

WOODWORKS® Canopies

Installation Instructions

DO NOT REMOVE CANOPIES FROM THE CRATE UNTIL YOU HAVE READ THESE INSTRUCTIONS IN THEIR ENTIRETY.

1.0 GENERAL

1.1 Product Description

WoodWorks Canopies are pre-formed acoustical canopies available in either Hill, Valley or S-curve configurations and suspended with cables. The canopies require two people to handle each canopy safely, minimize damage and provide support during installation. Do not remove the canopies from the crate until the suspension cables are attached to the building structure and ready to receive the canopy.

WoodWorks Canopies cannot be cut, drilled or altered in any way. The canopy must not be used to support any other material. The cable suspension system must be fastened to the structure and cannot be hung from any commercial ceiling system. **Canopies must be hung at least 18" apart.**

1.2 Materials and Finishes

WoodWorks Canopies are composite panels with specified veneer options that are factory finished, have excellent durability and are cleanable. Due to the inherent properties of wood and the changing numbers of sheets cut from any given log, variation in color and grain will appear. This is a natural occurrence. Maturing and mellowing of the color may occur with age and is consistent with the appearance of natural wood.

1.3 Storage and Handling

The canopies shall be stored in a dry interior location and shall remain in original crates prior to installation to avoid damage. The crates shall be stored in a flat, horizontal position. The protectors between canopies should not be removed until installation. Proper care should be taken when handling canopies to avoid damage and soiling. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25% relative humidity and temperature lower than 50°F or greater than 86°F. Canopies must not be exposed to extreme temperatures, for example, close to a heating source or near a window in direct sunlight.

1.4 Jobsite Conditions

Before WoodWorks Canopies are installed, they should be permitted to reach room temperature and have stabilized moisture content for a minimum of 72 hours before installation. Panels must be protected against damage from moisture, direct sunlight, surface contamination, and other sources of damage. Building areas to receive canopies shall be free of construction dust and debris.

1.5 Temperature and Humidity During Installation

Canopies should not be installed in spaces where the temperature and humidity conditions vary greatly from conditions that will be normal in the occupied space. WoodWorks Canopies are interior finish products that are designed for installation to be carried out in temperature conditions between 50°F and 86°F in spaces where the building is enclosed and HVAC systems are functioning and will be in continuous operation. Relative humidity shall not fall below 25% or exceed 55%. The fluctuation in relative humidity shall not vary more than 30% over the life of the canopies. All plastering, concrete, terrazzo or any other wet work shall be completely dry. All windows and doors shall be in place. The heating, ventilation and air-conditioning systems should be installed and operable where necessary to maintain proper temperature before, during and after the installation of the WoodWorks Canopies.

1.6 Fire Performance

WoodWorks Canopies, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present. Contact Techline at 1-877-276-7876, option 1, then 2, then 3 for specific US and Canadian fire performance data.

2.0 COMPONENTS

2.1 Canopies

WoodWorks Canopies are 48" x 96" or 36" x 72". Canopies are available in either Hill, Valley or S-curve configurations, with a fixed arc radius of 12' for Hill and Valley and 8' for S-curve.

2.2 Suspension System

WoodWorks Canopies are suspended with cables. Complete suspension cable kits are supplied with each canopy. They consist of four 8' cables per canopy and hardware that attaches the cables to the canopy and structure with an adjustable gripper to easily set the proper elevation. Extended 16' cables are available as a separate accessory (BP5947). Anything over 16' requires superstructure to be built and braced to the deck.

3.0 INSTALLATION

3.1 General

After opening the product crate, and before installation, be sure to locate, remove, and set aside the hardware kit.

WoodWorks canopies require two people to handle each panel safely, minimize damage and provide panel support during installation. **DO NOT REMOVE THE CANOPIES FROM THE CRATE** until step 3.2.2 of the installation process. Since the canopies are pre-assembled, locate the suspension hardware and make all the connections while the product is still in the crate.

WoodWorks Canopies cannot be cut, drilled or altered in any way. The canopy must not be used to support any other material. The cable suspension system must be fastened to the structure and cannot be hung from any commercial ceiling system. WoodWorks Canopies are not approved for exterior application.

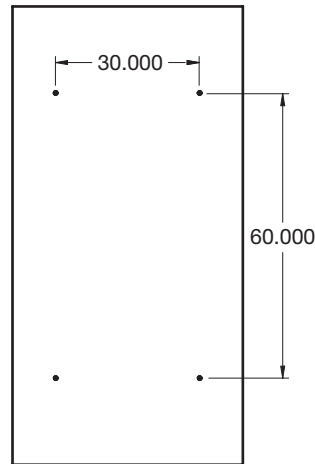
3.2 Suspension Cables

Canopies must be installed with four suspension cables. **Canopies must be hung at least 18" apart.**

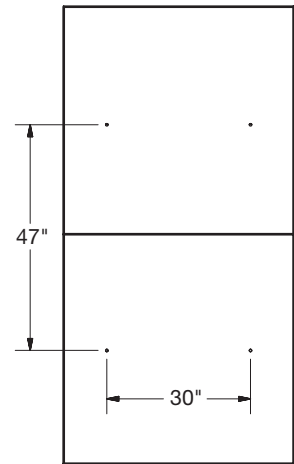
3.2.1 Cable Attachment to Structure

1. Use the suspension cable targets shown in the plan view drawing below to locate cable anchor points at the structure.

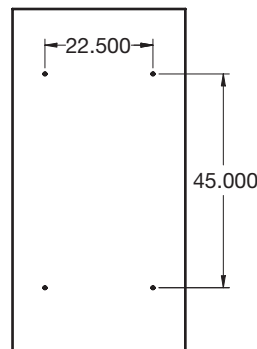
Additional structural support may be required if cable anchor points are obstructed by HVAC, piping or other components in the plenum.



