Draw Raised 3D Snake Scales with Edge Shading and Highlights

Original task 1 / independent drawing and calculation

Task 1

A practice band is 48 mm wide. You draw plates 8 mm wide with a 2 mm overlap. How many plates fit across one row, and what is the visible height of a 9 mm tall plate?

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

You draw three rows of plates, each plate 10 mm tall with a 2.5 mm overlap. What is the total height of the three-row band if the rows sit directly above one another with no extra gap?

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 row is 54 mm wide. Plates are 9 mm wide and staggered by 4.5 mm. How many plates fit in the first row, and where does the second row begin relative to the first plate?

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

You want a highlight about one-fifth of a 15 mm wide plate. What highlight width should you aim for, and how much mid-tone remains across the plate if the dark lower edge is not counted in the width?

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.