CONCRETE SLAB CALCULATION REFERENCE

This reference summarizes standard measurements, conversions, and estimation values commonly used when planning concrete slab projects.

Concrete Slab Volume Formula

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Length × Width × Thickness = Volume
Cubic Feet(Volume) ÷ 27 = Cubic Yards
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- Length and width measured in feet
- Thickness measured in feet (inches ÷ 12)
- Volume calculated in cubic feet, then converted to cubic yards

Common Slab Thickness (Typical)

Patio	4 inches
Sidewalk	4 inches
Shed Pad	4 inches
Driveway	5-6 inches
Garage Floor	6 inches
Load-Bearing Slab	6+ inches

Cubic Yard Coverage (Approximate)

Slab Thickness	Cubic yard Coverage
4 inches	~81 sq ft
5 inches	~65 sq ft
6 inches	~54 sq ft

Values are estimates assuming uniform slab depth.

Waste Factor Allowances (Typical)

Project Condition	Typical Allowance
Simple Rectangle	5%
Standard Projects	10%
Complex Shapes	15%

One cubic yard of cured concrete weighs approximately 4,050 pounds (about 2 tons). Weight affects transportation, access, and equipment planning.

- One 80-lb bag yields approximately 0.6 cubic feet of concrete
- One cubic yard requires approximately 45 bags of 80-lb concrete mix

Bag yield may vary slightly by manufacturer.

Measurement Notes

- Slab dimensions measured inside forms
- Thickness may vary across uneven surfaces
- Multiple depth measurements used on sloped grade
- Volume rounding is common when ordering ready-mix

Ordering Notes

- Ready-mix concrete sold by the cubic yard
- Minimum order quantities may apply
- Short-load fees may apply for small volumes