

Outdoor Ice Rink Systems



Liners • Installs • Brackets • Custom Rinks



Read This Before You Start

- 1) Hardware:** The screws provided are for 2" x 12" lumber, ¾ plywood or Iron Sleek Poly-Steel boards. To avoid puncturing the liner, verify that the screws do not fully penetrate your side boards.
- 2) Corner Bracing:** Rinks without strong steel corner braces are more likely to fail. We strongly recommend using the Iron Sleek™ Corner Brackets. See Illustration (D) below. For better aesthetics and hockey play, consider using Iron Sleek Corner Rounds instead.
- 3) Overload on Iron Sleek™:** The Iron Sleek™ bracket is designed to hold 14 inches of water with 4 foot spacing on firm soil. If your rink requirements exceeds this, you will need additional components to support your rink frame. See chart (1). The Iron Sleek™ Rink System can handle most rink configurations. Please consult the website (www.ironstleek.com) or give us a call for additional guidance. For highly pitched sites, Iron Sleek Outriggers may be required.
- 4) Avoid Rink Water Spill Over:** You need relatively firm ground for the Iron Sleek bracket to work properly. **DO NOT LET YOUR RINK WATER SPILL OVER!** It will soften the dirt and potentially result in an inferior installation.

Suggested Layout for the Iron Sleek™ Rink System

Bracket Spacing: Brackets need to be spaced properly to support the water depth. In shallow areas, spacing can be as much as 8' with 2" x 12" lumber. With plywood boards, 4' should be the maximum spacing. As the rink gets deeper, spacing will need to get closer. See Chart (1). At the deepest point of the rink, spacing will need to be the closest. Always err on the side of caution. If in doubt, reduce bracket spacing, as this will give the strongest support.

Mid-Board Installation: Position boards around the Iron Sleeks™. Insert 2 screws through the Iron Sleek™ Bracket into the center holes. See Illustration (B).

Seam Installation: It is required to install an Iron Sleek™ Bracket where any 2 boards join. Use a minimum of 4 screws (2 on each side). See Illustration (C). **DO NOT** leave board seams without support.

Corner Installation: Join the corner boards with the Iron Sleek™ Corner Brackets or Iron Sleek Corner Round brackets. Use the recommended number of brackets listed in Chart (1). Use the screws provided when using 2" x 12" lumber. See Illustration (D).

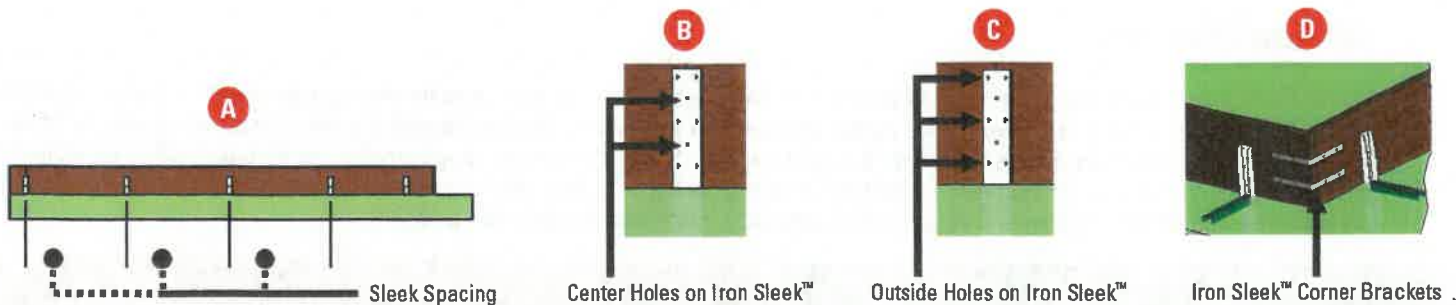
Soft Soil and High Water Level Installation: The black portion of the Iron Sleek™ Bracket is equipped with ¾" ground stake holes. If your rink location has soft soil or your rink water level is above 12", it is recommended to insert our ½" by 1 foot Epoxy Coated Ground Stake into the hole closest to the board. We can also supply you with Iron Sleek Outrigger brackets for highly pitched sites and for taller side boards.

Chart 1

This chart assumes use of 2" x 12" lumber. Spacing for all depths below 14" should be 4' when using plywood.

