

BASIC INSTALLATION TIPS FOR IN-SLAB TYPE GATE

1. GROOM THE HILL WHERE GATE IS TO BE PLACED. THE ANGLE OF THE HILL SHOULD BE AT ABOUT 14 TO 15 DEGREES. THIS IS A GOOD AVERAGE SETTING. AN ANGLE LOCATOR CAN BE PURCHASED FROM HOME DEPOT FOR ABOUT \$8.00. YOU CAN FIND IT IN THE TOOL DEPT. THE HILL SHOULD BE APPROX. 32 FT. OR LONGER. THE GATE DROP IS 24 FT. LONG. THE CONCRETE PAD IS GOING TO BE 5FT WIDE X 24 FT LONG.
2. PLACE THE 2 SECTIONS OF THE GATE ON THE HILL AND BOLT THE SECTIONS TOGETHER USING THE 5 LONG BOLTS . THE BOLTS ARE TAPED ON THE TRIANGLE BRACKET. POSITION THE GATE WHERE DESIRED. THE 1X3 EDGE WITH THE REBAR WELDED IN IS THE FRONT FORM.
3. ON BOTH ENDS OF THE GATE (THE FRONT FORM) THERE IS A TAB WITH 3 HOLES DRILLED IN IT. THIS IS WHERE YOU ATTACH YOUR 5 FT. 2X4 FORM. NAIL A 5 FT 2X4 ON EACH END OF THE GATE. FLUSH THE TOP OF THE 2X4 UP WITH THE TOP OF THE 1X3 FRONT METAL FORM.
4. NOW NAIL A REAR 24 FT LONG 2X4 FORM ON TO THE REAR OF THE 5 FT FORMS. YOU WILL NEED TO STAKE THE 2 BY 4 FORMS JUST AS YOU DO WITH FORMING ANY CONCRETE PAD .
5. NOW YOU HAVE A BASIC PAD FORMED UP. JUST STAKE IT AND LEVEL IT AS NECESSARY. TO LEVEL THE FORMS USE A STRING LINE. PAY VERY CLOSE ATTENTION ESPECIALLY TO THE FRONT FORM WITH THE REBAR. RUN YOUR STRING LINE FROM END TO END AND MAKE SURE THE MIDDLE OF THE GATE WHERE IT BOLTS TOGETHER IS NOT SAGGING. THIS EDGE MUST BE AS STRAIGHT AS POSSIBLE TO INSURE PROPER OPERATION OF THE HINGE SYSTEM. ADD YOUR CUSHION SAND IN. INSTALL A SECTION OF 2 ½ OR 3 INCH PVC PIPE WITHIN THE PAD IN ORDER TO RUN THE AIR HOSE AND ELECTRIC LINE TO THE AIR CYLINDER.
6. NOW BOLT THE TRIANGLE REAR CYLINDER BRACKET TO THE 2 TABS STICKING OUT IN THE MIDDLE OF THE GATE.THE 1 INCH BOLTS ARE ALSO IN THE BAG WITH THE LONG ONE'S. THIS BRACKET HAS ANGLE IRON WELDED TO THE BOTTOM OF IT. THIS ANGLE IS GOING TO IMBED INTO THE CONCRETE. THE BOTTOM OF THE 4” WIDE FLAT METAL IS GOING TO BE FLUSH WITH THE TOP OF THE CEMENT. SO WHEN YOU LOOK AT THE PAD YOU WILL SEE CONCRETE AND A 4” WIDE STRIP OF METAL IN THE MIDDLE AND A ¼ OF AN INCH HIGHER THAN THE CONCRETE. RUN A STRING LINE FROM THE FRONT METAL FORM TO THE REAR FORM CLOSE TO THE REAR BRACKET AND BLOCK UP THE REAR OF THE BRACKET AS NECESSARY TO LEVEL IT.
7. THE REAR TRIANGLE MOUNT IS PRE-SET ALTHOUGH IT IS NECESSARY TO INSTALL YOUR AIR CYLINDER NOW , TO MAKE SURE THE MOUNTS LINE UP . DO THIS BEFORE YOU POUR THE CONCRETE!!!!!!!!!!!!!!!!!!!! BE SURE TO CHECK THIS BEFORE YOU POUR.!!!

8. ONCE THE AIR CYLINDER IS MOUNTED YOU WILL KNOW EXACTLY WHERE TO INSTALL THE PVC PIPE FOR THE LINES TO THE AIR CYLINDER.
9. DOUBLE CHECK TO MAKE SURE ALL FORMS ARE LEVEL, THE FRONT EDGE IS NOT SAGGING AND THE AIR CYLINDER INSTALLS EASILY TO IT'S MOUNTS. INSTALL REBAR OR THE ROLL MESH WIRE AND TIE IT IN WITH THE REBAR WELDED IN THE FRONT FORM.
10. YOU MAY WANT TO POUR THE MUD A LITTLE DRIER THAN NORMAL DUE TO THE SLOPE YOU ARE DEALING WITH. INFORM YOUR CONCRETE SUPPLIER AS TO YOUR NEEDS AND THEY SHOULD BE ABLE TO DETERMINE THE MIX YOU NEED. ALSO CHECK ON HOW LONG THE MUD SHOULD CURE BEFORE DROPPING THE GATE. LEAVE THE FINISH OF THE CONCRETE VERY COURSE AND ROUGH FOR GOOD TRACTION. GRIP STRUT CAN ALSO BE INSTALLED IN THE SLAB BEFORE POURING IF DESIRED. SEE THE PIC OF THE INSTALLED GATE DROP AT METROPLEX BMX IN DALLAS. WE INSTALLED THE GRIP STRUT IN OUR SLAB BEFORE THE POUR.
11. IT SOUNDS LIKE A BIG PRODUCTION, ALTHOUGH IT IS QUITE EASY TO INSTALL.

IF YOU HAVE ANY QUESTIONS NOW OR DURING THE INSTALLATION OR POUR CALL ME ON MY CELL PHONE **214 734-7335** AND I WILL HELP OUT ANY WAY I CAN.

THANKS
AUBREY ZABOJNIK