

# **Cartwheel Factory SUGGESTIONS & TIPS**

## **MARTIAL ARTS SEAMLESS FLOORING INSTALLATION!**

**NOTE: READ THESE RECOMMENDATIONS COMPLETELY BEFORE STARTING TO INSTALL OR ASSEMBLE THIS PRODUCT. IF YOU REQUIRE FURTHER INFORMATION, PLEASE CALL OUR OFFICES AT 1-661-273-8700**

Here are 10 tips to help in the installation of the seamless flooring. They are in no particular order, so read them all before starting work.

1. Do not glue the crosslink foam to the floor.
2. Floor surface should be smooth and level. No need to remove previous flooring (carpet, tile, etc.) as long as the entire surface is flat and level..
3. Use duct tape to hold crosslink foam together. 2' wide tape works great.
4. Don't worry about foam seams. When tarp is installed over foam you will not see or feel them.
5. Leave a gap (1' minimum) between crosslink foam and inside of wood frame. This allows the foam to spread out and prevents buckling.
6. Spread tarp out over floor area for 24hrs. This step isn't mandatory but it helps in smooth out any wrinkles out of the tarp material.
7. If you have a post in your floor area, start there first. Staple around post first, making sure the rest of tarp is in position.
8. When stapling, start at the center of each side and work your way out to corners in small, equally sized increments. (3 foot increments work great.)
9. Open up the tarp as soon as possible. Tarp is shipped folded; wrinkles can become permanent if left longer than 7-10 days.
- 10.10. Measure the tarp and all the foam before you get started and as soon as possible after delivery.

**CWF Flooring, Inc. 38325 6th St. East, Palmdale, CA 93550**

**Tel. 1-661-273-8700, 1-661-273-8701 Fax: 1-661-885-8300**

**Web: [www.CartwheelFactory.Com](http://www.CartwheelFactory.Com) Email: [Sales@CartwheelFactory.com](mailto:Sales@CartwheelFactory.com)**

## **VELCRO KIT INSTRUCTIONS**

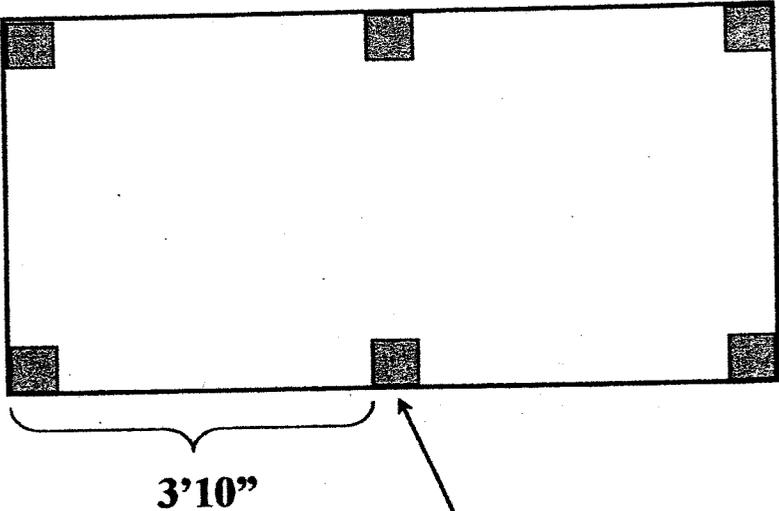
- Use HARD VELCRO on the TOP LAYER of boards.
- Cut the Hard Velcro into 4" x 4" tabs.
- Apply the Hard Velcro to the UNDERSIDE of the Top Layer of boards at the locations indicated by the attached diagram.
- Use glue (DO NOT OVER SPRAY) and 10-12 staples to attach each tab of Velcro.
- Use a hammer to be sure the staples are securely driven into the board.
- Use SOFT VELCRO on the BOTTOM LAYER of boards.
- Cut the Soft Velcro into 4" x 8" tabs.
- Apply the Soft Velcro to the TOP SIDE of the Bottom Layer of boards at the locations indicated by the attached diagram.
- Use glue (DO NOT OVER SPRAY) and 14-16 staples to attach each tab of Soft Velcro.
- Use Hammer to ensure staples are securely driven into the board.

