

Milescraft 8410

Milescraft 8410 MC-Square300 Woodworking Square Instruction Manual

Brand: Milescraft | Model: 8410

1. INTRODUCTION

The Milescraft MC-Square300 is a versatile aluminum woodworking square designed for precise measurement and marking in woodworking, remodeling, and various other applications. This tool combines multiple functions to enhance accuracy and efficiency in your projects.

Key features include:

- Internal and external scales for measuring and marking both sides of your workpiece.
- 300 mm square with 1/4 inch notch spacing for consistent markings.
- Two quick angle finders for common 30° and 45° angles.
- Elongated notches for precise line tracing.
- Constructed from durable 3 mm thick anodized aluminum.
- Features a removable aluminum fence.
- Includes European-style hinge mounting holes for specific applications.



Image 1.1: The MilsCraft MC-Square300 aluminum woodworking square, showcasing its red anodized finish and various measurement markings.

2. SETUP

The MilsCraft MC-Square300 is ready for use directly out of the packaging. No assembly is required for basic operation.

2.1 Removable Fence

The square features a removable aluminum fence. This fence can be detached if not needed for certain applications or for easier storage. To remove, simply slide it off the main body of the square. To reattach, align the fence with the grooves on the square and slide it back into place until secure.

3. OPERATING INSTRUCTIONS

3.1 Measuring and Marking Lines

The MC-Square300 features both internal and external scales, allowing you to measure and mark accurately on

either the inside or outside edges of your workpiece. The 1/4 inch notch spacing facilitates consistent and repeatable markings.

1. Place the square firmly against the edge of your workpiece.
2. Align the desired measurement on the scale with your starting point.
3. Use a pencil or marking tool to draw a line along the edge of the square or through the elongated notches for precise line tracing.

