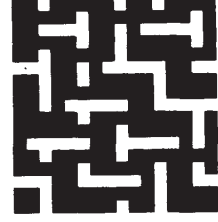
Warp = W  
Weft = BWWB



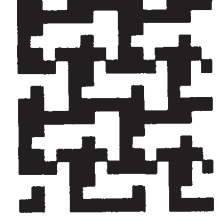
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

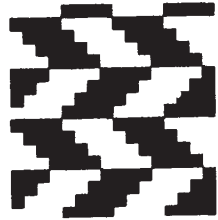


Warp = BBWW  
Weft = BWWB

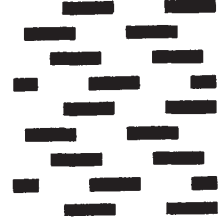


### Treading Sequence 12348765

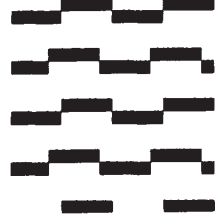
Warp = W  
Weft = B



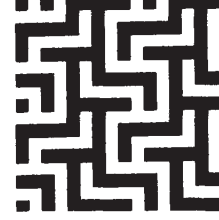
Warp = W  
Weft = BW



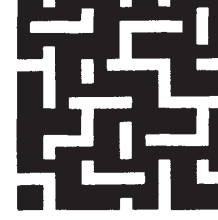
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

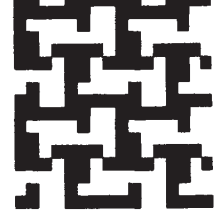
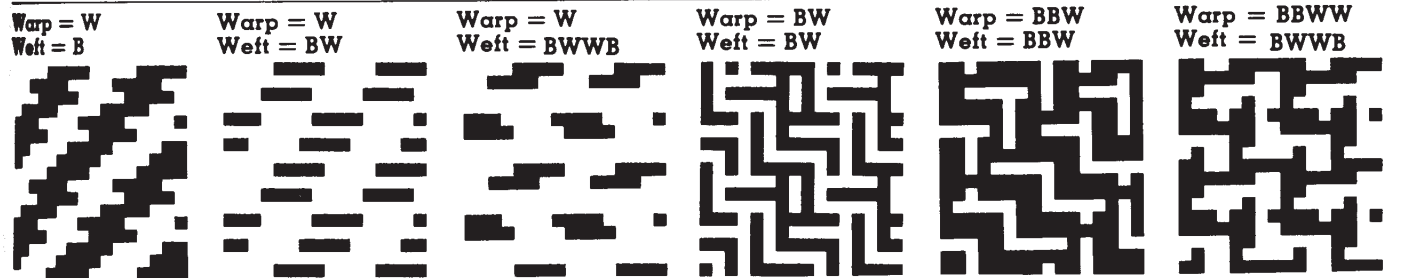
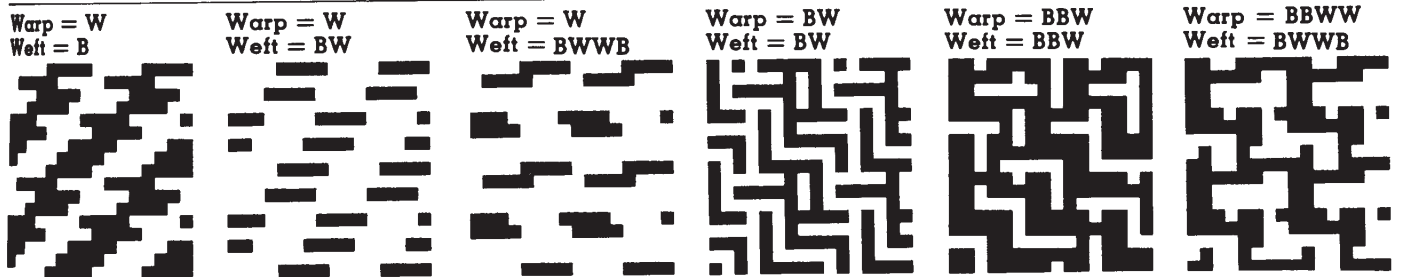


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**Treadling Sequence 12354687**

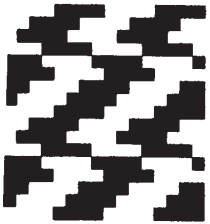


**Treadling Sequence 12354786 (12364587)**

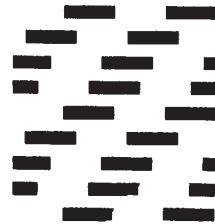


**Treading Sequence 12354867 (12356487)**

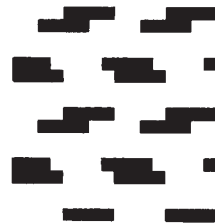
Warp = W  
Weft = B



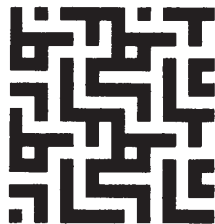
Warp = W  
Weft = BW



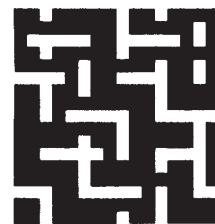
Warp = W  
Weft = BWWB



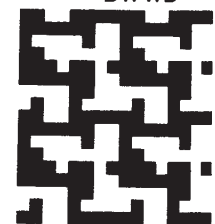
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

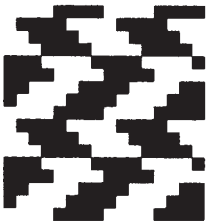


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12354876 (12365487)**

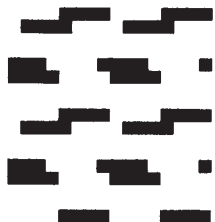
Warp = W  
Weft = B



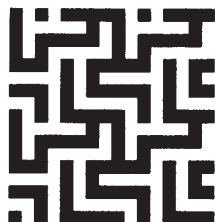
Warp = W  
Weft = BW



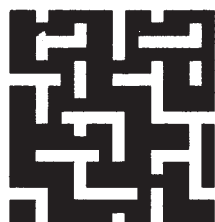
Warp = W  
Weft = BWWB



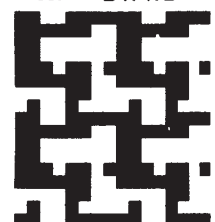
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



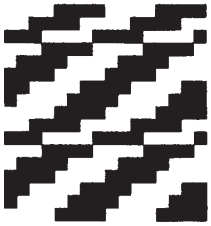
Warp = BBWW  
Weft = BWWB



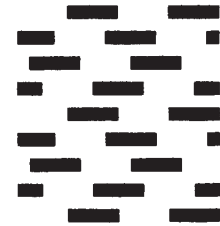


**Treadling Sequence 12356847 (12358467)**

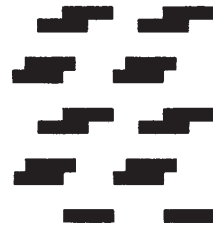
Warp = W  
Weft = B



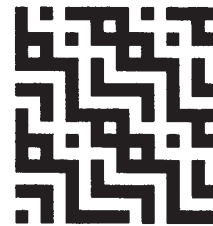
Warp = W  
Weft = BW



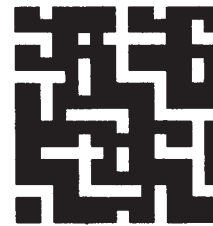
Warp = W  
Weft = BWWB



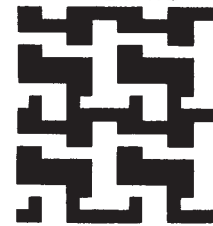
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

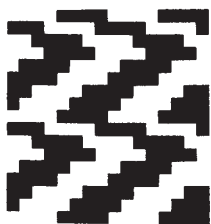


Warp = BBWW  
Weft = BWWB

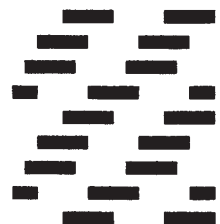


**Treadling Sequence 12356874 (12385467)**

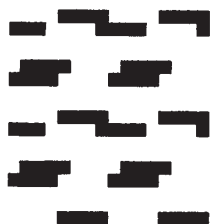
Warp = W  
Weft = B



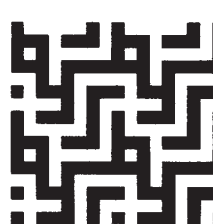
Warp = W  
Weft = BW



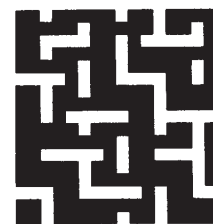
Warp = W  
Weft = BWWB



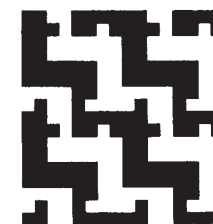
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

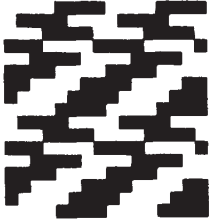


Warp = BBWW  
Weft = BWWB

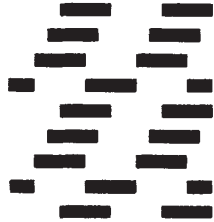


**Treading Sequence 12357486 (12368457)**

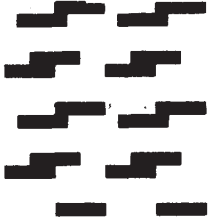
Warp = W  
Weft = B



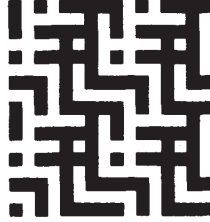
Warp = W  
Weft = BW



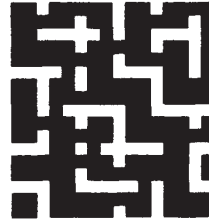
Warp = W  
Weft = BWWB



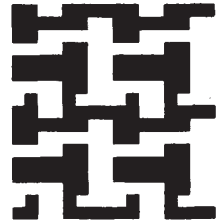
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

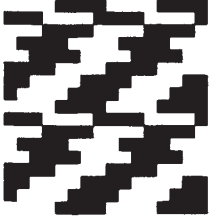


Warp = BBWW  
Weft = BWWB

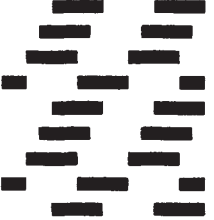


**Treading Sequence 12357684 (12384657)**

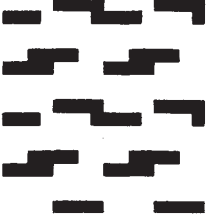
Warp = W  
Weft = B



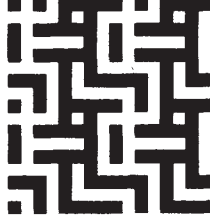
Warp = W  
Weft = BW



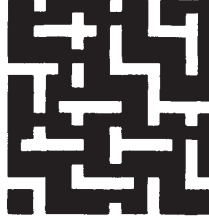
Warp = W  
Weft = BWWB



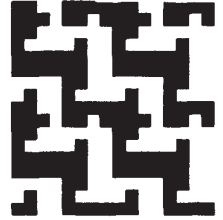
Warp = BW  
Weft = BW



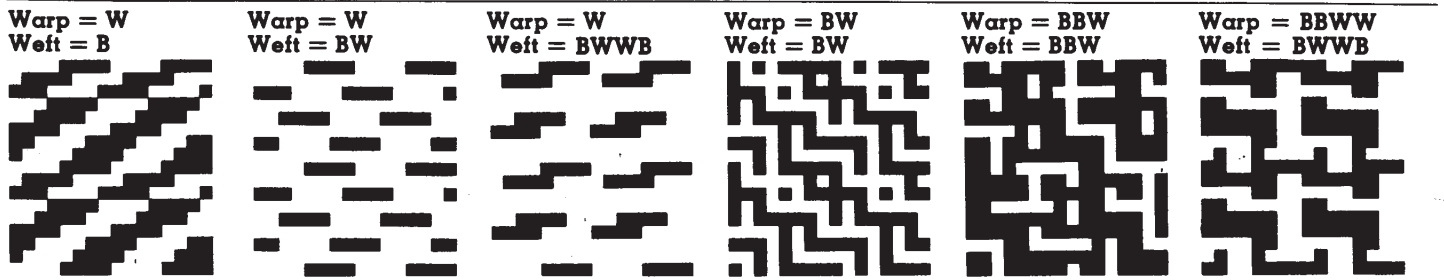
Warp = BBW  
Weft = BBW



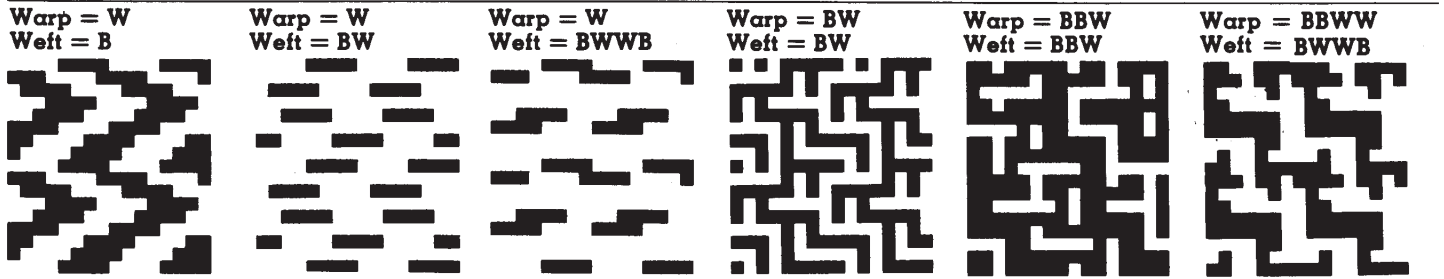
Warp = BBWW  
Weft = BWWB



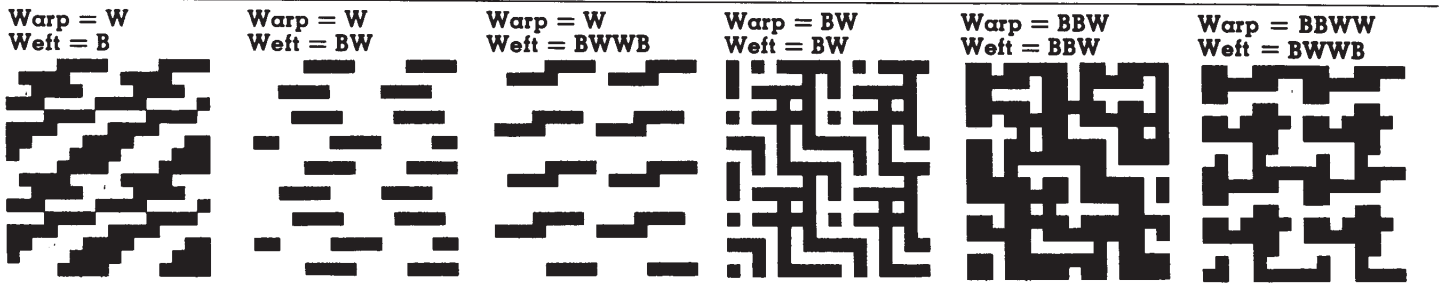
**Treadling Sequence 12357846 (12368457)**



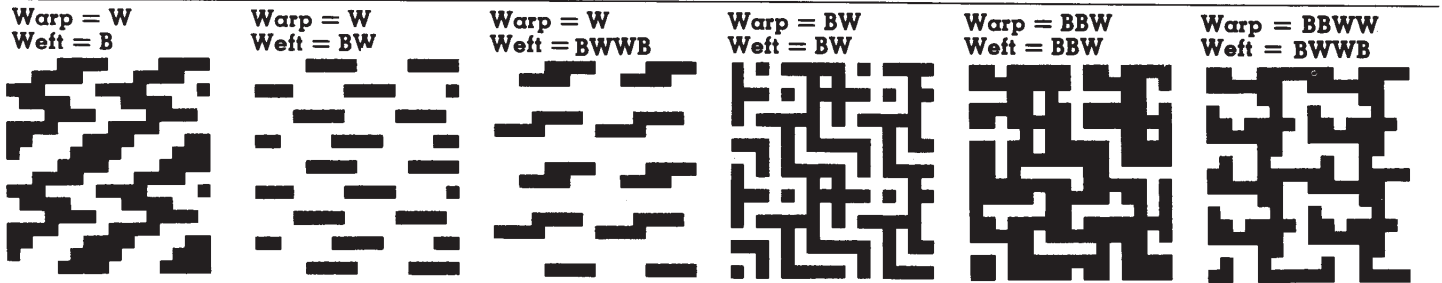
**Treadling Sequence 12357864 (12386457)**



**Treadling Sequence 12358476 (12365847)**

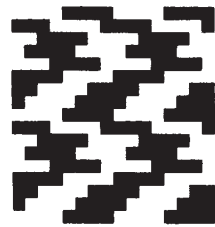
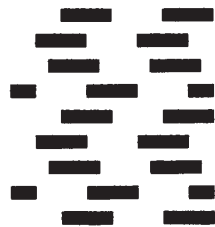
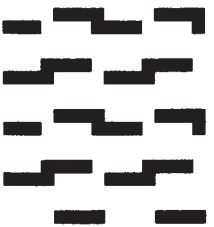
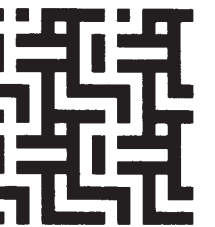

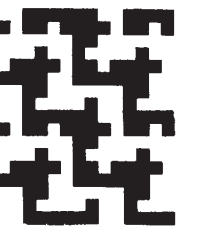


**Treadling Sequence 12358647**



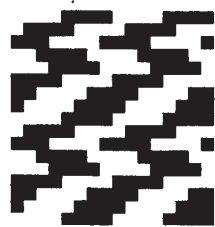
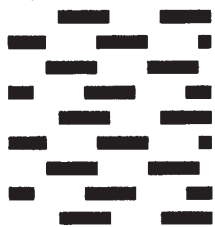
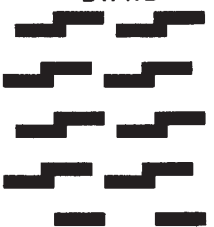
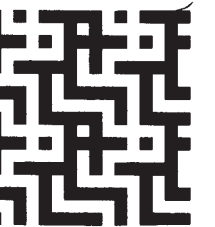

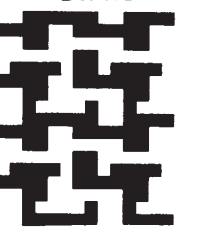
**Treading Sequence 12358674 (12385647)**

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Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

**Treading Sequence 12358746 (12368547)**

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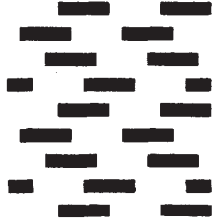
Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

**Treading Sequence 12358764**

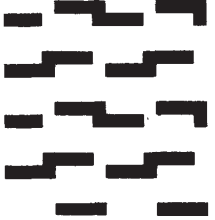
Warp = W  
Weft = B



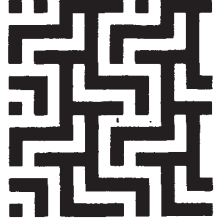
Warp = W  
Weft = BW



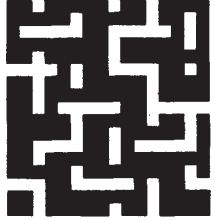
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

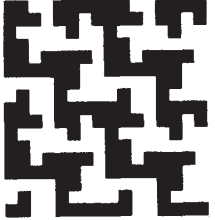
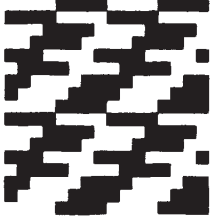


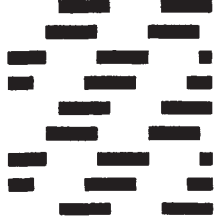
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**Treading Sequence 12364785 (12374586)**

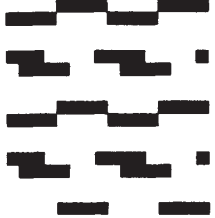
Warp = W  
Weft = B



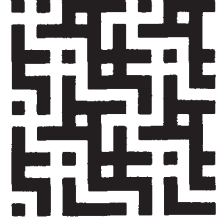
Warp = W  
Weft = BW



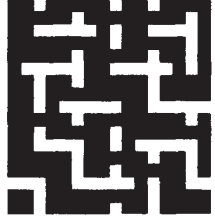
Warp = W  
Weft = BWWB



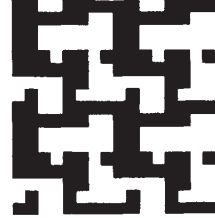
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

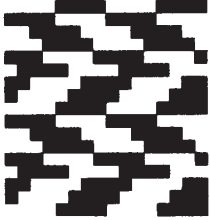


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12364875 (12375486)**

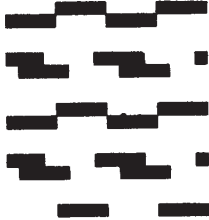
Warp = W  
Weft = B



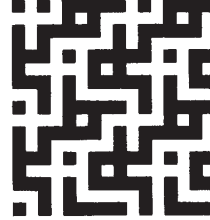
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



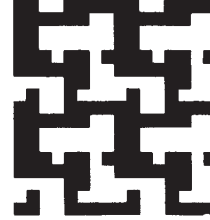
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

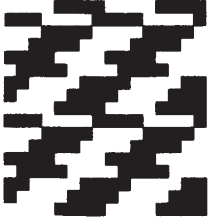


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12365784 (12384576)**

Warp = W  
Weft = B



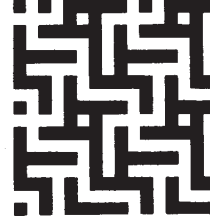
Warp = W  
Weft = BW



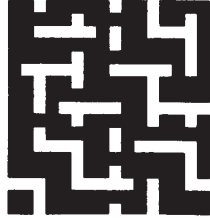
Warp = W  
Weft = BWWB



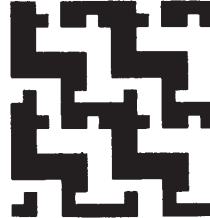
Warp = BW  
Weft = BW



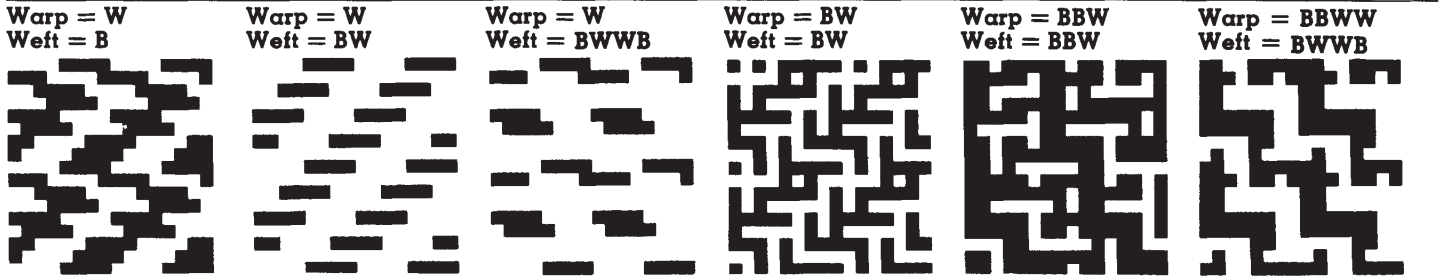
Warp = BBW  
Weft = BBW



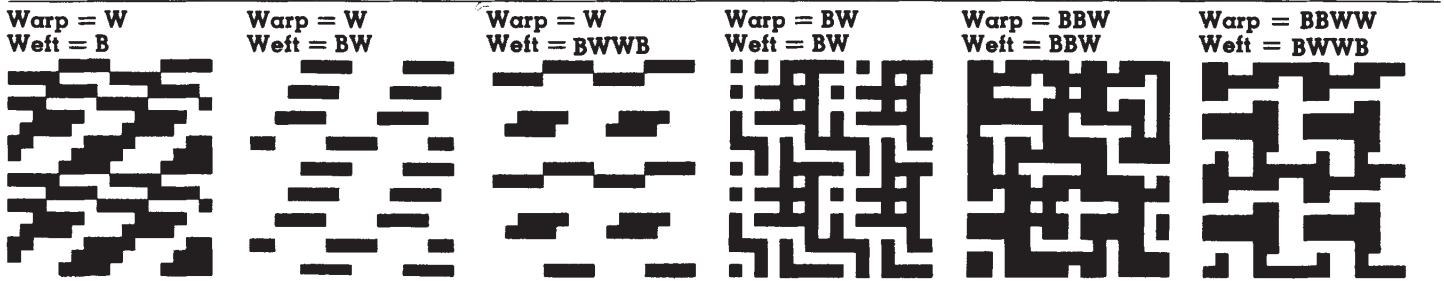
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12365874 (12385476)**

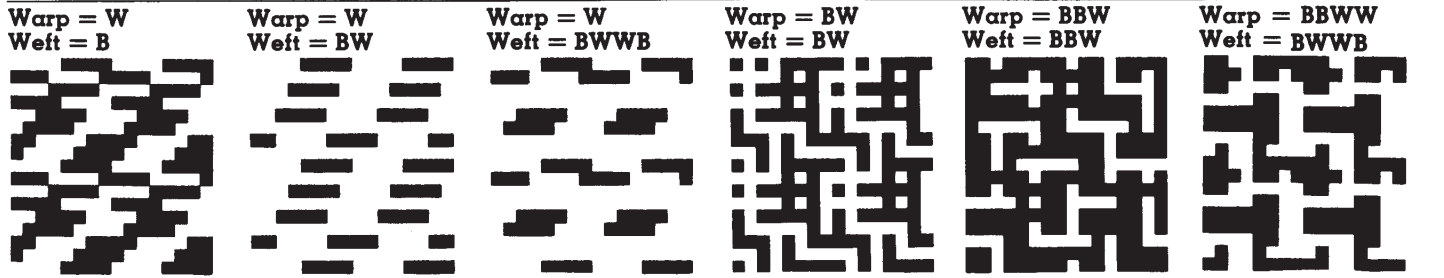


**Treadling Sequence 12367485 (12374856)**

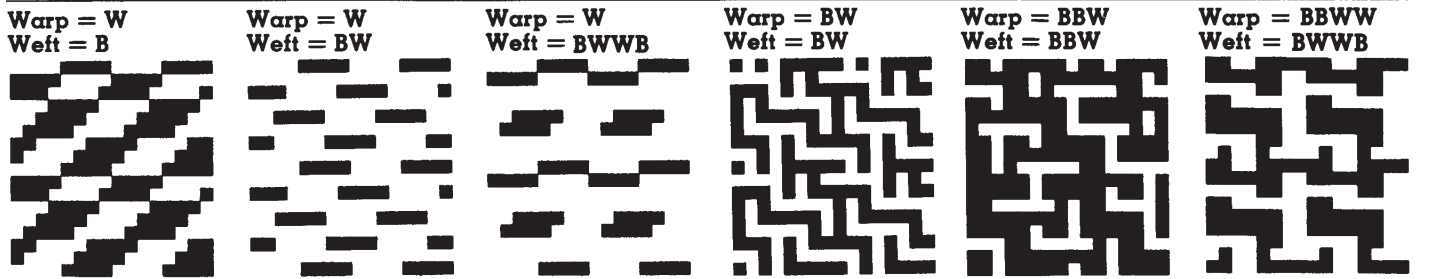




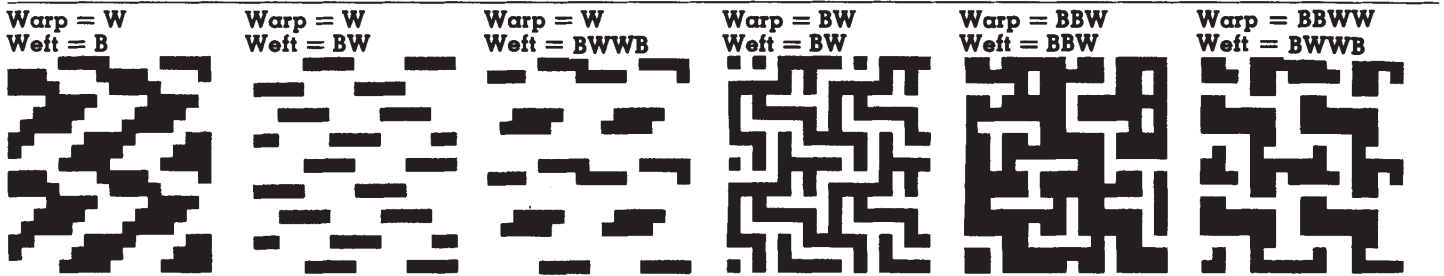
**Treading Sequence 12367584 (12384756)**



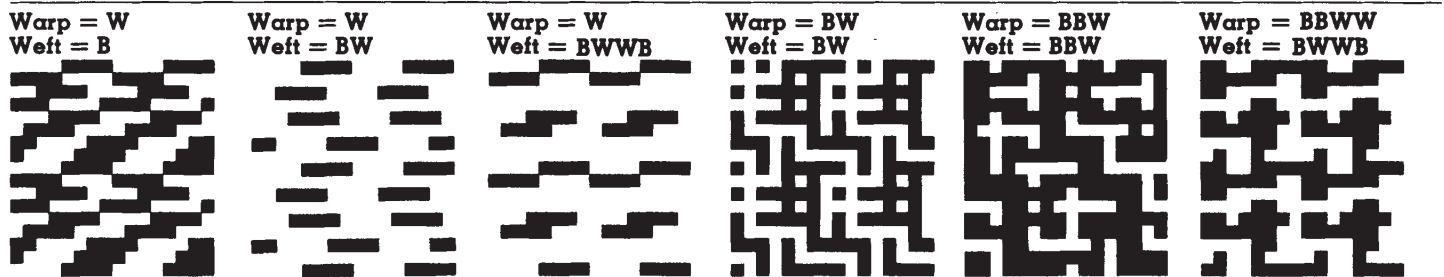
**Treading Sequence 12367845**



**Treading Sequence 12367854**

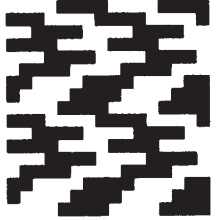


**Treading Sequence 12368475 (12375846)**

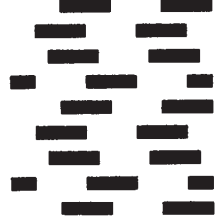


**Treading Sequence 12368574 (12385746)**

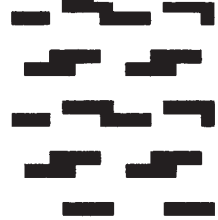
Warp = W  
Weft = B



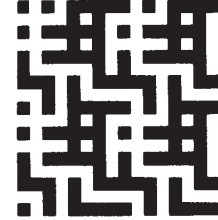
Warp = W  
Weft = BW



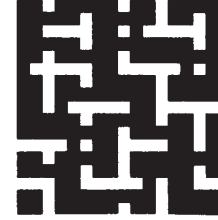
Warp = W  
Weft = BWWB



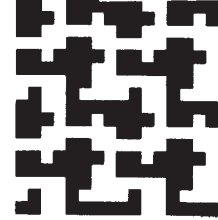
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

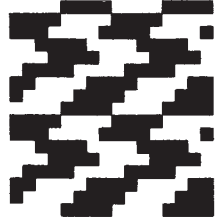


Warp = BBWW  
Weft = BWWB

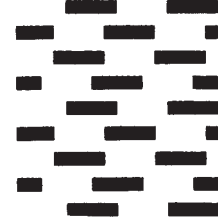


**Treading Sequence 12368745 (12378546)**

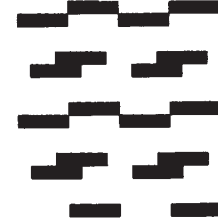
Warp = W  
Weft = B



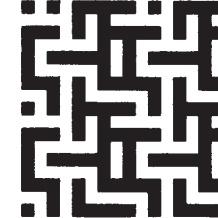
Warp = W  
Weft = BW



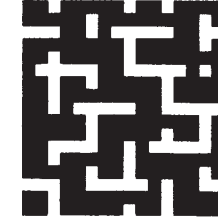
Warp = W  
Weft = BWWB



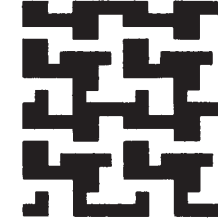
Warp = BW  
Weft = BW



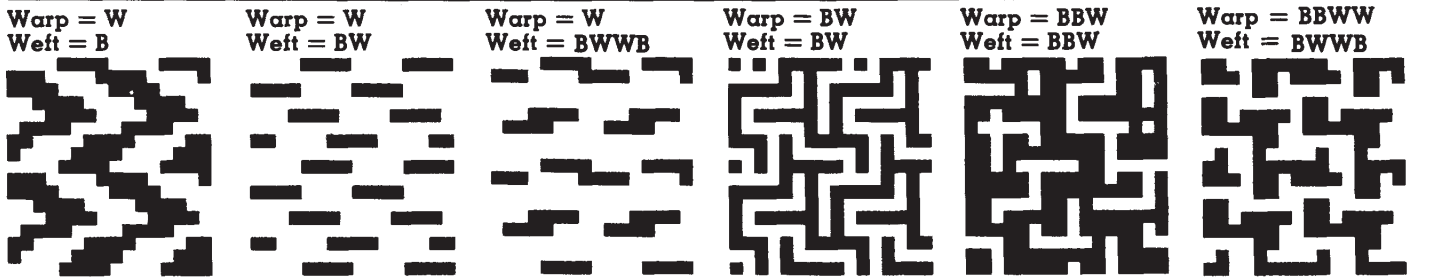
Warp = BBW  
Weft = BBW



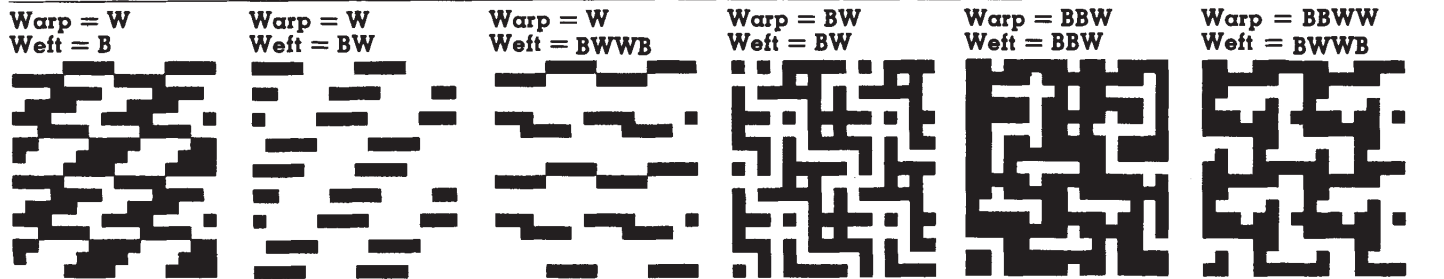
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12368754 (12387546)**

