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## Hape E5564

# Hape Flexistix Geodesic Structures Building Kit E5564 Instruction Manual

Model: E5564 | Brand: Hape



## INTRODUCTION

The Hape Flexistix Geodesic Structures Building Kit is designed to encourage building, constructive problem-solving, and imaginative thinking in children aged 4 years and up. This kit allows for the creation of various geodesic structures, including domes and truss bridges, using sustainable bamboo sticks and silicon connectors.

Hape products are crafted from wood and natural materials sourced from sustainably harvested forests, ensuring durability and child safety with non-toxic paint finishes. All products sold in North America meet or exceed applicable safety standards.

## PACKAGE CONTENTS



Figure 1: Hape Flexistix Geodesic Structures kit packaging with dimensions (26cm height, 40.5cm width, 6.8cm depth).

Your Hape Flexistix Geodesic Structures Building Kit includes:

- Bamboo sticks
- Silicon connectors

The kit contains 177 pieces in total, allowing for diverse construction projects.

## SAFETY INFORMATION

This product is recommended for children aged 4 years and up. Adult supervision is advised during play to ensure safe use of all components. Keep small parts away from younger children to prevent choking hazards.

## SETUP AND ASSEMBLY

The Flexistix system uses flexible bamboo sticks and multi-pronged silicon connectors to build various structures. The connectors allow sticks to be inserted at multiple angles, forming stable geometric shapes.



Figure 2: Close-up view of a silicon connector and bamboo sticks, illustrating how they connect.

- Unpack Components:** Carefully remove all bamboo sticks and silicon connectors from the packaging.
- Identify Components:** Note the different lengths and colors of bamboo sticks (if applicable) and the multi-pronged design of the silicon connectors.
- Connect Sticks:** Insert the ends of the bamboo sticks firmly into the openings of the silicon connectors. Ensure a snug fit for structural stability.
- Form Basic Shapes:** Begin by forming triangles, squares, or other polygons as the base of your structure. Triangles provide the most rigidity.
- Expand Vertically and Horizontally:** Continue adding sticks and connectors to build upwards or outwards, creating complex three-dimensional forms.

Refer to the included instruction booklet for specific designs like the geodesic dome or truss bridge, or use your creativity to design unique structures.

## OPERATING INSTRUCTIONS: BUILDING STRUCTURES

The Flexistix kit allows for the construction of various architectural models. Below are examples of structures you can build:

### Building a Geodesic Dome



Figure 3: A child constructing a geodesic dome using Hape Flexistix.

To build a geodesic dome, start by creating a circular base using sticks and connectors. Gradually add layers, forming interconnected triangles that curve inwards to create the dome shape. The video below demonstrates the assembly process for various structures, including a geodesic dome.

### Building a Truss Bridge



Figure 4: A Hape Flexistix truss bridge, showcasing structural stability.

For a truss bridge, focus on creating strong triangular frameworks. Build two parallel arch-like structures and connect them with horizontal and diagonal sticks to form a stable bridge. The video below provides visual guidance for constructing a truss bridge and other designs.

### Official Product Video



Video 1: Official Hape Flexistix product video demonstrating the assembly of various structures, including geodesic domes, towers, and bridges. This video provides visual instructions for different kit styles.

## MAINTENANCE

To maintain the quality and longevity of your Hape Flexistix kit:

- The surface of the product is finished with safe, water-based paint. It does not require disinfection.
- Avoid using alcohol to wipe the components, as it can dissolve the water-based paint.
- Do not wash the components directly with water.
- To clean, gently wipe the sticks and connectors with a dry or slightly damp cloth.
- Store the kit in a dry place away from direct sunlight and extreme temperatures to prevent material degradation.

## TROUBLESHOOTING

If you encounter any issues while using your Hape Flexistix kit, consider the following:

- Loose Connections:** Ensure bamboo sticks are fully inserted into the silicon connectors. Apply gentle pressure until a secure fit is

achieved.

- Structure Instability:** If a structure feels wobbly, reinforce it by adding more diagonal or horizontal sticks to create additional triangular supports. Triangles are key to structural integrity.
- Missing Pieces:** Count all components against the package contents. If pieces are missing, contact Hape customer support.
- Difficulty with Designs:** Refer to the included instruction booklet or the official product video for step-by-step guidance on specific models. Start with simpler designs before attempting more complex ones.

## SPECIFICATIONS

Feature	Detail
Product Dimensions	2.68 x 10.24 x 15.94 inches
Item Weight	1.8 pounds
Model Number	E5564
Recommended Age	4 years and up
Manufacturer	Hape
Materials	Bamboo sticks, Silicon connectors
Total Pieces	177

## WARRANTY INFORMATION

Hape products are manufactured to high-quality standards. For specific warranty details regarding your Flexistix kit, please refer to the warranty information provided with your purchase or visit the official Hape website.

## CUSTOMER SUPPORT

For further assistance, questions, or to report any issues with your Hape Flexistix Geodesic Structures Building Kit, please contact Hape customer support through their official website or the contact information provided in your product packaging.

Official Hape Website: [www.hape.com](http://www.hape.com)