



STEP BY STEP LAYOUT AND INSTALLATION INSTRUCTIONS

CONCRETE COURT CREATOR KIT – BASKETBALL COURT

TOOLS

- Concrete Court Creator Kit
 - Mongoose Concrete Engraver
 - Kaleidocrete Wasp
 - 60" Connecting Tubes (4)
 - Support Wheels (Set of 5)
 - Center Pivot
 - Pencil Holder
 - Basketball Template Set
 - Carpenter's Pencils
 - Soapstones
- Foam Brushes (1" and 2")
- Concrete Resurrection Concrete Stain
- Orange Chalk
- Chalk Line
- Tape Measure
- String
- Plumb Bob
- Ladder
- Concrete Sealer (optional)
- Layout Instructions
- Court Layout Worksheet

PROJECT OVERVIEW

You will use the Concrete Court Creator kit from Engrave-A-Crete to lay out and permanently engrave a high school regulation size half court into a concrete surface. Other copies of these instructions, the layout worksheet and the instructional can all be downloaded from the Engrave-A-Crete website, <http://engraveacrete.com/courts>. It's best to watch the instructional video in advance of actually installing the court, and then reference these directions and the layout worksheet on the job site. **If you have an adjustable rim, set the rim height to 10' before starting this project.**

FIGURE 1



BASKETBALL COURT

These instructions are specifically for the basketball court.

Measuring Instructions

1. Review the layout instructions and worksheet provided. In order to fill out the worksheet appropriately you must first take the measurements of your court surface. Measurement “A” “B” and “C” are required for properly installing a regulation style court.
2. First measure the distance from edge of the court to the front of the backboard and mark this spot on the court. All court measurements are based on the front of the backboard. The easiest way to do this is to measure from the front of the goal post to the front of the backboard, note that measurement and then measure from the base of the pole to the edge of the court. Subtract the second measurement from the first, and you will have the distance from the front of the edge of the court to the front of the backboard.
3. Plug this number into “A” on the layout worksheet.
4. Subtract the number you plugged into “A” from 63 inches to get the number you will plug into “B” on the worksheet. This is the length of the straight portion on either side of the ends of the three point arc from the edge of the court
5. Add “A” to 36 inches to get the number you plug into “C” on your worksheet. This is the distance from the edge of the court to the leading edge of the free throw block. (Please reference Figure 1 for all measurements).

6. Mark all of these measurements (A, B and C) on the court with soapstone.

Marking Instructions

7. Use the basketball rim center finder template included with the template kit, and a plumb bob on a string long enough to reach the court. Place the rim template centered on the basketball rim, and when the plumb bob has stopped swinging, make a mark on the court. This is the center of the basketball hoop. This is the spot from which the three point arc will be based on.
8. Secure the Mongoose Center Pivot over the mark referencing the center of the rim either by fastening it to the concrete with anchor screws, or by having a partner stand on the center pivot to hold it in place.
9. Attach all four 60 inch connecting tubes to the center pivot and slide on the support wheels and varying, balanced spaces.
10. Attach the pencil holder to the connecting tubes at a distance of 19'9" from the center pivot. Secure a pencil in the pencil holder and mark out the three point arc.
11. Move the pencil 2" closer to the center pivot and make another arc at 19'7". This marks out the 2" wide three point arc stripe.
12. Reference the worksheet and make two marks, one at 19'9" and one at 19'7" at the distance from the edge of the court noted as "B" on your worksheet. This is the point at which your three point arc will straighten out. Mark these lines by snapping a chalk line between the marks at "B" and between the 19'9" and 19'7" marks at the edge of the court.
13. Snap a chalk line at the center point of the rim, perpendicular to the backboard, extend the full length of the court.
14. Measure from this center line at a point near the edge of the court, and make 2 marks perpendicular to it at a distance of 6' and at 5'10". Do the same on the other side of the center line. Pick a point on the center line closer to the free throw line, and repeat the perpendicular marks on either side of the center line, again at 6' and 5'10". This will give you a two inch stripe for outlining the 12' wide key, up to the free throw line which is measured at 15' from the front of the backboard.
15. Use the center pivot and connecting tubes to measure six feet out from the center of the free throw line to the outside edge of the key in order to draw the free throw arc. **The apex of the free throw arc and the three point arc lines should converge.**
16. Measure from the edge of the court to the distance "C" from your work sheet, along the edge of the key. This is where the block will be marked. Use the block template to outline the block against the side of the key using soapstone or a pencil.
17. Measure 36" from the top of the block and place the free throw tab template and mark out the shape of the first free throw tab. Repeat this two more times to finish out one side of the key.
18. Repeat steps 15 and 16 on the other side of the key.