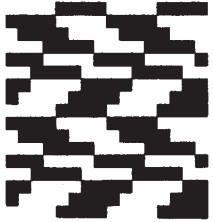


**Treadling Sequence 12374685**

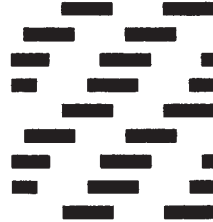


**Treadling Sequence 12374865 (12376485)**

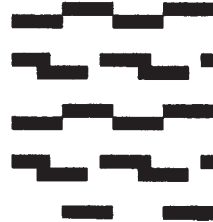
Warp = W  
Weft = B



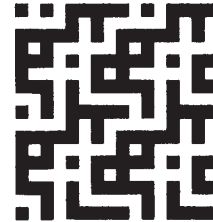
Warp = W  
Weft = BW



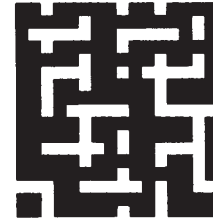
Warp = W  
Weft = BWWB



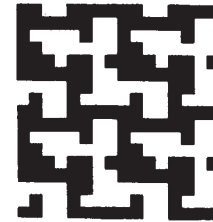
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

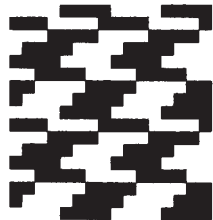


Warp = BBWW  
Weft = BWWB

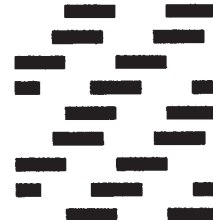


**Treadling Sequence 12375684 (12384675)**

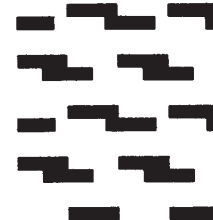
Warp = W  
Weft = B



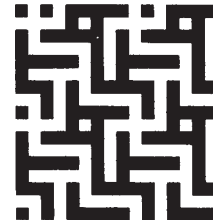
Warp = W  
Weft = BW



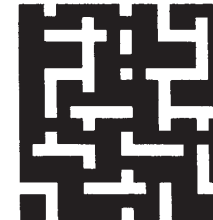
Warp = W  
Weft = BWWB



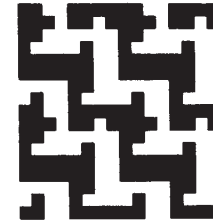
Warp = BW  
Weft = BW



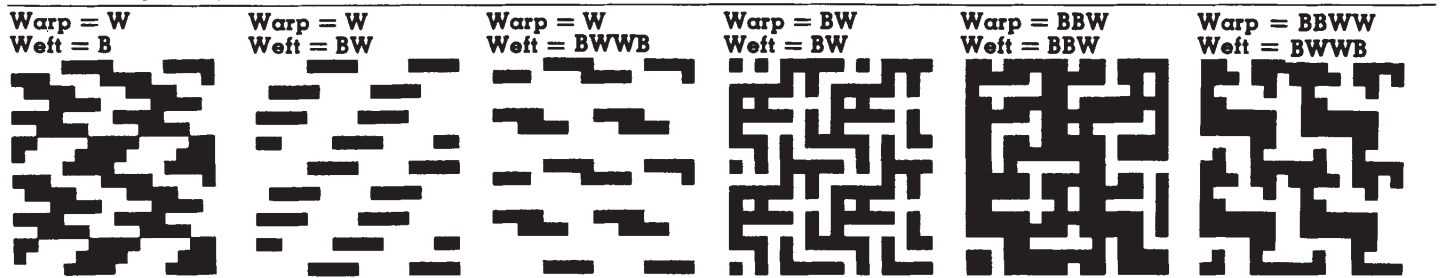
Warp = BBW  
Weft = BBW



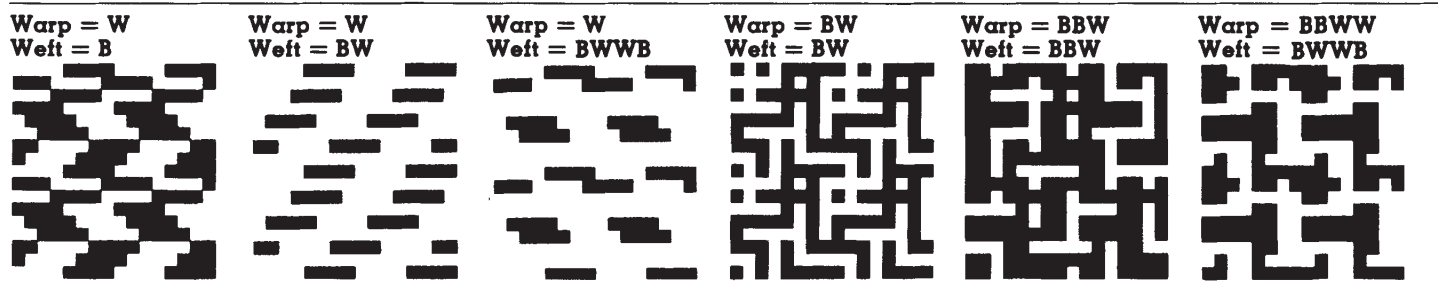
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12375864 (12386475)**

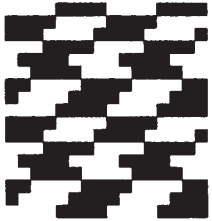


**Treadling Sequence 12376584 (12384765)**



**Treadling Sequence 12376845 (12378465)**

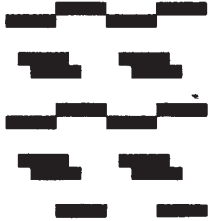
Warp = W  
Weft = B



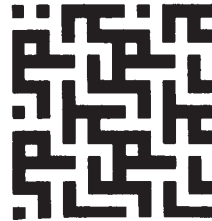
Warp = W  
Weft = BW



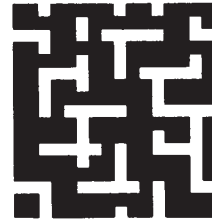
Warp = W  
Weft = BWWB



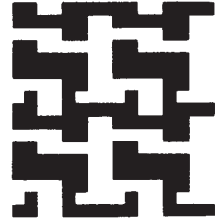
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12376854 (12387465)**

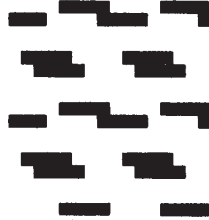
Warp = W  
Weft = B



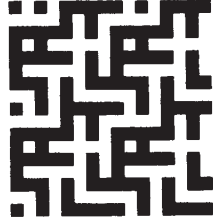
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



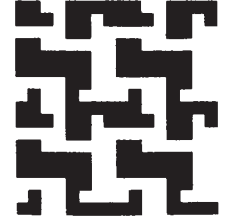
Warp = BW  
Weft = BW



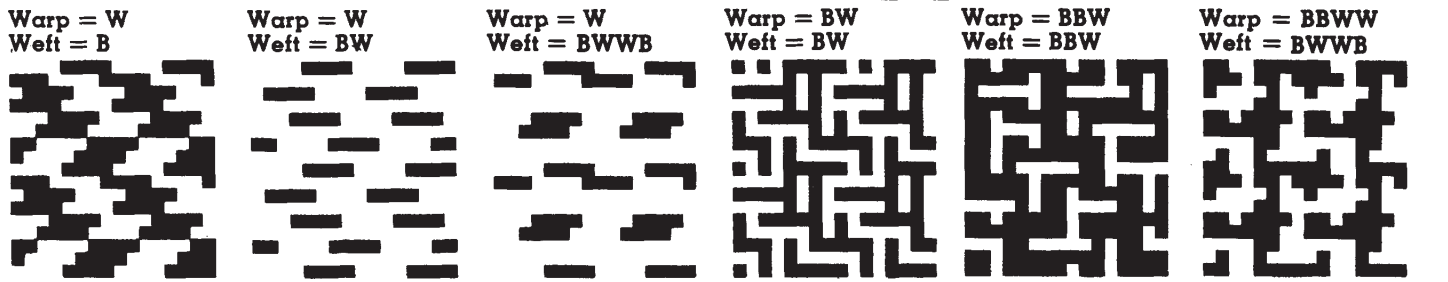
Warp = BBW  
Weft = BBW



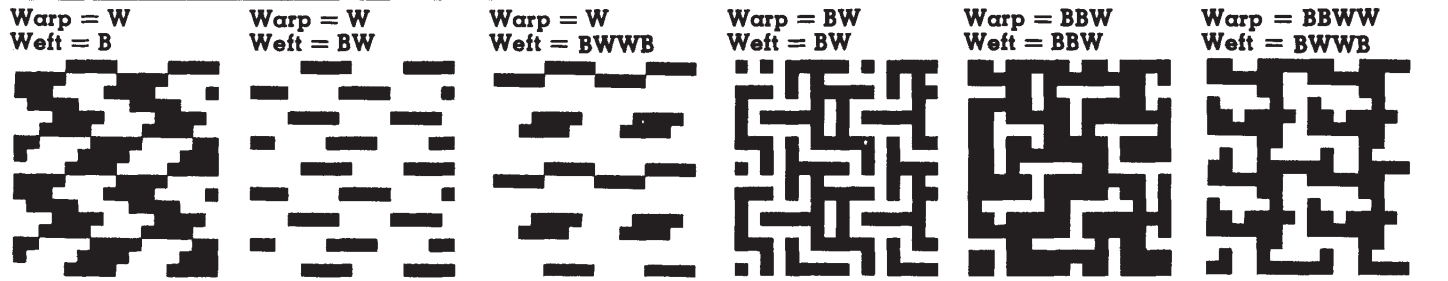
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12378564 (12386745)**



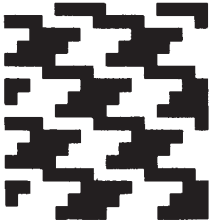
**Treadling Sequence 12378645**



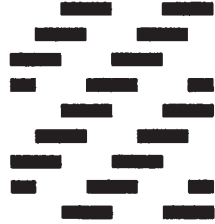


**Treadling Sequence 12385674**

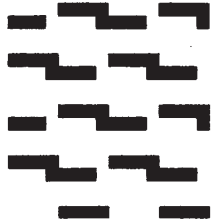
Warp = W  
Weft = B



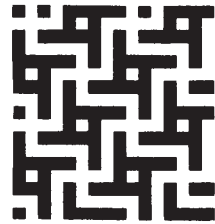
Warp = W  
Weft = BW



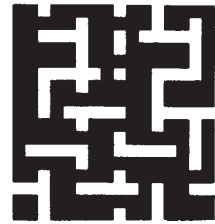
Warp = W  
Weft = BWWB



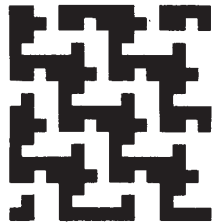
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

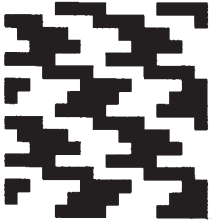


Warp = BBWW  
Weft = BWWB

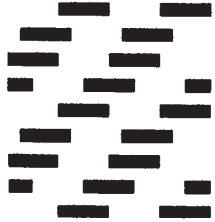


**Treadling Sequence 12385764 (12386574)**

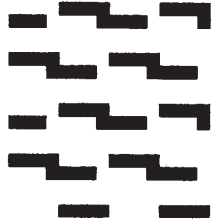
Warp = W  
Weft = B



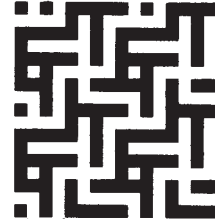
Warp = W  
Weft = BW



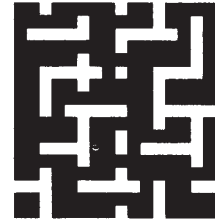
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

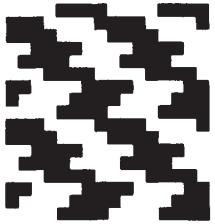


Warp = BBWW  
Weft = BWWB

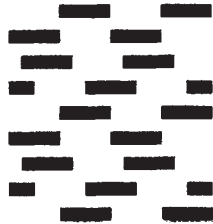


**Treadling Sequence 12386754 (12387564)**

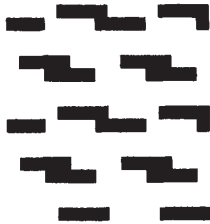
Warp = W  
Weft = B



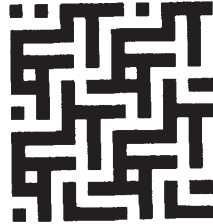
Warp = W  
Weft = BW



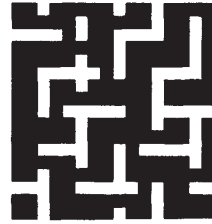
Warp = W  
Weft = BWWB



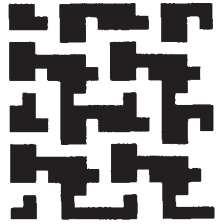
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

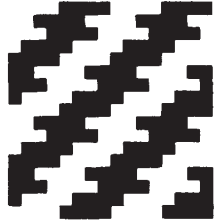


Warp = BBWW  
Weft = BWWB

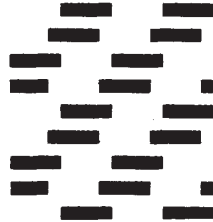


**Treadling Sequence 12435687**

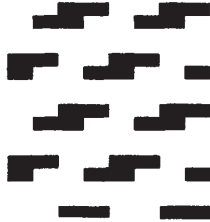
Warp = W  
Weft = B



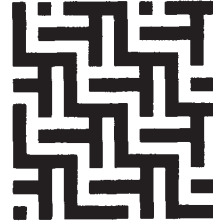
Warp = W  
Weft = BW



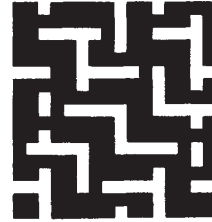
Warp = W  
Weft = BWWB



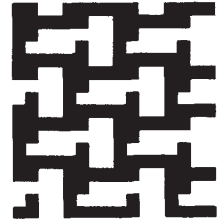
Warp = BW  
Weft = BW



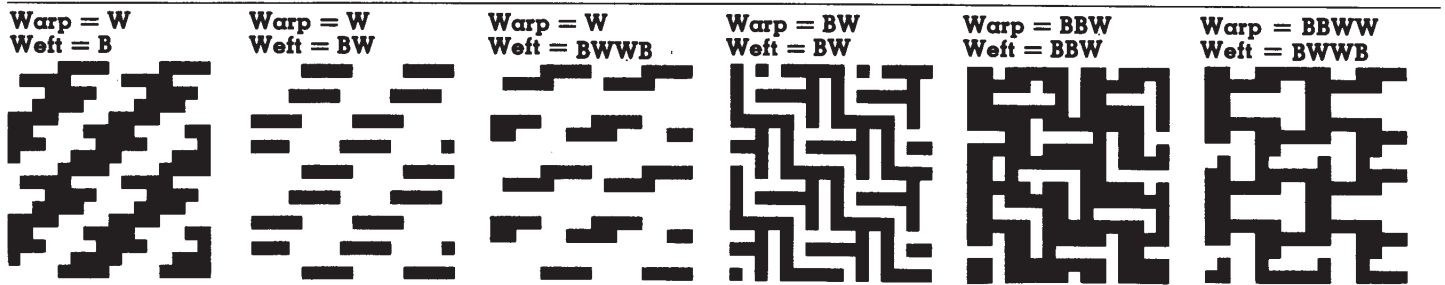
Warp = BBW  
Weft = BBW



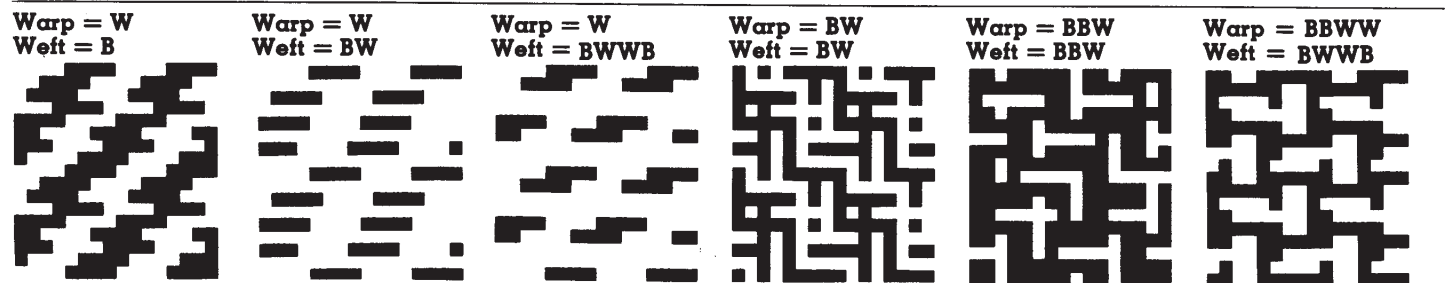
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12435786 (12465783)**

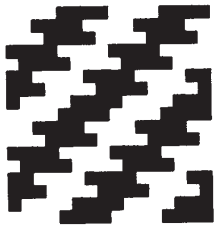


**Treadling Sequence 12435867 (12453687)**

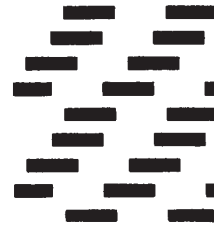


**Treadling Sequence 12436587**

Warp = W  
Weft = B



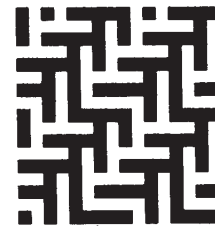
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



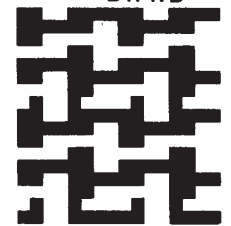
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

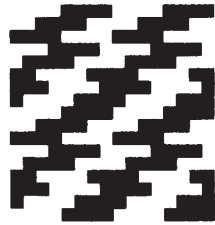


Warp = BBWW  
Weft = BWWB

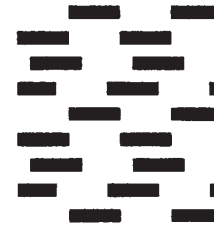


**Treadling Sequence 12436857 (12463587)**

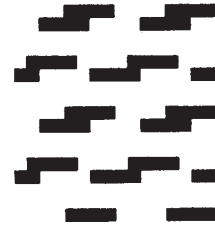
Warp = W  
Weft = B



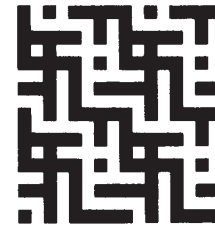
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



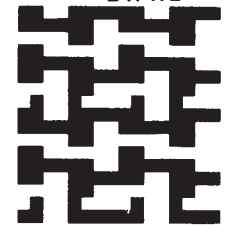
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

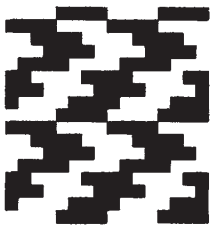


Warp = BBWW  
Weft = BWWB

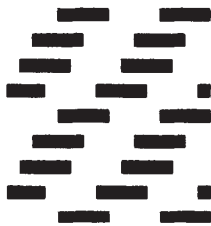


**Treadling Sequence 12436875 (12487563)**

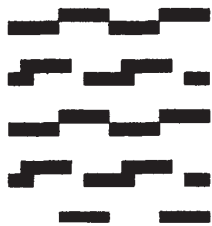
Warp = W  
Weft = B



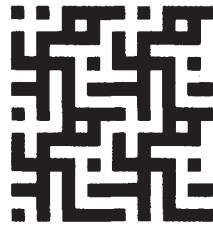
Warp = W  
Weft = BW



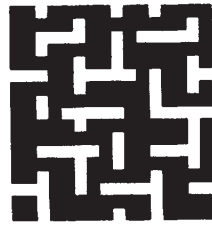
Warp = W  
Weft = BWWB



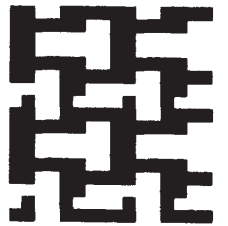
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

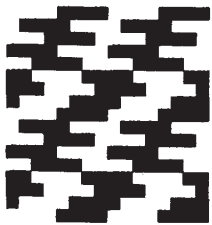


Warp = BBWW  
Weft = BWWB

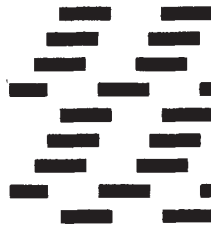


**Treadling Sequence 12437586 (12536487)**

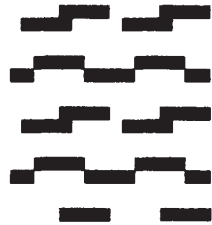
Warp = W  
Weft = B



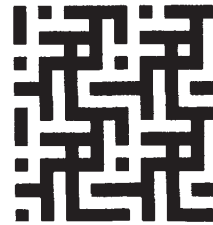
Warp = W  
Weft = BW



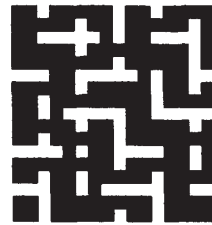
Warp = W  
Weft = BWWB



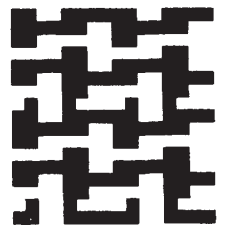
Warp = BW  
Weft = BW



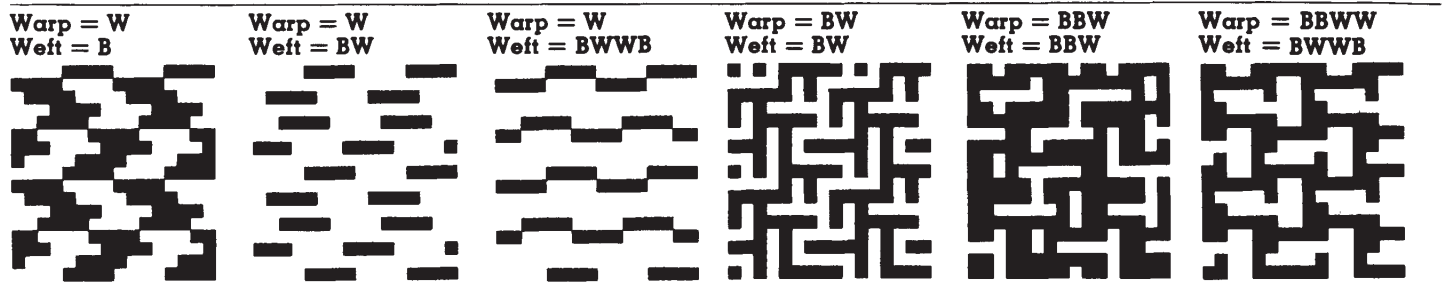
Warp = BBW  
Weft = BBW



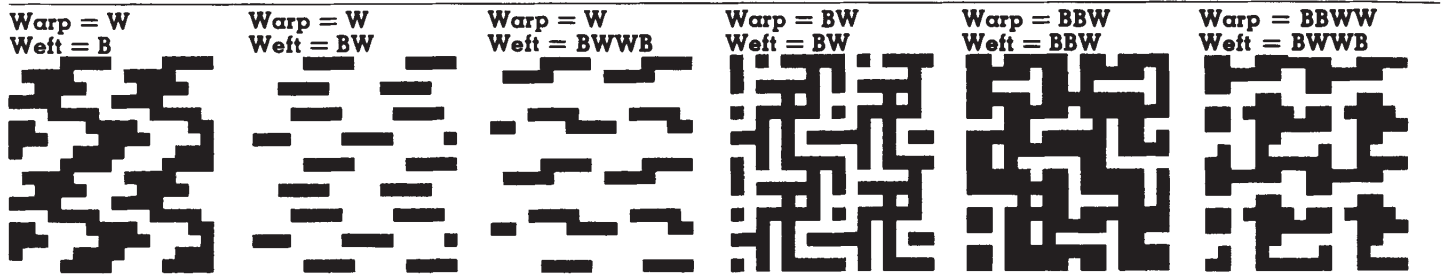
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12437865 (12653487)**

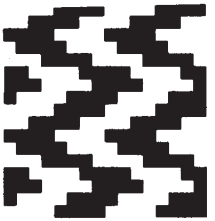


**Treadling Sequence 12438576 (12546387)**

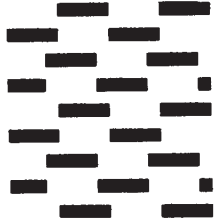


**Treadling Sequence 12438657 (12465387)**

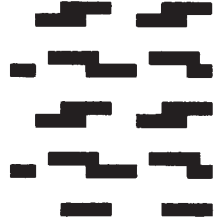
Warp = W  
Weft = B



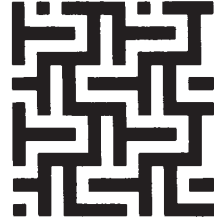
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



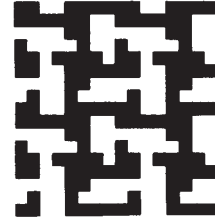
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

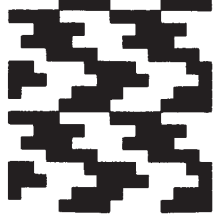


Warp = BBWW  
Weft = BWWB

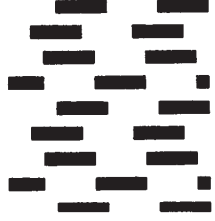


**Treadling Sequence 12438675 (12576843)**

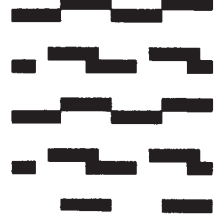
Warp = W  
Weft = B



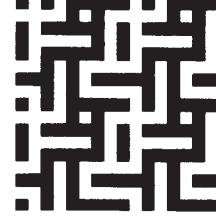
Warp = W  
Weft = BW



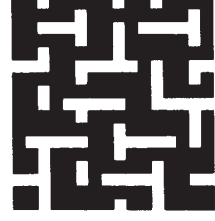
Warp = W  
Weft = BWWB



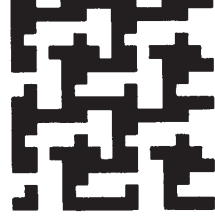
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

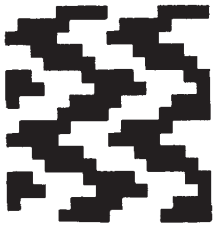


Warp = BBWW  
Weft = BWWB

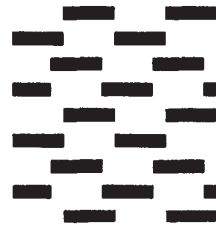


**Treadling Sequence 12438756**

Warp = W  
Weft = B



Warp = W  
Weft = BW



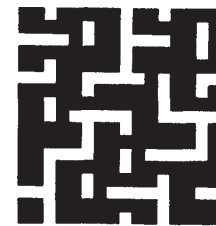
Warp = W  
Weft = BWWB



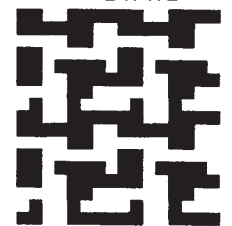
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

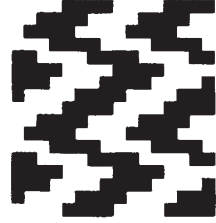


Warp = BBWW  
Weft = BWWB

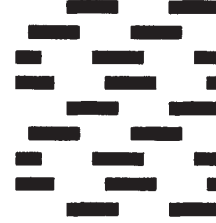


**Treadling Sequence 12453867**

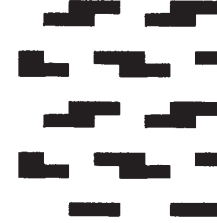
Warp = W  
Weft = B



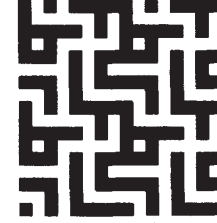
Warp = W  
Weft = BW



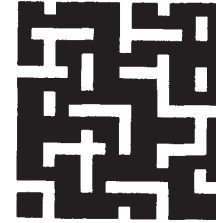
Warp = W  
Weft = BWWB



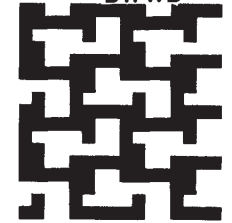
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

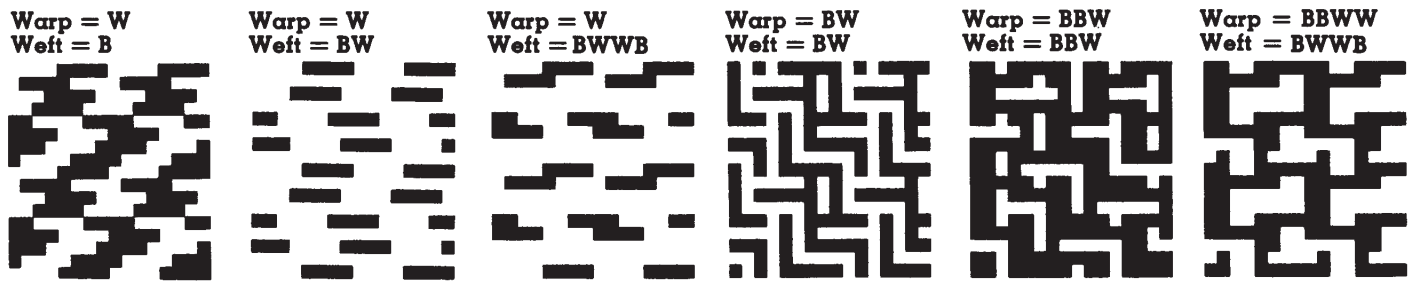


Warp = BBWW  
Weft = BWWB

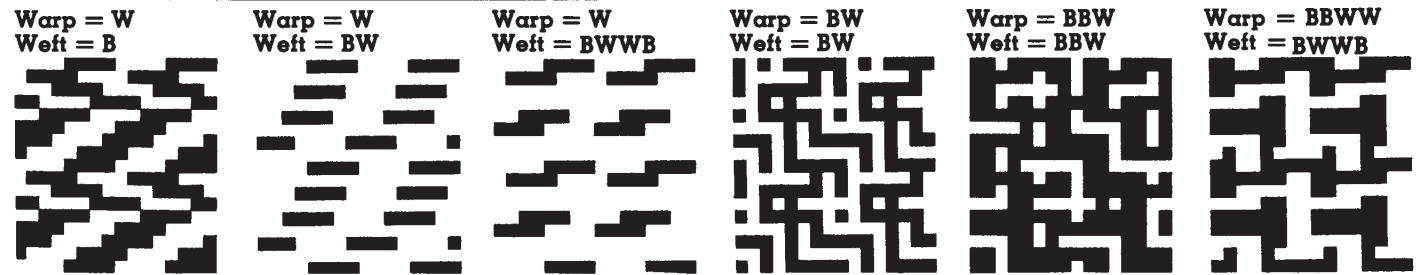




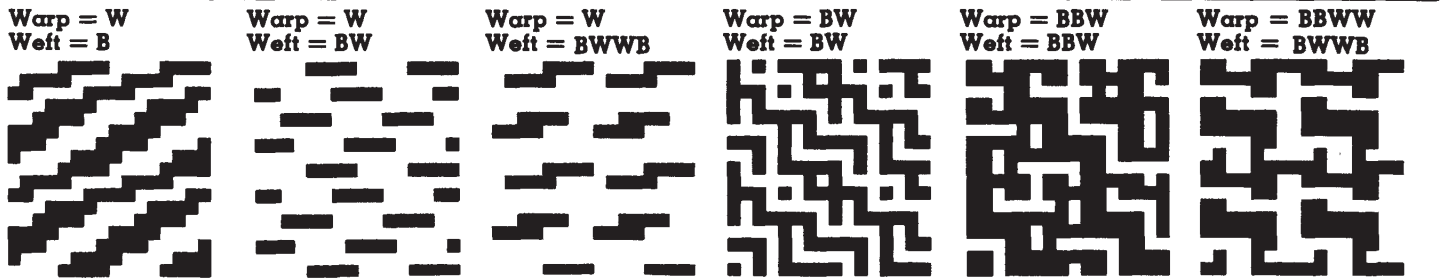
**Treadling Sequence 12453786 (12458673)**