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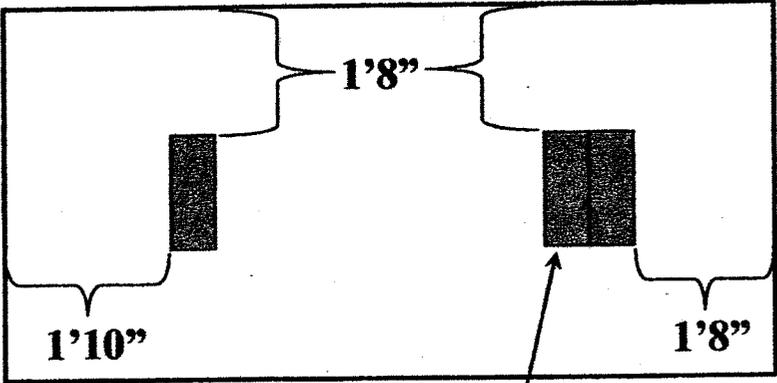
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**TOP LAYER**



**Use 6 Tabs of HARD VELCRO    Velcro Tabs Measure 4"x4"    Use Glue and 10-12 Staples Each**

**BOTTOM LAYER**



**Use 3 Tabs of SOFT VELCRO    Velcro Tabs Measure 4"x8"    Use Glue and 14-16 Staples Each**

## **REQUIRED SUPPLIES:**

SPRING FLOOR KIT FOR INTENDED PROJECT INCLUDING:

- ✓ SPRINGS: 4" PALMER COIL SPRINGS
- ✓ CAPS: TOP MOUNTING CAP (Solid Core Center)  
BOTTOM MOUNTING CAP (Hollow Core Center)
- ✓ HARDWARE: T-NUTS  
MACHINE SCREWS  
I/E LOCK WASHERS
- ✓ PLYWOOD: BOTTOM LAYER - 4'x 8'x 1/2" BCX PLYWOOD  
TOP LAYER - 4'x 8'x 1/2" BCX PLYWOOD
- ✓ VELCRO SUPPLIES (see Velcro Kit Instructions) OR DRYWALL  
SCREWS FOR OVER LAYMENT

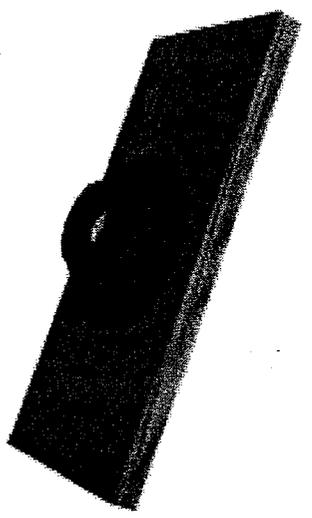
## **REQUIRED TOOLS:**

- ✓ CIRCULAR SAW OR TABLE SAW (for cutting plywood)
- ✓ WORK HORSES (for stacking plywood)
- ✓ POWER DRILL
  - 1/4" drill bit
  - Phillips head bit
- ✓ MEASURING INSTRUMENTS TO MARK BOARDS
  - chalk string
  - tape measure
  - pencil or marker
- ✓ HAMMER
- ✓ POWER CORD/S

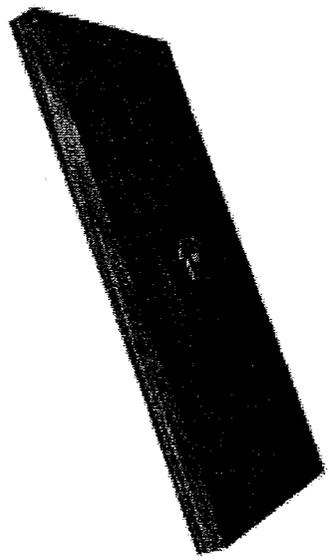
# Individual Spring Assembly

Each Assembly Consists of:

