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Calculated Industries 4225

Calculated Industries ConcreteCalc Pro Model 4225 Instruction Manual

Advanced Feet-Inch-Fraction, Metric Construction-Math Calculator

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1. INTRODUCTION

The Calculated Industries ConcreteCalc Pro Model 4225 is an advanced construction-math calculator designed for professionals in concrete, masonry, and paving. This tool assists in quickly and accurately performing complex calculations, reducing material waste, and improving project efficiency. It handles various dimensional math, area, volume, and weight calculations, along with specialized functions for square-ups, drops, stair layouts, rebar, and material estimations.

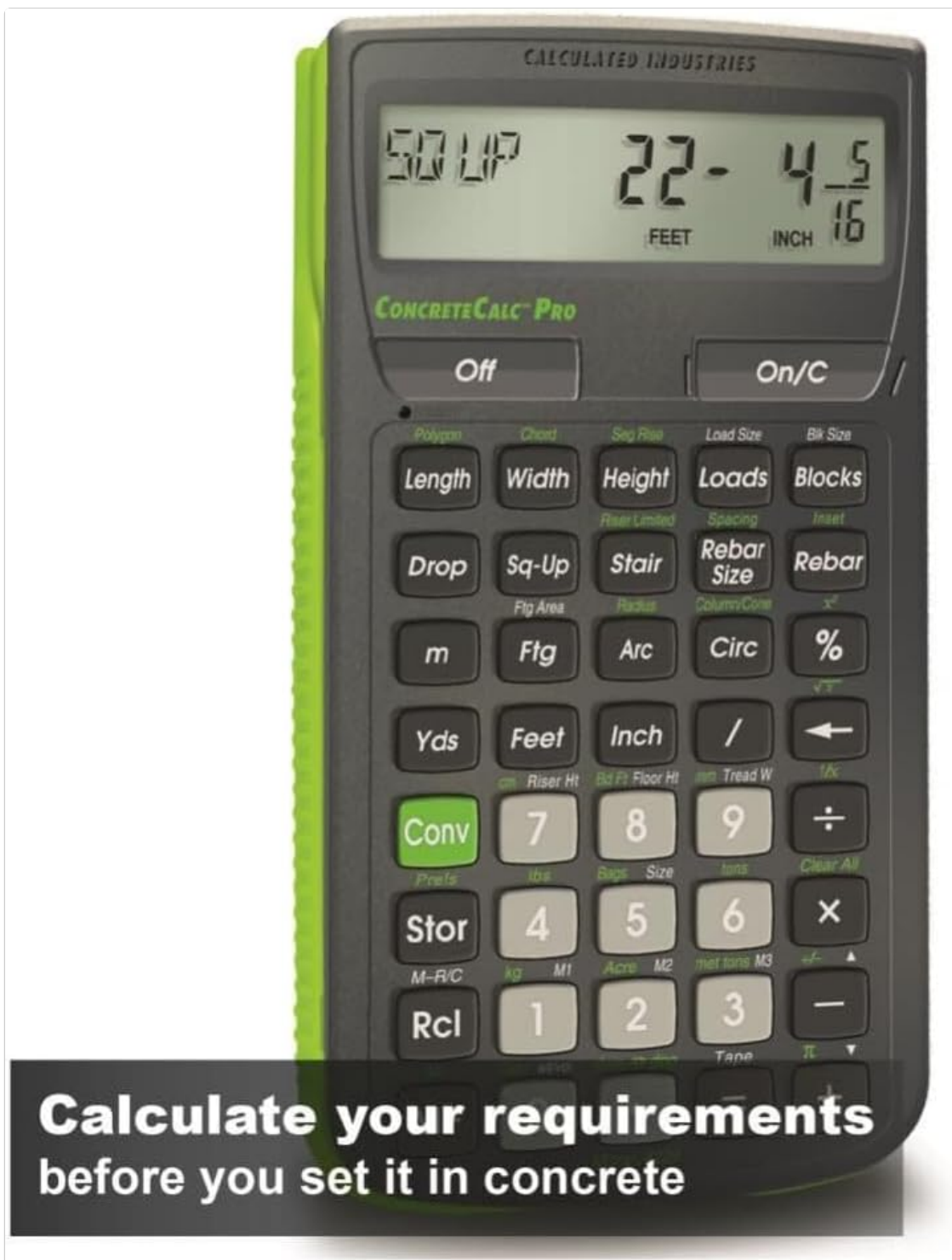


Image 1.1: The ConcreteCalc Pro calculator displaying a 'SQ UP' calculation, illustrating its ability to perform specialized construction calculations.

