

A tablet woven band from Veien (C348, Buskerud, Norway, AD 400)

Analysis by Randi Stoltz, February 2023

Width and length of the original: 0,6/9cm

Edges

Right side: One tablet, S-twined, 3/1 shed (Collingwood, p. 269).

Left side: Tubular, three tablets, S - Z - S-twined cords.

(Pass the weft through the normal shed on its way out, under three tablets on its way in.)

The outermost tablet to the left is a sewing cord, invisible on the front side.

Technique and colours

The colours are not visible, but as parts of the band are in twill technique, two colours, each in adjacent holes, will be a very good guess.

Most of the band is woven in plain technique, six turns forward, six backward. With two colours the pattern will turn out like some kind of waves.

Analysis by stitches

A stitch is a warp thread visible on the surface of the band. They may be vertical, but usually they are tilting either to the left (S-twined cord) or to the right (Z-twined cord).

I start with the plain weave with 5 pattern tablets threaded from the left side.

I used the photos from the University of Oslo published at Unimus.

Stitches, plain weave

18	\	/	\	/	/	/	/	/	\
17	\	/	\	/	/	/	/	/	\
16	\	/	\	/	/	/	/	/	\
15	\	/	\	/	/	/	/	/	\
14	\	/	\	/	/	/	/	/	\
13	\	/	\	/	/	/	/	/	\
12	\	/	\	\	\	\	\	\	\
11	\	/	\	\	\	\	\	\	\
10	\	/	\	\	\	\	\	\	\
9	\	/	\	\	\	\	\	\	\
8	\	/	\	\	\	\	\	\	\
7	\	/	\	\	\	\	\	\	\
6			\	/	/	/	/	/	\
5				/	/	/	/	/	\
4					/	/	/	/	\
3						/	/	/	\
2							/	/	\
1								/	\
		1	2	3	4	5			

Tablets threaded from the left. Grey = backward turns

18	/	/	/	/	/
17	/	/	/	/	/
16	/	/	/	/	/
15	/	/	/	/	/
14	/	/	/	/	/
13	/	/	/	/	/
12	\	\	\	\	\
11	\	\	\	\	\
10	\	\	\	\	\
9	\	\	\	\	\
8	\	\	\	\	\
7	\	\	\	\	\
6	/	/	/	/	/
5	/	/	/	/	/
4	/	/	/	/	/
3		/	/	/	/
2			/	/	/
1				/	/
	1	2	3	4	5

z-twined cords

s-twined cords

z-twined cords

Repeat 6 forward /6 backward until row 42 (4 times Z-twined cords, 3 times S-twined).

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The twill parts are most probably monochrome. By studying the weaving structure between them, we can find pattern elements. We can also find the pattern of the plain weave before and after rows 43-60. The logic of the technique is a reliable source.

Stitches, twill and plain weave combination

60	\	/	\	\	\	\	\	\	\
59	\	/	\	/	\	\	\	\	\
58	\	/	\	/	/	\	\	\	\
57	\	/	\	\	/	/	\	\	\
56	\	/	\	\	\	/	/	\	\
55	\	/	\	\	\	\	/	/	\
54	\	/	\	\	\	\	\	/	\
53	\	/	\	\	\	\	\	\	\
52	\	/	\	\	\	\	\	\	\
51	\	/	\	/	\	\	\	\	\
50	\	/	\	/	/	\	\	\	\
49	\	/	\	\	/	/	\	\	\
48	\	/	\	\	\	/	/	\	\
47	\	/	\	\	\	\	/	/	\
46	\	/	\	\	\	\	\	/	\
45	\	/	\	\	\	\	\	\	\
44	\	/	\	\	\	\	\	\	\
43	\	/	\	\	\	\	\	\	\