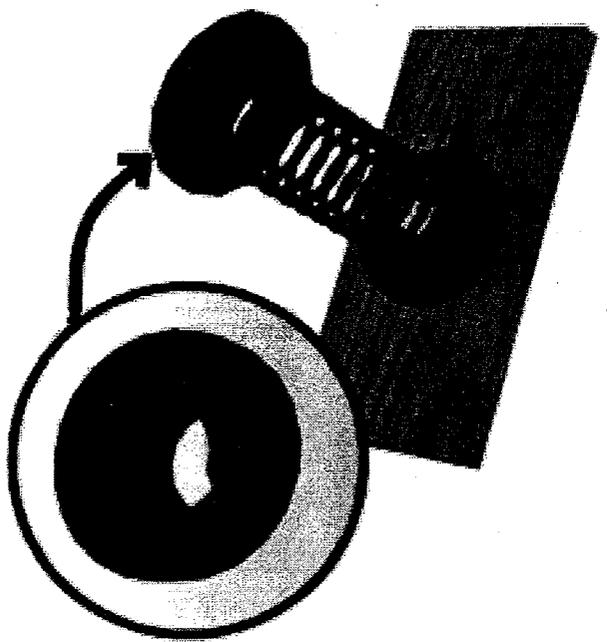
- (1) 4" Palmer Coil Spring
- (1) Top Mounting Cap
- (1) Bottom Mounting Cap
- (1) T-Nut
- (1) Machine Screw
- (1) I/E Lock Washer



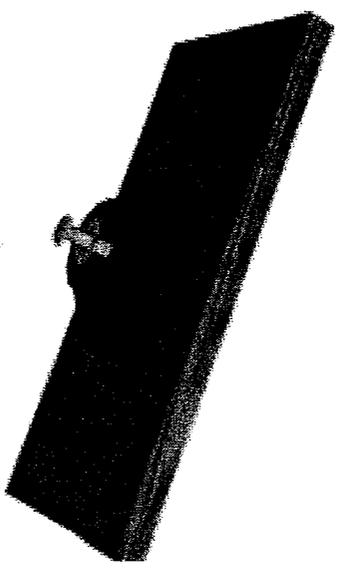
Top cap is now secure to plywood.



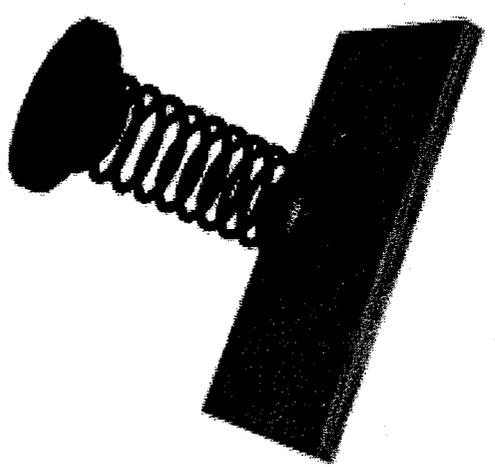
Hammer T-Nut into 1/4" hole in plywood.



"SNAP" Spring into top cap.  
"SNAP" bottom cap onto Spring.



Machine Screw goes through I/E Lock Washer, Top Cap, plywood, and secures into T-Nut.



Your Palmer Power Spring Assembly is complete and the board is ready for final positioning.