Cutting Instructions

19. Be sure all layout lines are correct before cutting.
20. Start with the free throw arc, being sure to stop short of the 3 point arc lines so that they will blend in when you cut the three point arc lines.
21. Cut the straight lines of the key.

22. Cut the three point arc including the straight ends being careful to blend in the cut lines of the free throw arc with the cut lines of the three point arc.
23. Clean up all lines and edges using the Wasp concrete engraver.

Staining Instructions

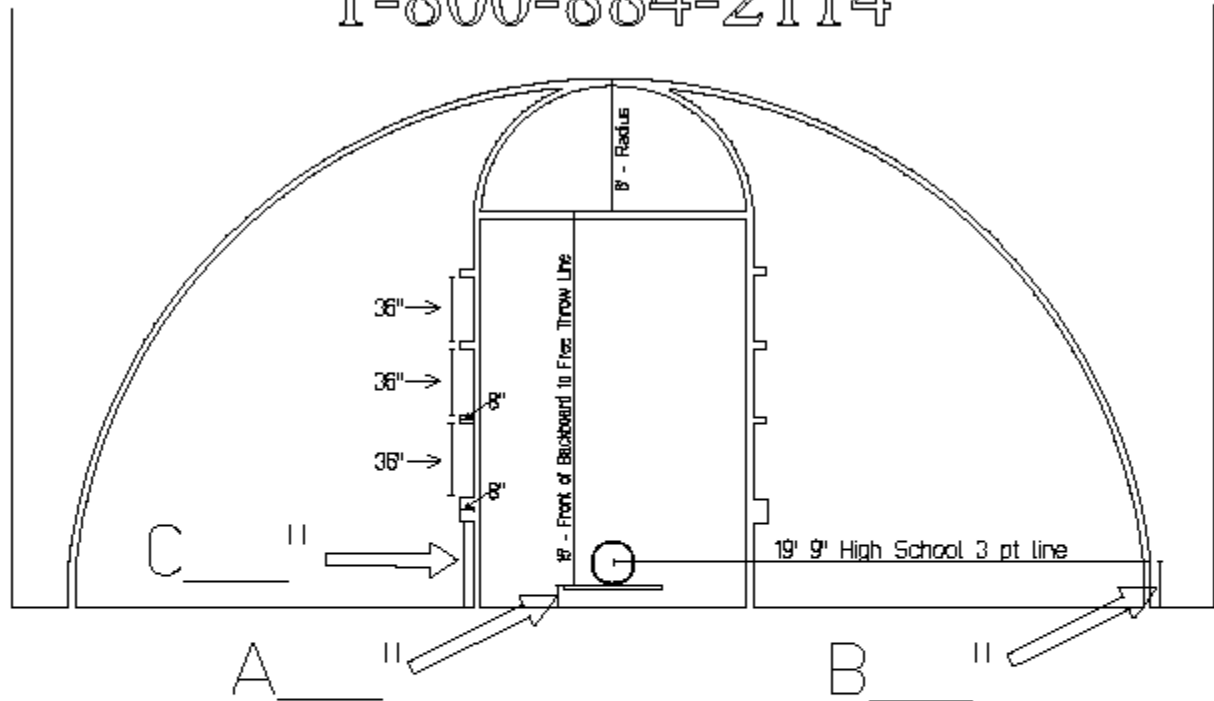
24. Wash off the surface and allow the court to completely dry (at least 4 hours).
25. Use Concrete Resurrection Reactive Acid Chemical (RAC) stain and a 2" foam brush to stain the lines you have cut, making them pronounced.
26. Once the stain has completely reacted (approximately 4 hours) neutralize the stain, wash off the concrete.
27. After the court has completely dried you may seal the lines with Concrete Resurrection outside sealer (Optional).

Figure 2



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1-800-884-2114



"A" is the Distance from the edge of the court to the front of the backboard

"B" is the length of the 3 point line, starting from the edge of the court, that is a straight line. It will intersect with the 19'9" arc to form a constant distance from the basketball hoop. To find "B" subtract the length of "A" from 63"

$$63'' - A = B \quad \underline{\hspace{2cm}}''$$

"C" is the distance from the edge of the court to the edge of the block.
To find "C" add the 36" to the length of "A"

$$36'' + A = C \quad \underline{\hspace{2cm}}''$$