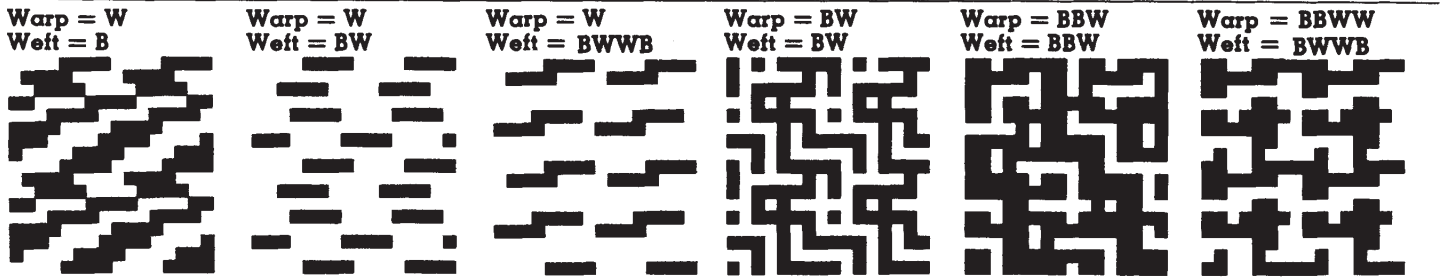
**Treadling Sequence 12457386 (12458637)**



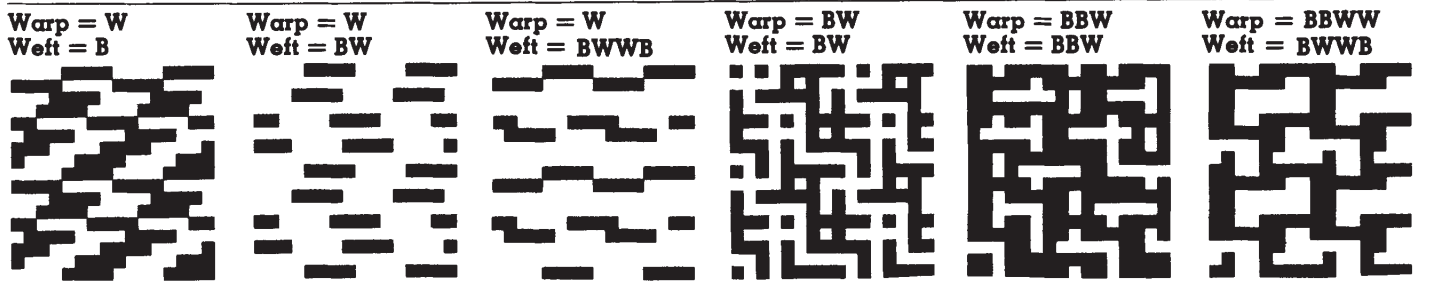
**Treadling Sequence 12457836**



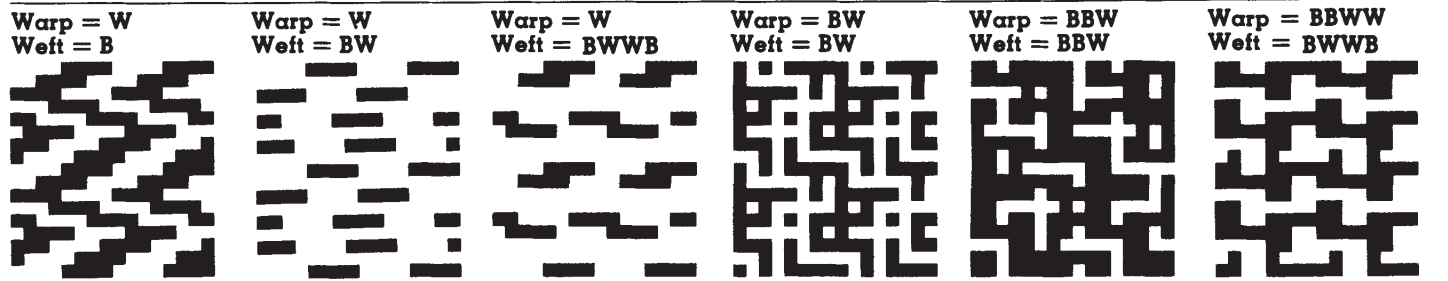
**Treadling Sequence 12458376 (12458736)**



**Treadling Sequence 12463785 (12634857)**



**Treadling Sequence 12463857**

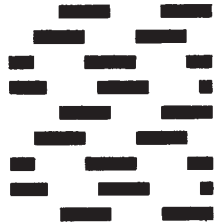


**Treadling Sequence 12463875 (12487536)**

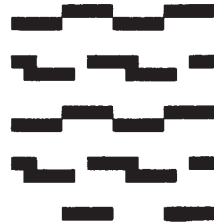
Warp = W  
Weft = B



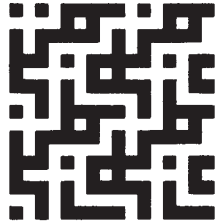
Warp = W  
Weft = BW



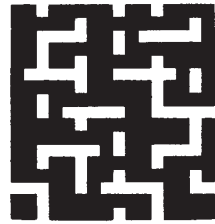
Warp = W  
Weft = BWWB



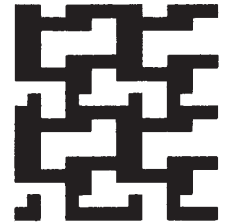
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

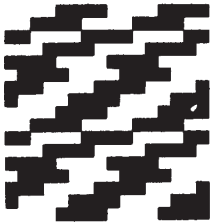


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12465837 (12483657)**

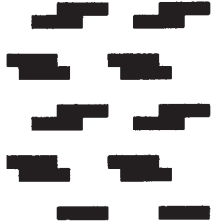
Warp = W  
Weft = B



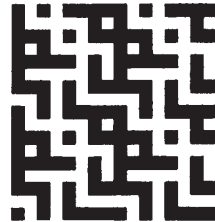
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



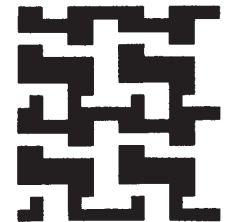
Warp = BW  
Weft = BW



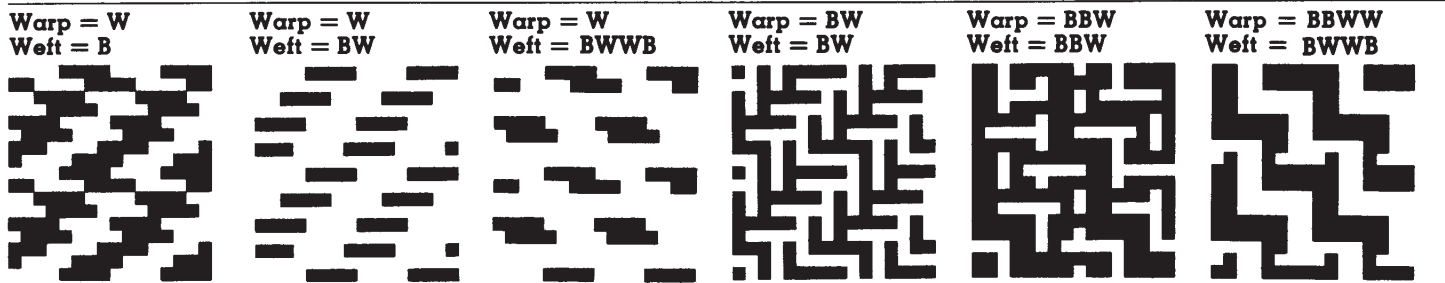
Warp = BBW  
Weft = BBW



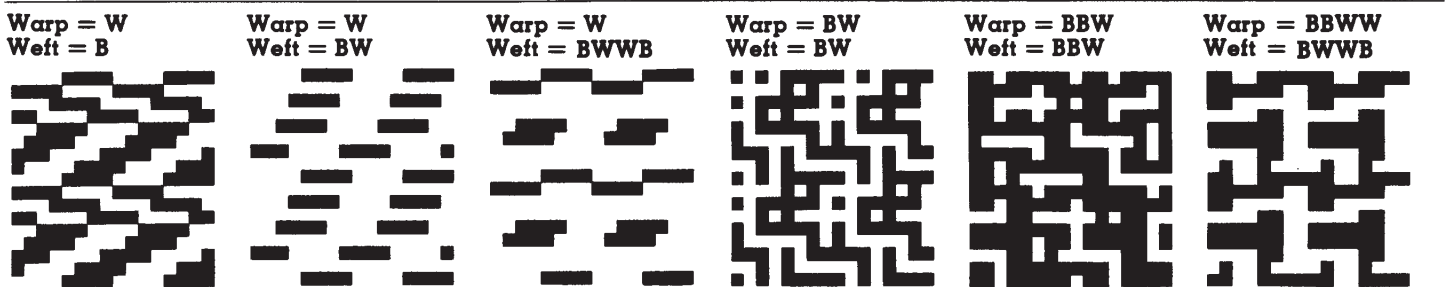
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12465873 (12687534)**

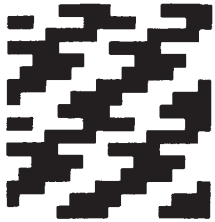


**Treadling Sequence 12467385 (12548637)**

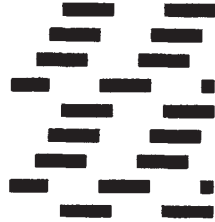


**Treading Sequence 12467583**

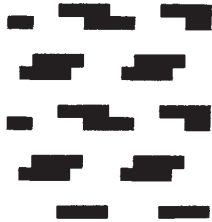
Warp = W  
Weft = B



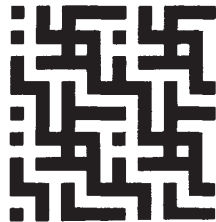
Warp = W  
Weft = BW



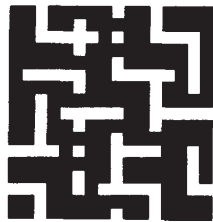
Warp = W  
Weft = BWWB



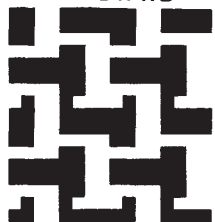
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

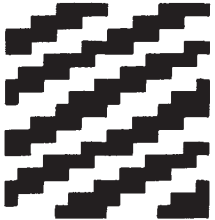


Warp = BBWW  
Weft = BWWB

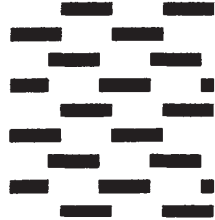


**Treading Sequence 12468357**

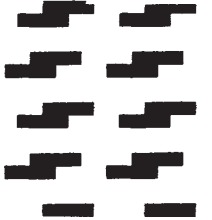
Warp = W  
Weft = B



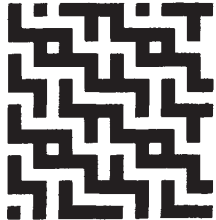
Warp = W  
Weft = BW



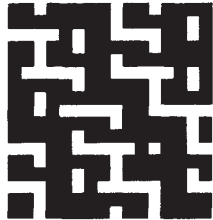
Warp = W  
Weft = BWWB



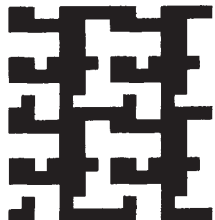
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

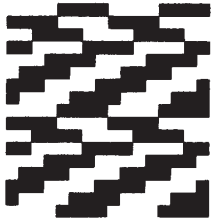


Warp = BBWW  
Weft = BWWB

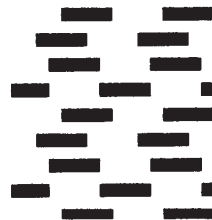


**Treading Sequence 12468375 (12648357)**

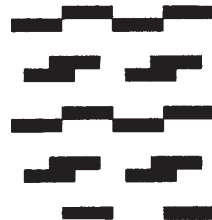
Warp = W  
Weft = B



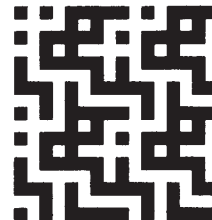
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



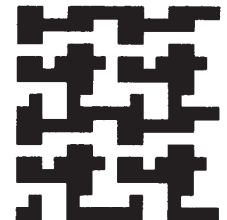
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

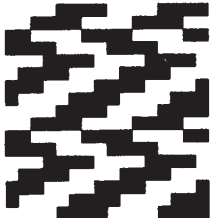


Warp = BBWW  
Weft = BWWB

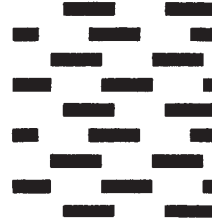


**Treading Sequence 12468537 (12486357)**

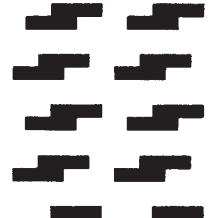
Warp = W  
Weft = B



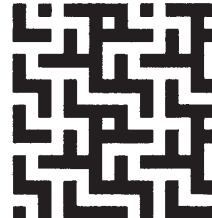
Warp = W  
Weft = BW



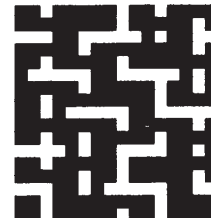
Warp = W  
Weft = BWWB



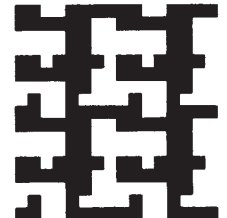
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

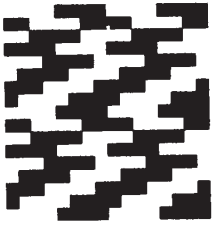


Warp = BBWW  
Weft = BWWB

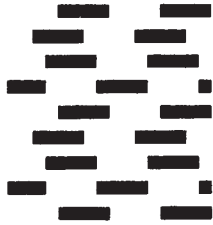


**Treadling Sequence 12468573 (12846357)**

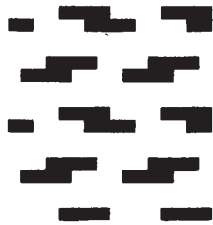
Warp = W  
Weft = B



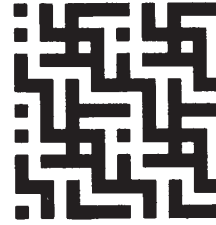
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



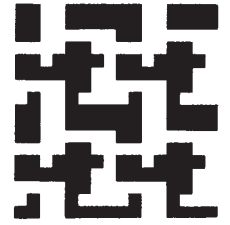
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

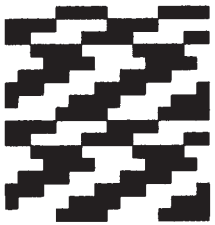


Warp = BBWW  
Weft = BWWB

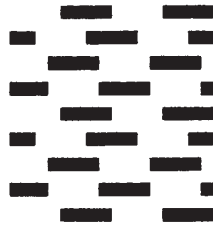


**Treadling Sequence 12468735 (12648753)**

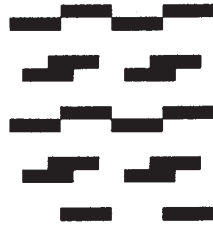
Warp = W  
Weft = B



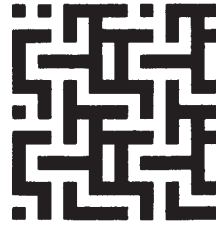
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



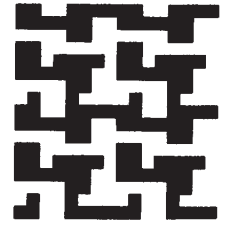
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



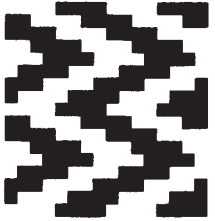
Warp = BBWW  
Weft = BWWB



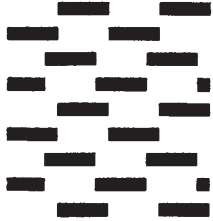


**Treadling Sequence 12468753**

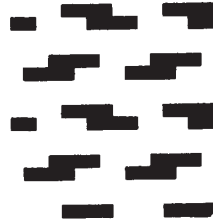
Warp = W  
Weft = B



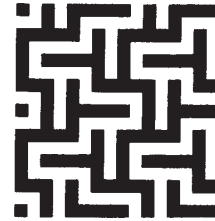
Warp = W  
Weft = BW



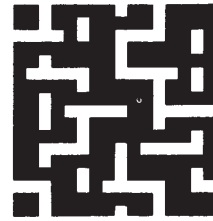
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

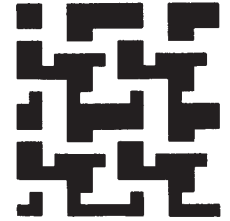
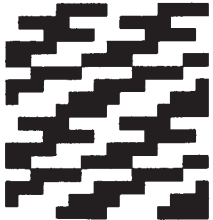


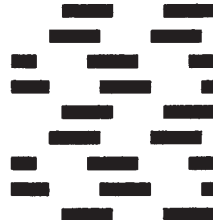
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**Treadling Sequence 12473586 (12536847)**

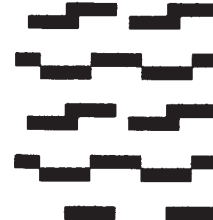
Warp = W  
Weft = B



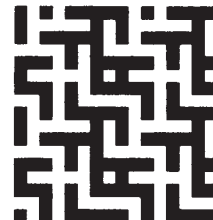
Warp = W  
Weft = BW



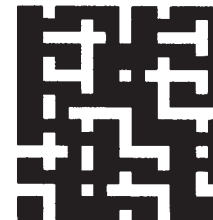
Warp = W  
Weft = BWWB



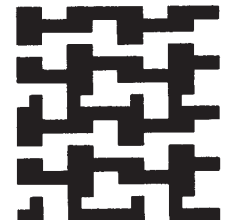
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

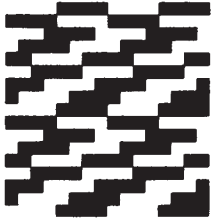


Warp = BBWW  
Weft = BWWB

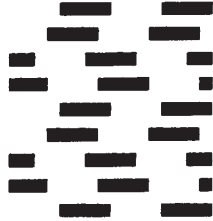


**Treadling Sequence 12473685 (12635847)**

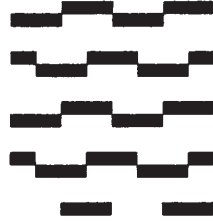
Warp = W  
Weft = B



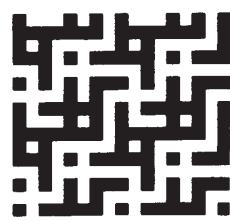
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



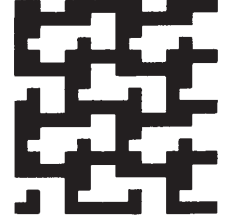
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

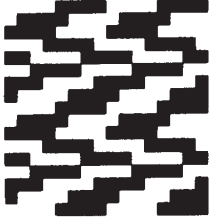


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12473856 (12563847)**

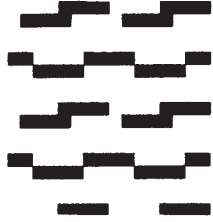
Warp = W  
Weft = B



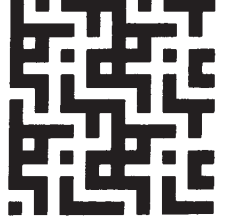
Warp = W  
Weft = BW



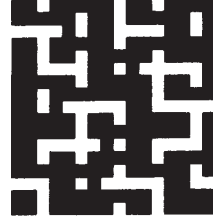
Warp = W  
Weft = BWWB



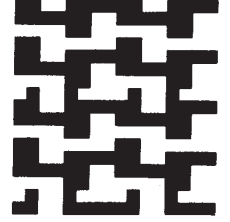
Warp = BW  
Weft = BW



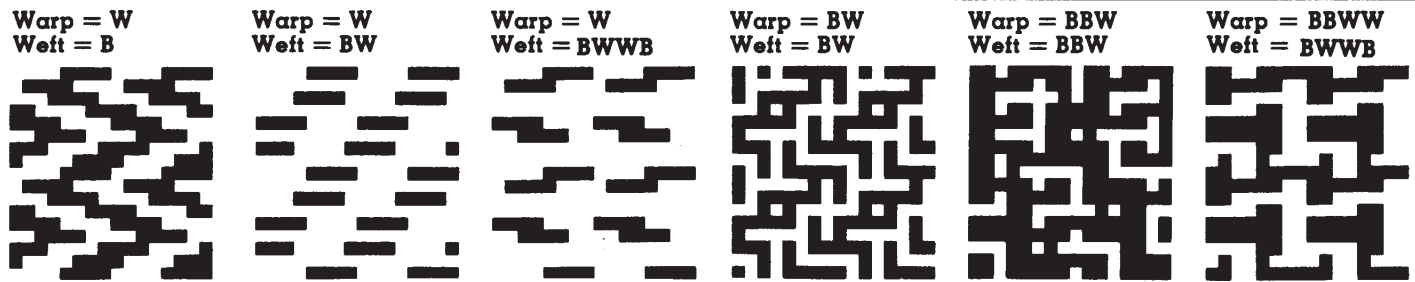
Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12475386 (12538647)**



**Treadling Sequence 12475683 (12835647)**

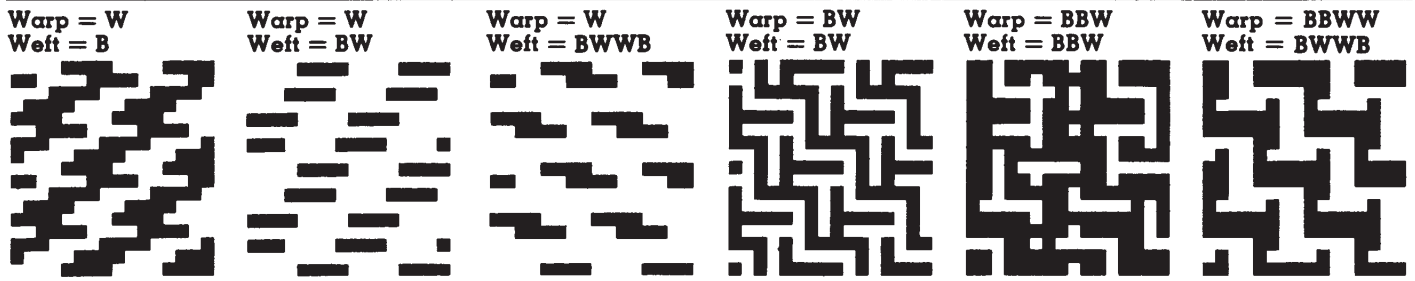
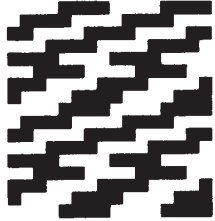


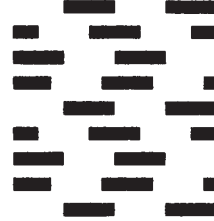
photo p. 170

**Treadling Sequence 12475836 (12583647)**

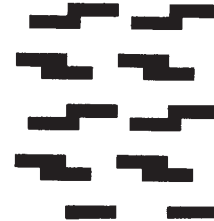
Warp = W  
Weft = B



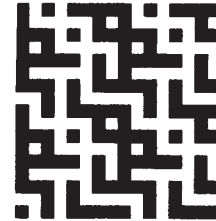
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



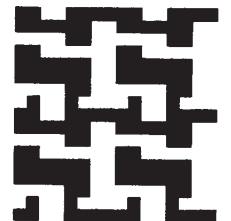
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

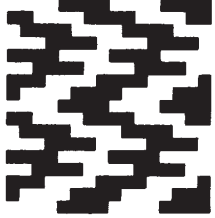


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12475863 (12853647)**

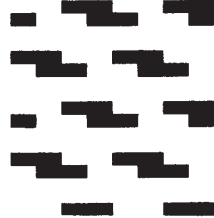
Warp = W  
Weft = B



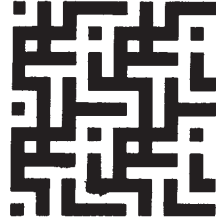
Warp = W  
Weft = BW



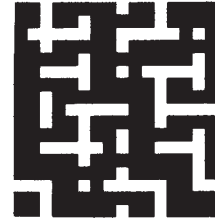
Warp = W  
Weft = BWWB



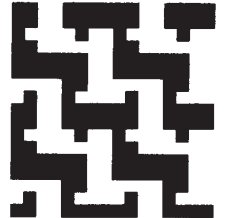
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

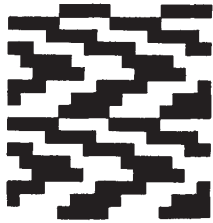


Warp = BBWW  
Weft = BWWB

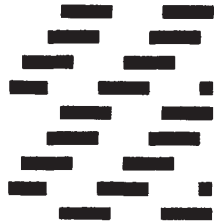


**Treadling Sequence 12476385 (12583764)**

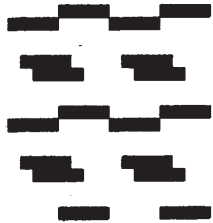
Warp = W  
Weft = B



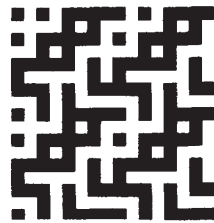
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



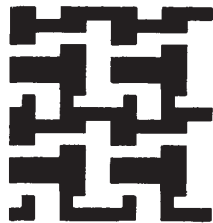
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

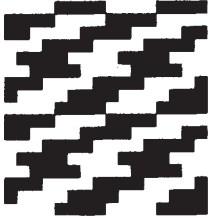


Warp = BBWW  
Weft = BWWB

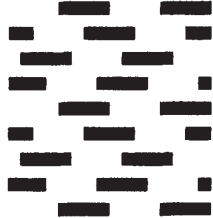


**Treadling Sequence 12476835 (12683547)**

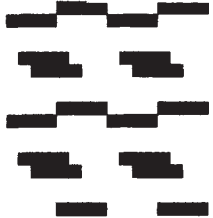
Warp = W  
Weft = B



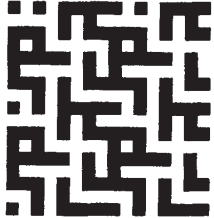
Warp = W  
Weft = BW



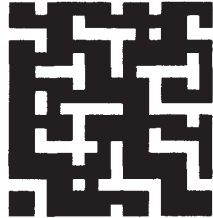
Warp = W  
Weft = BWWB



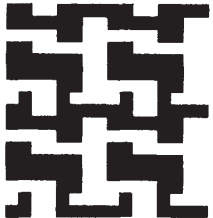
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

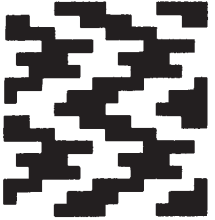


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12476853 (12835764)**

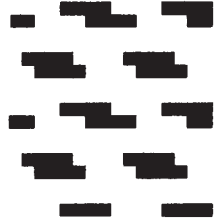
Warp = W  
Weft = B



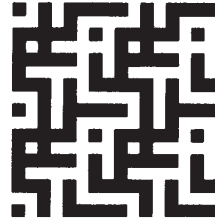
Warp = W  
Weft = BW



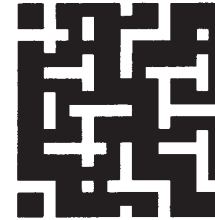
Warp = W  
Weft = BWWB



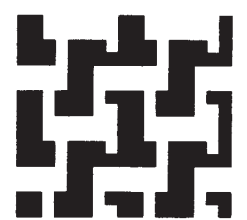
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

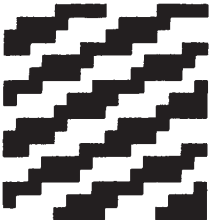


Warp = BBWW  
Weft = BWWB

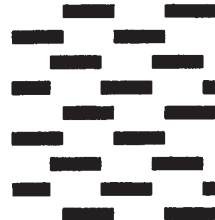


**Treading Sequence 12478356**

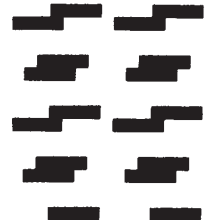
Warp = W  
Weft = B



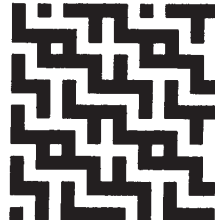
Warp = W  
Weft = BW



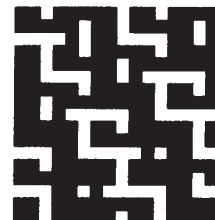
Warp = W  
Weft = BWWB



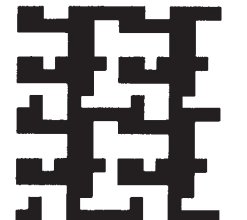
Warp = BW  
Weft = BW



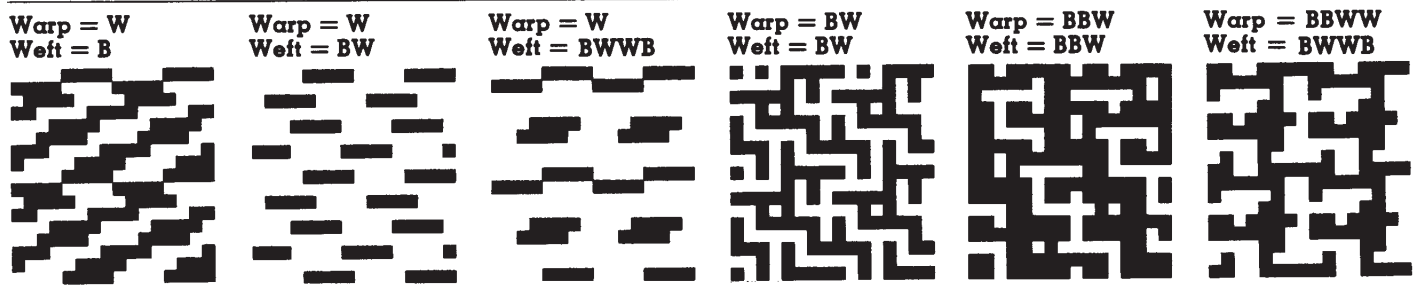
Warp = BBW  
Weft = BBW



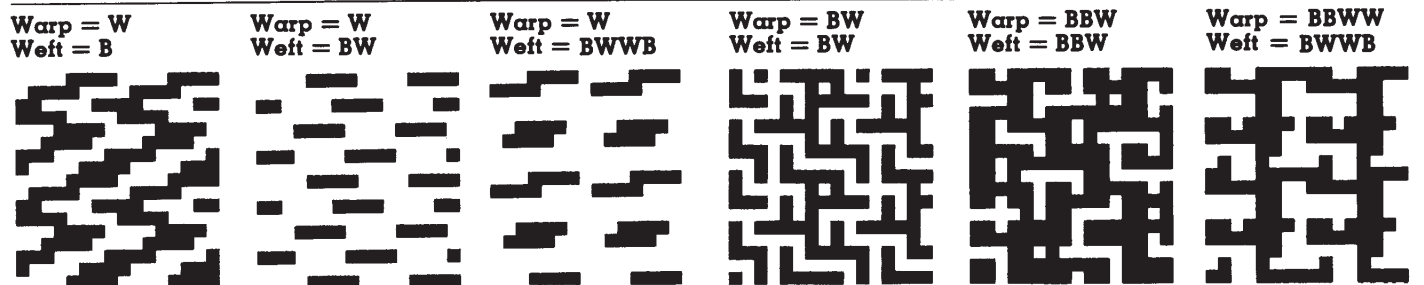
Warp = BBWW  
Weft = BWWB



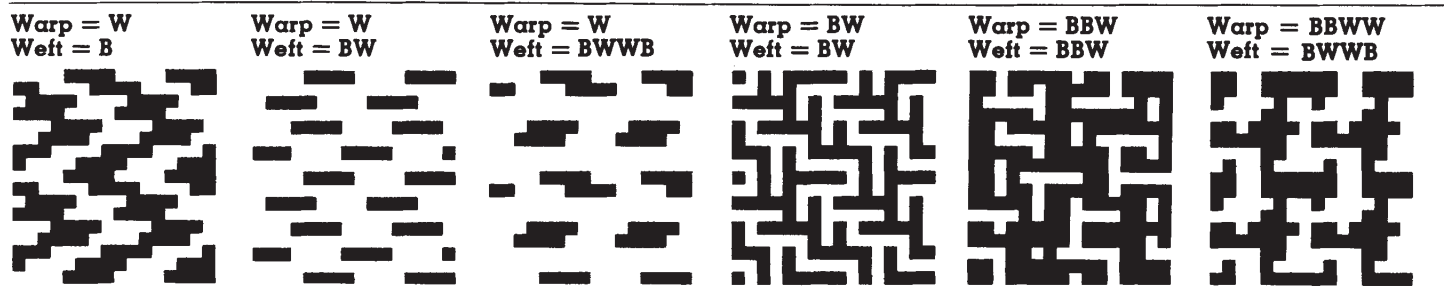
**Treadling Sequence 12478365 (12578436)**