**PALMER POWER**  
**SPRINGS**



Palmer Power Springs  
2124 Mallard Lane  
Hanover Park, IL 60133

**42' x 42' TUMBLING FLOOR**  
1,935 Complete Spring Assemblies

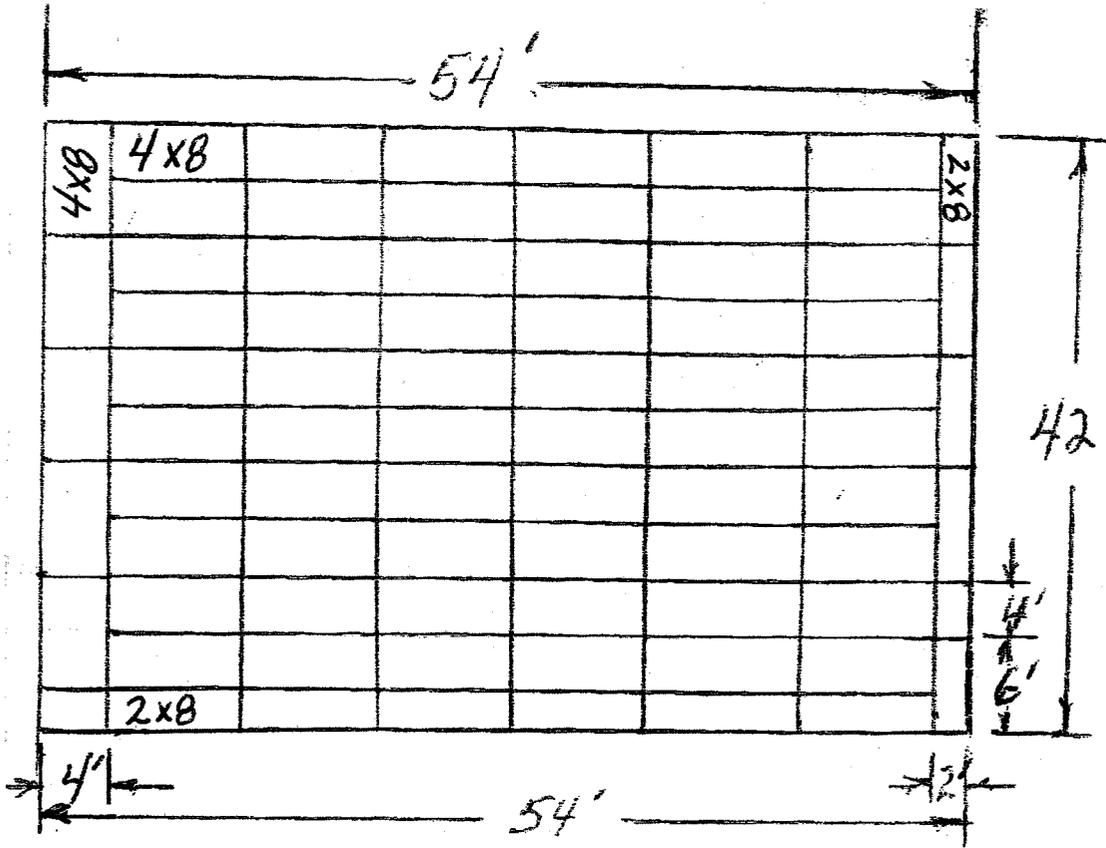
Bottom Layer  
(SPRINGS)

|       |       |  |  |  |       |       |
|-------|-------|--|--|--|-------|-------|
| 4'x8' | 4'x8' |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
|       |       |  |  |  |       |       |
| 2'x4' | 2'x8' |  |  |  | 4'x8' | 2'x8' |
|       |       |  |  |  | 2'x6' |       |

