Star Hanger systems

"Hidden Fastener Specialist"

CLOUD HANGER INSTALLATION GUIDE

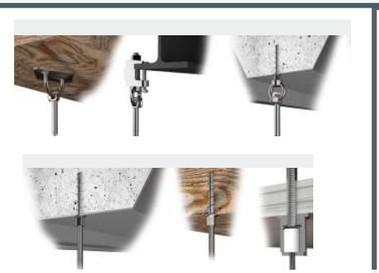
The Cloud Hanger makes the final connection from 1/8" cable directly to the wood panel with 10 pan head #8 wood screws. The Cloud Hanger cable length is quickly adjustable with 3 set screw. Cloud Hanger also has a rub protection collar which allows the panel to be mounted at up to a 30-degree angle. The Cloud Hangers are generally semi exposed and have an aluminum mill finish.

Required Tools
Laser Level, Point Beam, Battery Drill
Vise Grip, Needle Nose Plies, Cable Cutter

There are three common ceiling structurers that the Cloud Hanging is suspended from, steel beams, concrete and wood.

Determine the desired location of ceiling panel on the floor. A template with the cable connection points is helpful.

Use a laser level to transfer the cable connection points to the ceiling structure.



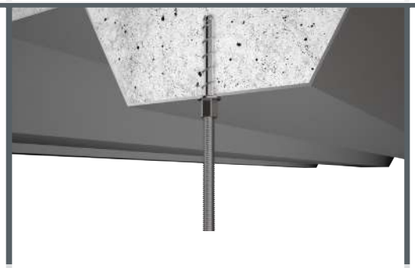
Examine the ceiling structure above and determine if the cable connection points are workable. If required adjust the location of the template to locate solid connection points.

Exposed steel beams the 1/4"-20, Beam Clamp, connected to a 1/4"-20, eye bolt works well.

Exposed concrete deck above the 1/4"-20, Concrete Bolt, connected to a 1/4"-20, eye bolt works well

Wood beams the Stainless 1/4" Pad Eye. The Pad Eye is generally screwed in place on a thick wood beam with heavy screws.

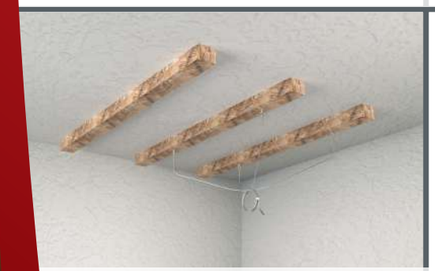
Finished sheet rock ceiling and hidden steel beams, use a 1/4" - 20 Beam Clamp connected to a threaded rod. There should be a few inches of the threaded rod exposed through the finished ceiling.



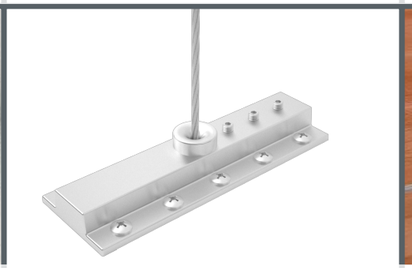
Finished sheet rock ceiling and hidden concrete deck, use a 1/4" - 20 Concrete Bolt connected to a threaded rod. SEE Step 12.

Finished sheet rock ceiling and hidden wood beam, use a 1/4" - 20 Concrete Bolt connected to a threaded rod.

Cloud Hanging, Ball Connector & 5 Ft. 1/8" Cable Clamp connected to a threaded rod. There should be a few inches of the threaded rod exposed through the finished ceiling. After the ceiling is finished the exposed rod is cut to 3/8" below the ceiling and cleaned up, ready for the Ball Connector.

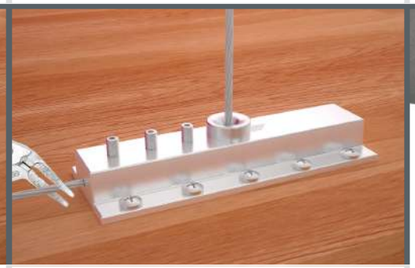


Install the structural connections & cables. The cables should be dropped about 12" below the final panel level. Tie the cables together well above the work zone.

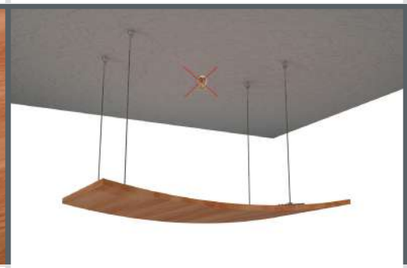


Install the Cloud Hangers onto the Cloud Panel. There are 10 screw holes drilled for # 8 x ¾" pan head wood screws, use all the screws.

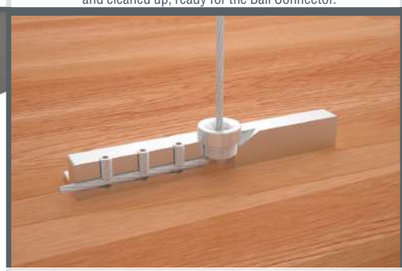
Carefully lift the panel into position from a secure platform. Install the Cloud Hangers to the cables, unscrew the friction ring and feed the cable through horizontal locking hole with needle nose pliers. Clamp the 1/8" cable with needle nose vise.



Reinstall the friction ring and tighten all 3 of the cap screws onto the cable. Use the needle nose vise grips to adjust the cable length until the Cloud is at the correct height. Tighten all three set screws to lock the cable in place. Use a frim force to lock all 3 cable lock cap screws in place, however, not enough to cut the cable.



Take a good look at the panel from the ground to make sure it does not hit anything. And does not block HVAC Vents, Fire Sprinklers or other critical equipment. Note, A fixed cable connection should not be used if the panel will be constantly subject to sway or noticeable movement from HVAC vents, fan or any other source.



Cut of cable off flush with the end of the Cloud Hangar. The 1/8" stainless steel cable is difficult to cut, use a large pair of wire cutters or small bolt cutter.

While standing solidly on the ladder pull down firmly on all the cable connections. If properly connected the ends should show no signs movement of failure with 100 pounds of added force.

Finished panels

MOVEMENT: Cloud Hanger is a fixed cable connection; therefore, the cable must bend if the panel is subject to swaying. This bending will cause metal fatigue. Cloud Hanger has been tested to 1,000,000 sway cycles, at 10 degrees angle, holding 100 pounds. A fixed cable connection should not be used if the panel will be constantly subject to sway or noticeable movement.

You should consider both weight and long-term stability of the panel. If the panel the will be susceptible to warp or bowing you may want to add more cables.

Star Hanger Systems
1700 Syrup Mill Rd. | Blythewood, SC 29016
starhanger.com | 803.250.9608