Draw a Plain Weave: Over-Under Strand Construction

Original task 1 / independent drawing and calculation

Task 1

A 3 by 3 grid shows F1 as U, O, U. Using the horizontal-over convention, state F2 and F3 and describe the drawing at each crossing.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A 4 by 4 grid has F1 as O, U, O, U and F2 as U, O, U, O. F3 and F4 are blank. State both missing rows and explain the shift rule.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

A student draws a 3 by 3 weave where every weft line is continuous and every warp line is broken at every crossing. Identify the structural error and state the corrected F1 and F2 sequences under the vertical-over convention.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Design a 4 by 4 plain weave using the vertical-over convention. State the full O/U table, the drawing order, and one valid alternative that the rubric would accept.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.