

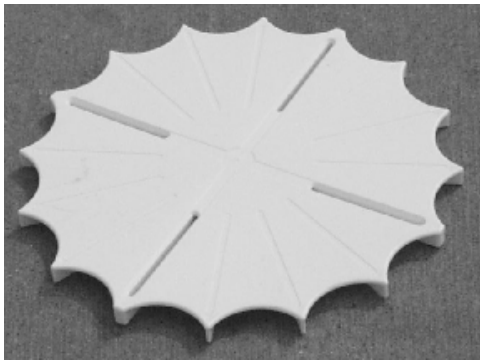
Anti-Entrapment Drain Covers

Anti-Entrapment drain covers can be purchased at local pool supply companies and at online stores.

The Star 100 and Anti-Hair Snare Plus covers both meet the current ASME/ANSI A112.19.8 performance requirements for preventing entrapment and also improved standard requirements under discussion and revision within the aquatic safety community.

The two covers work in different ways to prevent the suction of the drain from causing body/limb entrapment, disembowelment, or hair entanglement. Below is more detailed information about how each of these covers work.

Star 100



General suction design

- Water flows underneath the cover through the scalloped edges, so the strongest suction is not pulling straight downward.

Preventing body/limb entrapment and disembowelment

- The design, with a 13-inch diameter and scalloping along the edges, prevents the suction from making a complete seal holding a person's body against the drain.

Preventing hair entanglement

- The water flow through the rectangular holes in the drain cover is not strong enough to trap hair in or below the drain cover. (The flow through the rectangular holes is less than 1.2 feet per second if the pump flow rate is 80 gallons per minute; the existing maximum flow rate in the ASME/ANSI A112.19.8 standard is 1.5 feet per second.)

The Star 100 is made with a **UV inhibitor** to keep the cover from breaking down as a result of exposure to sunlight. This prevents any plastic material from leaching into the water and also helps the cover last longer. (If a cover is broken, there is a higher risk of entrapment as the suction force is greater.) If a drain cover is broken, stop the pump and close the pool or spa until it is replaced. Never operate any pool or spa if the drain cover is broken or missing.

The Star 100 cover is not recommended for use on a spa or hot tub, as larger pumps with higher flow rates are generally used in spas and hot tubs. The Star 100 utilizes a low flow rate to qualify as an anti-entrapment cover. It is certified at 80 gallons per minute maximum.

The Star 100 drain cover is manufactured by World Wide Sports, L.L.C.

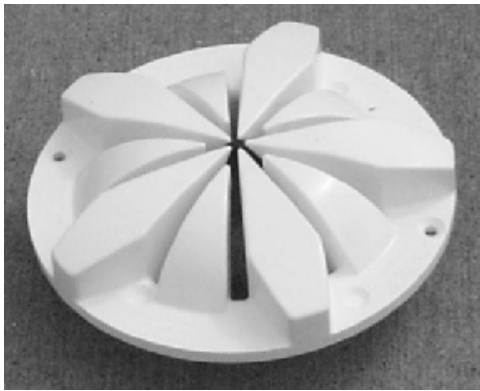
Anti-Entrapment Drain Covers

Anti-Entrapment drain covers can be purchased at local pool supply companies and at online stores.

The Star 100 and Anti-Hair Snare Plus covers both meet the current ASME/ANSI A112.19.8 performance requirements for preventing entrapment and also improved standard requirements under discussion and revision within the aquatic safety community.

The two covers work in different ways to prevent the suction of the drain from causing body/limb entrapment, disembowelment, or hair entanglement. Below is more detailed information about how each of these covers work.

Anti-Hair Snare Plus



Preventing body/limb entrapment and disembowelment

- The top of the drain cover has a dome shape with wedges at different heights. This prevents the suction from making a complete seal holding a person's body against the drain.

Preventing hair entanglement

- The shape of the wedges on the top of the cover prevents hair from getting caught—the hair naturally flows to the center of the cover and can be pulled out easily. The geometry of the design precludes hair entanglement. It is certified at 109 gallons per minute.

The Anti-Hair Snare Plus is made with a **UV inhibitor** to keep the cover from breaking down as a result of exposure to sunlight. This prevents any plastic material from leaching into the water and also helps the cover last longer. The cover is also very strong; a truck can drive over it without breaking it. (If a cover is broken, there is a higher risk of entrapment as the suction force is greater.) If a drain cover is broken, stop the pump and close the pool or spa until it is replaced. Never operate any pool or spa if the drain cover is broken or missing.

The Anti-Hair Snare Plus cover can only be used in the HORIZONTAL position for the anti-entanglement feature to work correctly. This cover should not be used if the drain is positioned vertically.

The Anti-Hair Snare Plus drain cover is manufactured by Triodyne Safety Systems, L.L.C.