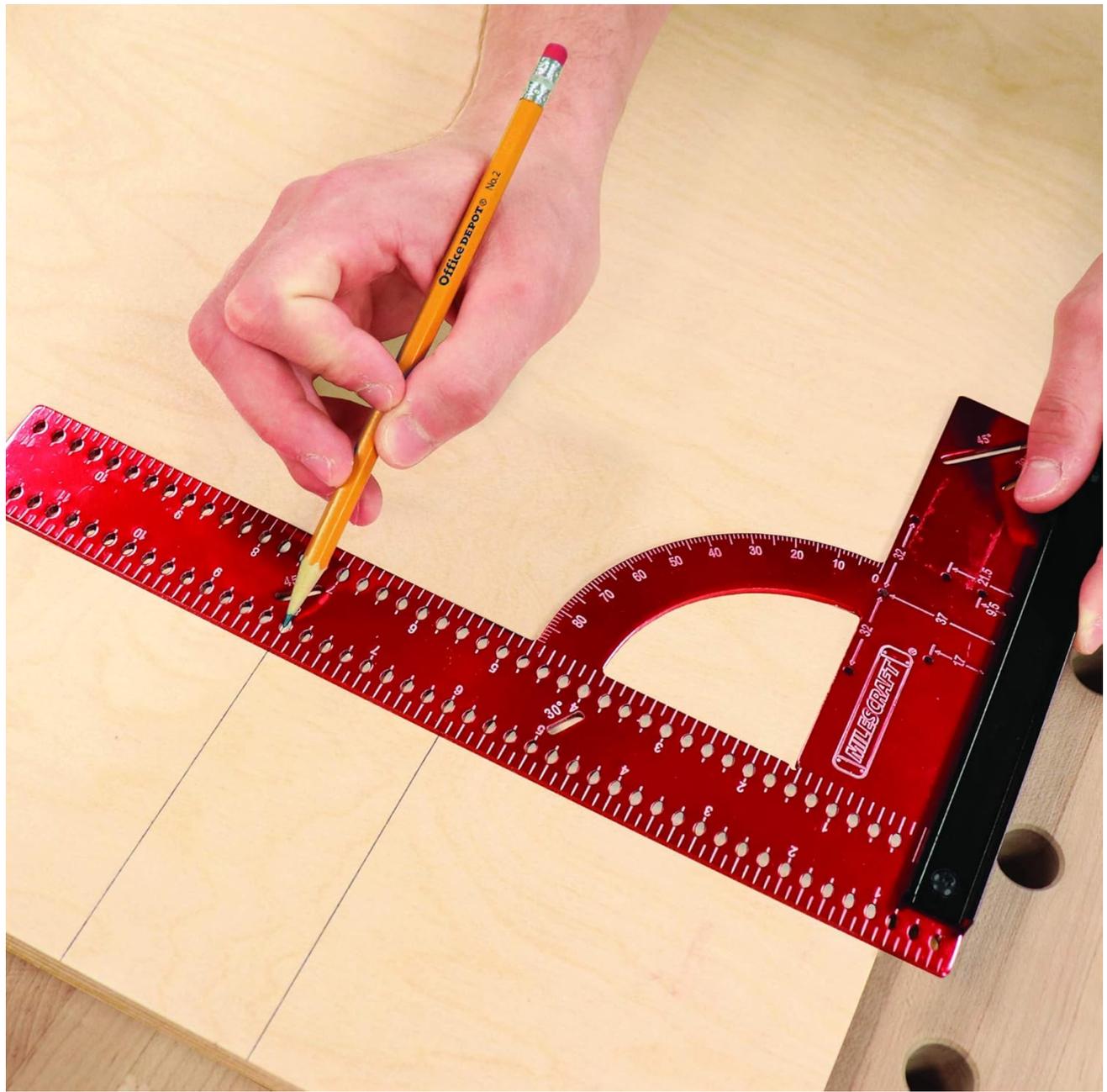


Image 3.1: A user demonstrating how to measure and mark parallel lines on a wooden board using the Milescraft MC-Square300 and a pencil.

3.2 Using the Removable Fence for Edge Marking

The removable fence provides stability and accuracy when marking along the edge of a board.

1. Ensure the removable fence is securely attached to the square.
2. Hook the fence over the edge of your workpiece.
3. Slide the square along the edge, using the scales and notches to make precise marks or draw lines parallel to the edge.



Image 3.2: A user utilizing the removable fence of the Milescraft MC-Square300 to mark a line along the edge of a wooden plank.

3.3 Quick Angle Finders (30° and 45°)

The square includes integrated guides for quickly marking 30° and 45° angles.

1. Position the square against your workpiece.
2. Align the desired angle guide (30° or 45°) with your reference point.
3. Draw your angle using the edge of the square as a guide.

3.4 Drawing Arcs and Circles

The MC-Square300 can also be used to draw arcs and circles by pivoting the tool.

1. Determine the center point for your arc or circle.
2. Place a small pin or nail at the center point.
3. Align one of the elongated notches on the square with the pin, and the desired radius marking with your pencil.
4. Pivot the square around the pin while keeping the pencil in the notch to draw the arc or circle.