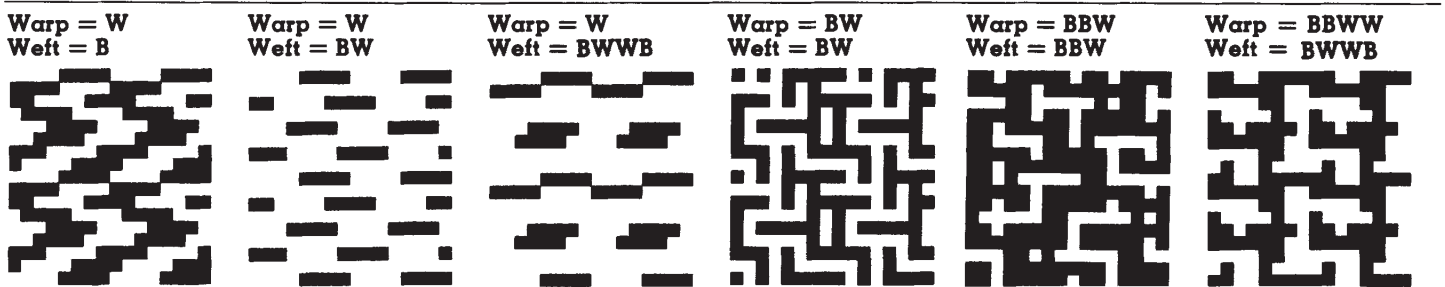
**Treadling Sequence 12478536 (12578364)**



**Treadling Sequence 12478563 (12578634)**



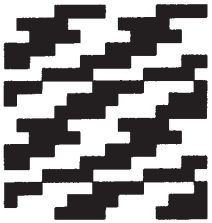
**Treadling Sequence 12478635 (12578463)**



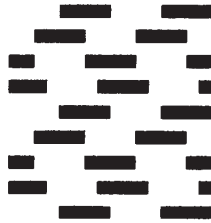


**Treading Sequence 12483576 (12546837)**

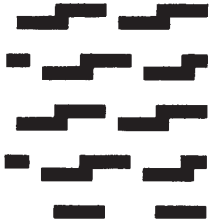
Warp = W  
Weft = B



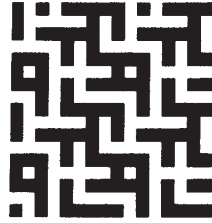
Warp = W  
Weft = BW



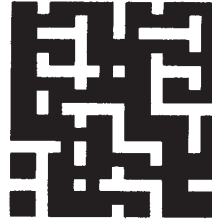
Warp = W  
Weft = BWWB



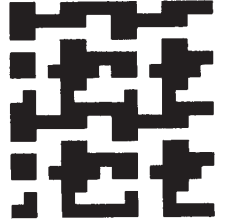
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

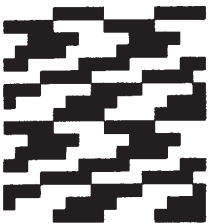


Warp = BBWW  
Weft = BWWB

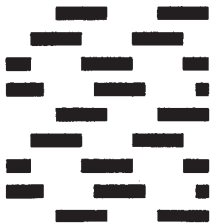


**Treading Sequence 12483675**

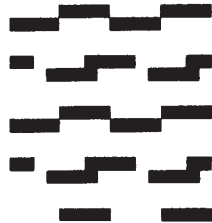
Warp = W  
Weft = B



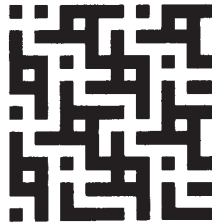
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

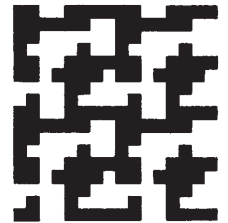
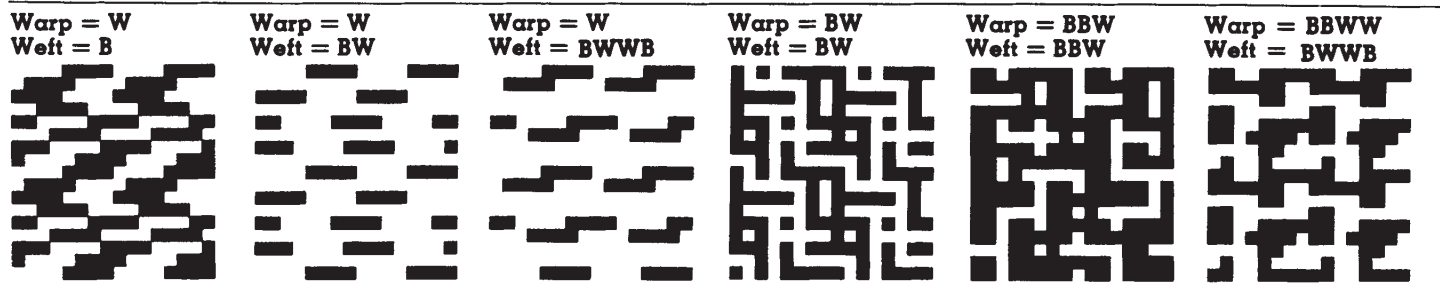
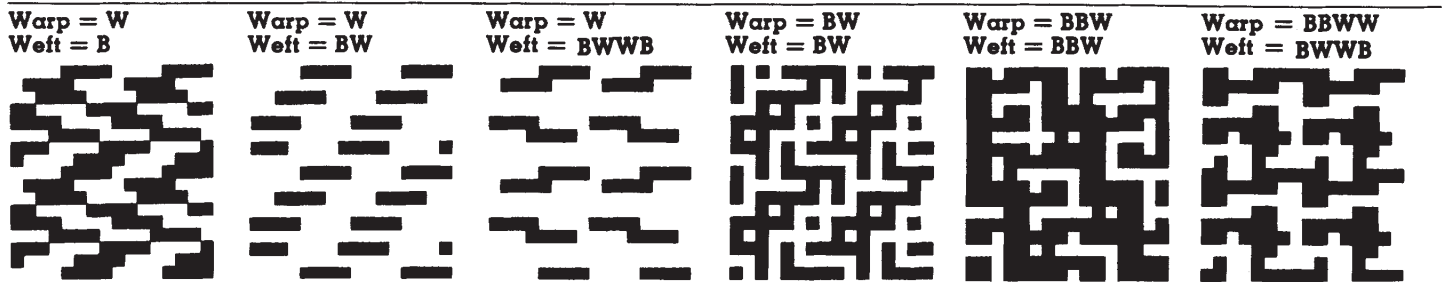


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**Treadling Sequence 12483756 (12564837)**

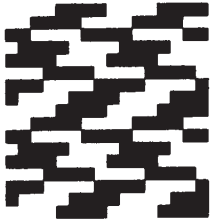


**Treadling Sequence 12485376 (12548637)**

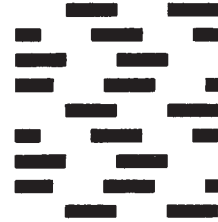


**Treading Sequence 12485637**

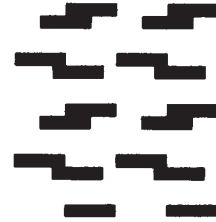
Warp = W  
Weft = B



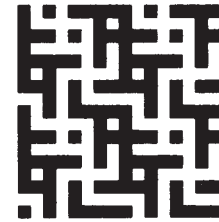
Warp = W  
Weft = BW



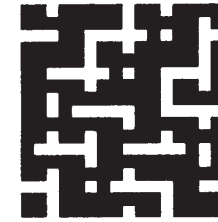
Warp = W  
Weft = BWWB



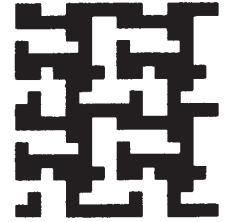
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

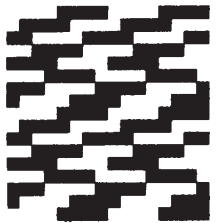


Warp = BBWW  
Weft = BWWB

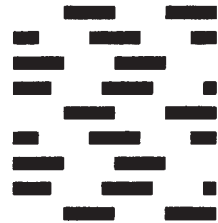


**Treading Sequence 12485736 (12584637)**

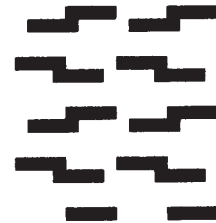
Warp = W  
Weft = B



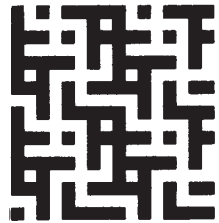
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



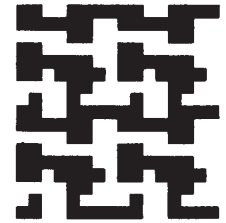
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

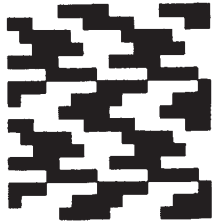


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12485763 (12576483)**

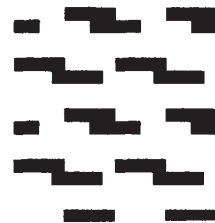
Warp = W  
Weft = B



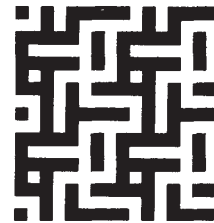
Warp = W  
Weft = BW



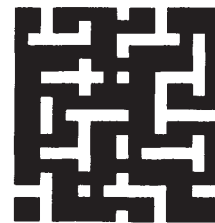
Warp = W  
Weft = BWWB



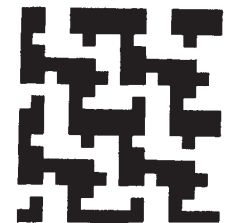
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

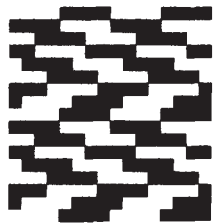


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12486375 (12648537)**

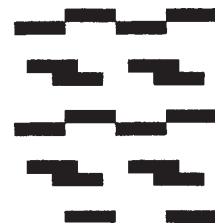
Warp = W  
Weft = B



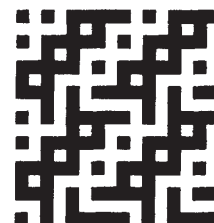
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



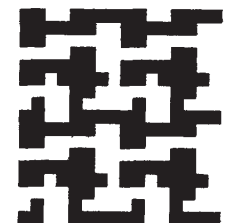
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

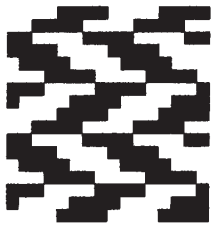


Warp = BBWW  
Weft = BWWB

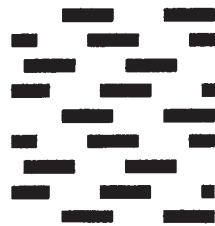


**Treadling Sequence 12486537**

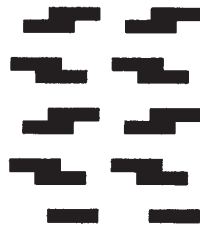
Warp = W  
Weft = B



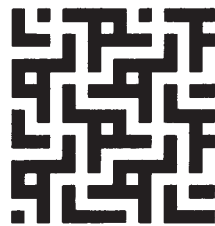
Warp = W  
Weft = BW



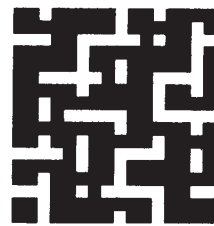
Warp = W  
Weft = BWWB



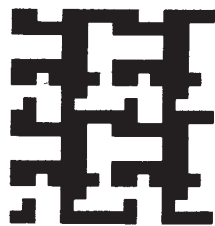
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

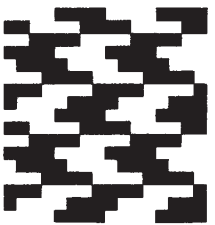


Warp = BBWW  
Weft = BWWB

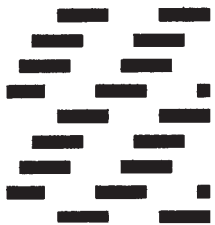


**Treadling Sequence 12486573 (12846537)**

Warp = W  
Weft = B



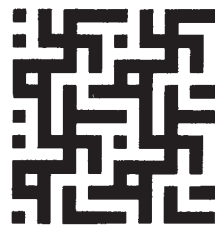
Warp = W  
Weft = BW



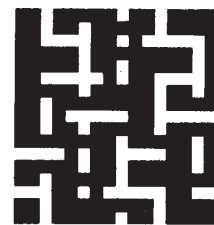
Warp = W  
Weft = BWWB



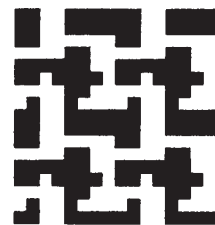
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

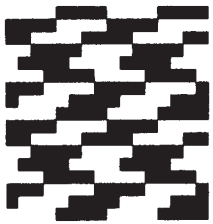


Warp = BBWW  
Weft = BWWB

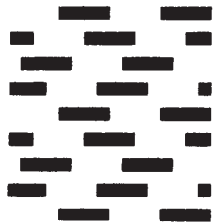


**Treadling Sequence 12486735 (12684537)**

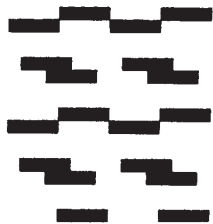
Warp = W  
Weft = B



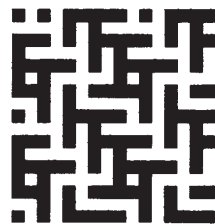
Warp = W  
Weft = BW



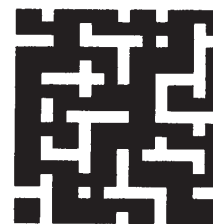
Warp = W  
Weft = BWWB



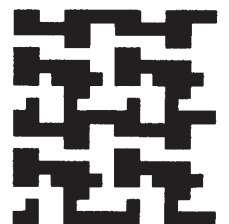
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

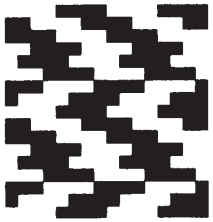


Warp = BBWW  
Weft = BWWB

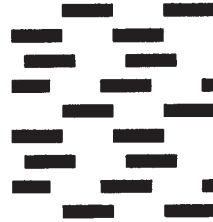


**Treadling Sequence 12486753 (12847653)**

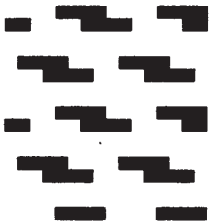
Warp = W  
Weft = B



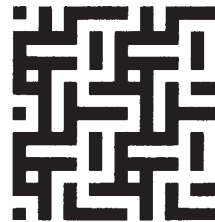
Warp = W  
Weft = BW



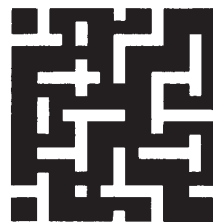
Warp = W  
Weft = BWWB



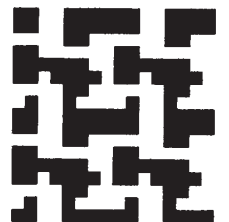
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

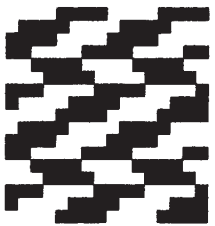


Warp = BBWW  
Weft = BWWB

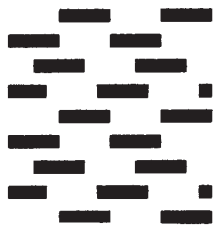


**Treadling Sequence 12487356**

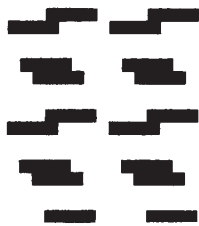
Warp = W  
Weft = B



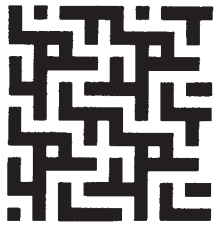
Warp = W  
Weft = BW



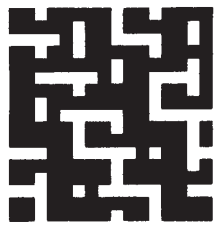
Warp = W  
Weft = BWWB



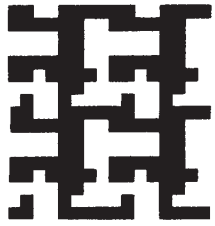
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

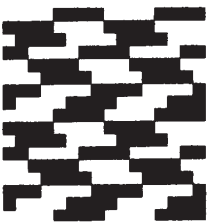


Warp = BBWW  
Weft = BWWB

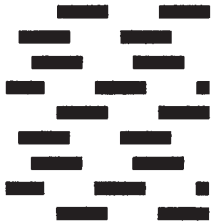


**Treadling Sequence 12487365 (12634875)**

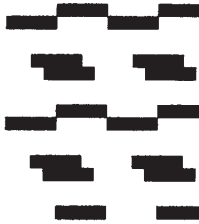
Warp = W  
Weft = B



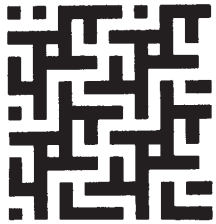
Warp = W  
Weft = BW



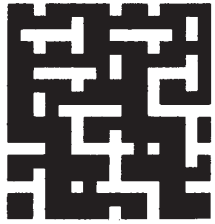
Warp = W  
Weft = BWWB



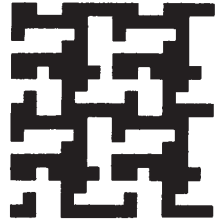
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

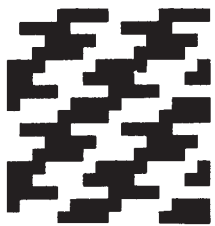


Warp = BBWW  
Weft = BWWB

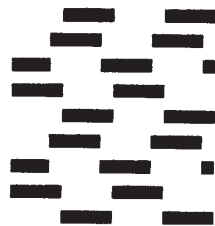


**Treadling Sequence 12534786**

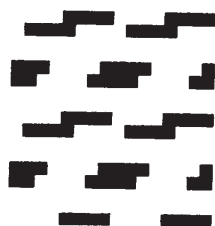
Warp = W  
Weft = B



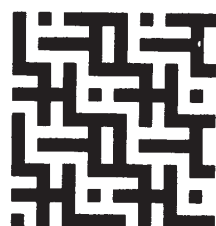
Warp = W  
Weft = BW



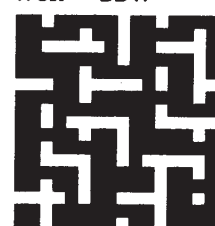
Warp = W  
Weft = BWWB



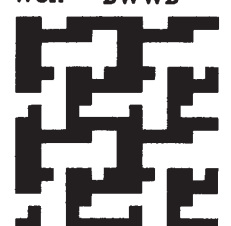
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

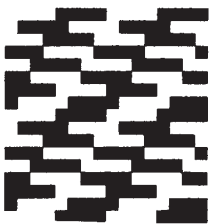


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12537486**

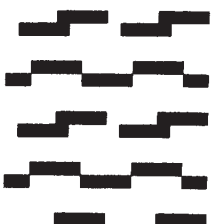
Warp = W  
Weft = B



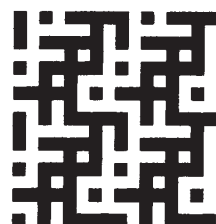
Warp = W  
Weft = BW



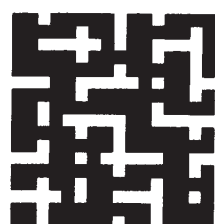
Warp = W  
Weft = BWWB



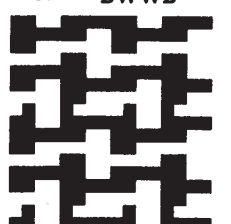
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



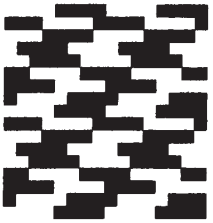
Warp = BBWW  
Weft = BWWB



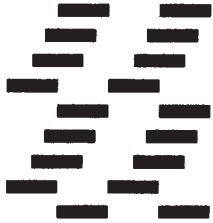


**Treadling Sequence 12537684 (12735486)**

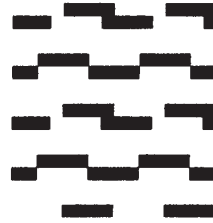
Warp = W  
Weft = B



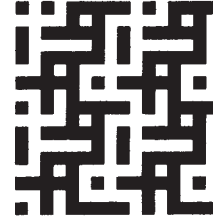
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



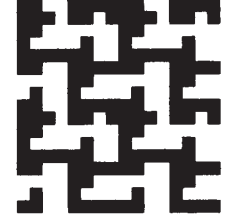
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

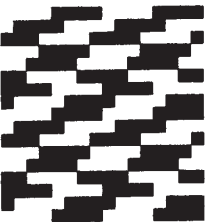


Warp = BBWW  
Weft = BWWB

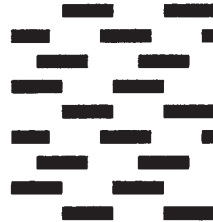


**Treadling Sequence 12537846 (12573486)**

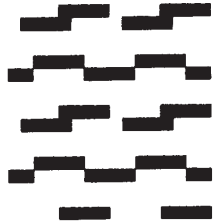
Warp = W  
Weft = B



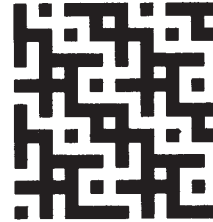
Warp = W  
Weft = BW



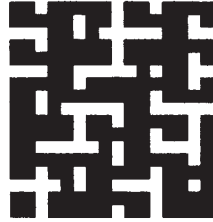
Warp = W  
Weft = BWWB



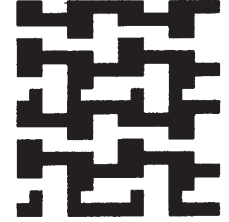
Warp = BW  
Weft = BW



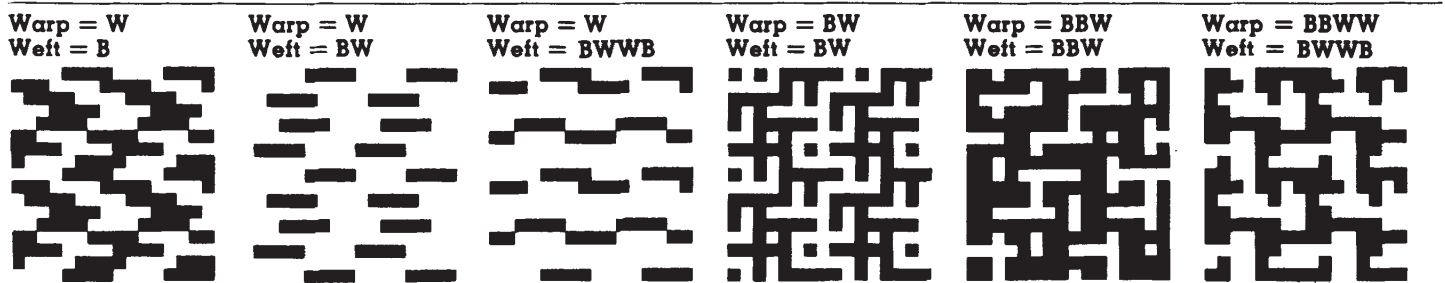
Warp = BBW  
Weft = BBW



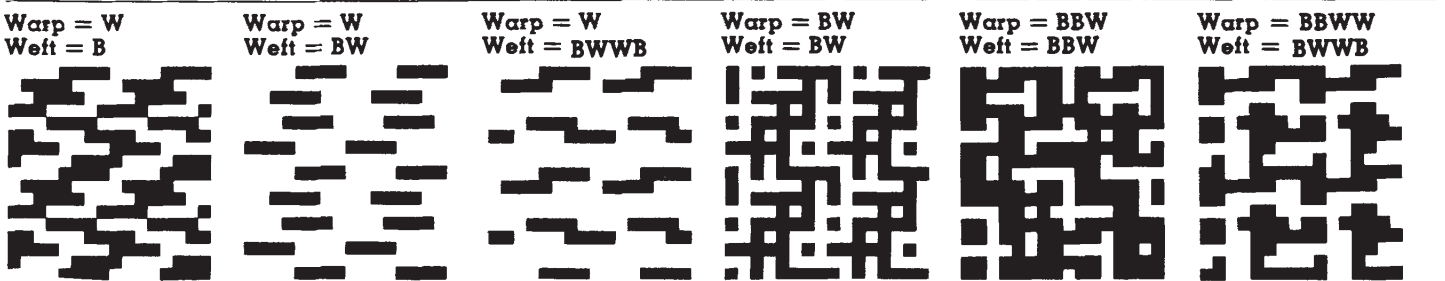
Warp = BBWW  
Weft = BWWB



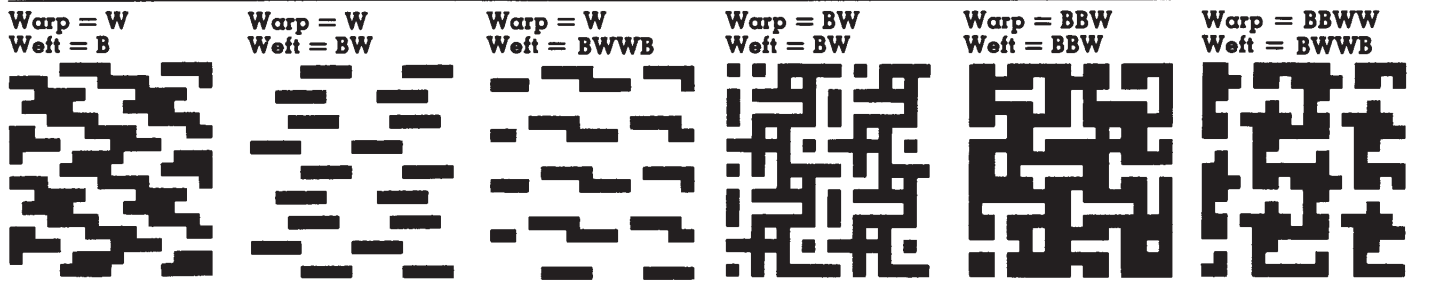
**Treadling Sequence 12537864 (12647853)**



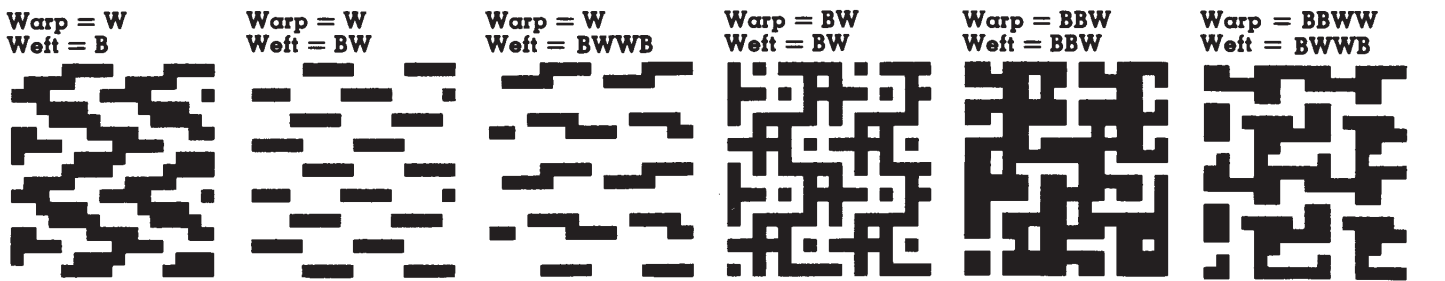
**Treadling Sequence 12538476 (12547386)**



**Treadling Sequence 12538674 (12745386)**

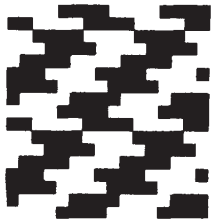


**Treadling Sequence 12538746**

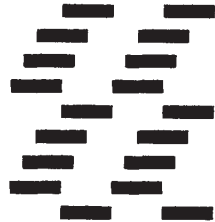


**Treadling Sequence 12546873 (12687453)**

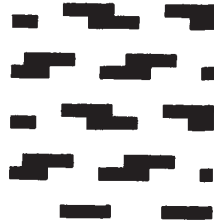
Warp = W  
Weft = B



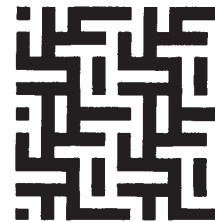
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



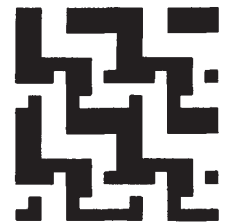
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

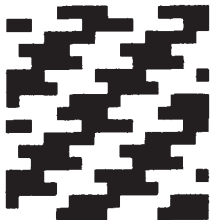


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12547683**

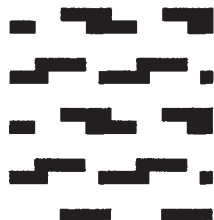
Warp = W  
Weft = B



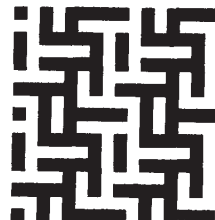
Warp = W  
Weft = BW



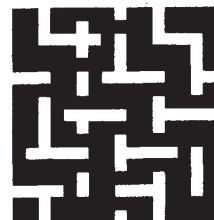
Warp = W  
Weft = BWWB



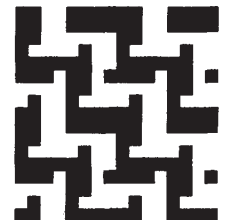
Warp = BW  
Weft = BW



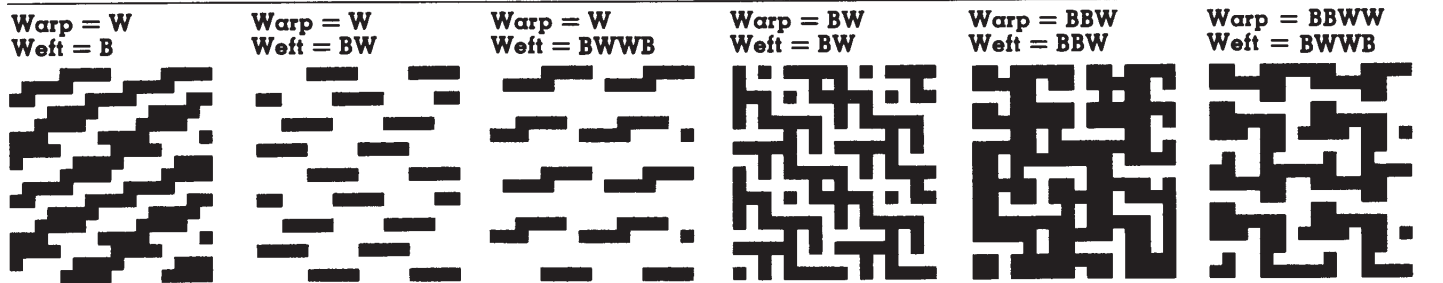
Warp = BBW  
Weft = BBW



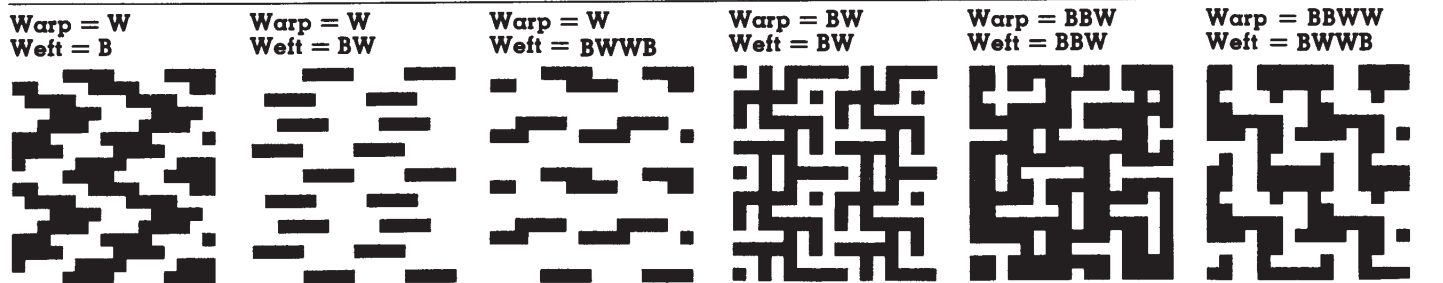
Warp = BBWW  
Weft = BWWB



**Treading Sequence 12547836**

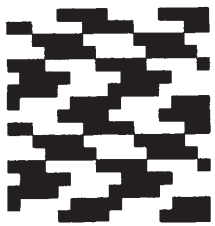


**Treading Sequence 12547863**



**Treadling Sequence 12548376**

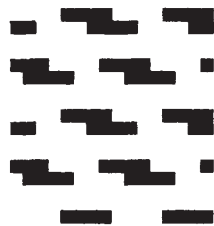
Warp = W  
Weft = B



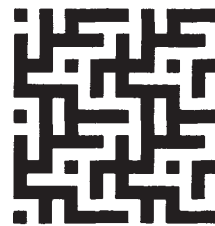
Warp = W  
Weft = BW



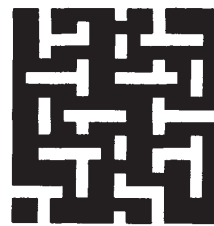
Warp = W  
Weft = BWWB



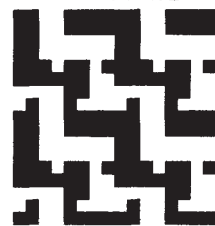
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