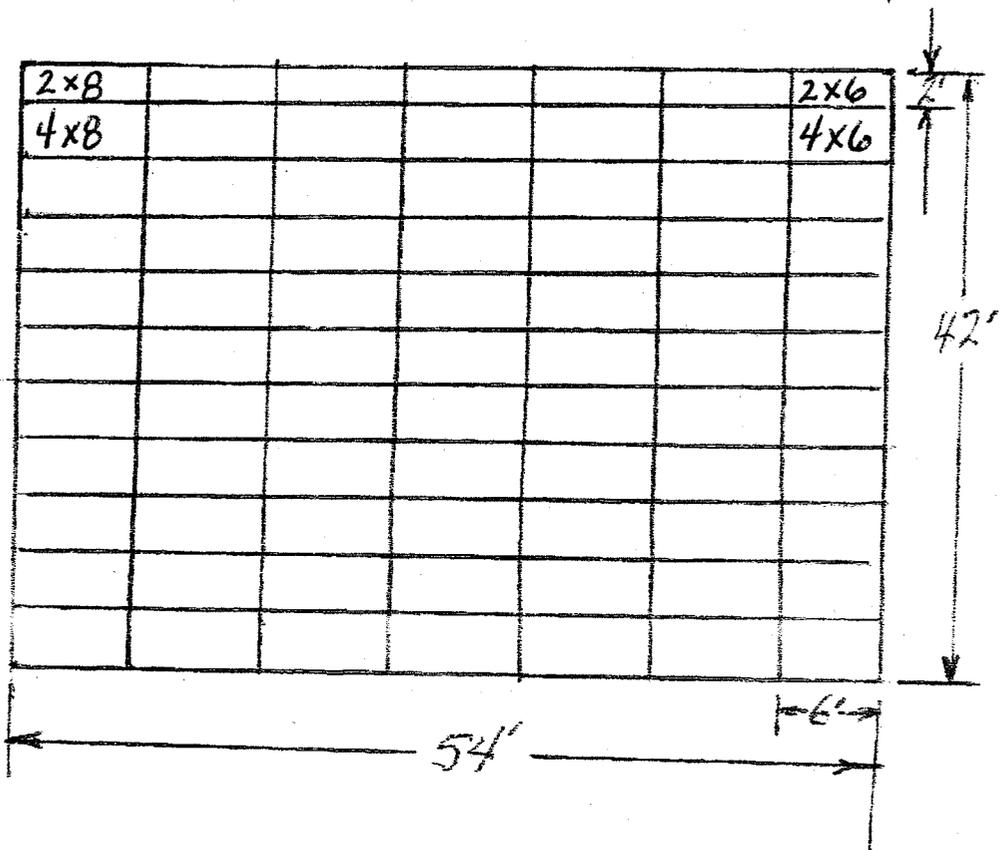
Top Layer  
(OVER-LAY)

|       |       |  |  |  |  |  |
|-------|-------|--|--|--|--|--|
| 2'x6' | 2'x8' |  |  |  |  |  |
|       | 4'x8' |  |  |  |  |  |
| 2'x8' |       |  |  |  |  |  |
|       |       |  |  |  |  |  |
|       |       |  |  |  |  |  |
|       |       |  |  |  |  |  |
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|       |       |  |  |  |  |  |
|       |       |  |  |  |  |  |
|       |       |  |  |  |  |  |
| 2'x4' |       |  |  |  |  |  |
|       |       |  |  |  |  |  |

