

Cylindrical Floats

For Breakwaters, Barriers & Booms

Breathe new life into tire breakwaters with cylindrical floats from Premier. Build low maintenance barriers and booms. Replace old raw foam flotation with encapsulated floats that are recyclable and environmentally-safe.

The breakwater floats have a one-piece LLDPE shell that is filled with EPS foam to provide support buoyancy for tires and barrier frames. The EPS fill is done under steam to ensure a void-free watertight fill. The shell wall thickness is 0.150 inches (nominal) for durability and long-life. The float buoyancy rating is 340 lbs.

Floats meet all Marine Industry Standards for Encapsulated Flotation.



Floats being installed inside tire



Floats installed, tire breakwater ready to be floated

Marina Builds Tire Breakwater on Lake Mead

Breakwaters or wave attenuators are designed to mitigate wave action. And one marina on Lake Mead in Nevada has one of the more unusual designs; it's made of tires and is supported by encapsulated, cylindrical floats.

It's a 4-wide tire design—the center has two rows of horizontal tires, and the outer tire rows are arranged vertically. Before being assembled, the 5-1/2' to 7-1/2' tires were spread open with the aid of a crane, and the 24" diameter floats were inserted. Larger tires required three floats for vertical rows and six for horizontal rows. Smaller tires had two for vertical and four for horizontal. The breakwater is 390' long and utilizes 228 tires that are secured with 20' lengths of 5/8" chain and 1/2" shackles.

Breakwater Float Specifications

Model/Size	Buoyancy (fully submerged)
PMT274-024 23" x 24" Cylindrical (58.42cm x 60.96cm)	340 lbs/154.2 kg
1. EPS foam filled under steam to fill all voids 2. 0.150 nominal wall thickness	