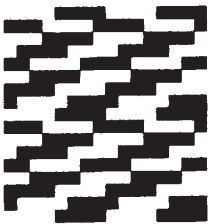


Warp = BBWW  
Weft = BWWB

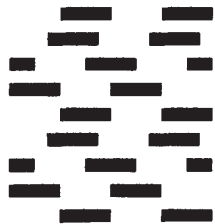


**Treadling Sequence 12548736 (12584376)**

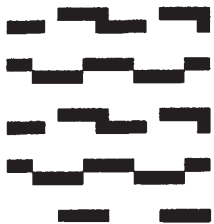
Warp = W  
Weft = B



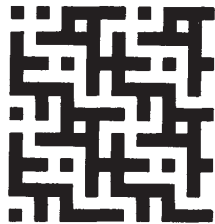
Warp = W  
Weft = BW



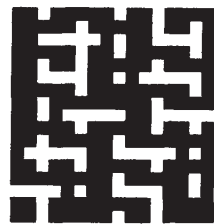
Warp = W  
Weft = BWWB



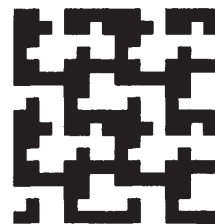
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

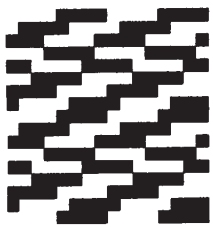


Warp = BBWW  
Weft = BWWB

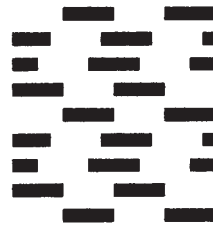


**Treadling Sequence 12563784**

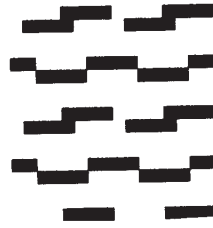
Warp = W  
Weft = B



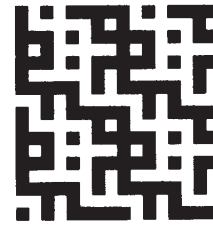
Warp = W  
Weft = BW



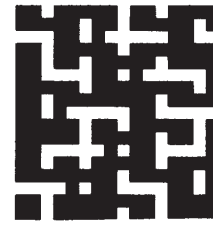
Warp = W  
Weft = BWWB



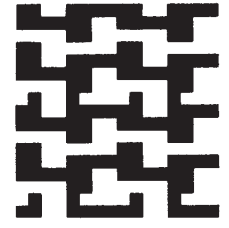
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

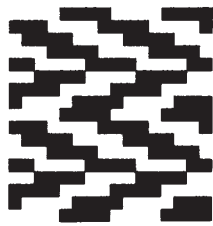


Warp = BBWW  
Weft = BWWB

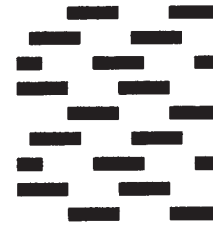


**Treadling Sequence 12563874**

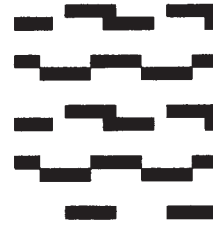
Warp = W  
Weft = B



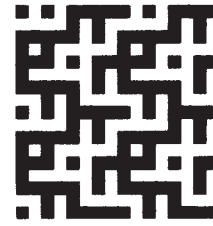
Warp = W  
Weft = BW



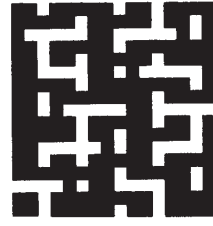
Warp = W  
Weft = BWWB



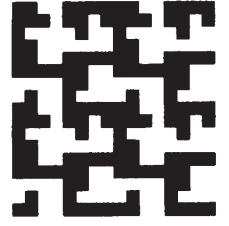
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

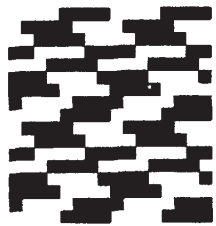


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12564783**

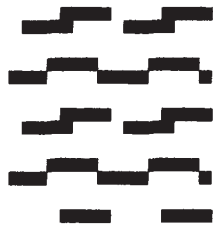
Warp = W  
Weft = B



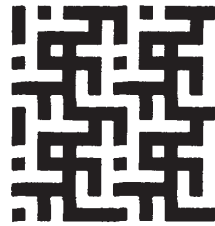
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



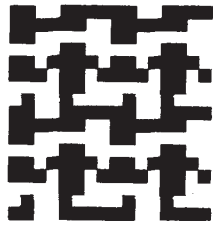
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

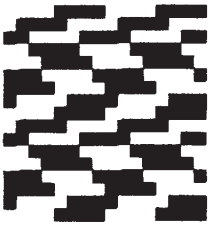


Warp = BBWW  
Weft = BWWB

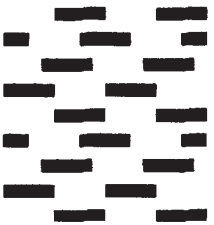


**Treadling Sequence 12573684 (12735846)**

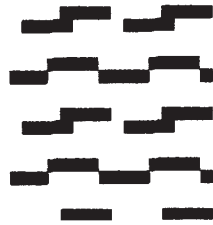
Warp = W  
Weft = B



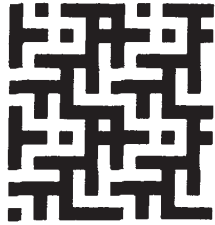
Warp = W  
Weft = BW



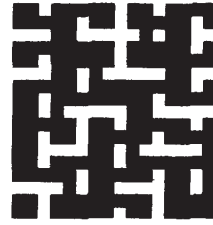
Warp = W  
Weft = BWWB



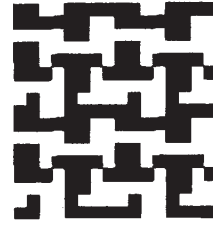
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



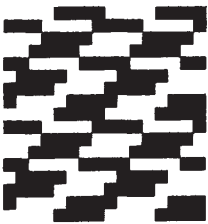
Warp = BBWW  
Weft = BWWB



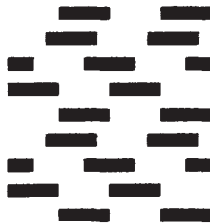


**Treading Sequence 12573846**

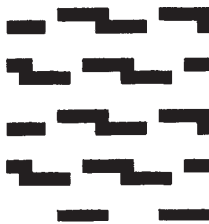
Warp = W  
Weft = B



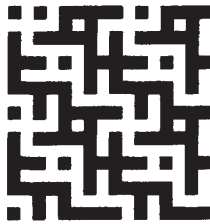
Warp = W  
Weft = BW



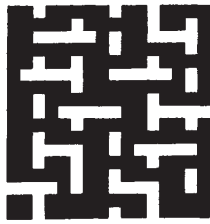
Warp = W  
Weft = BWWB



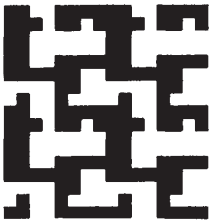
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

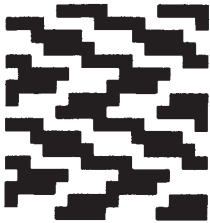


Warp = BBWW  
Weft = BWWB

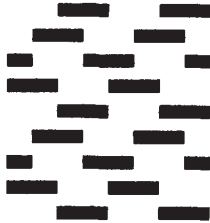


**Treadling Sequence 12573864 (12753846)**

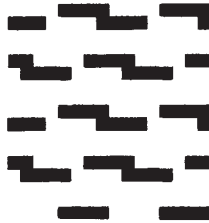
Warp = W  
Weft = B



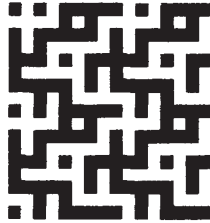
Warp = W  
Weft = BW



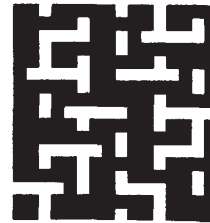
Warp = W  
Weft = BWWB



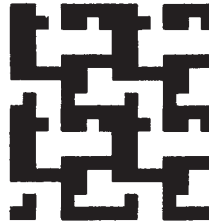
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

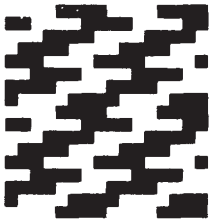


Warp = BBWW  
Weft = BWWB

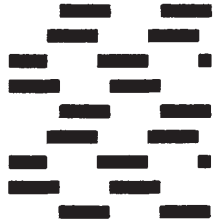


**Treadling Sequence 12574683 (12835746)**

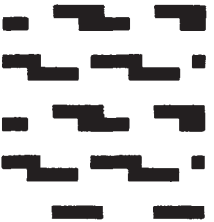
Warp = W  
Weft = B



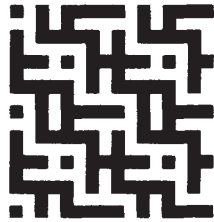
Warp = W  
Weft = BW



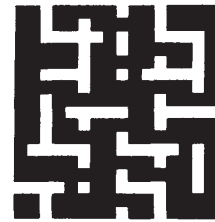
Warp = W  
Weft = BWWB



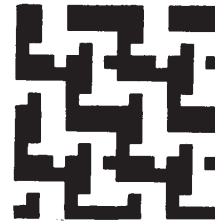
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

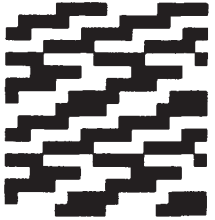


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12574836 (12583746)**

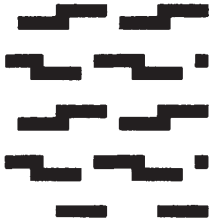
Warp = W  
Weft = B



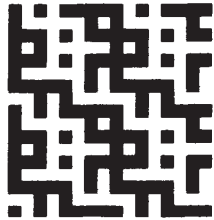
Warp = W  
Weft = BW



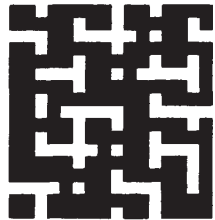
Warp = W  
Weft = BWWB



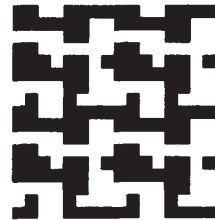
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

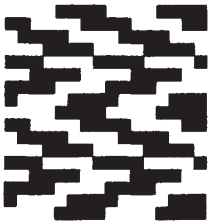


Warp = BBWW  
Weft = BWWB

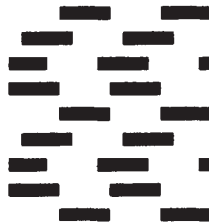


**Treadling Sequence 12574863 (12853746)**

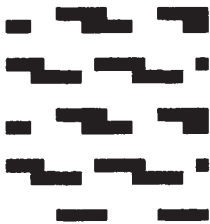
Warp = W  
Weft = B



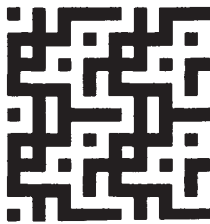
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



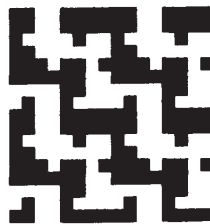
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

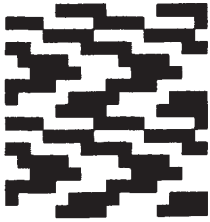


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12576384 (12584763)**

Warp = W  
Weft = B



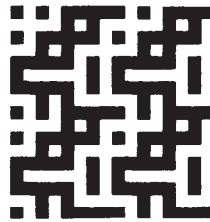
Warp = W  
Weft = BW



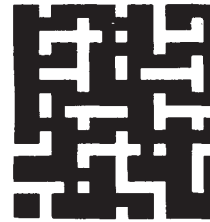
Warp = W  
Weft = BWWB



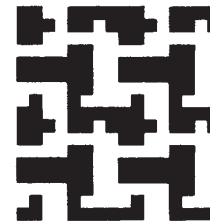
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

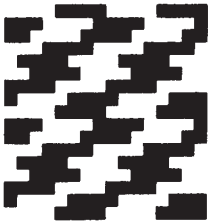


Warp = BBWW  
Weft = BWWB

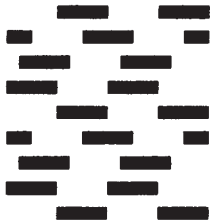


**Treadling Sequence 12576834**

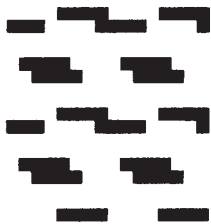
Warp = W  
Weft = B



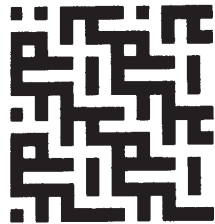
Warp = W  
Weft = BW



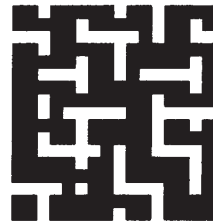
Warp = W  
Weft = BWWB



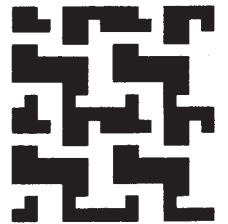
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

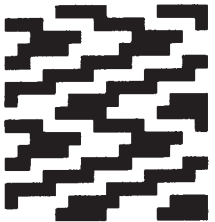


Warp = BBWW  
Weft = BWWB

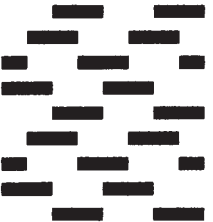


**Treadling Sequence 12583674**

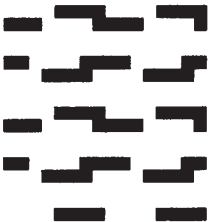
Warp = W  
Weft = B



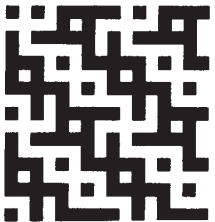
Warp = W  
Weft = BW



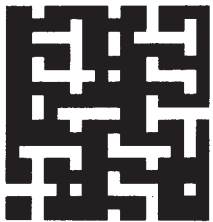
Warp = W  
Weft = BWWB



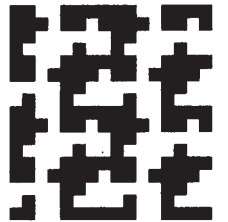
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

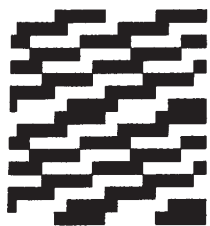


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12584736**

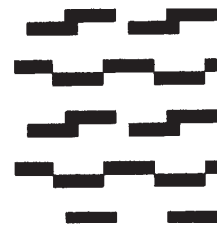
Warp = W  
Weft = B



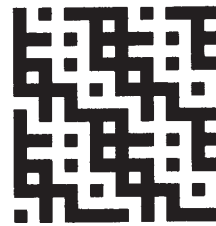
Warp = W  
Weft = BW



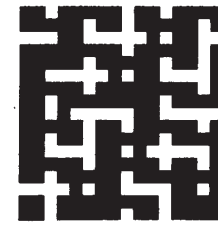
Warp = W  
Weft = BWWB



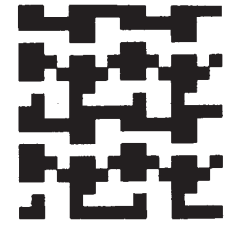
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

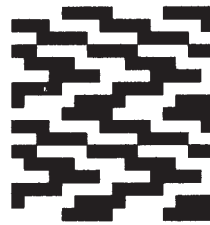


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12586374 (12748536)**

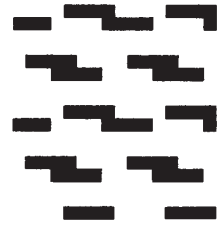
Warp = W  
Weft = B



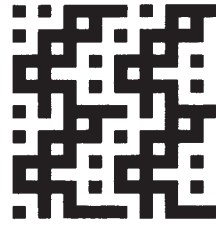
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



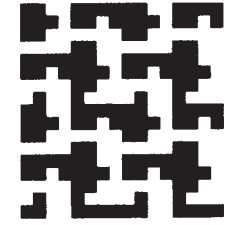
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

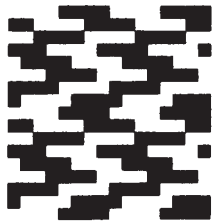
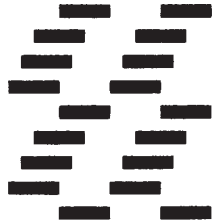
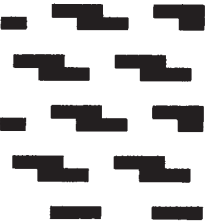
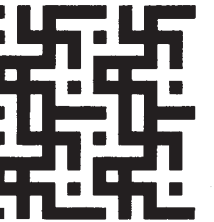




Warp = BBWW  
Weft = BWWB



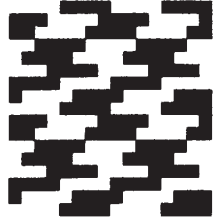
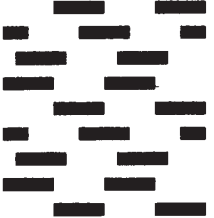
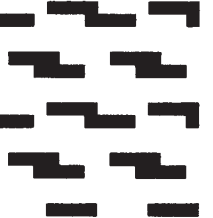
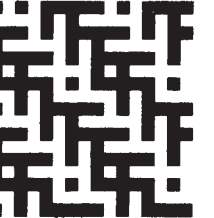
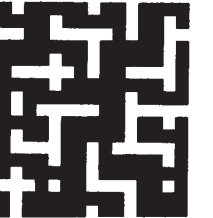

**Treading Sequence 12586473 (12847536)**

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Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

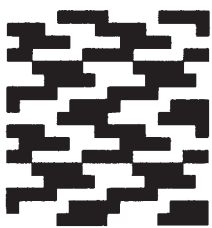
**Treadling Sequence 12586734 (1267834)**

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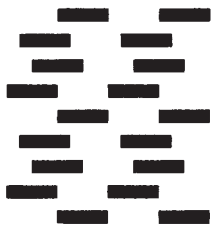
Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

**Treadling Sequence 12587364 (12635874)**

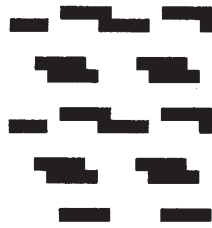
Warp = W  
Weft = B



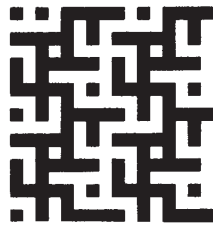
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



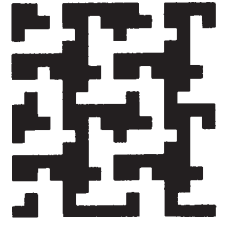
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

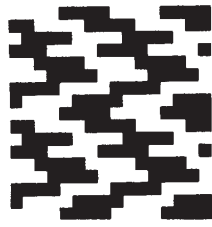


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12587463**

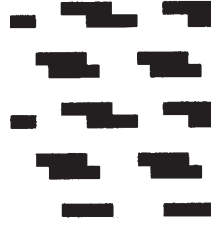
Warp = W  
Weft = B



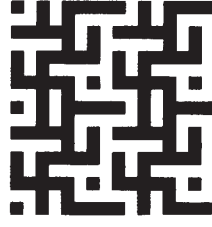
Warp = W  
Weft = BW



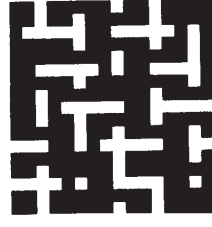
Warp = W  
Weft = BWWB



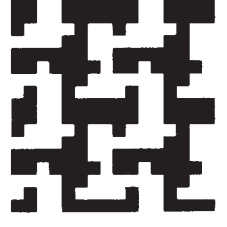
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

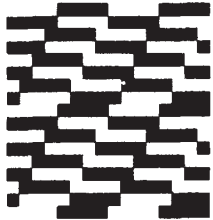


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12637485**

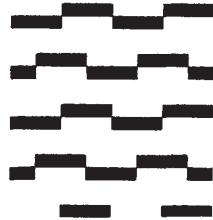
Warp = W  
Weft = B



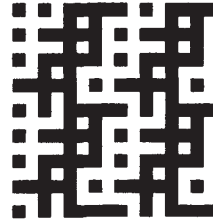
Warp = W  
Weft = BW



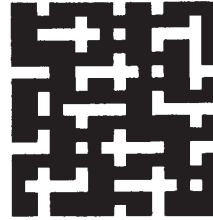
Warp = W  
Weft = BWWB



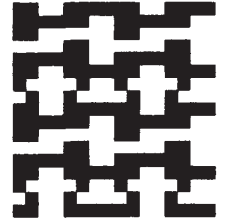
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

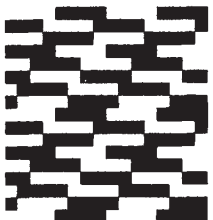


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12637584 (12736485)**

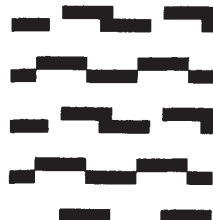
Warp = W  
Weft = B



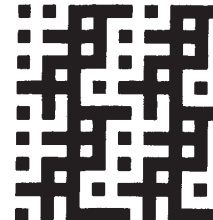
Warp = W  
Weft = BW



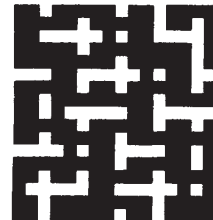
Warp = W  
Weft = BWWB



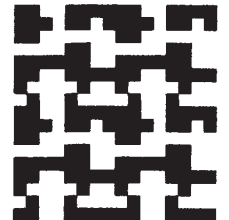
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



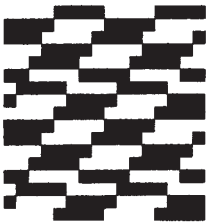
Warp = BBWW  
Weft = BWWB





**Treadling Sequence 12637845**

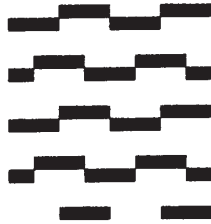
Warp = W  
Weft = B



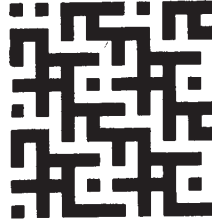
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



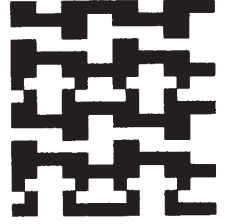
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

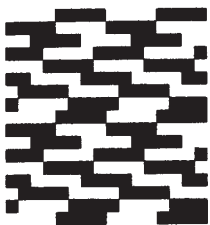


Warp = BBWW  
Weft = BWWB

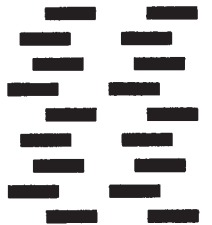


**Treadling Sequence 12638475 (12647385)**

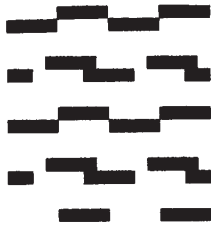
Warp = W  
Weft = B



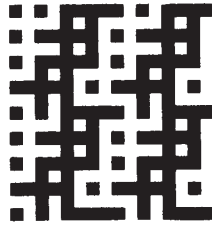
Warp = W  
Weft = BW



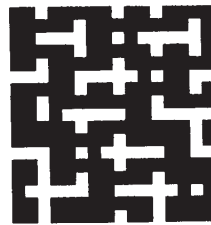
Warp = W  
Weft = BWWB



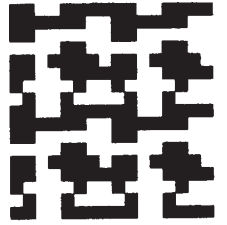
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

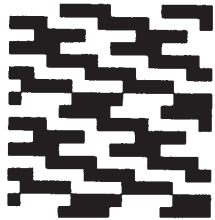


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12638574 (12746385)**

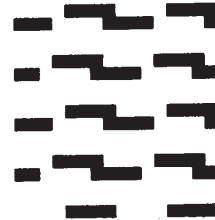
Warp = W  
Weft = B



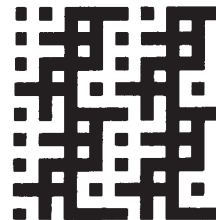
Warp = W  
Weft = BW



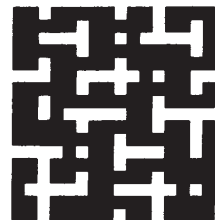
Warp = W  
Weft = BWWB



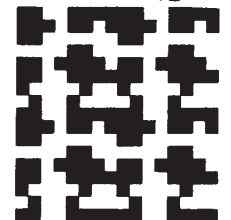
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

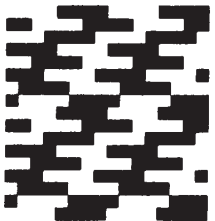


Warp = BBWW  
Weft = BWWB

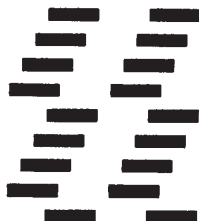


**Treadling Sequence 12647583 (12836475)**

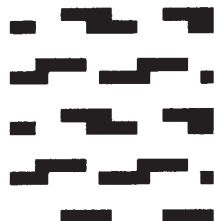
Warp = W  
Weft = B



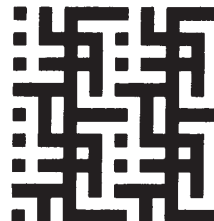
Warp = W  
Weft = BW



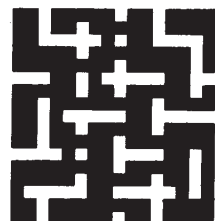
Warp = W  
Weft = BWWB



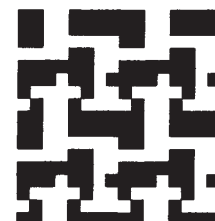
Warp = BW  
Weft = BW



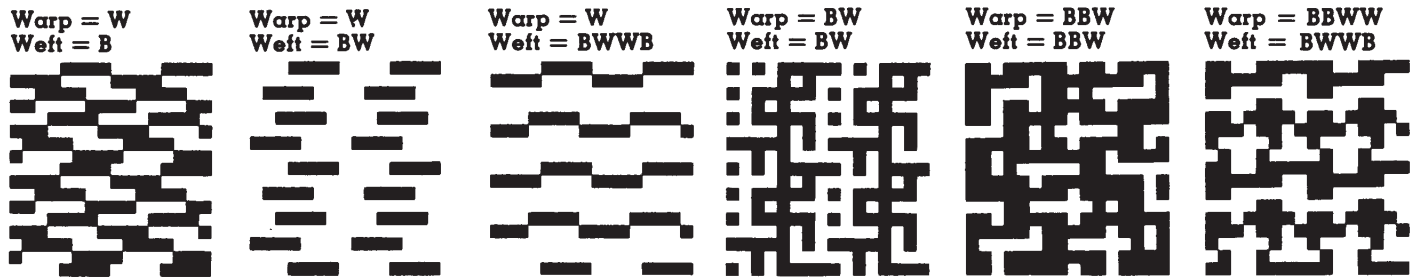
Warp = BBW  
Weft = BBW



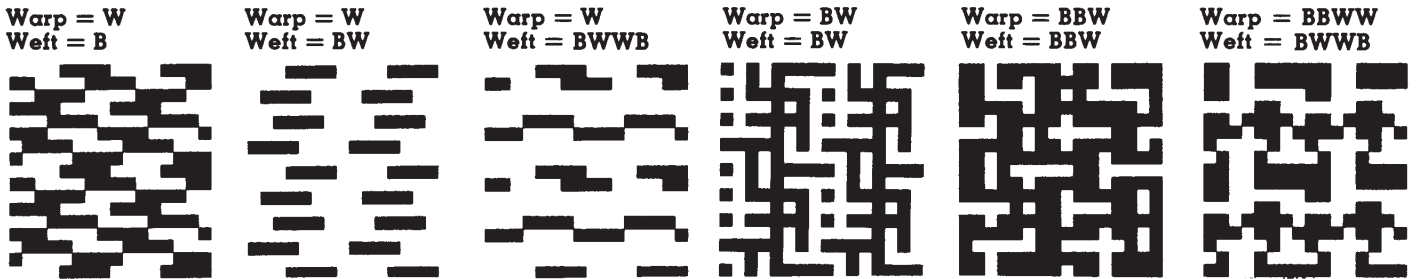
Warp = BBWW  
Weft = BWWB



**Treading Sequence 12648375**

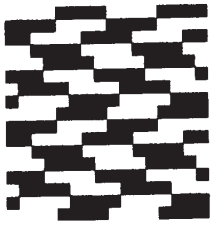


**Treading Sequence 12648573 (12846573)**

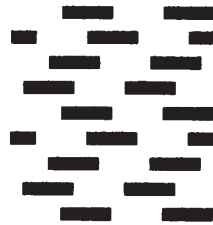


**Treading Sequence 12648735**

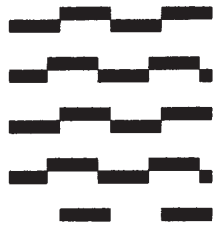
Warp = W  
Weft = B



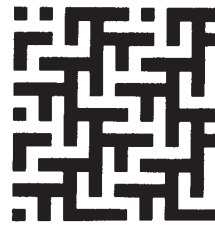
Warp = W  
Weft = BW



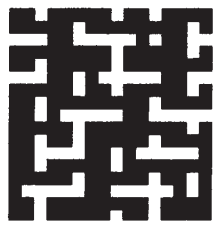
Warp = W  
Weft = BWWB



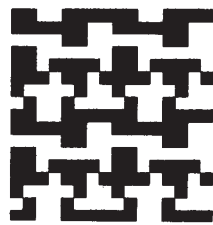
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

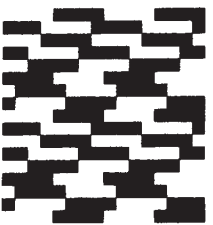


Warp = BBWW  
Weft = BWWB

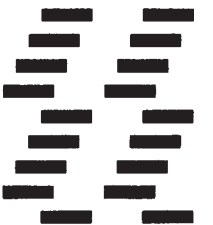


**Treading Sequence 12657384 (12738465)**

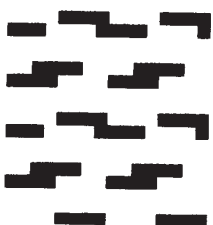
Warp = W  
Weft = B



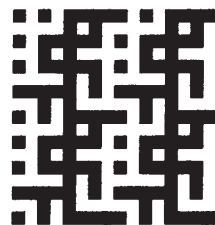
Warp = W  
Weft = BW



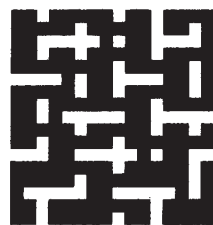
Warp = W  
Weft = BWWB



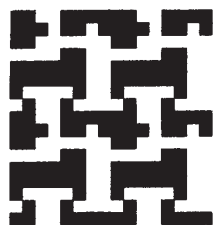
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

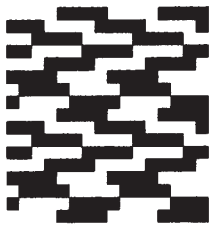


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12658374 (12743865)**

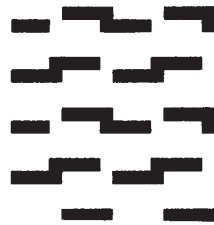
Warp = W  
Weft = B



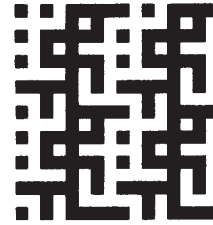
Warp = W  
Weft = BW



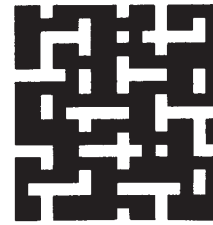
Warp = W  
Weft = BWWB



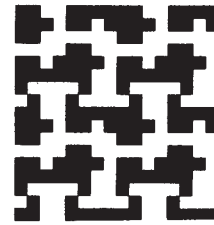
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