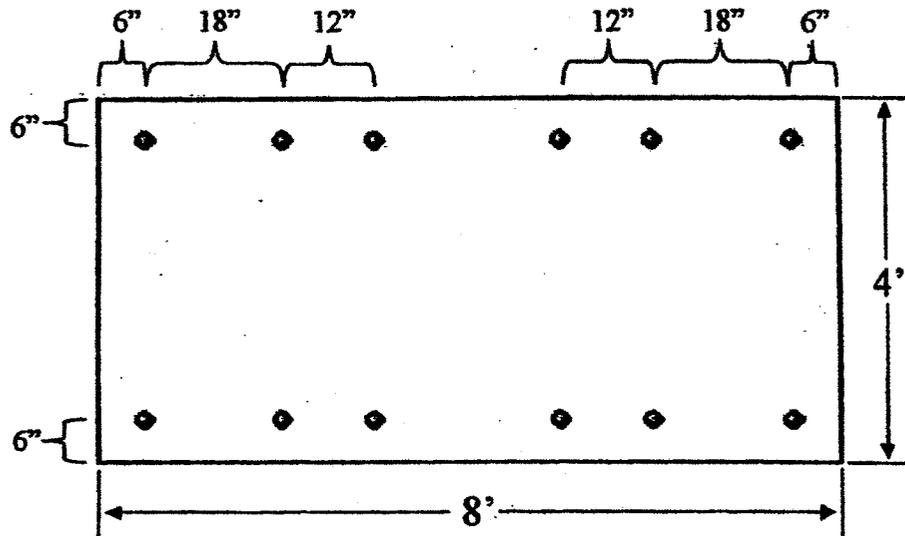
SPRINGS



OVER-LAY



## ATTACHING TOP LAYER



When attaching the TOP LAYER of Plywood to the Spring Floor, use COARSE THREAD Drywall Screws (6 x 1-1/4").

**\*Important!**

This diagram *suggests* the locations for the screws. This pattern keeps the drywall screws a reasonable distance away from the seams in the BOTTOM LAYER of Plywood.

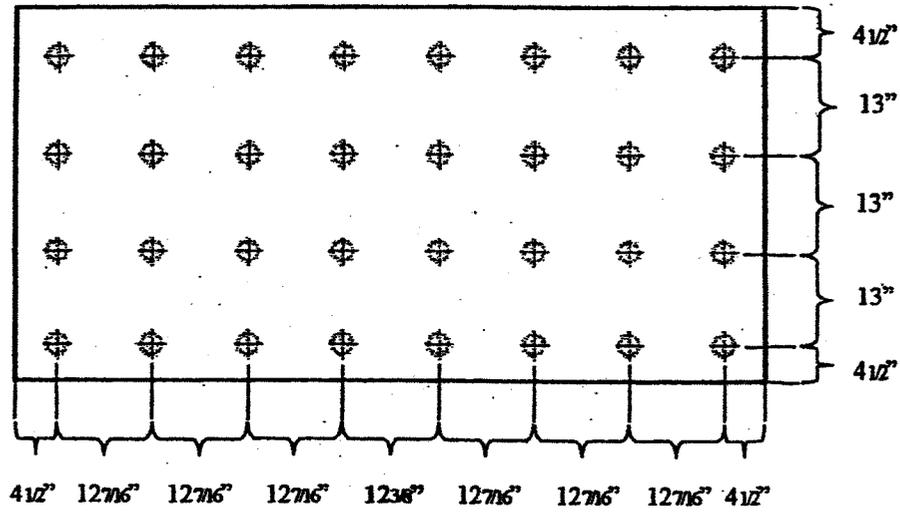
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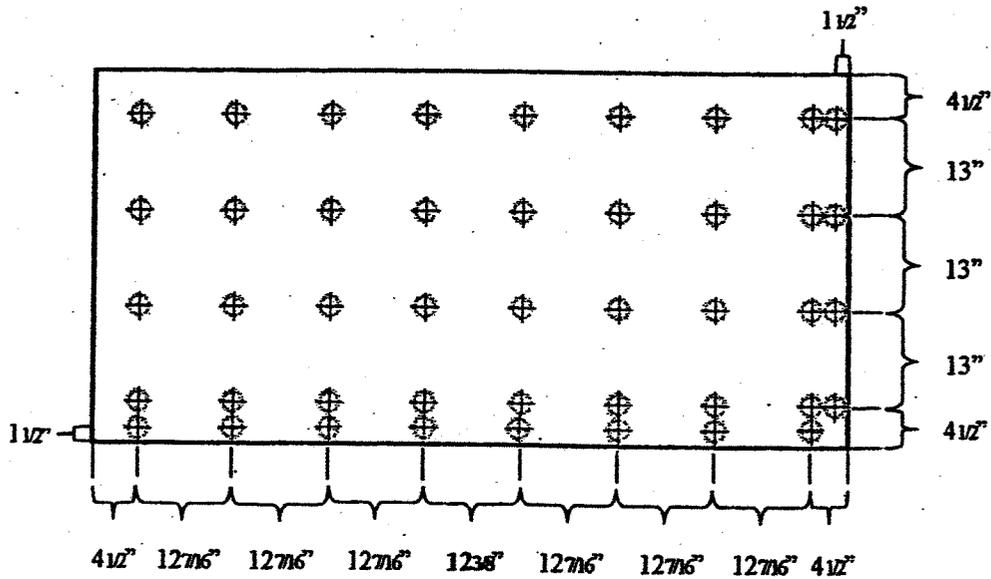
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## SPRING LOCATIONS