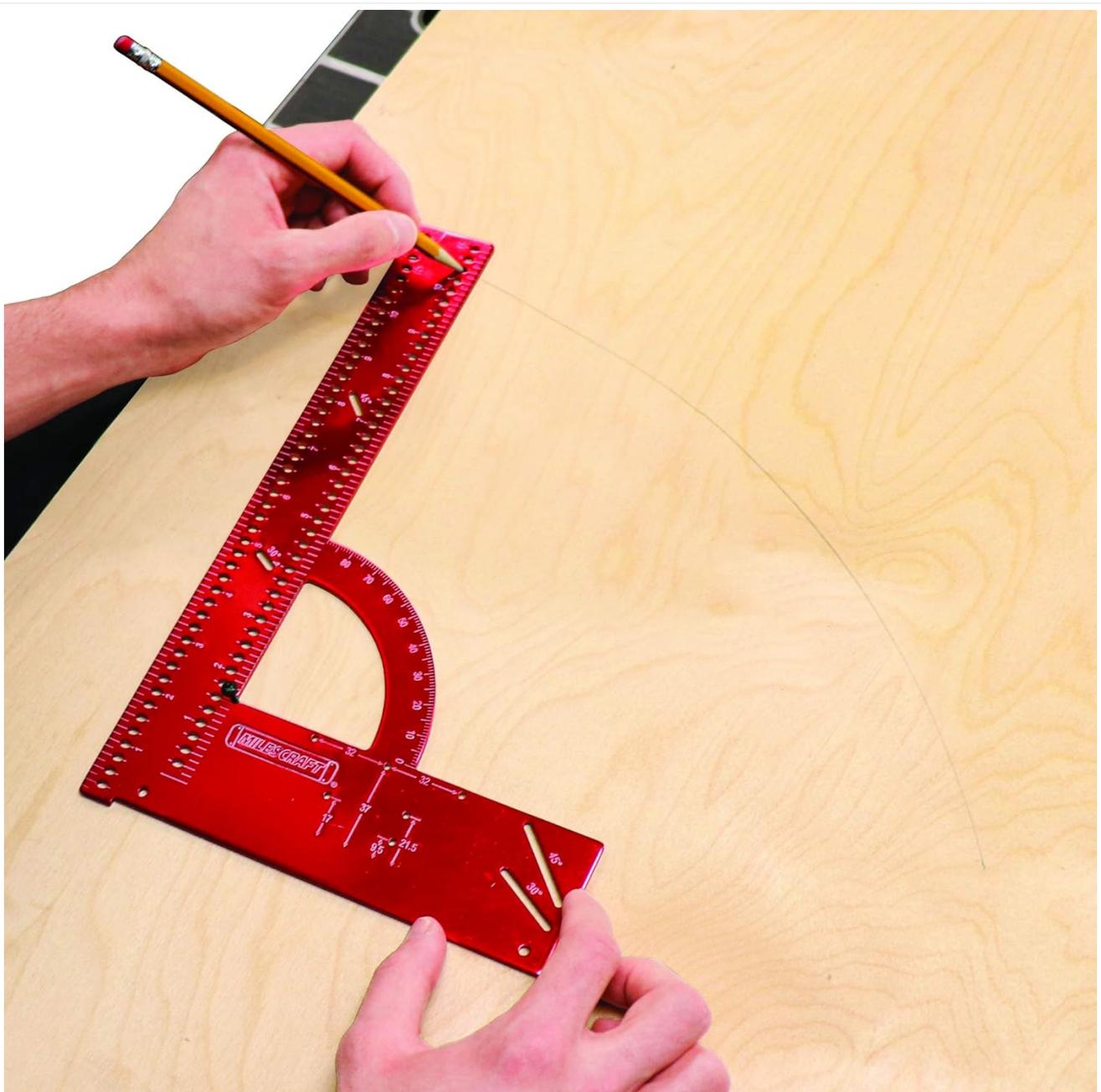


Image 3.3: A user demonstrating how to draw a large arc on a wooden surface using the Milescraft MC-Square300 as a compass, pivoting around a fixed point.

3.5 Checking Squareness

The square can be used to verify 90-degree angles on your workpieces.

1. Place the inner corner of the square against the corner of your workpiece.
2. Check for any gaps between the square and the workpiece edges to determine if the angle is truly 90 degrees.

