



Manuals.plus /

› CaSuTong /

› CaSuTong 1 3/4 Inch Square Plastic Plugs User Manual

CaSuTong FS-45

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Model: FS-45 | Brand: CaSuTong

1. INTRODUCTION

This user manual provides essential information for the proper use, installation, and maintenance of your CaSuTong 1 3/4 Inch Square Plastic Plugs. These durable end caps are designed to protect various square tubing posts and surfaces from damage, offering a clean and finished appearance.

The package includes 8 pieces of 1 3/4 inch (45mm) square plastic plugs, suitable for a wide range of household and outdoor applications.

2. PRODUCT FEATURES

- **Applicable Size:** Designed to fit 1-3/4" (45mm) OD square tubing (45x45) with inside hole diameters (ID) from 1.61" - 1.71" and a wall thickness of .031" - .079" for steel pipes. The head size is 1 3/4".
- **Versatile Use:** Ideal for furniture, chair legs, exercise equipment, fences, shelves, vehicles, trailers, metal chairs, outdoor swings, table legs, water sports equipment, and other applications where a protective and finished look is desired.
- **Anti-Scratch and Secure:** These premium plastic plugs prevent scratches on wooden floors and protect the ends of metal square tubes, ensuring a secure and stable fit.
- **Durable Construction:** Made from high-quality plastic, offering durability, shockproof properties, waterproofing, wear resistance, and UV resistance for long-lasting performance in various weather conditions.
- **Easy Installation:** Features multiple flexible ribs that ensure easy installation and a secure, snug fit without the need for additional tools.



Figure 2.1: An overview of the CaSuTong 1 3/4 inch square plastic plugs, showing their design and quantity in a typical pack.

3. SPECIFICATIONS

Attribute	Detail
Product Dimensions	1.75"L x 1.75"W x 0.31"Th
Number of Items	8
Material	Plastic
Color	Black
Shape	Square
Item Weight	2.39 ounces
Model Number	FS-45
UPC	669936835225

4. SETUP AND INSTALLATION

Proper installation of the CaSuTong square plastic plugs ensures maximum protection and stability. Follow these steps to ensure a correct fit:

- 1. Measure Your Tubing:** Before purchasing or installing, accurately measure the **outer diameter (OD)** of your square tubing. The plug size should match the outer diameter of your tube. Also, note the **inner diameter (ID)** and **wall thickness** to ensure compatibility. The plugs are designed for tubing with an ID between 1.61" - 1.71" and a wall thickness of .031" - .079".
- 2. Clean the Tubing End:** Ensure the end of the square tubing where the plug will be inserted is clean and free from debris, rust, or burrs.

3. **Insert the Plug:** Align the plastic plug with the opening of the square tubing. Apply firm, even pressure to push the plug into the tube. The flexible ribs on the plug are designed to compress and create a secure, snug fit.
4. **Verify Fit:** Once inserted, ensure the plug is fully seated and flush with the end of the tubing. A properly installed plug will not easily come loose.

How To Order The Right Plug

Select the plug size that **MATCHES** the outer diameter of your tube



Figure 4.1: Guide to measuring your square tubing to select the correct plug size.



Figure 4.2: Close-up view of the plug's flexible ribs, which aid in easy and secure installation.

5. OPERATING AND APPLICATIONS

CaSuTong square plastic plugs serve multiple functional and aesthetic purposes. Once installed, they provide protection and a finished look to various items with square tubing.

- **Floor Protection:** Use on furniture legs (chairs, tables, benches) to prevent scratches and scuffs on hardwood, tile, or other flooring surfaces.
- **Equipment Protection:** Ideal for exercise equipment, outdoor swings, and patio furniture to protect the tubing ends from damage and wear.
- **Safety:** Cover sharp or unfinished tubing ends to prevent injuries.
- **Aesthetic Finish:** Provide a clean, professional, and finished appearance to metal structures, fences, shelves, and trailers.
- **Weather Resistance:** The durable and waterproof material makes them suitable for both indoor and outdoor environments, holding up against harsh weather conditions.



Figure 5.1: Examples of common applications for the square plastic plugs in various settings.

6. MAINTENANCE

CaSuTong square plastic plugs are designed for durability and require minimal maintenance. To ensure their longevity and continued performance:

- **Regular Cleaning:** Periodically wipe the plugs with a damp cloth to remove dust and dirt. For outdoor applications, a mild soap solution can be used if necessary.
- **Inspection:** Occasionally check the plugs for any signs of wear, cracking, or loosening, especially if the item they are attached to is frequently moved or exposed to harsh conditions.
- **Replacement:** If a plug becomes damaged or no longer fits securely, replace it to maintain protection and stability.

The high-quality plastic material is wear-resistant and UV-resistant, contributing to the product's long lifespan even with outdoor exposure.

7. TROUBLESHOOTING

Most issues with square plastic plugs relate to incorrect sizing or installation. Refer to the following

common scenarios:

- **Plug Does Not Fit (Too Loose):**
 - **Cause:** The plug's outer dimensions are too small for the tubing's inner diameter, or the tubing wall is too thick for the plug's ribs to grip.
 - **Solution:** Re-measure your tubing's outer diameter, inner diameter, and wall thickness. Ensure you have selected a plug that matches the outer diameter of your tubing and whose ribs can accommodate the wall thickness. Refer to Section 4.1 for proper measurement.

- **Plug Does Not Fit (Too Tight / Cannot Insert):**
 - **Cause:** The plug's outer dimensions are too large for the tubing's inner diameter, or the tubing wall is too thin, preventing the ribs from compressing.
 - **Solution:** Re-measure your tubing's outer diameter, inner diameter, and wall thickness. You may need a slightly smaller plug or one designed for a different wall thickness. Do not force the plug, as this can damage both the plug and the tubing.

- **Plug Falls Out:**
 - **Cause:** The plug was not fully seated, or the tubing end is damaged/deformed.
 - **Solution:** Ensure the plug is pushed in completely until it is flush. Inspect the tubing end for any damage that might prevent a secure fit. If the plug is worn, replace it.

8. WARRANTY AND SUPPORT

CaSuTong products are manufactured to high standards of quality and durability. While specific warranty details are not provided in this manual, for any product inquiries, support, or to report issues, please contact the seller directly through the platform where the purchase was made.

For additional information or to explore other product sizes, please visit the official CaSuTong store or product page.