

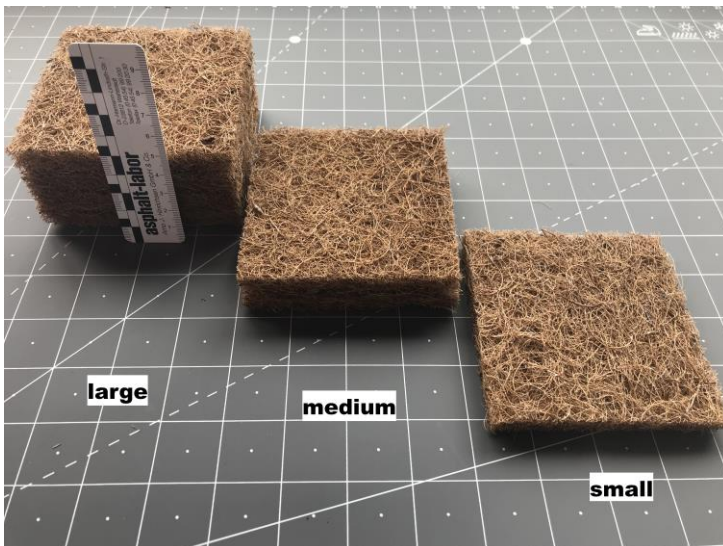


VITROVEX® Protective shells

Protective shells for VITROVEX® spherical glass housings are available for impact protection, stowing and ease of handling. They are made of LDPE (low-density polyethylene) in bright orange colour and are neutrally buoyant. Protective shells are offered in smooth or ribbed design.

Part number	Previous part numbers	Description
PHS-PE-17S	PS-S-17, 790251, SR 432	17", smooth orange
PHS-PE-17RO	PS-RO-17, 790250, H432	17", ribbed orange
PHS-PE-13RO	PS-RO-13, 790270, SR330	13" ribbed orange
PHS-ABS-10RO	PS-RO-10, NMS-OPT10-o	10" ribbed red
PHS-ABS-10RT	PS-RT-10, NMS-OPT10-t	10" ribbed transparent

Each protective shell consists of two flanged halves secured by stainless steel bolts with washers and self-locking nuts. Synthetic fiber pads between the glass sphere and the shell absorb shock and retain the sphere in its position.



All fiber pads are square shaped (100mmx100mm), only the height is different.



Large: 50mm (P/N PAD-100-50)



Medium: 25mm (P/N PAD-100-25)

Small: 12.5mm (P/N PAD-100-12)

The number of synthetic fiber pads varies with the sphere model as follow:



<p>17" spheres with smoothed hard hats: (2x medium)</p>	<p>17" spheres with ribbed hard hats: (1x medium, 5x large)</p>
	
<ul style="list-style-type: none"> • 1 medium at the bottom • 1 medium at the top 	<ul style="list-style-type: none"> • 1 large and 1 medium at the bottom • 3 large around equator • 1 large at the top <p>Note: Fiber pads shall be placed next to the recess of the hard hat and NOT inside (marked with a blue arrow in the figure beside)</p>

<p>13" spheres with ribbed hard hats: (4x small, 1x medium)</p>	<p>10" spheres with ribbed hard hats: (2x small, 3x medium)</p>
	
<ul style="list-style-type: none"> • 1 medium at the bottom • 3 small around equator • 1 small at the top 	<ul style="list-style-type: none"> • 1 small at the bottom • 3 medium around equator • 1 small at the top



Additional mounting hardware such as Eddygrip/Eddyrope swivelling sphere attachment sets is available to support field installations.

Protective shells of ribbed design are often used in moorings or application with a large likelihood for impact whereas smooth protective shells usually used when spheres are mounted directly on underwater equipment such as landers or when the protective shell needs to be modified in order to accommodate (oversized) connectors, transducers, etc. or to provide view holes for cameras, lights etc. respectively. There is no difference in terms of hydrodynamics or net buoyancy between ribbed and smooth protective shells.

Technical drawings for protective shells are available in different formats. Please check the download section on our homepage.