Turning direction and pattern added

60	\	\	\	\	\				
59	/	\	\	\	\				
58	/	/	\	\	\				
57	\	/	/	\	\				
56	\	\	/	/	\				
55			\	\	/	/			
54			\	\	\	\	/		
53	\	\	\	\	\	\	\		
52	\	\	\	\	\	\	\		
51	/	\	\	\	\	\	\		
50	/	/	\	\	\	\	\		
49	\	/	/	\	\	\	\		
48	\	\	/	/	\	\	\		
47			\	\	/	/			
46	\	\	\	\	\	\	\		
45	\	\	\	\	\	\	\		
44	\	\	\	\	\	\	\		
43			\	\	\	\	\		

s-twined cords
twill
s-twined cords
twill
s-twined cords

Rows 1-18 added pattern

18	/	/	/	/	/
17	/	/	/	/	/
16	/	/	/	/	/
15	/	/	/	/	/
14	/	/	/	/	/
13	/	/	/	/	/
12	\	\	\	\	\
11	\	\	\	\	\
10	\	\	\	\	\
9	\	\	\	\	\
8	\	\	\	\	\
7	\	\	\	\	\
6	/	/	/	/	/
5	/	/	/	/	/
4		/	/	/	/
3			/	/	/
2				/	/
1					/

After the twill part, the plain weave continues

72	\	\	\	\	\
71	\	\	\	\	\
70	\	\	\	\	\
69	\	\	\	\	\
68	\	\	\	\	\
67	\	\	\	\	\
66	/	/	/	/	/
65	/	/	/	/	/
64	/	/	/	/	/
63	/	/	/	/	/
62	/	/	/	/	/
61	/	/	/	/	/

On the original band, there seem to be repeats:

- Row 1-42: plain weave
- Row 43-60: twill
- Row 60-102: plain weave
- Row 103-120: twill
- Row 121-162: plain weave
- etc.

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Work from the bottom up

Threading chart

	1	2	3	4	5
d	Red	Yellow	Yellow	Red	Red
c	Red	Yellow	Yellow	Red	Red
b	Red	Yellow	Yellow	Red	Red
a	Red	Yellow	Yellow	Red	Red

\ / \ / / / / / \

Pattern symbols



Turn forward



Turn backward



Yellow threads in top position after the turn

Red threads in top position after the turn

30	/	/	/	/	/
29	/	/	/	/	/
28	/	/	/	/	/
27	/	/	/	/	/
26	/	/	/	/	/
25	/	/	/	/	/
24	/	/	/	/	/
23	/	/	/	/	/
22	/	/	/	/	/
21	/	/	/	/	/
20	/	/	/	/	/
19	/	/	/	/	/
18	/	/	/	/	/
17	/	/	/	/	/
16	/	/	/	/	/
15	/	/	/	/	/
14	/	/	/	/	/
13	/	/	/	/	/
12	/	/	/	/	/
11	/	/	/	/	/
10	/	/	/	/	/
9	/	/	/	/	/
8	/	/	/	/	/
7	/	/	/	/	/
6	/	/	/	/	/
5	/	/	/	/	/
4	/	/	/	/	/
3	/	/	/	/	/
2	/	/	/	/	/
1	/	/	/	/	/

Start

60	/	/	/	/	/
59	/	/	/	/	/
58	/	/	/	/	/
57	/	/	/	/	/
56	/	/	/	/	/
55	/	/	/	/	/
54	/	/	/	/	/
53	/	/	/	/	/
52	/	/	/	/	/
51	/	/	/	/	/
50	/	/	/	/	/
49	/	/	/	/	/
48	/	/	/	/	/
47	/	/	/	/	/
46	/	/	/	/	/
45	/	/	/	/	/
44	/	/	/	/	/
43	/	/	/	/	/
42	/	/	/	/	/
41	/	/	/	/	/
40	/	/	/	/	/
39	/	/	/	/	/
38	/	/	/	/	/
37	/	/	/	/	/
36	/	/	/	/	/
35	/	/	/	/	/
34	/	/	/	/	/
33	/	/	/	/	/
32	/	/	/	/	/
31	/	/	/	/	/