2. SETUP

2.1 Battery Installation

The ConcreteCalc Pro Model 4225 requires one CR2 battery (included). To install or replace the battery:

1. Locate the battery compartment on the back of the calculator.
2. Using a small screwdriver, loosen the screw securing the battery compartment cover. This design complies with Reese's Law for battery safety.
3. Remove the cover and insert the CR2 battery, ensuring correct polarity (+/-).
4. Replace the cover and tighten the screw securely.

2.2 Power On/Off

- To power on the calculator, press the **On/C** button.
- To clear the display or turn off the calculator, press the **On/C** button again. The calculator also features an auto-off function to conserve battery life.

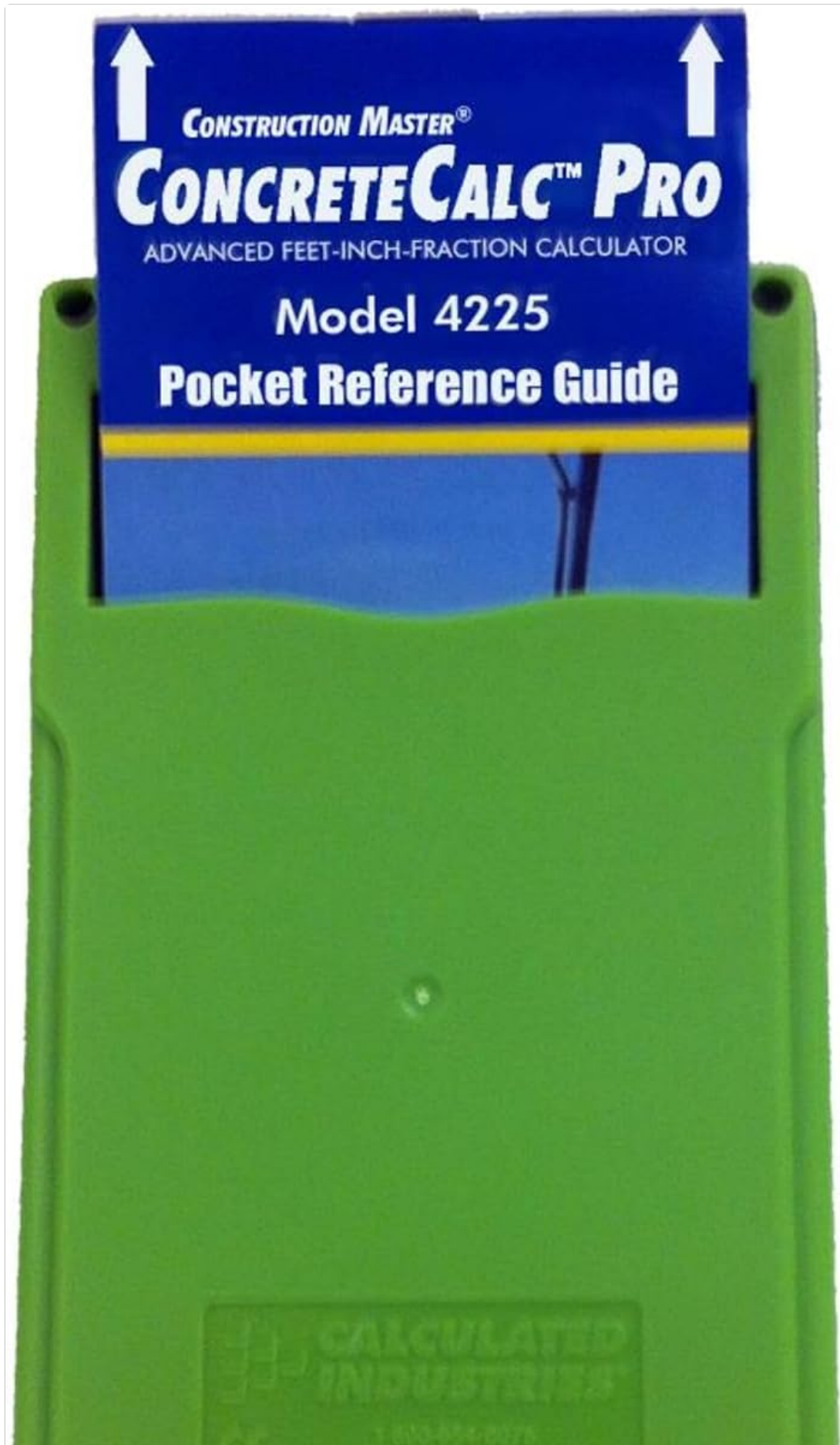




Image 2.1: Back view of the ConcreteCalc Pro, showing the protective Armadillo Gear case and the slot for the pocket reference guide.