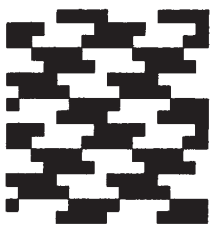


Warp = BBWW  
Weft = BWWB



**Treading Sequence 12658734**

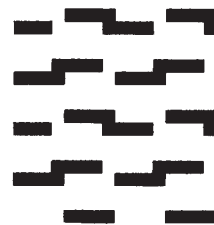
Warp = W  
Weft = B



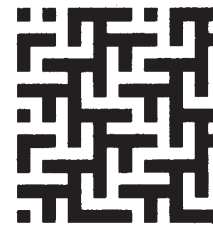
Warp = W  
Weft = BW



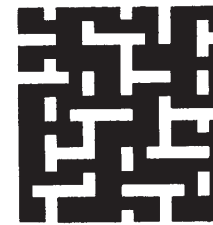
Warp = W  
Weft = BWWB



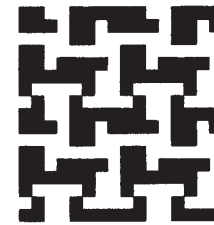
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

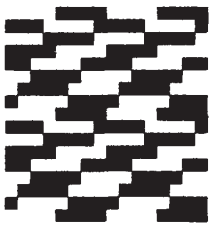


Warp = BBWW  
Weft = BWWB

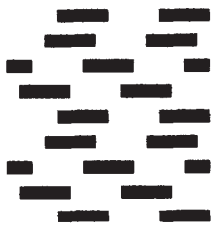


**Treadling Sequence 12673584 (12674835)**

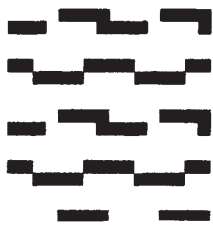
Warp = W  
Weft = B



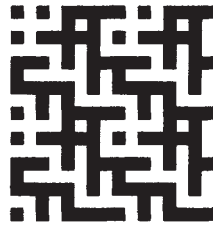
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



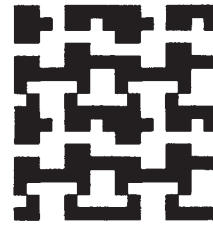
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

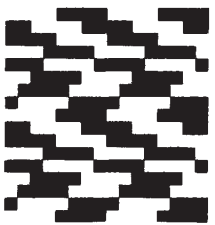


Warp = BBWW  
Weft = BWWB

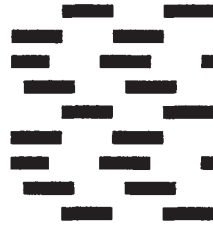


**Treadling Sequence 12674853 (12675384)**

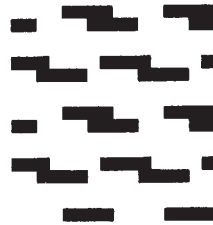
Warp = W  
Weft = B



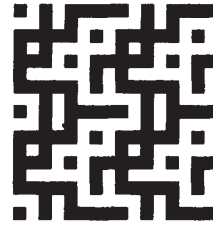
Warp = W  
Weft = BW



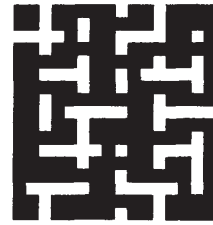
Warp = W  
Weft = BWWB



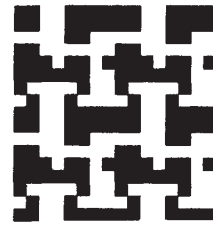
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

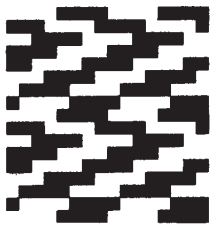


Warp = BBWW  
Weft = BWWB

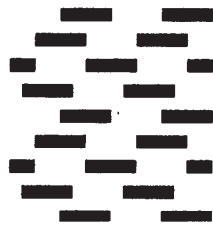


**Treading Sequence 12683574 (12746835)**

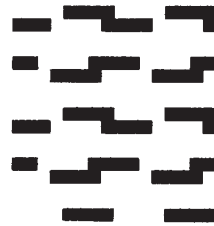
Warp = W  
Weft = B



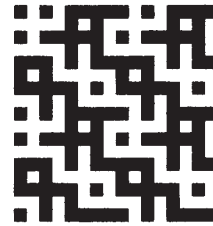
Warp = W  
Weft = BW



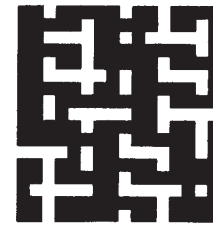
Warp = W  
Weft = BWWB



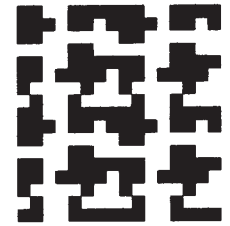
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

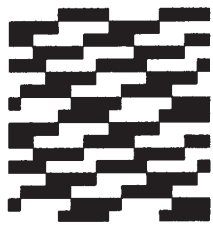


Warp = BBWW  
Weft = BWWB

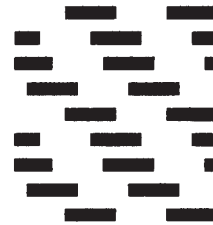


**Treading Sequence 12684735**

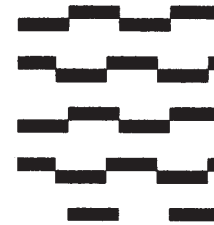
Warp = W  
Weft = B



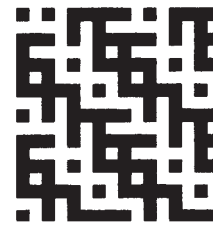
Warp = W  
Weft = BW



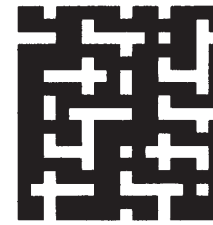
Warp = W  
Weft = BWWB



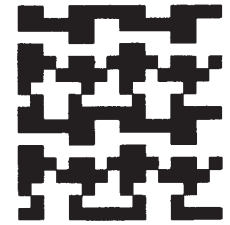
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

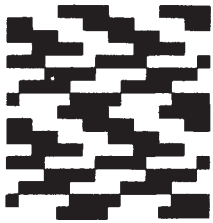


Warp = BBWW  
Weft = BWWB

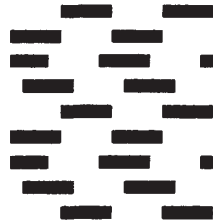


**Treadling Sequence 12684753 (12864735)**

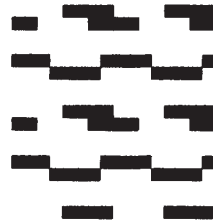
Warp = W  
Weft = B



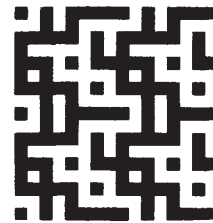
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



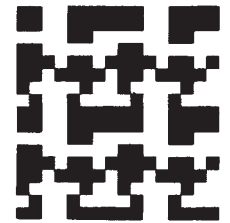
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

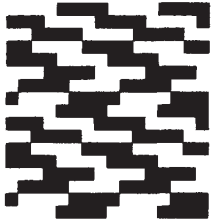


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12685374 (12748635)**

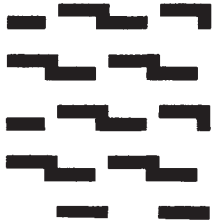
Warp = W  
Weft = B



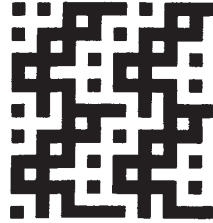
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



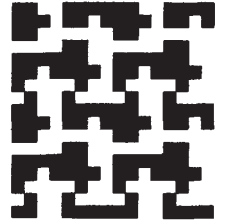
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



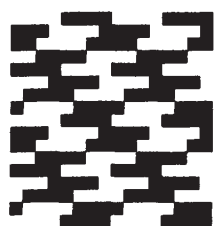
Warp = BBWW  
Weft = BWWB





**Treadling Sequence 12685734 (12685734)**

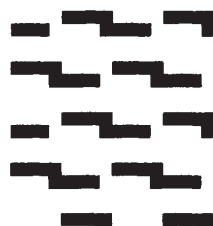
Warp = W  
Weft = B



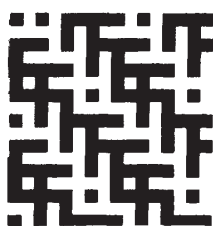
Warp = W  
Weft = BW



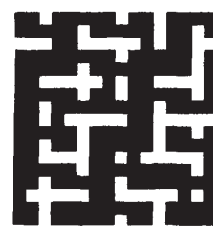
Warp = W  
Weft = BWWB



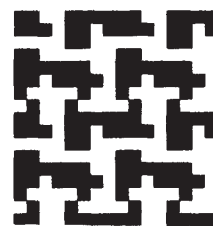
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

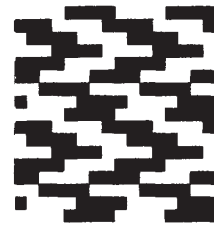


Warp = BBWW  
Weft = BWWB

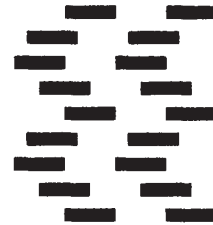


**Treadling Sequence 12735864 (12753684)**

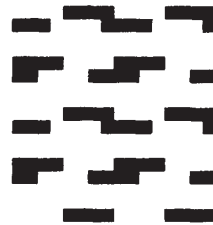
Warp = W  
Weft = B



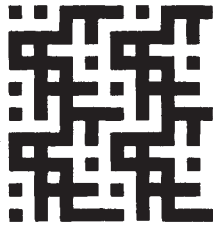
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



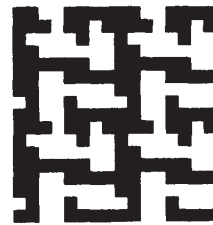
Warp = BW  
Weft = BW



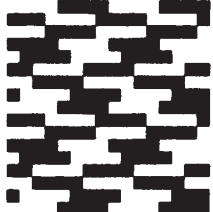
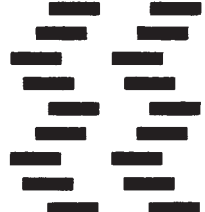
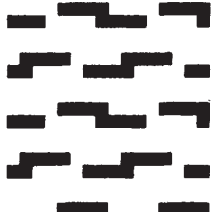
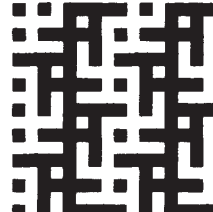
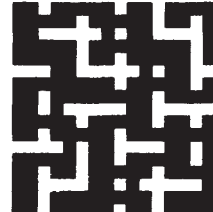
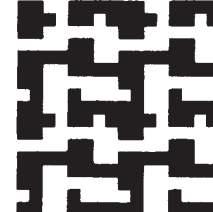
Warp = BBW  
Weft = BBW



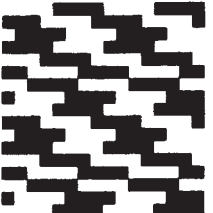
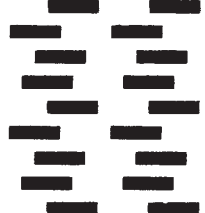
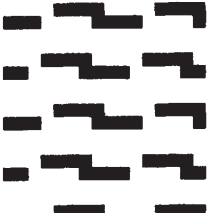
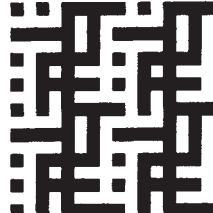
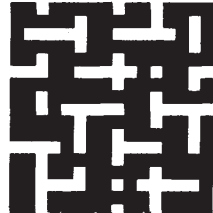
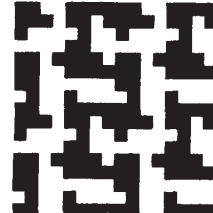
Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12736584**

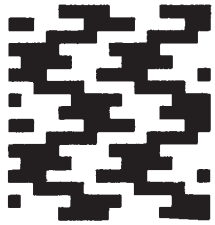
Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

**Treadling Sequence 12738564 (12748563)**

Warp = W Weft = B	Warp = W Weft = BW	Warp = W Weft = BWWB	Warp = BW Weft = BW	Warp = BBW Weft = BBW	Warp = BBWW Weft = BWWB
					

**Treading Sequence 12746583**

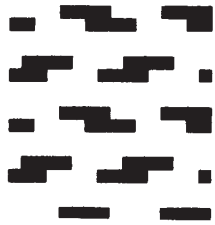
Warp = W  
Weft = B



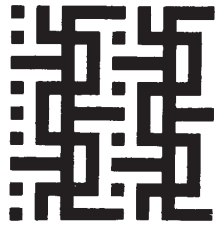
Warp = W  
Weft = BW



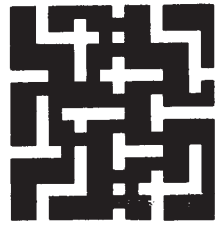
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



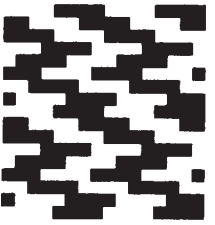
Warp = BBWW  
Weft = BWWB



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**Treading Sequence 12746853 (12863574)**

Warp = W  
Weft = B



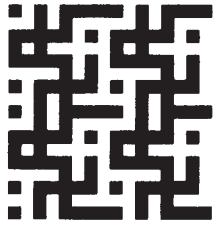
Warp = W  
Weft = BW



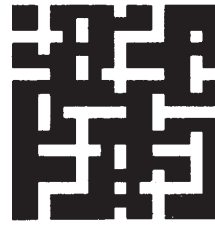
Warp = W  
Weft = BWWB



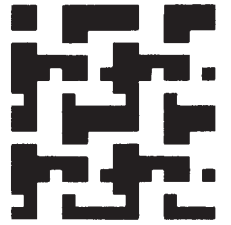
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

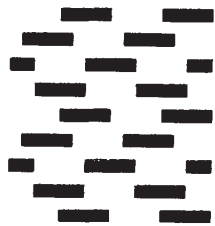


**Treading Sequence 12753864**

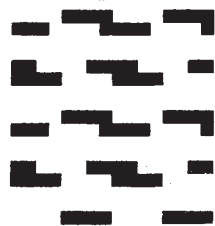
Warp = W  
Weft = B



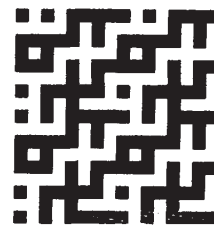
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



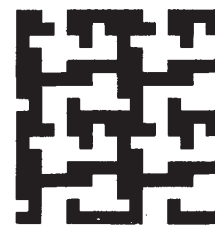
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

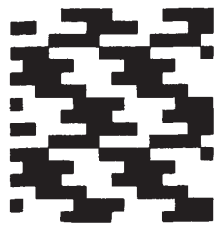


Warp = BBWW  
Weft = BWWB

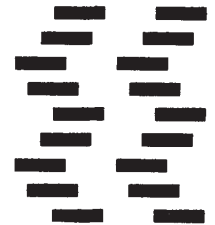


**Treading Sequence 12756483 (12837564)**

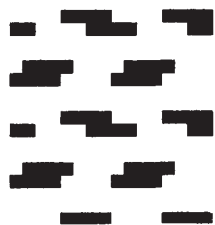
Warp = W  
Weft = B



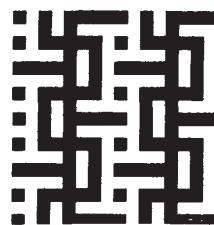
Warp = W  
Weft = BW



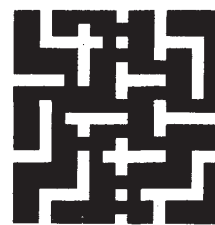
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

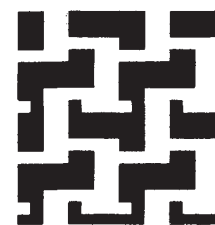
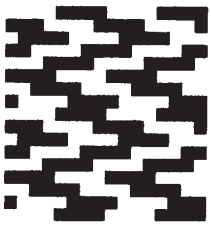


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**Treading Sequence 12758364**

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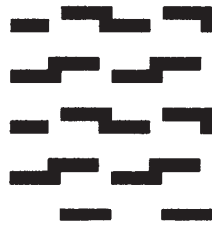
Warp = W  
Weft = B



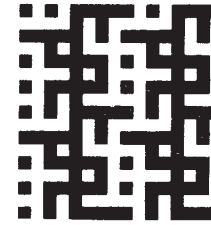
Warp = W  
Weft = BW



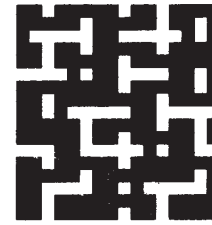
Warp = W  
Weft = BWWB



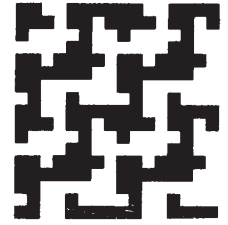
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



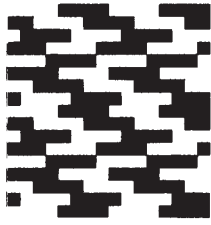
Warp = BBWW  
Weft = BWWB



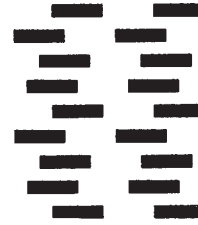
**Treading Sequence 12758463 (12857364)**

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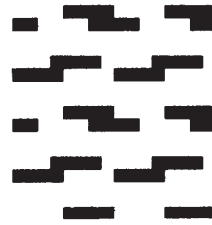
Warp = W  
Weft = B



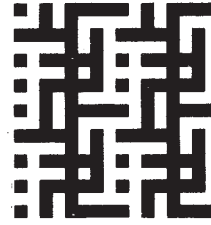
Warp = W  
Weft = BW



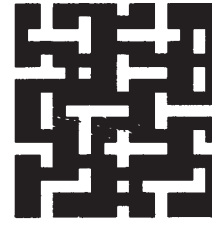
Warp = W  
Weft = BWWB



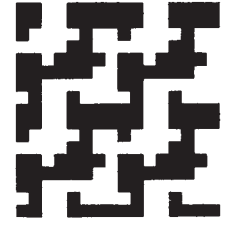
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

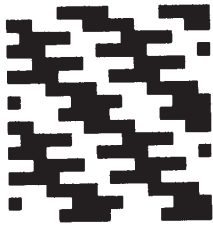


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 12758634**

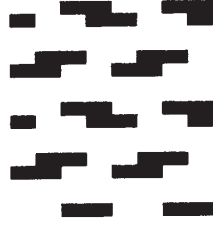
Warp = W  
Weft = B



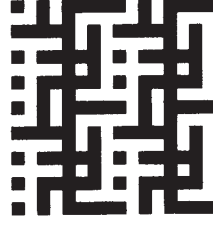
Warp = W  
Weft = BW



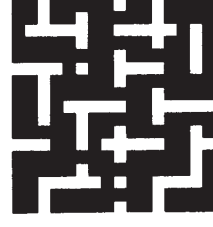
Warp = W  
Weft = BWWB



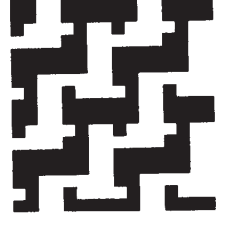
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

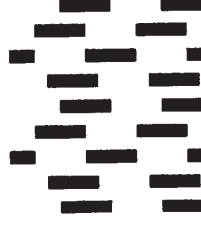


**Treadling Sequence 12785634**

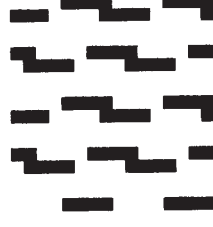
Warp = W  
Weft = B



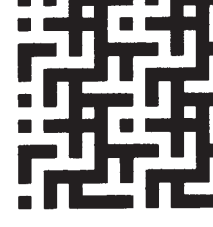
Warp = W  
Weft = BW



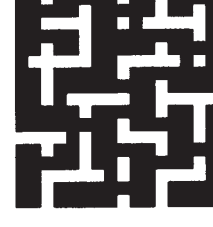
Warp = W  
Weft = BWWB



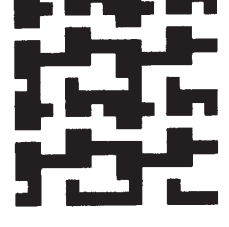
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

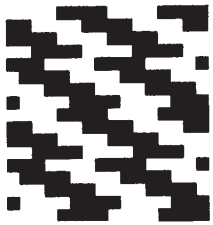


Warp = BBWW  
Weft = BWWB

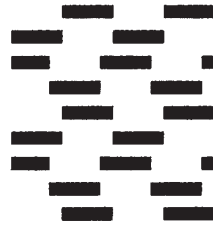


**Treadling Sequence 12786453**

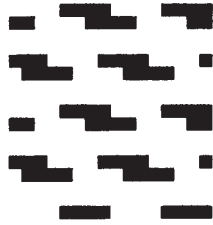
Warp = W  
Weft = B



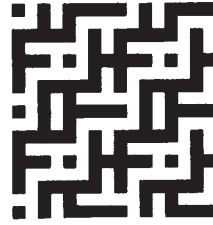
Warp = W  
Weft = BW



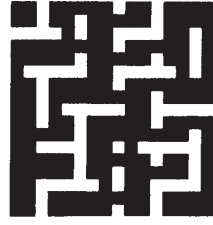
Warp = W  
Weft = BWWB



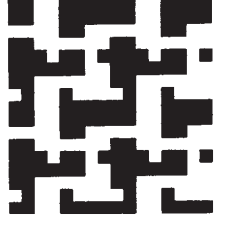
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

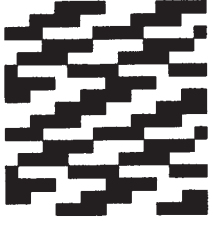


Warp = BBWW  
Weft = BWWB

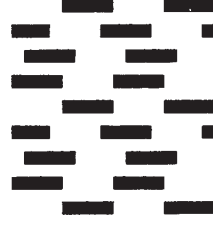


**Treadling Sequence 12846573**

Warp = W  
Weft = B



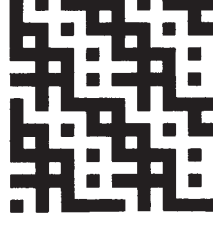
Warp = W  
Weft = BW



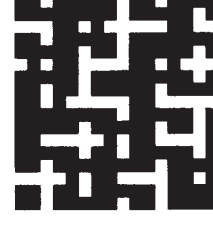
Warp = W  
Weft = BWWB



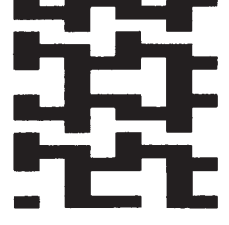
Warp = BW  
Weft = BW



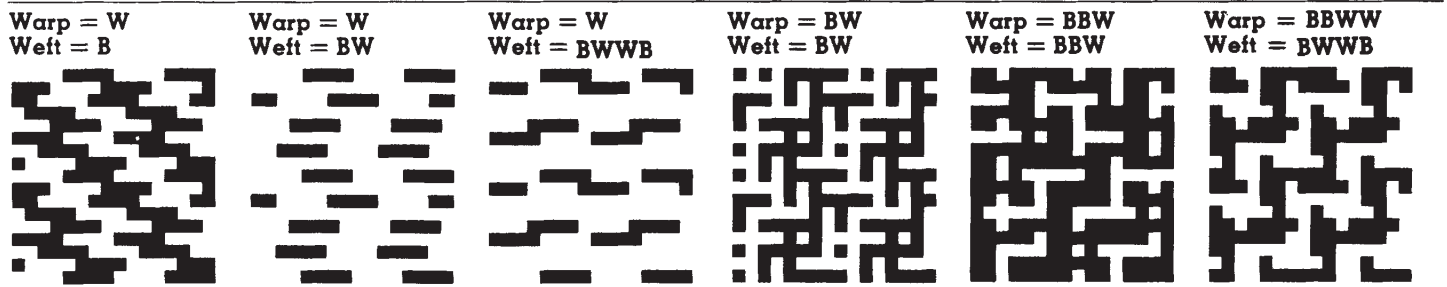
Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treading Sequence 12857463**



**Treading Sequence 12863574**

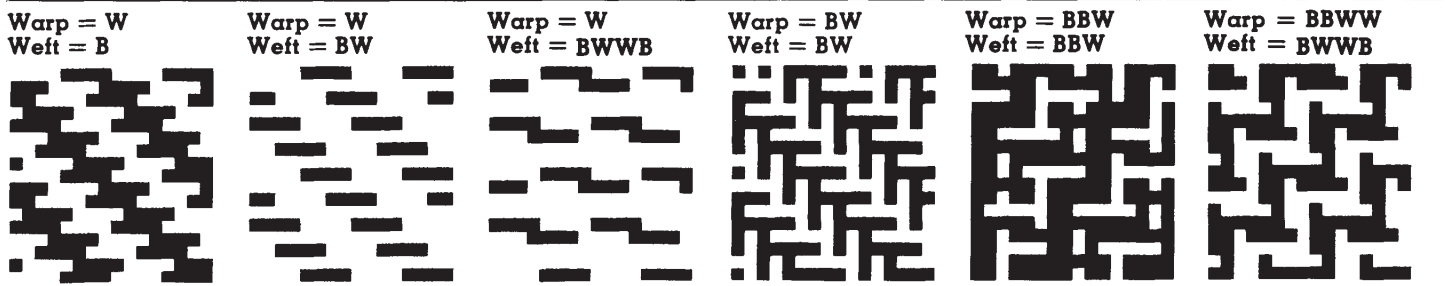
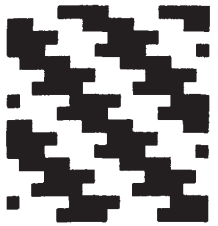


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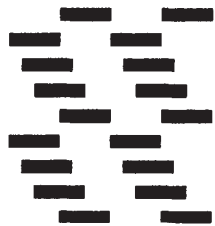


**Treadling Sequence 12864753**

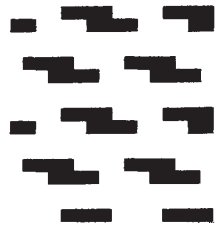
Warp = W  
Weft = B



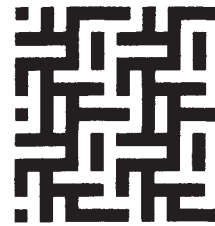
Warp = W  
Weft = BW



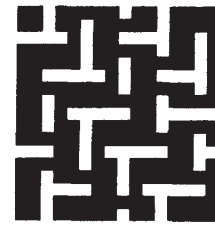
Warp = W  
Weft = BWWB



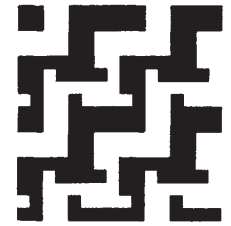
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

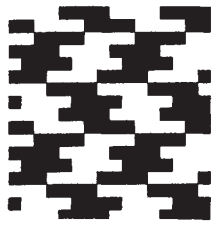


Warp = BBWW  
Weft = BWWB

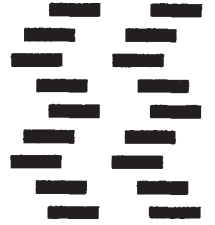


**Treadling Sequence 13526847 (13576284)**

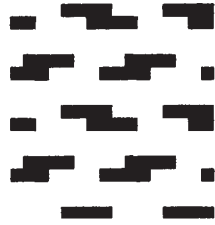
Warp = W  
Weft = B



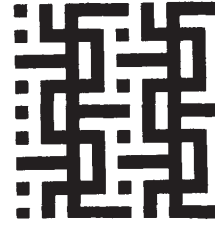
Warp = W  
Weft = BW



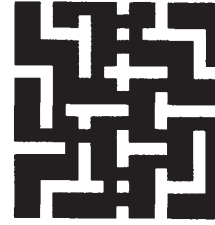
Warp = W  
Weft = BWWB



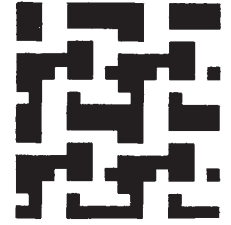
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

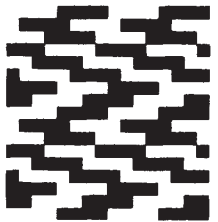


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 13527486 (13586274)**

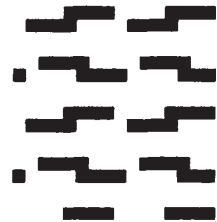
Warp = W  
Weft = B



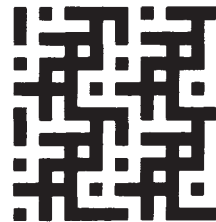
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



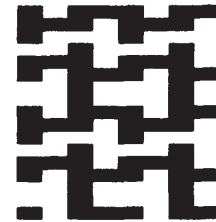
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

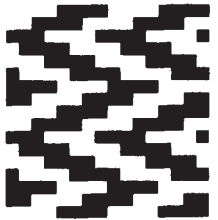


Warp = BBWW  
Weft = BWWB

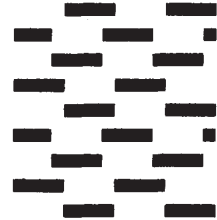


**Treadling Sequence 13528647**

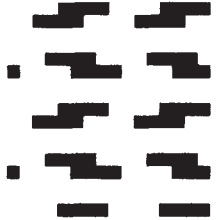
Warp = W  
Weft = B



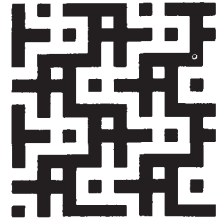
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



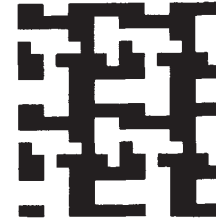
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

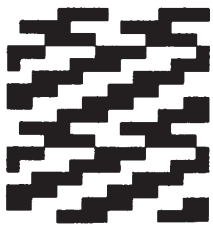


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 13572486 (13572846)**

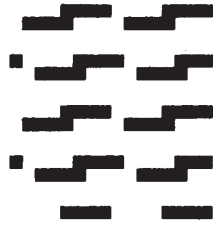
Warp = W  
Weft = B



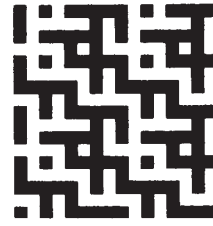
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



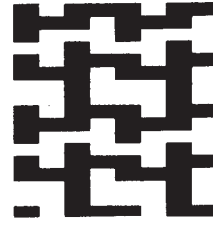
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

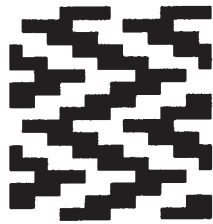


Warp = BBWW  
Weft = BWWB

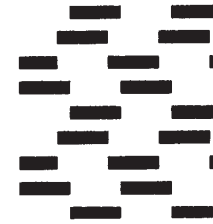


**Treadling Sequence 13574286**

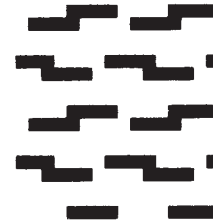
Warp = W  
Weft = B



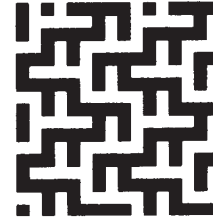
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



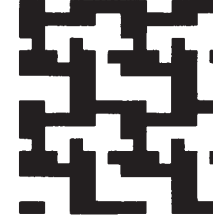
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

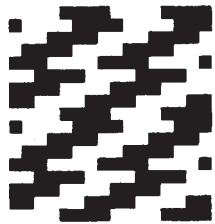


Warp = BBWW  
Weft = BWWB

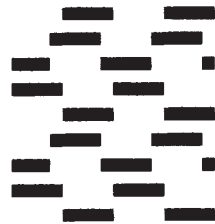


**Treading Sequence 13574682**

Warp = W  
Weft = B



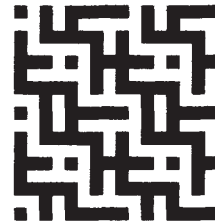
Warp = W  
Weft = BW



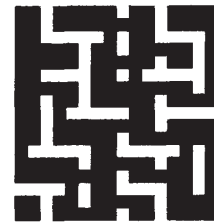
Warp = W  
Weft = BWWB



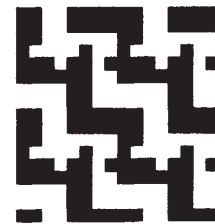
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

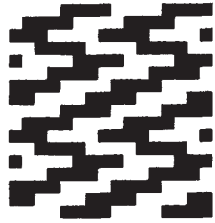


Warp = BBWW  
Weft = BWWB

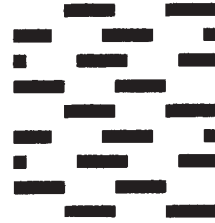


**Treading Sequence 13582746**

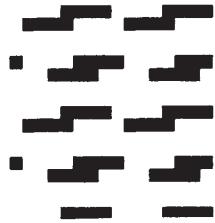
Warp = W  
Weft = B



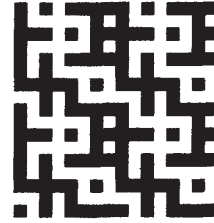
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



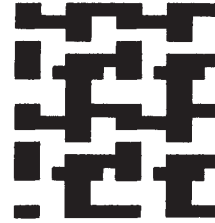
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