### INTERNAL BOARDS:



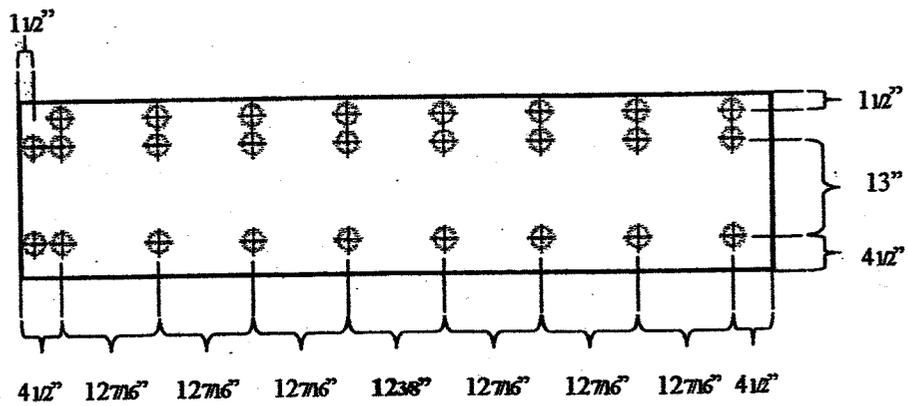
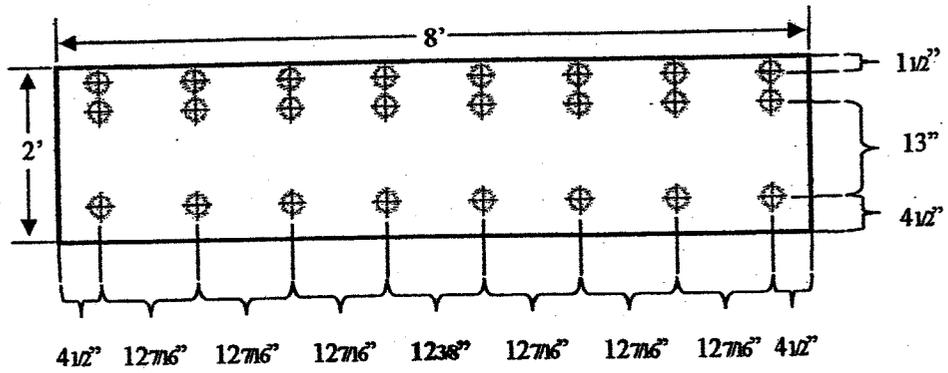
### EXTERNAL BOARDS:



➤ Install external row of springs, only where necessary.

On OUTSIDE Edge of Floor, Only.