4' x 8' Hill and Valley Canopy



4' x 8' S-curve Canopy

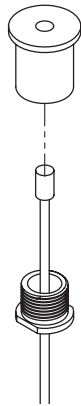


3' x 6' Hill and Valley Canopy

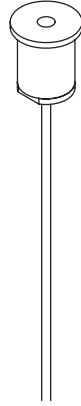
2. The International Building Code requires the attachment of free floating architectural components to be sized for three times the design load. WoodWorks Canopies weigh 2.5 lbs. per sq. ft. Select hardware that will satisfy these requirements and is appropriate for the structure to which they will be attached.

3. Attach the gripper structure anchor to the structure with a fastener that will carry the full weight of the canopy. The top of the gripper anchor has a 1/4"-20 threaded hole for use with a 1/4"-20 bolt, or you can use a standard wood or sheet metal screw through this hole for proper attachment to the structure.

4. Insert the end of the cable into the gripper anchor cap.



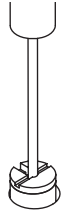
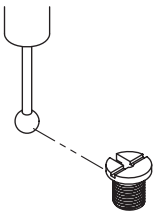
5. Screw the gripper anchor cap completely into the gripper structure anchor.



3.2.2 Cable Attachment to Canopy

All cable attachments should be made while the product is in the crate.

1. Remove cardboard packaging from top of canopy.
2. Pull off the felt dots to expose the four anchor points. This will ease final removal after the panel is installed.
3. Locate the four embedded anchor points on the canopy.
4. Insert the end of the cable into the internal barrel cap and completely screw this into the embedded canopy plate.



5. Screw the bottom end cable adjuster into the gripper bottom end assembly.



6. Repeat until all four bottom end assemblies are attached to the canopy.



3.3 Install the Canopy

3.3.1 Insert Suspension Cables

1. Move the crate to the approximate location of the installation.
2. Keep the crated canopy on a flat surface to support the crate.
3. Insert a suspension cable into the top of the cable adjuster at all four corners.
4. Gently pull the cable through the cable adjuster until all the slack is removed.



3.3.2 Suspend the Canopy

Canopies must be installed so the lowest point is a minimum of 7' 6" above the finished floor.

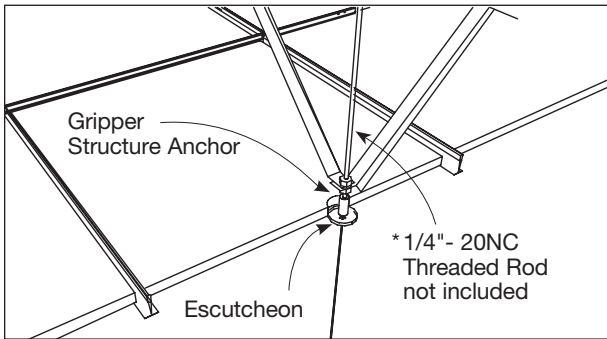
1. Suspending the canopy requires two people.
2. Raise the panel and gently pull the cable(s) to take up the slack. Do not pull the cables to raise the canopy under full panel weight. Cable damage will occur.
3. Continue to raise the canopy until at the required height.
4. Canopies can be installed up to a 45-degree angle in either direction.
5. To lower the canopy, take the weight off the cable(s), depress the plunger on top of the cable adjuster and lower the canopy. Release the plunger to lock the cable into the adjuster. Adjust panel height as desired.
6. After the panel height is correct, cut off excess cable leaving about 1" remaining out of the cable adjuster.

3.4 Installing the Canopy Below an Existing Ceiling

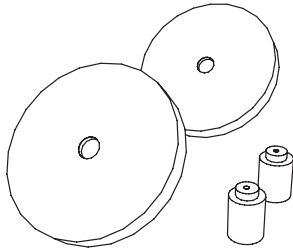
Canopy suspension cables should not impose any lateral force on an existing ceiling.

1. The structure gripper anchor must be mounted to a support at or above the existing ceiling.
2. Use 1/4" – 20 threaded rod attached to structure to secure the structure gripper anchor at the correct height.

3. Use diagonal bracing to structure to provide support.



4. Use the optional escutcheon kit accessory to conceal the structure gripper anchor when installed above the ceiling level.



Escutcheon Kit P7006

- (2) Collars with set screws
- (2) Escutcheons (2")

Note: Two kits are required for each canopy.

3.5 Seismic Restraint* and Installation

The International Building Code allows architectural components to swing freely as long as they will not be damaged or cause damage. **Canopies suspended will swing no more than 18" in any direction for each panel.** Restraint of canopies is not recommended.*

**Pendulum reaction information is based on full scale testing and computer modeling conducted at the Structural Engineering Earthquake Simulation Lab located at the State University of New York at Buffalo.*

4.0 WOOD DUST WARNING

Cutting canopies is not recommended.

CAUTION: WOOD DUST Sawing, sanding and machining wood products can produce dust. Airborne wood dust can cause respiratory, eye and skin irritation. The International Agency for Research on Cancer (IARC) has classified wood dust as a nasal carcinogen in humans.

Precautionary measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designed dust mask. Avoid dust contact with eyes and skin.

First Aid measure in case of irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

5.0 CLEANING

Use a clean, dry, soft white cloth to wipe off any dirt or fingerprints. Regular light dusting of the back side of the canopy is recommended.

MORE INFORMATION

For more information, or for an Armstrong representative, call 1 877 276 7876.

For complete technical information, installation information and many other technical services, call Architectural Specialties at 1 877 ARMSTRONG, and select options 1-1-4.

For the latest product selection and specification data, visit armstrongceilings.com/woodworks.