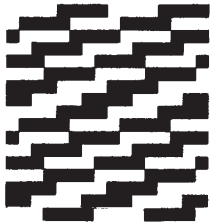


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 13584726**

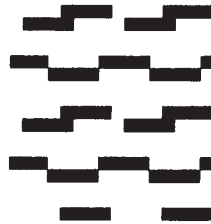
Warp = W  
Weft = B



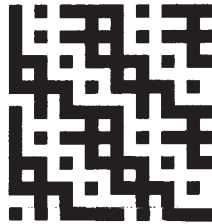
Warp = W  
Weft = BW



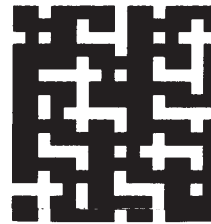
Warp = W  
Weft = BWWB



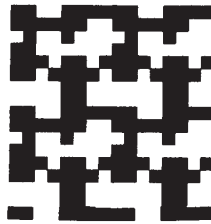
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

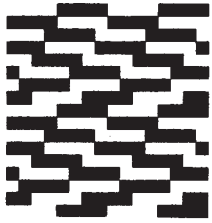


Warp = BBWW  
Weft = BWWB

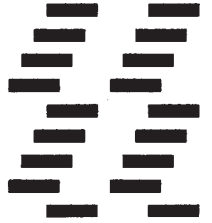


**Treadling Sequence 13627485 (13748526)**

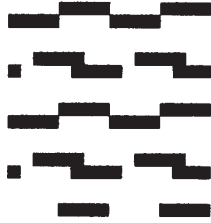
Warp = W  
Weft = B



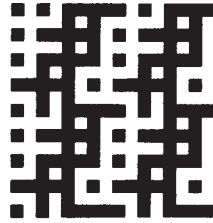
Warp = W  
Weft = BW



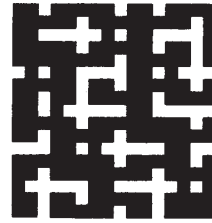
Warp = W  
Weft = BWWB



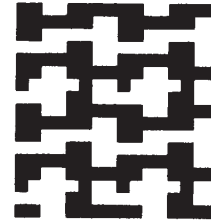
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

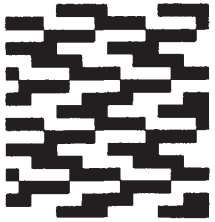


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 13627584 (13847526)**

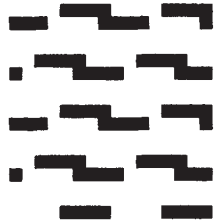
Warp = W  
Weft = B



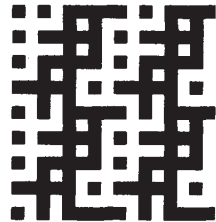
Warp = W  
Weft = BW



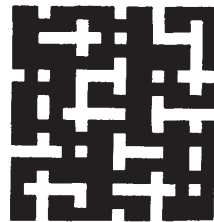
Warp = W  
Weft = BWWB



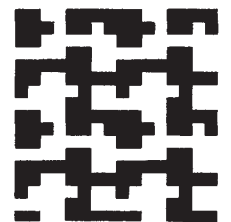
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

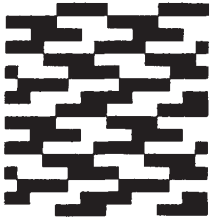


Warp = BBWW  
Weft = BWWB



**Treadling Sequence 13628475**

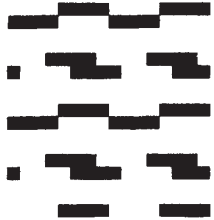
Warp = W  
Weft = B



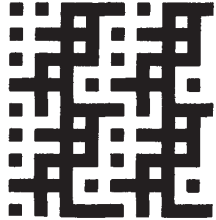
Warp = W  
Weft = BW



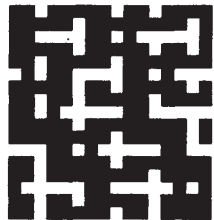
Warp = W  
Weft = BWWB



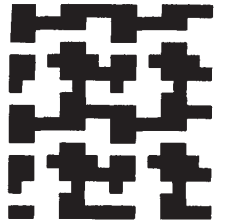
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



**Treading Sequence 13628574 (13647285)**

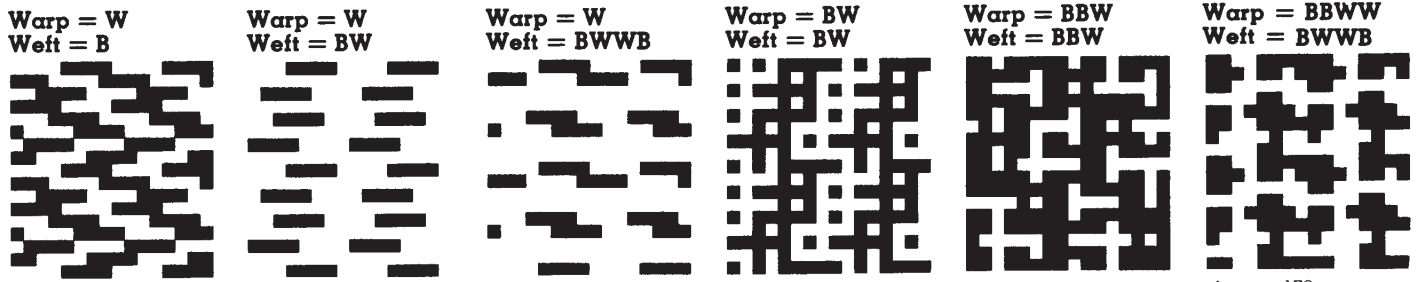
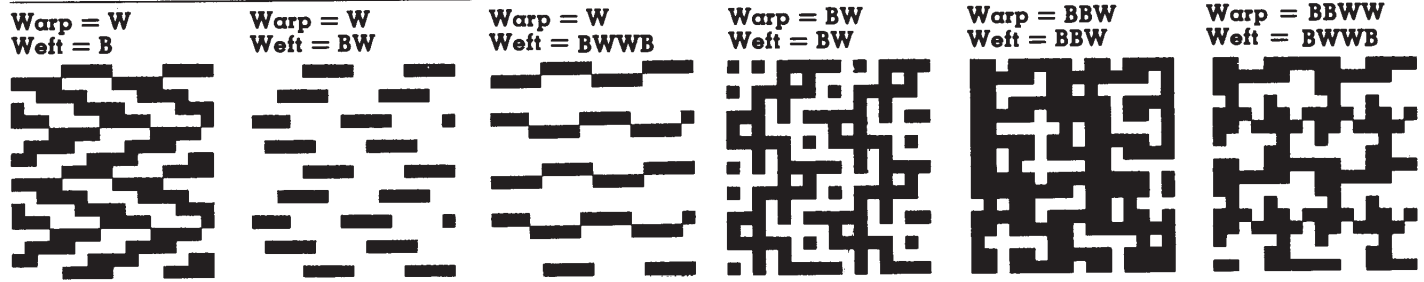


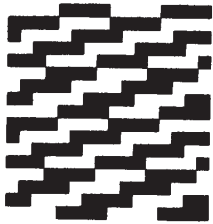
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**Treading Sequence 13684275**

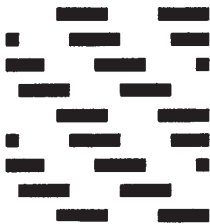


### Treadling Sequence 13684725

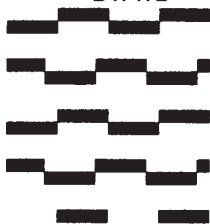
Warp = W  
Weft = B



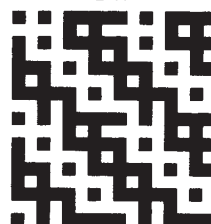
Warp = W  
Weft = BW



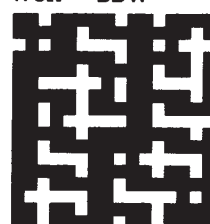
Warp = W  
Weft = BWWB



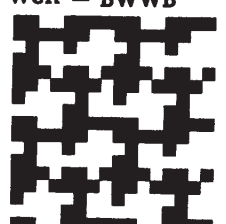
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

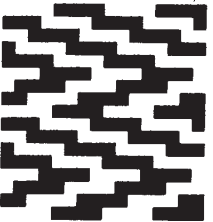


Warp = BBWW  
Weft = BWWB

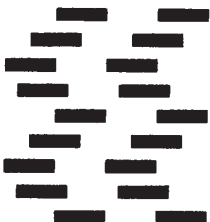


### Treadling Sequence 13685724

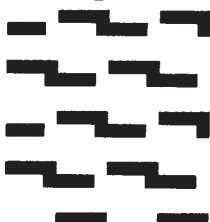
Warp = W  
Weft = B



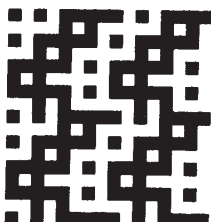
Warp = W  
Weft = BW



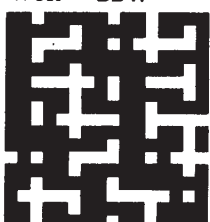
Warp = W  
Weft = BWWB



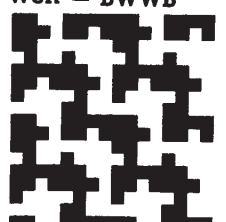
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



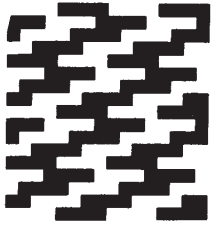
Warp = BBWW  
Weft = BWWB





**Treading Sequence 13685274**

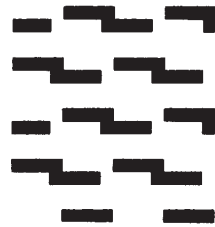
Warp = W  
Weft = B



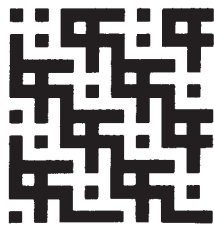
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



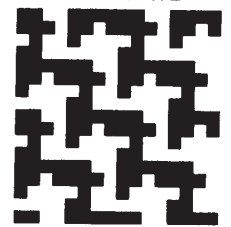
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

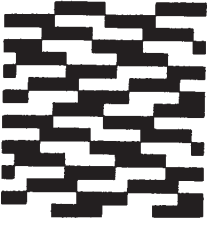


Warp = BBWW  
Weft = BWWB

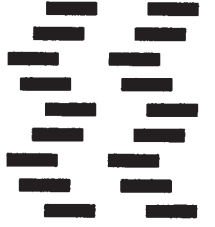


**Treading Sequence 13726485**

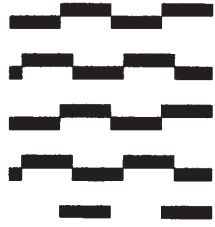
Warp = W  
Weft = B



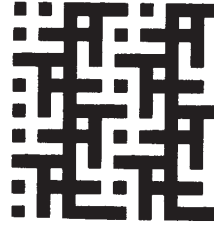
Warp = W  
Weft = BW



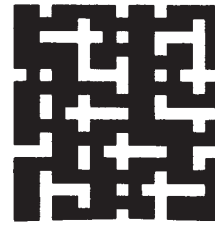
Warp = W  
Weft = BWWB



Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB

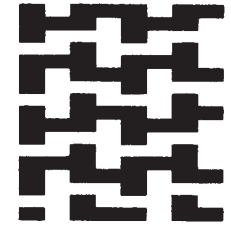
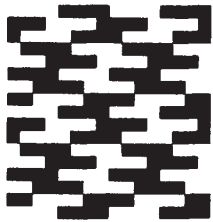


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**Treading Sequence 13758624**

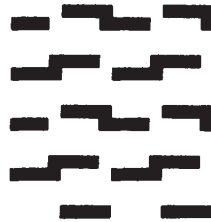
Warp = W  
Weft = B



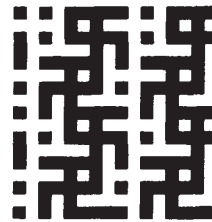
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



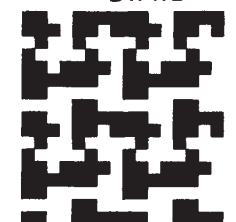
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

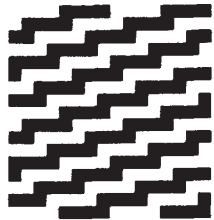


Warp = BBWW  
Weft = BWWB

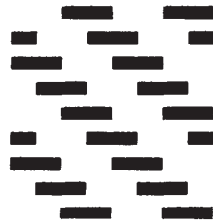


**Treading Sequence 14725836**

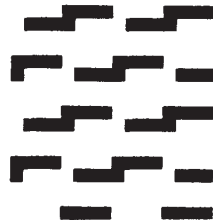
Warp = W  
Weft = B



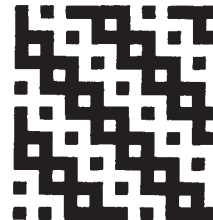
Warp = W  
Weft = BW



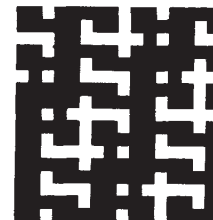
Warp = W  
Weft = BWWB



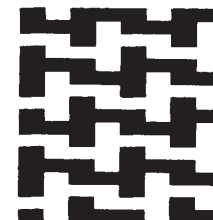
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

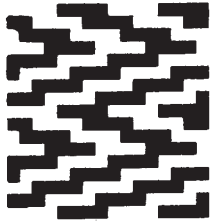


Warp = BBWW  
Weft = BWWB

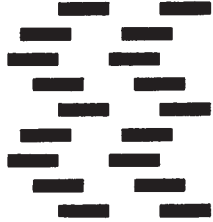


**Treadingling Sequence 14725863**

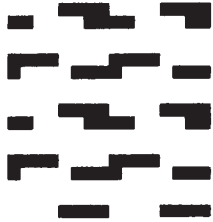
Warp = W  
Weft = B



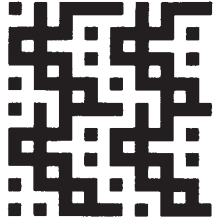
Warp = W  
Weft = BW



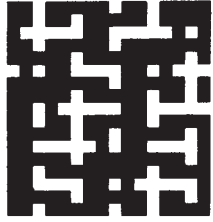
Warp = W  
Weft = BWWB



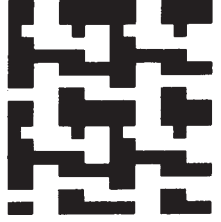
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW

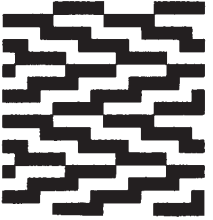


Warp = BBWW  
Weft = BWWB

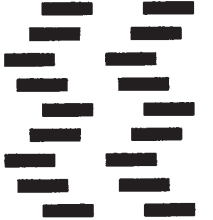


**Treadingling Sequence 14726385**

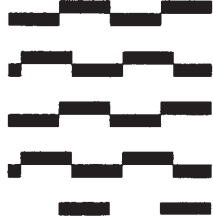
Warp = W  
Weft = B



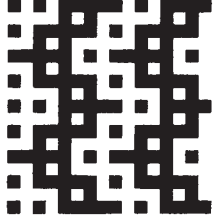
Warp = W  
Weft = BW



Warp = W  
Weft = BWWB



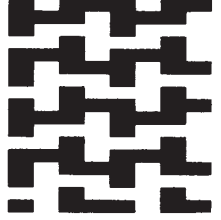
Warp = BW  
Weft = BW



Warp = BBW  
Weft = BBW



Warp = BBWW  
Weft = BWWB



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## Photographs

Following are woven swatches of some of the twills illustrated in the previous sections.

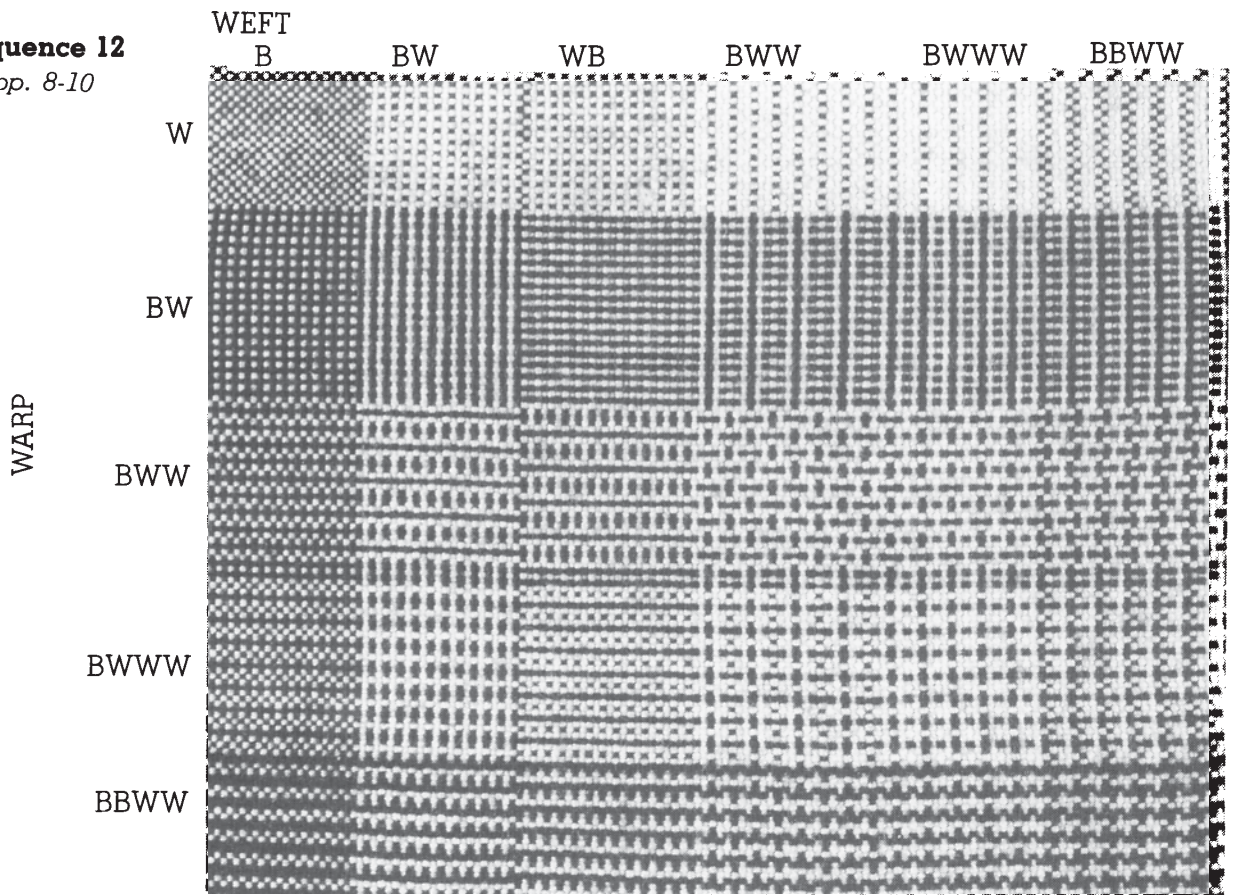
All are woven in black and white 3/12 wool.

The 2, 3 and 4 harness samplers have been photographically reduced to 75% of the original swatch;

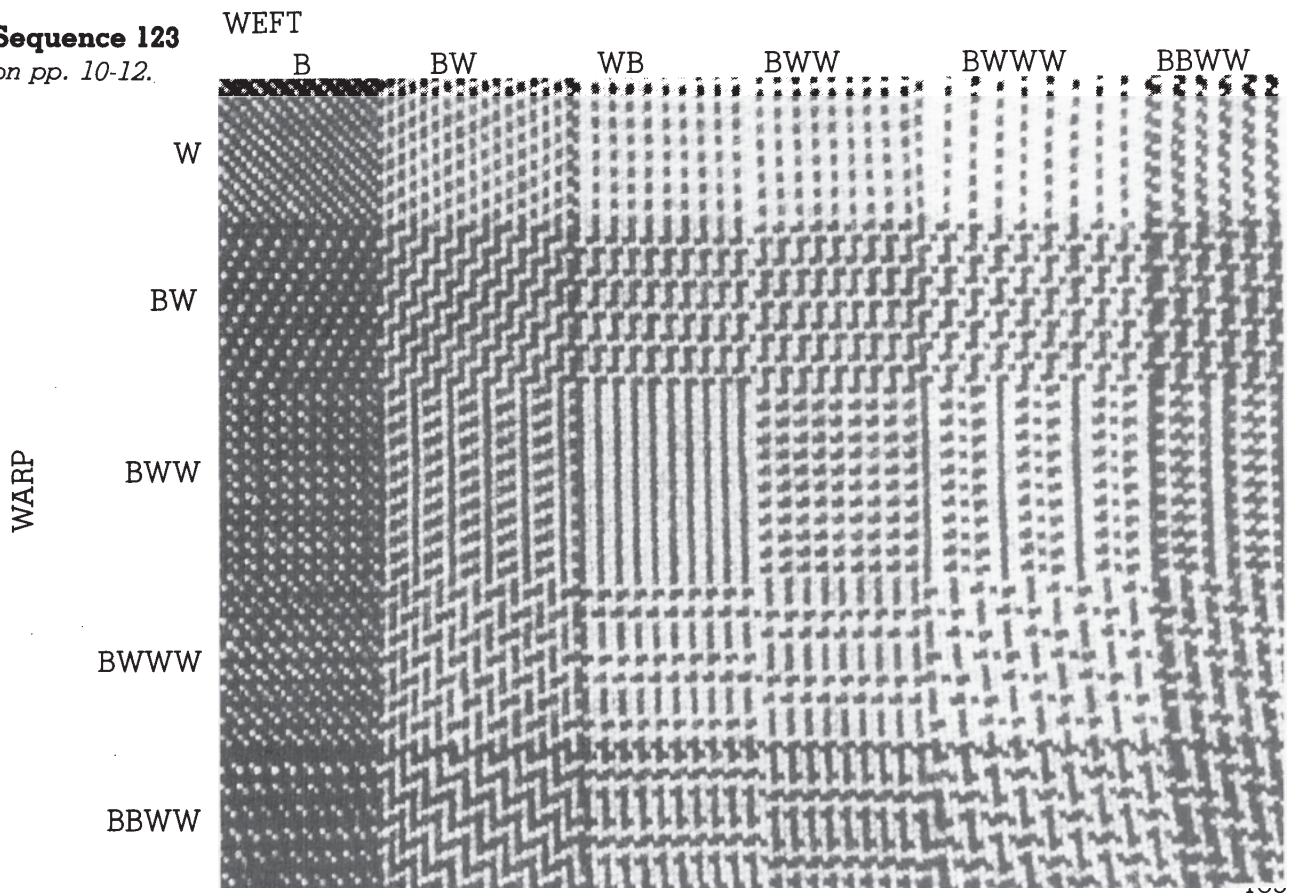
5, 6, 7 and 8 harness samples are shown full size.

Each sample is referenced to its drawdown to help you judge how a pattern will look actually woven.

**Treadling Sequence 12**  
*Drawdowns on pp. 8-10*

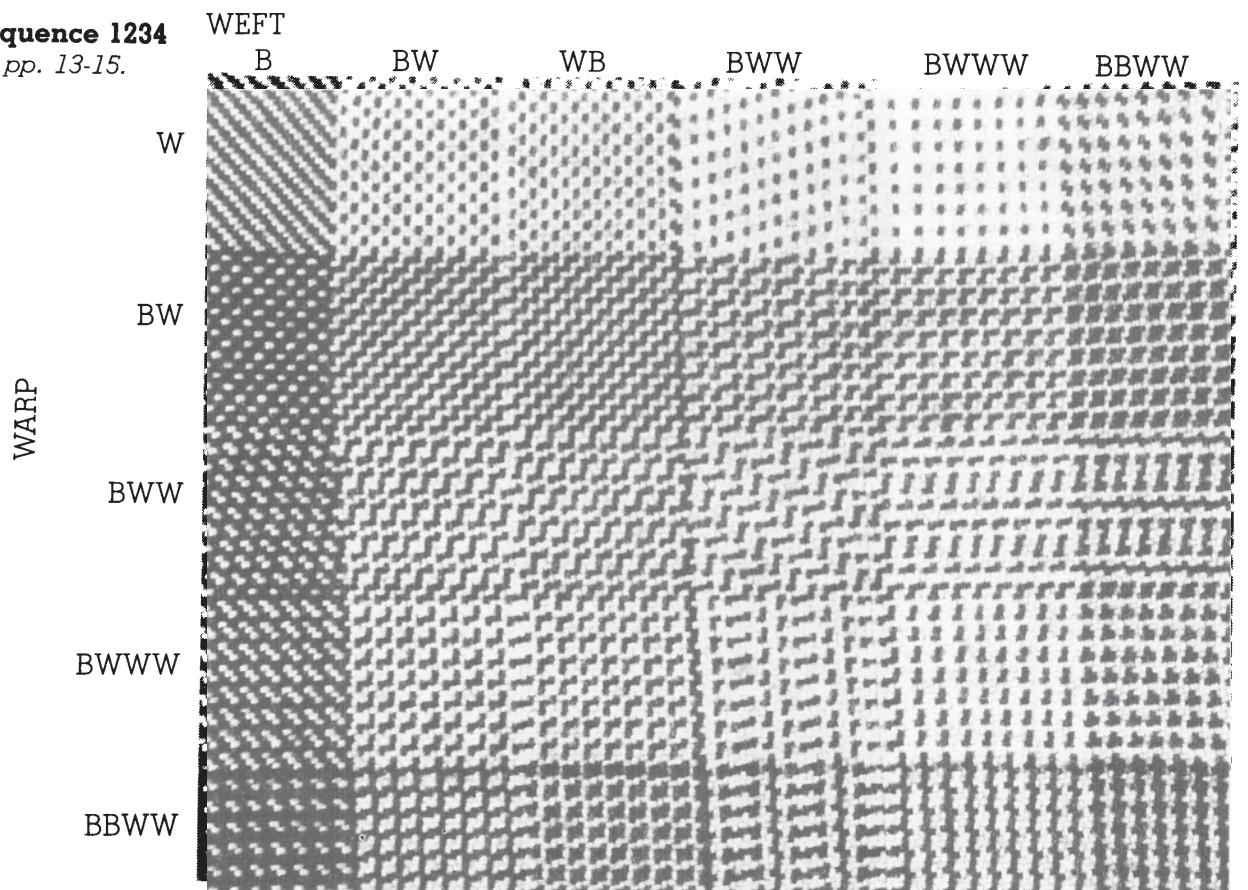


**Treadling Sequence 123**  
*Drawdowns on pp. 10-12.*



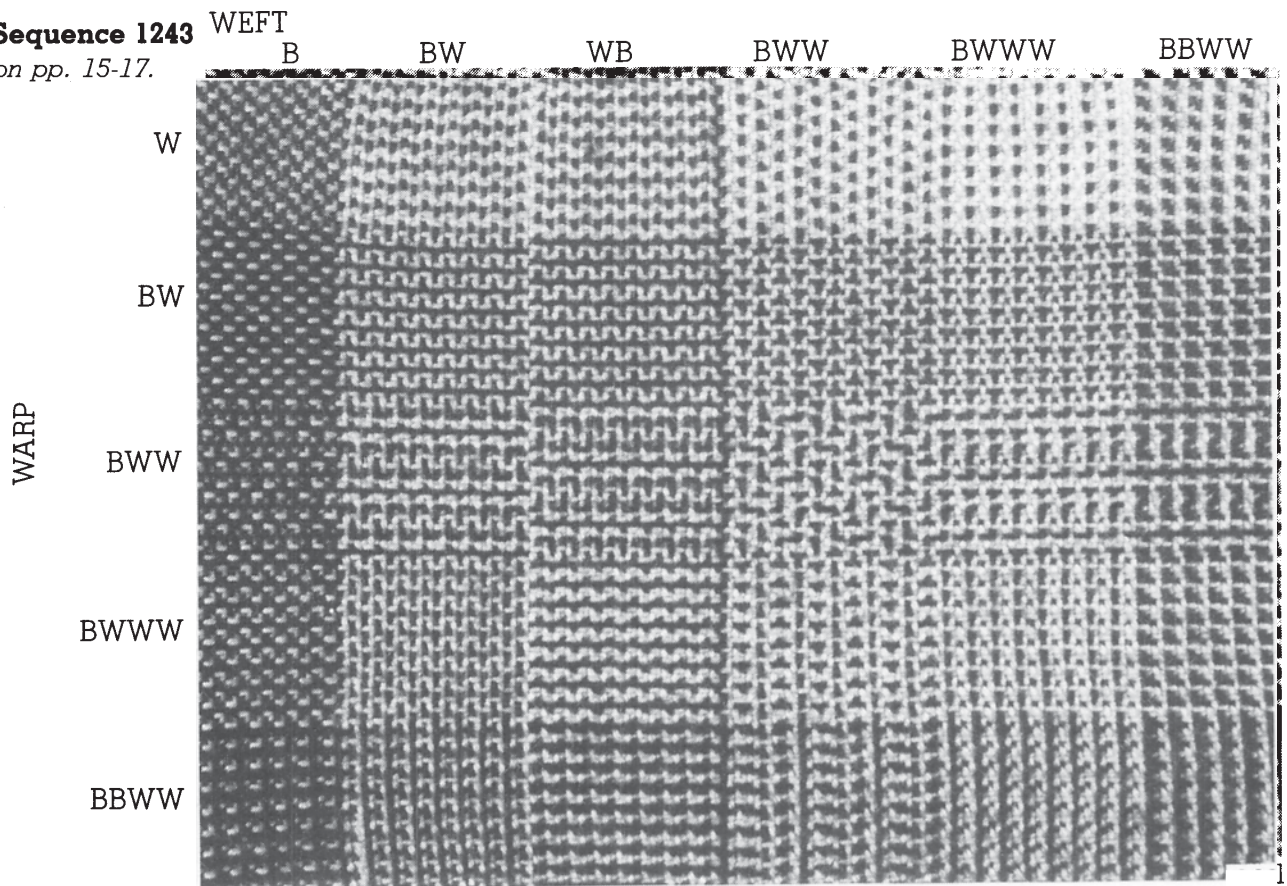
**Treadling Sequence 1234**

*Drawdowns on pp. 13-15.*



**Treadling Sequence 1243**

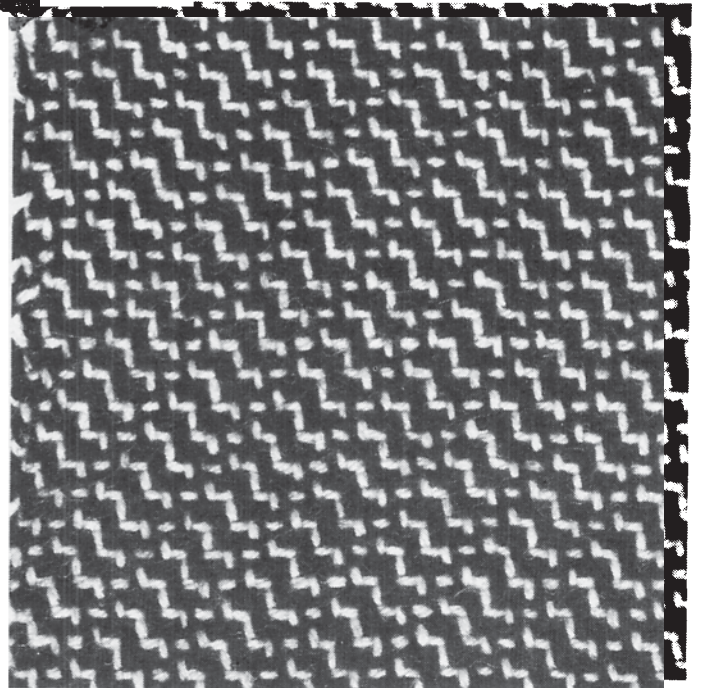
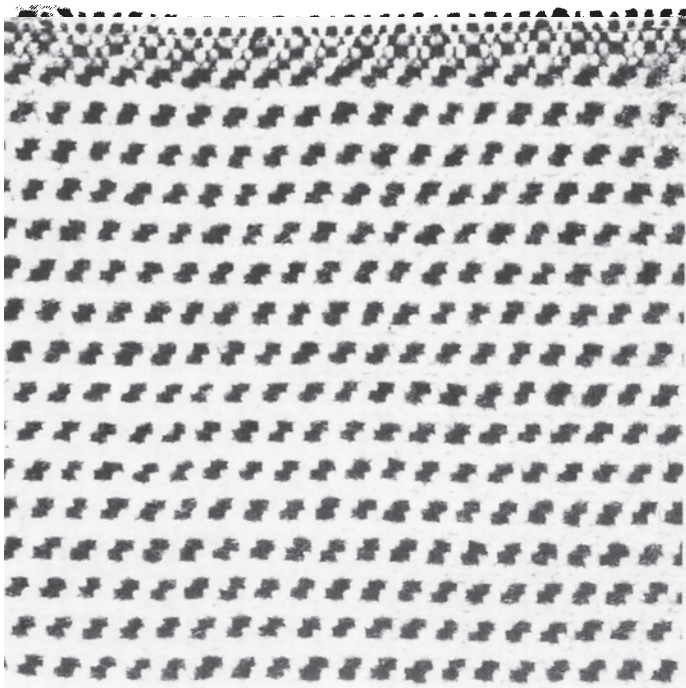
*Drawdowns on pp. 15-17.*