EXTERNAL BORDER EXAMPLES:

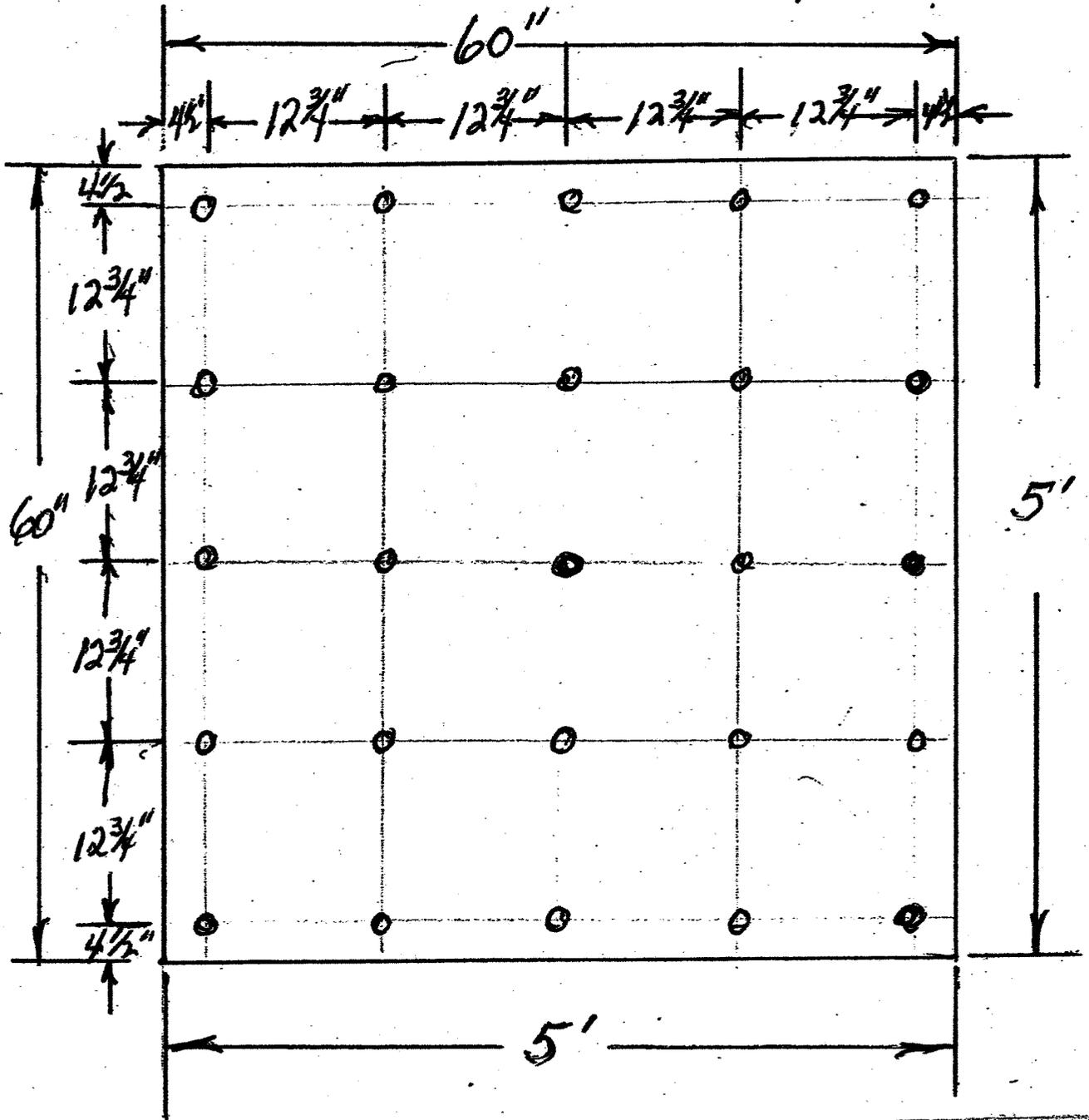


# PALMER POWER SPRINGS

SPRING LOCATIONS ON A 5' X 5' PANEL

EACH PANEL REQUIRES 25 SPRING ASSEMBLIES

Palmer Power Springs  
2124 Mallard Lane  
Hanover Park, IL 60133



CFW Flooring, Inc.

