

Materials Listing for IRWIN Marathon with WeldTec vs. Freud™ Diablo® Durability Demo:

- (1) 2" x 6" x 12' Pine Board
- (1) 2" x 4" x 8' Pine Board
- (1) IRWIN Tape Measure (or equivalent)
- (88) 2-3/8" 8d Nails
- (1) 9/64" IRWIN Drill Bit
- (1) IRWIN Strait-Line Chalk & Reel Combo
- (5) 4" Screws
- (1) Cordless Drill
- (2) Corded Circular Saws (1 is ok)
- (2) Rockwell Jaw Horses (or equivalent)
- (2) IRWIN Quick-Grip XP600 One Handed Bar Clamps
- (1) Freud Diablo 7-1/4" 24T Circular Saw Blade (#D0724R)
- (1) IRWIN Marathon with WeldTec 7-1/4" 24T Circular Saw Blade (#24035)
- (#) Safety Glasses for you and each audience member

Instructions:

1. First, lay the 2x6 on its side and stretch the measuring tape from end to end
2. Mark the board starting at 6" and then every 3", stopping 6" from the end of the board – there will be 44 total marks on the board
3. Chuck the IRWIN 9/64" drill bit so 1-3/4" of the bit is sticking out of the drill
4. Drill holes at all marks on the board – it is important to drill the entire 1-3/4" depth of the drill bit, repeat on opposite side of board
5. Attach 2" x 6" board atop 2" x 4" board in a "T" formation using the screws. A few clamps may help to hold the board in place while it is attached to the lower board. Be sure to center the lower board lengthwise and depth-wise.
6. Place nails into the board by hand until they hit the back of the pre-drilled hole – do not press too hard, nail should be able to vibrate slightly in the wood
7. Snap a chalk line along the length of the board 1" from the edge (Repeat steps 6 & 7 on the opposite side of the 2" x 6" board)
8. Insert board into the two Rockwell Jaws – depending on the depth of the jaw, a 2" riser may be needed to hold the upper board high enough so the saw blade won't hit it during the cut.

*Safety Warning: Be sure the demonstration area is safe and that spectators are at a safe distance away. You and all spectators should wear safety glasses (teeth and nails will fly so extra precaution is advised)*

9. Make a cut with the Freud blade – it will likely make it through 12-16 nails

*Safety Warning: After each cut, immediately disconnect power from Circular Saw*

10. Rotate the board in the jaws and make a cut with the WeldTec blade – it will likely make it through the entire board

*Safety Warning: After each cut, immediately disconnect power from Circular Saw*

11. If the WeldTec blade is still cutting well, finish the remainder of the Freud side

*Safety Warning: After each cut, immediately disconnect power from Circular Saw*