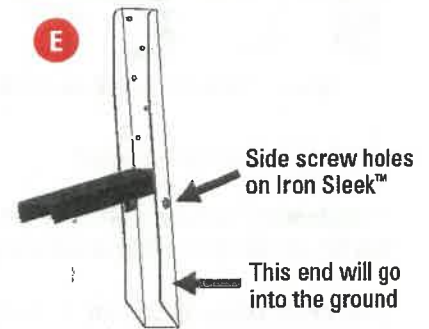
Water Depth	Sleek Spacing	Ground Stake	Corner Brackets
<8"	8'	No	1
8" - 10"	6'	No	2
10" - 12"	4'	No	2
12" - 14"	4'	Yes	2
14" - 16"	3'	Yes	2
16" - 18"	2'	Yes	2

Illustrations



Assembly of the Iron Sleek™ Bracket

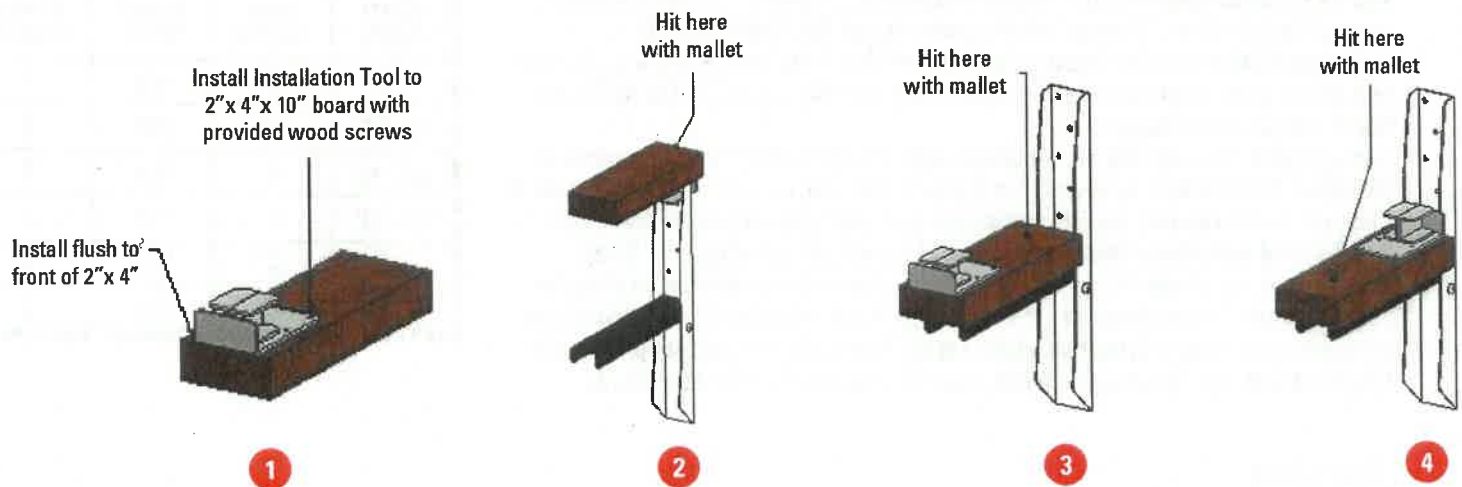
- 1) Position the brackets as shown in illustration (E). The smooth, flat part of the black bracket should be face up. The wider, angled part of the white bracket should be on the bottom.
- 2) Align the screw holes on the black bracket with the side screw holes of the white bracket.
- 3) Twist in each screw and tighten. DO NOT OVER TIGHTEN. Black bracket should fold down easily for storage.



Ground Installation of the Iron Sleek™ Bracket

It is recommended that you watch the **You Tube** video at <http://www.youtube.com/user/Ironsleek>.

- 1) Mount the Iron Sleek™ Installation Tool to a 2" x 4" that is at least 10 inches long. Keep the front of the installation tool flush to the end of the board. See Illustration (1).
- 2) Draw a straight line along the staged boards. This will serve as a guide for a straight bracket installation. This is very important!
- 3) By hand, wiggle and push the bracket into the ground, along the board line, until it is self-supported. Then, place the Iron Sleek™ Installation Tool on top of the Iron Sleek™ and hammer down directly above the bracket until the black part of the bracket is firm into the ground. See Illustration (2). For best results, use a 3 lb. mini sledge, a dead blow hammer or a mallet. Also, for bigger rinks with many sleeves, we recommend fastening a steel mending plate to the 2 by 4 to keep it from splitting. See Illustration (2). **DO NOT USE A SLEDGEHAMMER!**
- 4) Position the Iron Sleek™ Installation Tool as shown in Illustration (3) and hit as indicated until the black channel is flush with the dirt and beneath the grass.
- 5) Position the Iron Sleek™ Installation Tool as shown in Illustration (4) and hit as indicated.



Additional Precautions

Do not use boards that are over 24 inches tall without Iron Sleek outriggers. The Iron Sleek brackets are intended for use on rinks that are relatively level. For rinks that have over 14 inches of water, you will need to adapt additional support structures – ½ inch by 1 foot ground stakes and outriggers for example. Even though it is made of steel, the bracket is optimized to comfortably hold rinks at the spacing indicated in Chart (1). We do not recommend holding up tall boards because impact with leverage can be destructive to the bracket. These are water/ice containment brackets. They are not designed to sustain load at high leverage points.



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