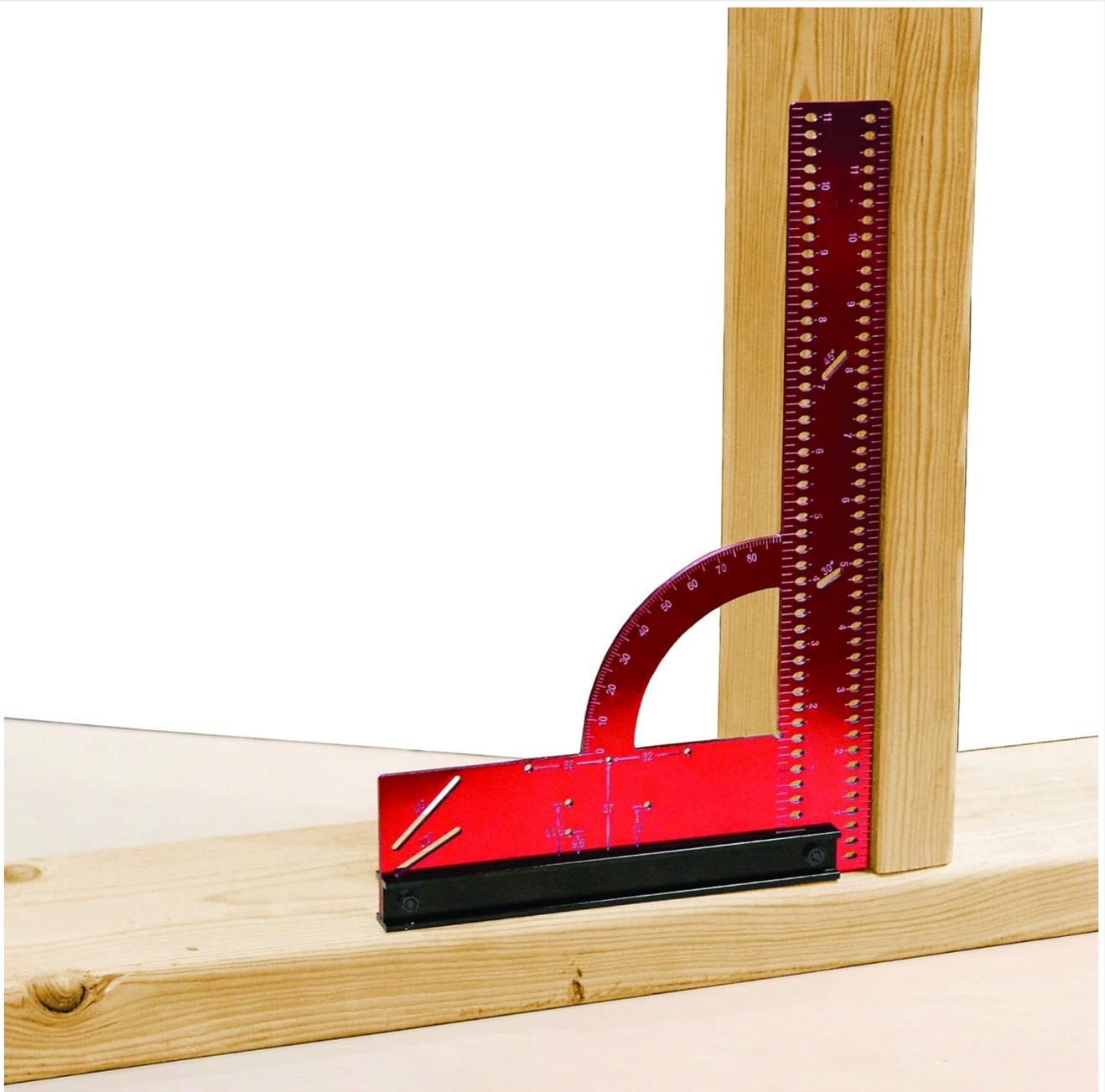


Image 3.4: The Milescraft MC-Square300 positioned to check the squareness of a wooden joint, demonstrating its utility for verifying right angles.

3.6 Hinge Mounting Holes

The square includes specific holes designed for European-style hinge mounting, aiding in precise placement.

1. Refer to your hinge manufacturer's instructions for specific measurements.
2. Align the square's hinge mounting holes with the desired position on your cabinet door or frame.
3. Mark the drilling points through the holes.

