HOW DO I GET THE NCAA NEWLY REQUIRED LONG GOAL POST INSERTS INTO MY CONCRETE FLOOR?

This summer, the NCAA passed the following rule:

Longer Goal Pegs: 10” goal pegs that are anchored into the ice or floor must be in place at all NCAA levels by the 2016-17 season.

There are a lot of rinks that will be affected by this. These goal posts and inserts are available from most rink supply companies in the U.S. and Canada. A decision has to be made regarding who installs these Marsh Pegs. Most rink supply companies will do this work for you or you can do it yourself if you have a handy person on your staff to complete this task.

We contacted several of our vendor members and received ballpark quotes of anywhere from $2,000 to $3,000 for labor and materials to install these goal-post inserts. This does not include any travel expenses, if required. It is estimated that it will take two people one full day to complete the job.

If you decide to take on this project yourself or with your staff, the most important and critical tool will be patience! It is not a quick job and should be completed using hand tools only. Allow at least one full day and maybe longer depending on the skill of your staff. Before you start the job, be prepared to repair a broken pipe. This is a critical step.

Make sure your refrigeration engineer or mechanic is available and on-site if needed. This is something that you want to avoid, but precautions should be taken ahead of time.

Before you begin digging into the concrete floor, you need to know where the goal line will be located. How far off the end boards will it be? NCAA currently has a range of 10’ to 15’ off the end boards. Other leagues have different requirements. Once you determine your measurement off the end boards, you need to find center of the rink at that point. Stretch a string or 100’ tape measure across the rink at this point and determine the center spot. Permanently mark this spot.

The inside of the goal frame is 6’ apart. The goal frame posts are 3” in diameter. So from the center mark, measure 3’ and 1.5” out to each side and make a mark. This will be the center of the goal post and goal-post insert. This will give you your starting point to begin the process.

THE NHL PEG CREATED FOR THE 2002-03 SEASON WAS 1 7/8" BY 10" INCHES LONG

FACT:

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Used in the NHL since 1991 and Winter Olympics since 1998.

INSTRUCTIONS
1. Secure and put on all personal protective equipment.
2. On most floors, only the top surface of the concrete has had any hardening process done to strengthen it. This is normally only on about the top 1/8”. With your concrete chisel and hammer, begin to break the concrete surface in the areas of the goal posts that you have marked. Don’t worry about how big the hole will be. The final location of the goal-post inserts will be determined by where your refrigeration pipes are located. Take your time and break through this hole until you have reached your desired depth.
top-hardened layer very carefully and slowly.

3. Once you have broken through the top layer, the concrete will be slightly softer and more porous underneath. During a normal concrete floor installation, the refrigeration pipes are put in pipe chairs to keep the pipes approximately 1” below the surface. This does not mean you can just go crazy with the chisel for the first inch because the pipes can move and sometimes come out of the pipe chairs during installation. Depending on where your rink is located geographically in the country, the pipes could be anywhere from 3.5” to 5” apart on center. So, take your time and break the concrete in small pieces on an angle. Do not strike or chip straight down, because if you do strike the chisel extra hard or hit an air pocket, you could slice a refrigeration pipe. Take this step very slowly until you have located and uncovered the refrigeration pipes. Once you have located the pipes, the process becomes a little less stressful.

4. Use the shop vacuum to clean up the broken concrete and dust as you go to keep the site clean. You should always be able to see the refrigeration pipes so that you can avoid damaging them.

5. Continue to chip out the hole between the refrigeration pipes to a depth of approximately 4”. This will depend on the exact inserts you have purchased. They should

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Tools Required

» Personal protective equipment — eye and face protection, gloves, work boots, long sleeves and pants.

» Concrete chisel. Variety of sizes from 1” to 2” available at most hardware stores.

» Good quality hammer available at all hardware stores.

» Shop vacuum.

» Small level.

» Compatible concrete patch. Check with company that installed your floor or rink supply company for proper concrete patch material.
sit flush with the finished concrete surface. If your inserts have caps on them, then the caps should sit flush with the finished concrete surface. Your hole will probably be wider than 2" at this point. You will need space to secure the inserts with a concrete patch in the last step.

6. Move to the other side and complete the same procedure.

7. At this point, you can finish one end or go to the other end and clear out the holes for the goal-post inserts, repeating all the steps above.

8. Once you have the two holes cleared for the goal-post inserts, I would strongly recommend bringing a goal frame out onto the floor. Set the inserts into the holes you have just cleared. Put the goal-post pegs into the inserts and put the goal frame onto the pegs.

9. Wedge the inserts so that they won’t move. Use the small pieces of concrete to wedge the inserts into place.

10. Remove the goal frame carefully.

11. Then, using a level, make sure the goal-post inserts are level and even with the surface of the finished concrete. Also, make sure they line up across the goal line. Measure from the end boards to each post to make sure they are the same and the net will sit straight across the goal line. Remember that your goal frame may not be exactly centered on the entire goal line because of the location of the refrigeration lines.

12. Once you are certain that the goal-post inserts are in the correct locations and all level, use the proper concrete patch to fill in the hole around the inserts and level this concrete patch with the rest of the concrete floor. Be sure to follow the directions with the particular type of concrete patch you are using. Also note the curing time before any freezing of the floor should take place. Some patches might require up to a week of curing before you can freeze the floor, while others might require a shorter time. Follow the directions supplied with the proper concrete patch.

13. Repeat the above process at the other end of the rink.

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Tips

› Have several sharp concrete chisels on hand.

› Keep the area you are working on clean with the shop vacuum so you can always see the refrigeration pipes.

› Always measure twice and consult the hockey rulebook applicable for the leagues that play in your facility.

› Allow plenty of time. This is a slow job and will take patience!

› During installation of a new floor, have three sets of inserts installed at 11’, 13’ and 15’ to give you some flexibility.

› Before using the concrete patch to set the goal-post inserts, bring a goal frame onto the floor to make sure the goal frame will easily fit onto the goal posts.

FACT:

Standard peg is 1 5⁄8” thick by 8”.

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Mandated by the NCAA for the 2016-17 season: Insert is approx. 4” inside the concrete and 2” in diameter.

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