Isometric Drawing of a Grillage Foundation: A Clear Step-by-Step Guide

Original task 1 / independent drawing and calculation

Task 1

Draw an isometric view of a grillage foundation with a 2000 mm by 2000 mm grid, beams at 1000 mm spacing, and footings 500 mm by 500 mm by 200 mm deep. Use a scale of 1:50. Label axes and dimensions.

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 grillage foundation has a 4000 mm by 3000 mm grid with beams at 1000 mm spacing. Footings are 800 mm by 800 mm by 300 mm deep. Use a scale of 1:100. Draw the isometric view and label the axes and dimensions.

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

Draw an isometric view of a grillage foundation with a 3000 mm by 1500 mm grid, beams at 750 mm spacing, and footings 600 mm by 600 mm by 250 mm deep. Use a scale of 1:25. Label axes and dimensions.

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

A grillage foundation has a 2500 mm by 2500 mm grid with beams at 500 mm spacing. Footings are 400 mm by 400 mm by 200 mm deep. Use a scale of 1:50. Draw the isometric view and label the axes and dimensions.

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.