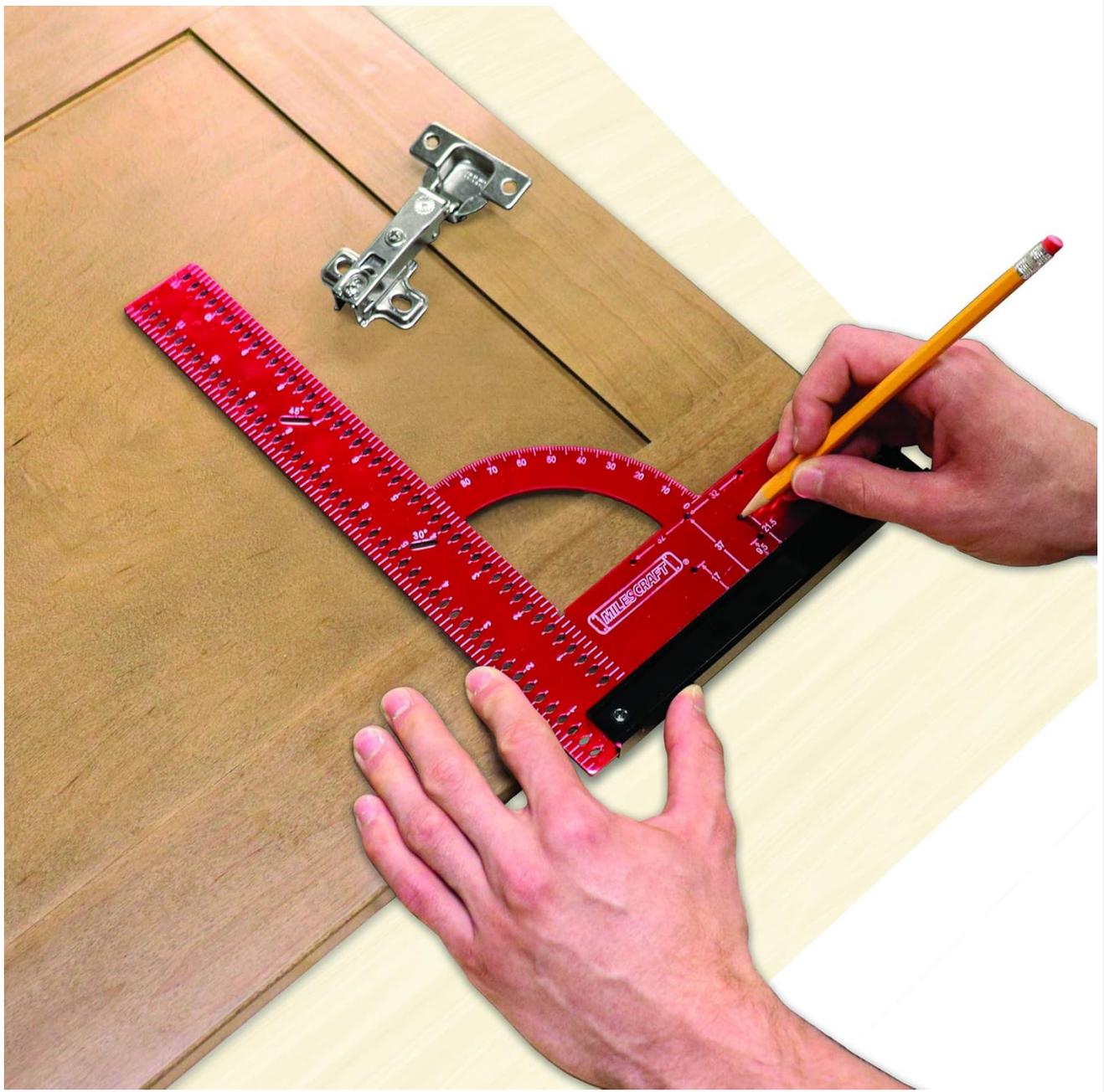


Image 3.5: A user marking screw holes for a European-style cabinet hinge using the MilsCraft MC-Square300's integrated hinge mounting guides.

4. MAINTENANCE

To ensure the longevity and accuracy of your MilsCraft MC-Square300, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the square clean after each use with a soft, dry cloth to remove dust, wood shavings, or marking residue. For stubborn grime, a slightly damp cloth can be used, followed by immediate drying. Avoid abrasive cleaners or solvents that could damage the anodized finish or markings.
- **Storage:** Store the square in a dry environment, away from extreme temperatures and humidity. Protect it from impacts or drops that could bend or warp the aluminum, compromising its accuracy.
- **Inspection:** Periodically inspect the square for any signs of damage, such as bends, nicks, or worn markings. If significant damage is present, the accuracy of the tool may be compromised.

5. TROUBLESHOOTING

If you encounter issues with your MC-Square300, consider the following:

- **Inaccurate Markings:** Ensure the square is held firmly against the workpiece and that your marking tool (pencil, knife) is sharp and consistent. Check the square for any physical damage or bending that might affect its straightness or angles.
- **Fence Not Sliding Smoothly:** Clean the grooves and the fence itself to remove any accumulated debris. A small amount of dry lubricant (e.g., graphite) can be applied if necessary, but avoid wet lubricants that attract dust.
- **Difficulty Reading Scales:** Ensure adequate lighting. If markings appear faded, clean the surface thoroughly.

6. SPECIFICATIONS

Specification	Detail
Manufacturer	Milescraft
Part Number	8410
Style	Square
Material	Aluminum
Color	Black - (Note: Product images show red, but specification lists black. Please verify product color upon receipt.)
Power Source Type	Hand Powered
Number of Units in Package	1
Specific Use Instructions	Amateur, Professional
Included Components	(1) 12-inch Framing Square
Batteries Required?	No
Length	12 inches
Width	8 inches
Product Dimensions	30.48 x 20.32 x 0.1 cm; 249 g
Product Model Number	8410
ASIN	B083N2WSWY
Release Date	June 4, 2020
First Available Date	January 10, 2020
Graduation Range	1/8 Inches

7. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation included with your purchase or visit the official Milescraft website. Milescraft is committed to providing high-quality tools and customer satisfaction. If you require technical assistance, have questions about product usage, or need to report a defect, please contact Milescraft customer support through their official channels. Contact information can typically be found on the product packaging or their website.

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