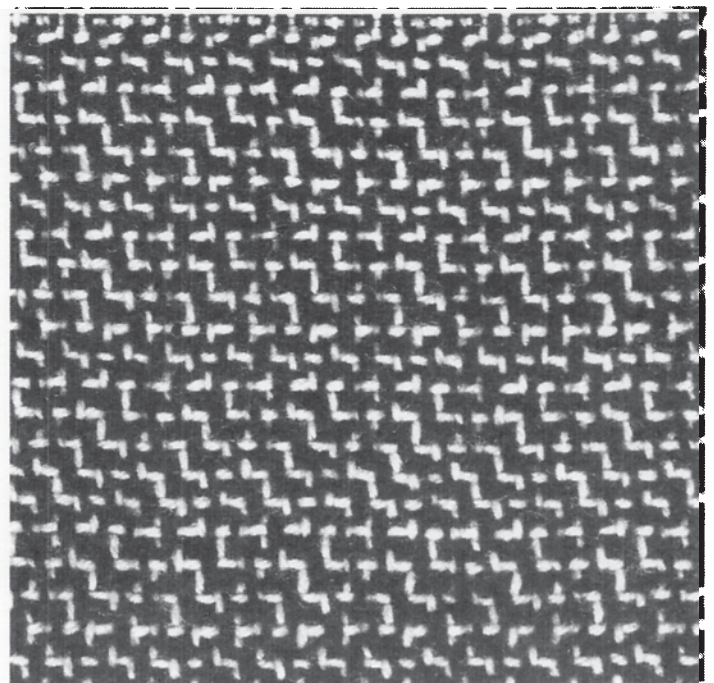
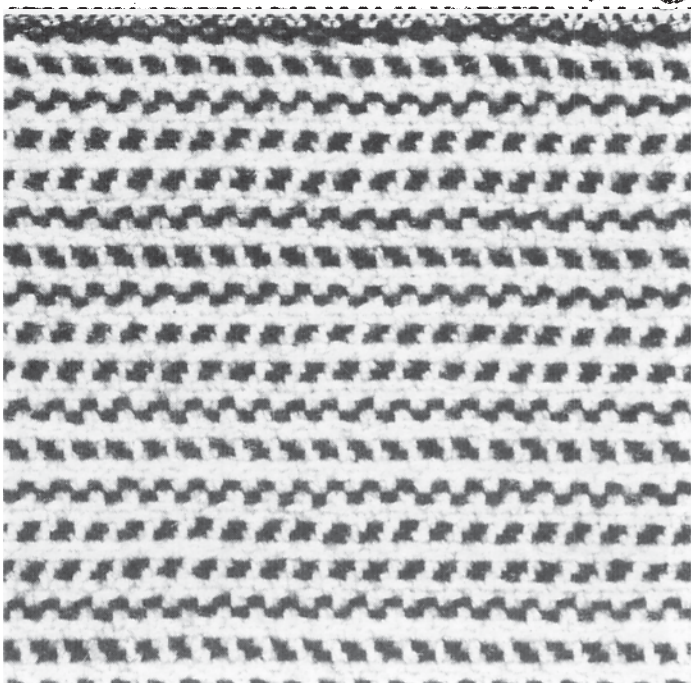
Five Harness Treadling Sequence 12345  
Warp = W  
Weft = BBWW  
(see drawdown p. 20)

Five Harness Treadling Sequence 12345  
Warp = BBW  
Weft = BBW  
(see drawdown p. 20)



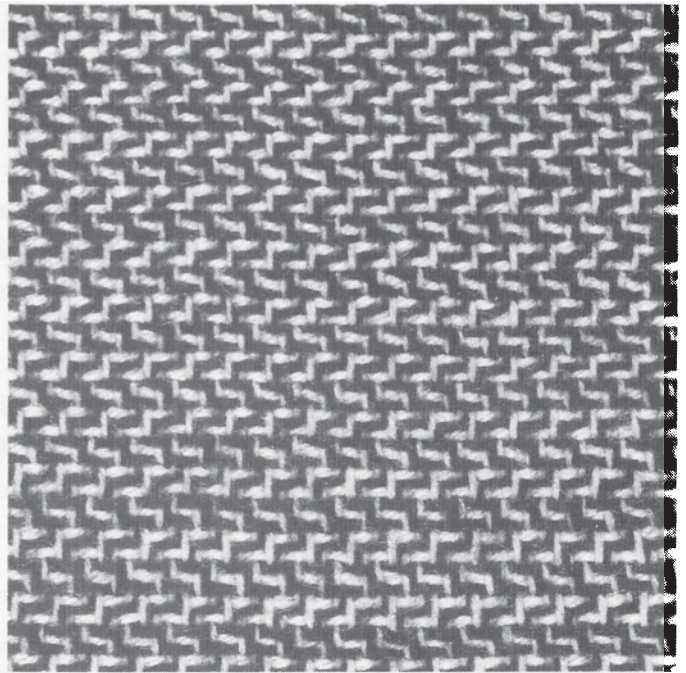
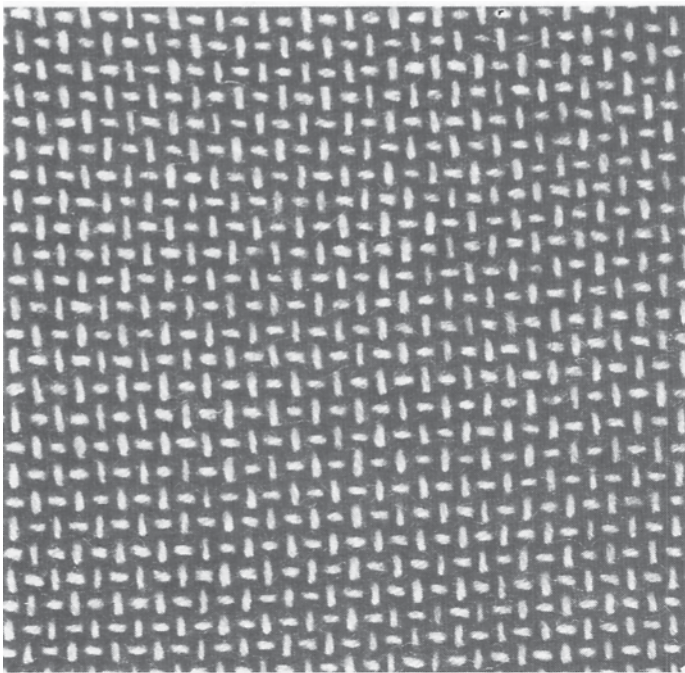
Five Harness Treadling Sequence 12354  
Warp = W  
Weft = BBWW  
(see drawdown p. 20)

Five Harness Treadling Sequence 12354  
Warp = BBW  
Weft = BBW  
(see drawdown p. 20)



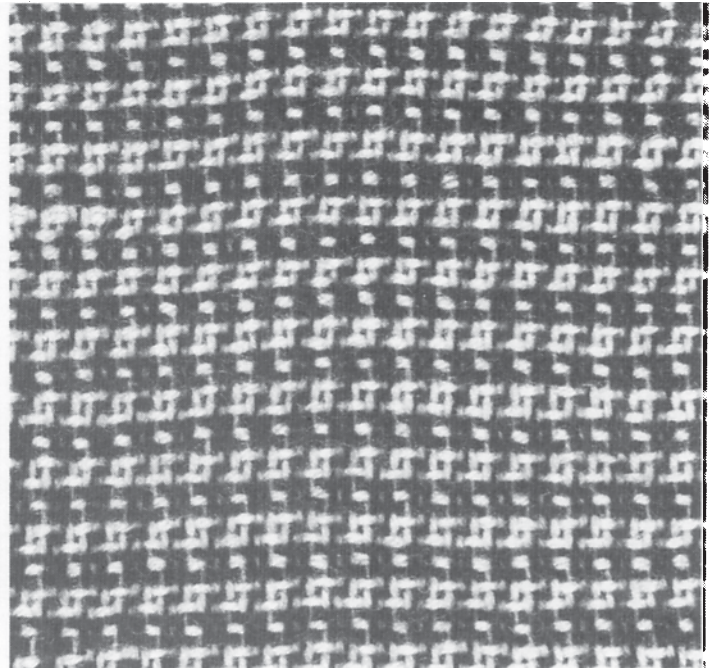
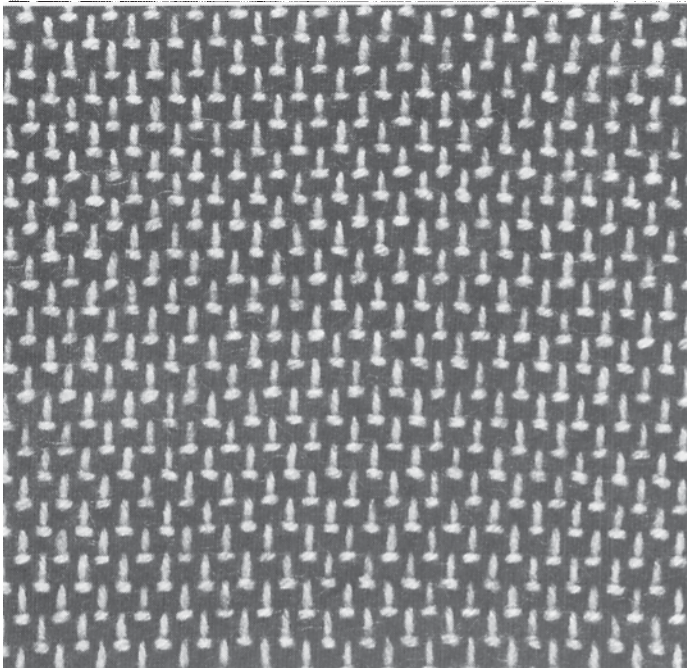
Six Harness Treadling Sequence 123456  
Warp = BBW  
Weft = BBW  
(see drawdown p. 22)

Six Harness Treadling Sequence 123654  
Warp = BW  
Weft = BW  
(see drawdown p. 24)



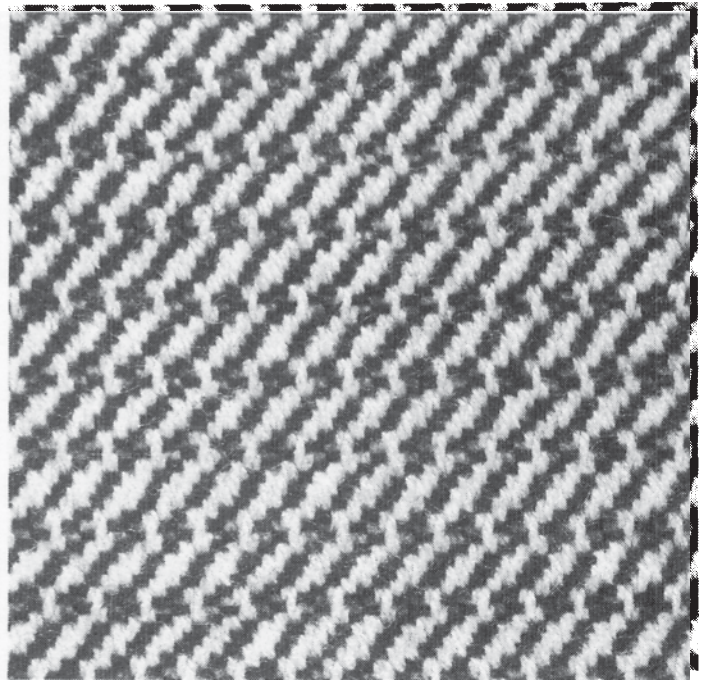
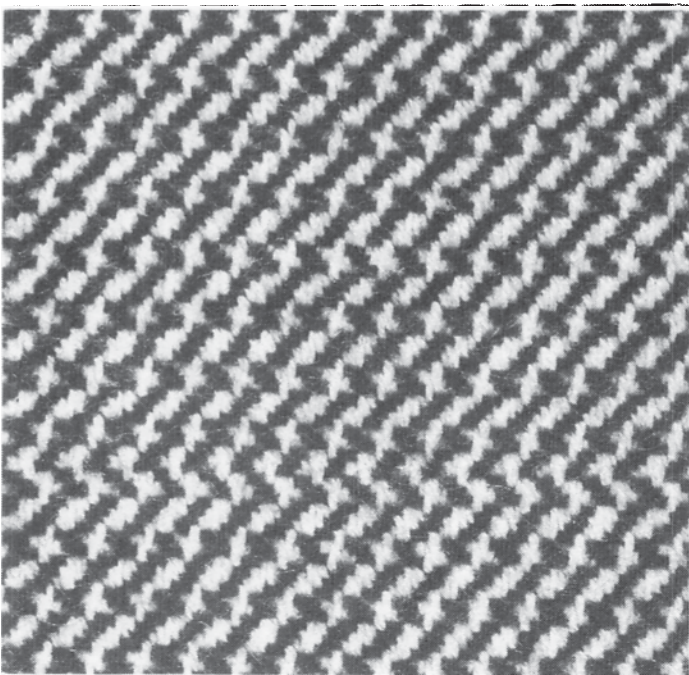
Six Harness Treadling Sequence 124653  
Warp = BBW  
Weft = BBW  
(see drawdown p. 25)

Six Harness Treadling Sequence 135264  
Warp = BW  
Weft = BW  
(see drawdown p. 28)



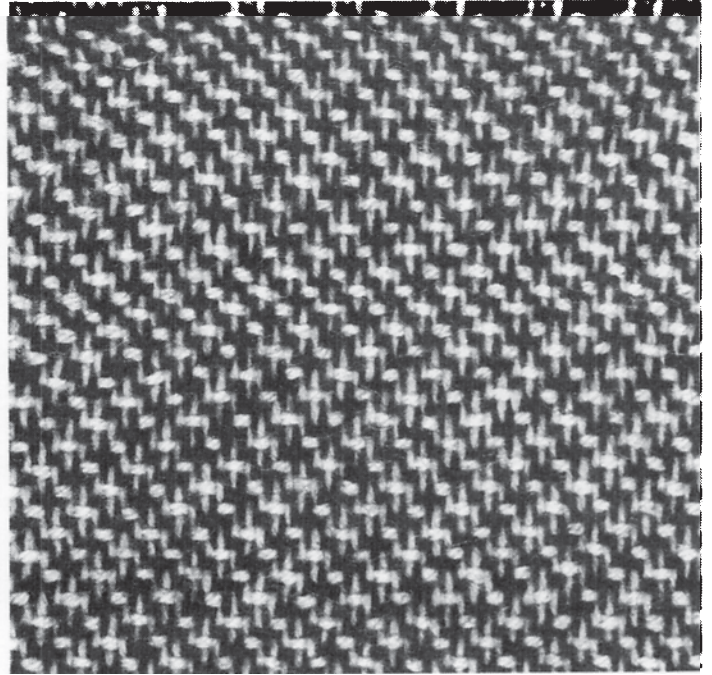
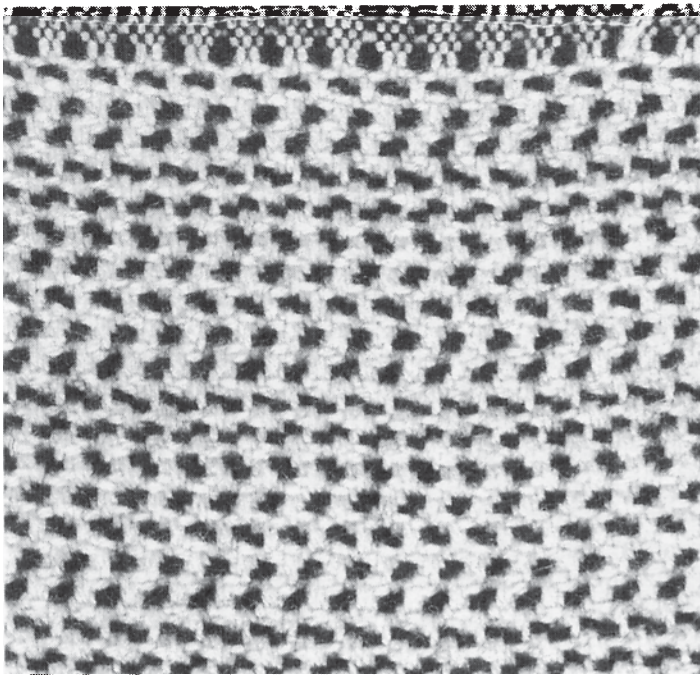
Seven Harness Treadling Sequence 1234765  
Warp = W  
Weft = B  
(see drawdown p. 31)

Seven Harness Treadling Sequence 1235746  
Warp = W  
Weft = B  
(see drawdown p. 32)



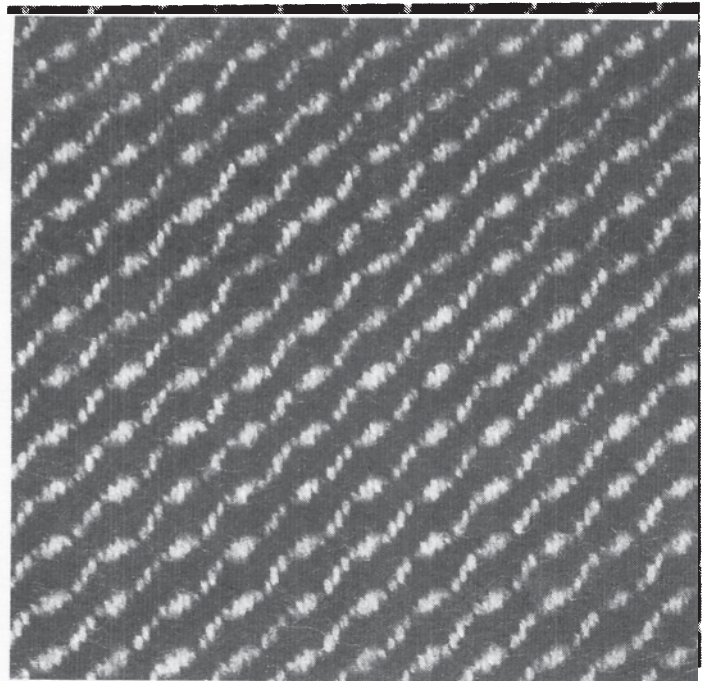
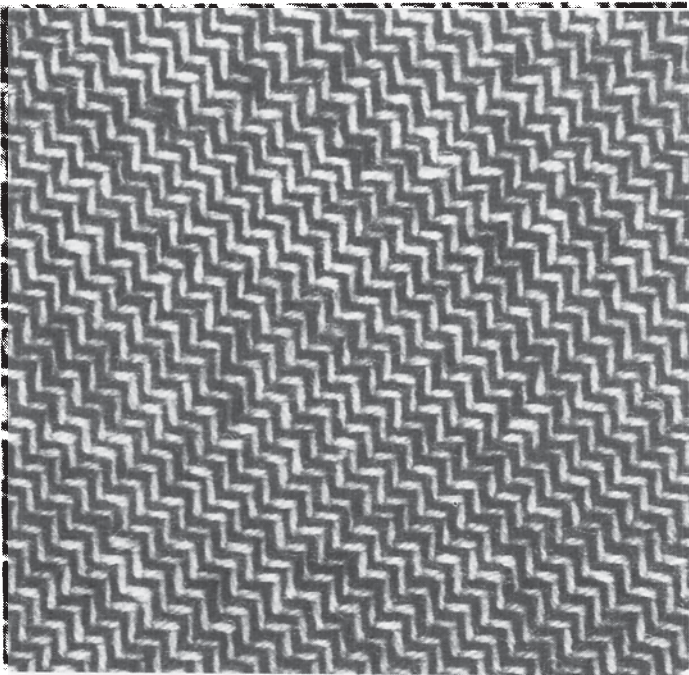
Seven Harness Treadling Sequence 1236754  
Warp = W  
Weft = BBWW  
(see drawdown p. 35)

Seven Harness Treadling Sequence 1357246  
Warp = BBW  
Weft = BBW  
(see drawdown p. 53)



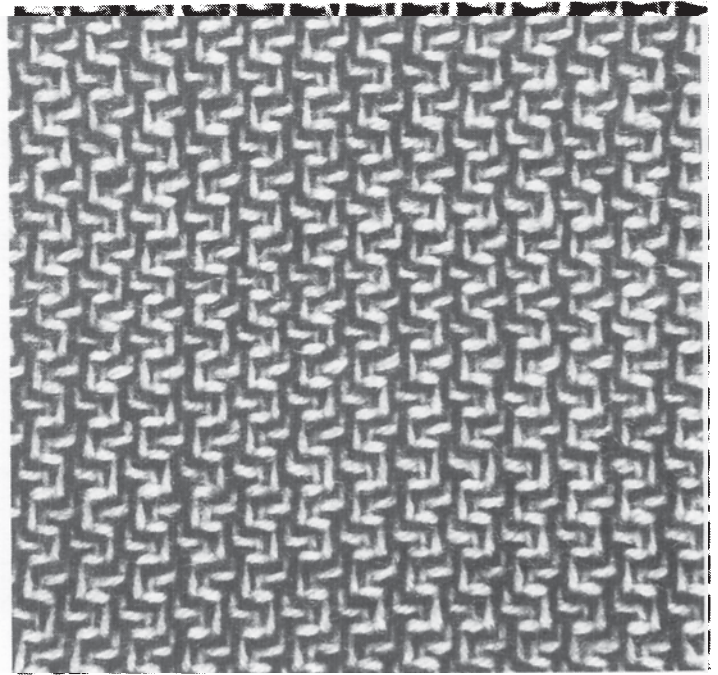
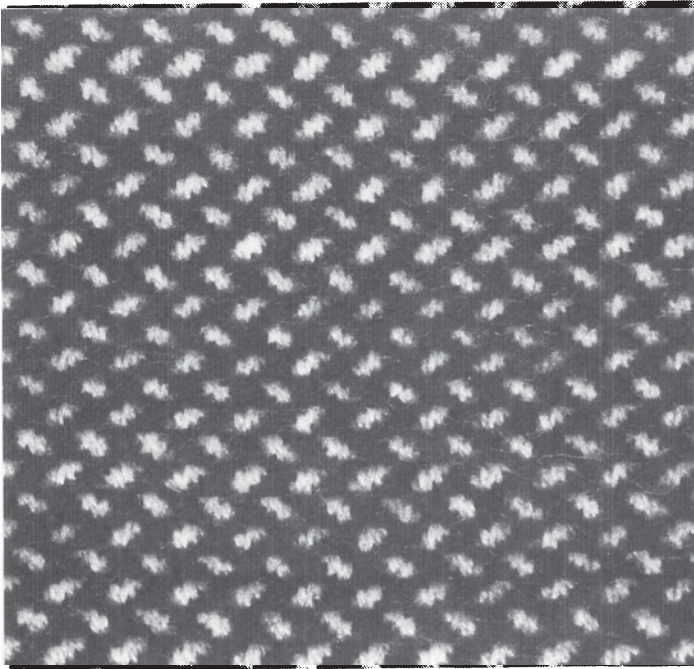
Eight Harness Treadling Sequence 12345678  
Warp = BW  
Weft = BW  
(see drawdown p. 56)

Eight Harness Treadling Sequence 12347586  
Warp = W  
Weft = B  
(see drawdown p. 60)



Eight Harness Treadling Sequence 12348765  
Warp = W  
Weft = B  
(see drawdown p. 62)

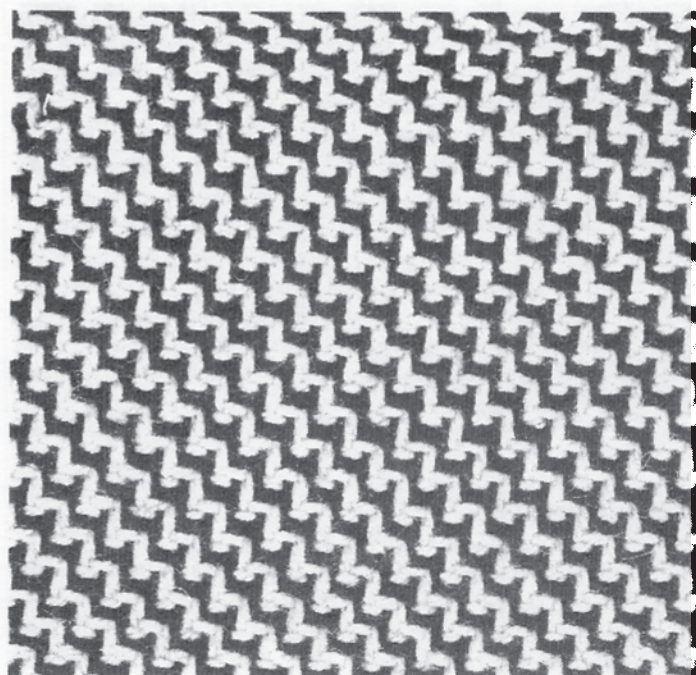
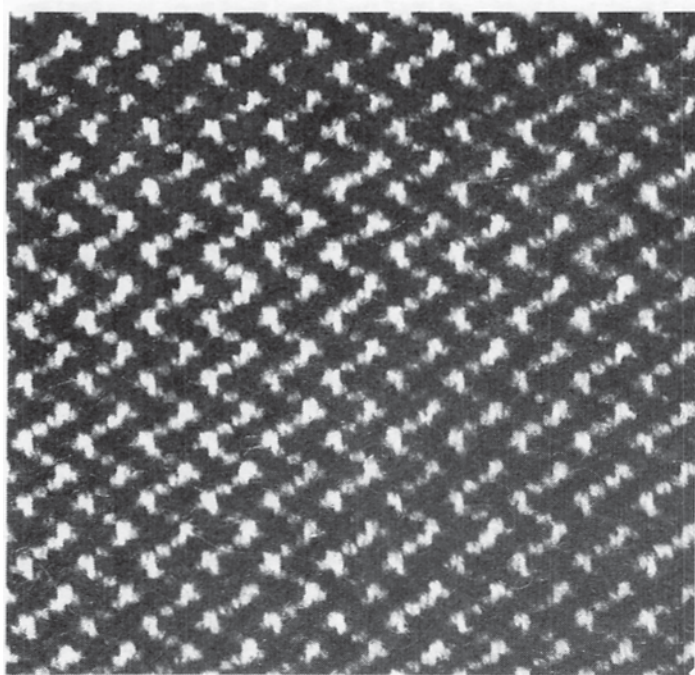
Eight Harness Treadling Sequence 12358764  
Warp = BW  
Weft = BW  
(see drawdown p. 70)



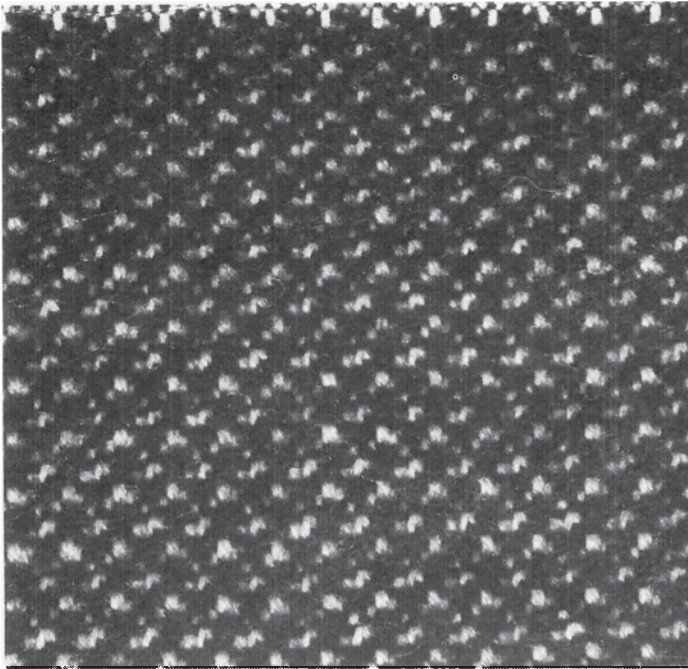


Eight Harness Treadling Sequence 12468753  
Warp = W  
Weft = B  
(see drawdown p. 97)

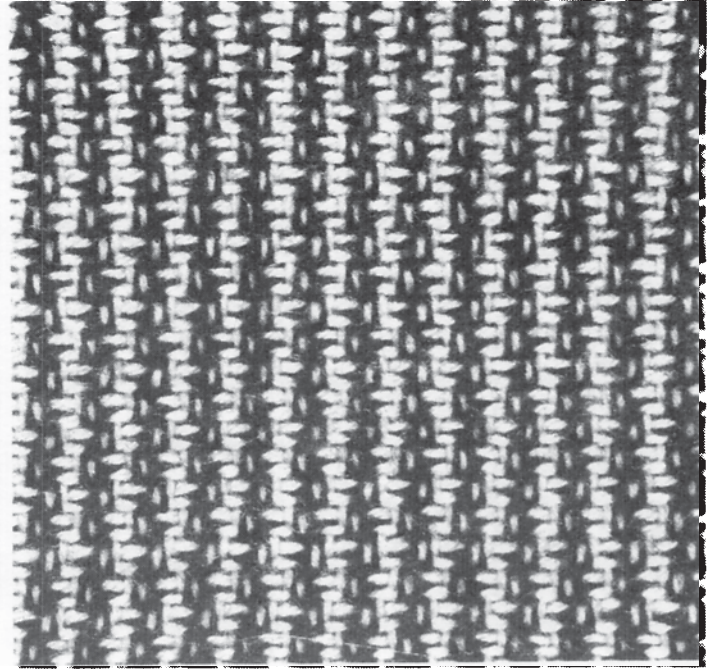
Eight Harness Treadling Sequence 12475683  
Warp = BBWW  
Weft = BBWW  
(see drawdown p. 99)



Eight Harness Treadling Sequence 12483675  
Warp = W  
Weft = B  
(see drawdown p. 105)

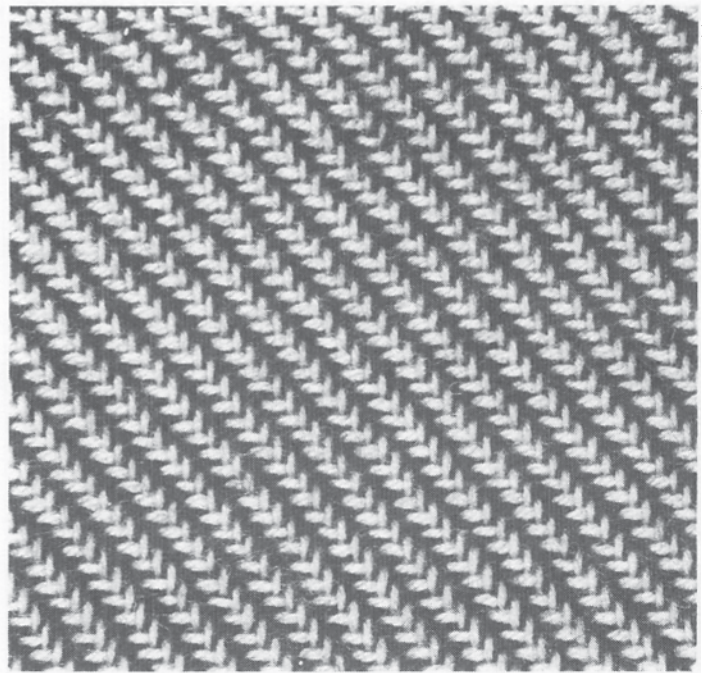
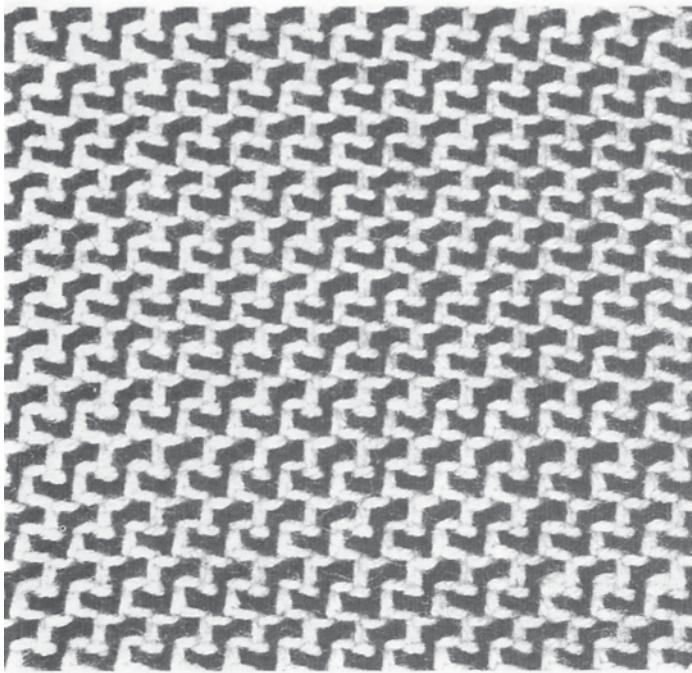


Eight Harness Treadling Sequence 12746583  
Warp = BW  
Weft = BW  
(see drawdown p. 139)



Eight Harness Treadling Sequence 12756483  
Warp = BBWW  
Weft = BBWW  
(see drawdown p. 140)

Eight Harness Treadling Sequence 12863574  
Warp = BW  
Weft = BW  
(see drawdown p. 144)



Eight Harness Treadling Sequence 13628574  
Warp = BBWW  
Weft = BBWW  
(see drawdown p. 151)

Eight Harness Treadling Sequence 13726485  
Warp = BBWW  
Weft = BBWW  
(see drawdown p. 153)