3. OPERATING INSTRUCTIONS

The ConcreteCalc Pro offers a wide range of functions for various construction calculations. Familiarize yourself with the key layout and functions for efficient use.

3.1 Dimensional Math & Conversions

The calculator allows you to work in and convert between different dimensional formats including yards, feet-inch-fractions, and metric units for linear, area, and volume measurements.

- Enter values using the number keys and the **Yds**, **Feet**, **Inch**, and fraction keys.
- Press the **Conv** key followed by the desired unit key to convert between units.

3.2 Area & Volume Calculations

Calculate areas and volumes for various shapes:

- **Rectangular Area/Volume:** Enter **Length**, **Width**, and optionally **Height**, then press the corresponding area or volume key.
- **Circular Area/Volume:** Enter the diameter or radius, then press **Circ** for circumference or area, or **Columns/Cone** for volume of cylindrical shapes (e.g., Sonotubes, post holes, columns).
- **Polygon Area:** Use the **Polygon** key to calculate areas of regular polygons.

3.3 Square-Ups & Drops

- **Square-Ups:** To ensure forms are set true, enter the length and width, then press the **Sq-Up** key to get the diagonal measurement.
- **Drops:** For drainage calculations, enter the length and desired slope, then press the **Drop** key to find the amount of fall or drop.

3.4 Stair Layout

The **Stair** key provides solutions for stair calculations, including the number of risers, treads, stringer angle, and length, to meet project and code requirements.

3.5 Rebar Calculations

Use the **Rebar** function to quickly determine the total linear feet and weight for all rebar sizes, helping to prevent material waste.

3.6 Material Estimations

- **Truck Loads:** Calculate the number of truck loads required for a given volume of material using the **Loads** key.
- **Concrete Bags:** Determine the number of concrete bags needed for a project.
- **Blocks & Footings:** Use the **Blocks** and **Ftg** (Footing) keys for estimating the number of blocks or the cubic volume for any

footing configuration.

3.7 Weight per Volume & Density

Calculate weight per volume and select measuring units (pounds, tons, kilograms, or metric tons) to determine the weight of concrete for removal or to figure out density for engineering requirements.

3.8 Cost Calculations

Enter the cost per unit to quickly solve unit costs and total pricing, assisting in budget management and accurate material estimates for bidding jobs.

Your browser does not support the video tag.

Video 3.1: An overview of the Calculated Industries ConcreteCalc Pro 4225, demonstrating its key functions for concrete, masonry, and paving calculations.

4. MAINTENANCE

4.1 Cleaning

To clean the calculator, use a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, as these can damage the display or casing.

4.2 Protective Case

The ConcreteCalc Pro comes with a rugged Armadillo Gear protective case. Always store the calculator in its case when not in use to protect it from shock, dust, and moisture, especially in job site environments.



Image 4.1: The ConcreteCalc Pro calculator securely enclosed in its durable green Armadillo Gear protective case.

5. TROUBLESHOOTING

If you encounter issues with your ConcreteCalc Pro, consider the following common solutions:

- **Calculator not turning on:** Check the battery. Ensure it is correctly installed and has sufficient charge. Replace if necessary.
- **Incorrect calculations:** Verify your input values and ensure you are using the correct function keys for your desired calculation. Refer to the user guide for specific function instructions.
- **Display issues:** If the display is dim or erratic, the battery may be low. Replace the battery.
- **Calculator unresponsive:** Try removing and reinserting the battery to perform a soft reset.

6. SPECIFICATIONS

Feature	Detail
Brand	Calculated Industries
Model Number	4225
Model Name	ConcreteCalc Pro
Calculator Type	Engineering/Scientific, Construction
Power Source	Battery Powered (1 CR2 battery included)
Display Type	LCD
Screen Size	0.81 inches
Item Dimensions (L x W)	5.75"L x 3"W
Item Weight	117.7 g
Enclosure Material	Blend
Color	Black (with green protective case)
Included Accessories	Armadillo Gear protective case, Pocket Reference Guides (English & Spanish)

7. WARRANTY INFORMATION

The Calculated Industries ConcreteCalc Pro Model 4225 comes with a one-year manufacturer's limited warranty. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, or to make a warranty claim, please refer to the official user guide or contact Calculated Industries customer support.

8. SUPPORT

For further assistance, detailed instructions, or to access additional resources, please refer to the following:

- **Official User Guide (PDF):** A comprehensive user guide is available for download. [Download User Guide](#)
- **Online Videos:** Additional instructional videos demonstrating various features and functions are available on the Calculated Industries website.
- **Customer Service:** For technical support or product inquiries, please visit the Calculated Industries website or contact their customer service department directly.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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