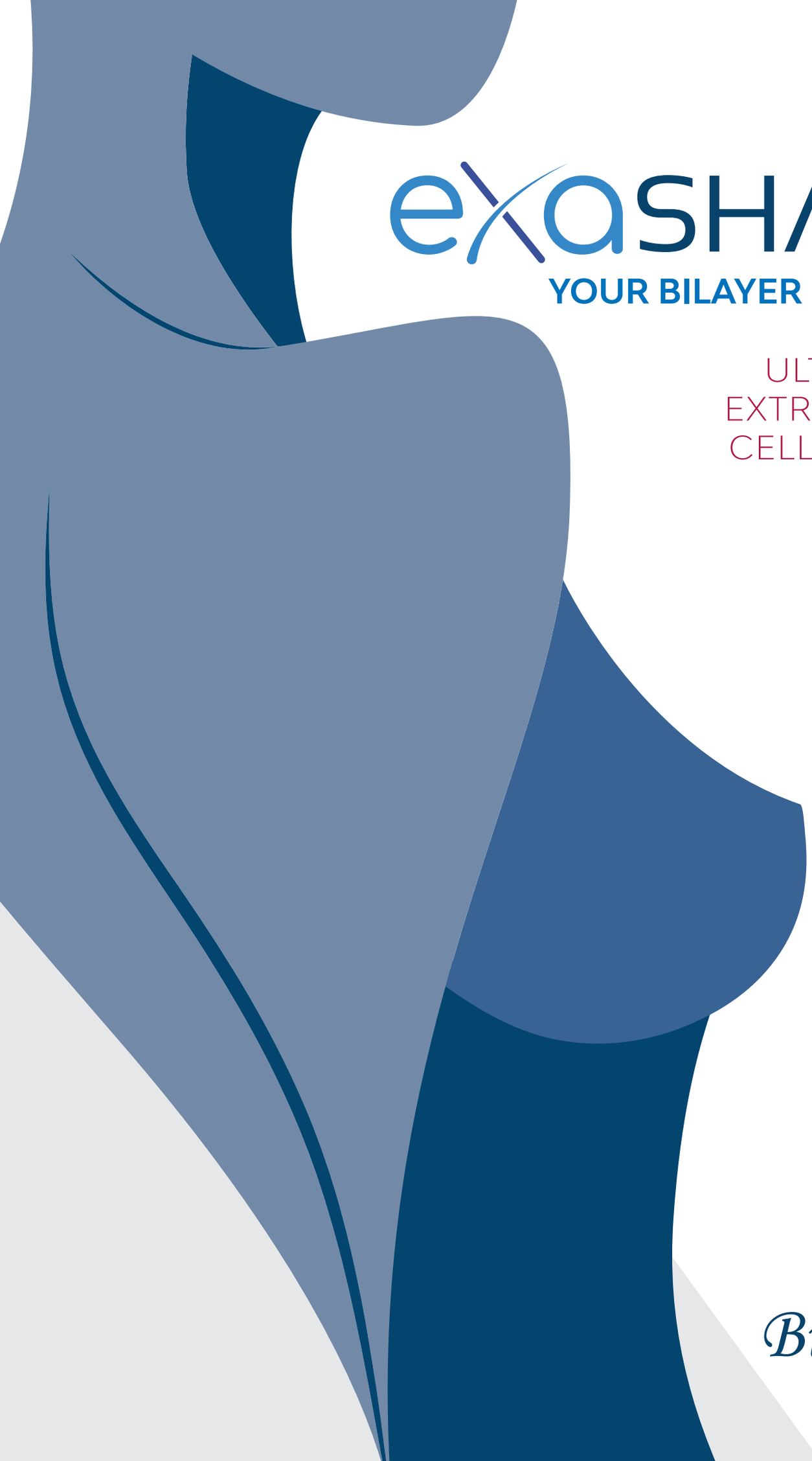


exaSHAPE

YOUR BILAYER SOLUTION

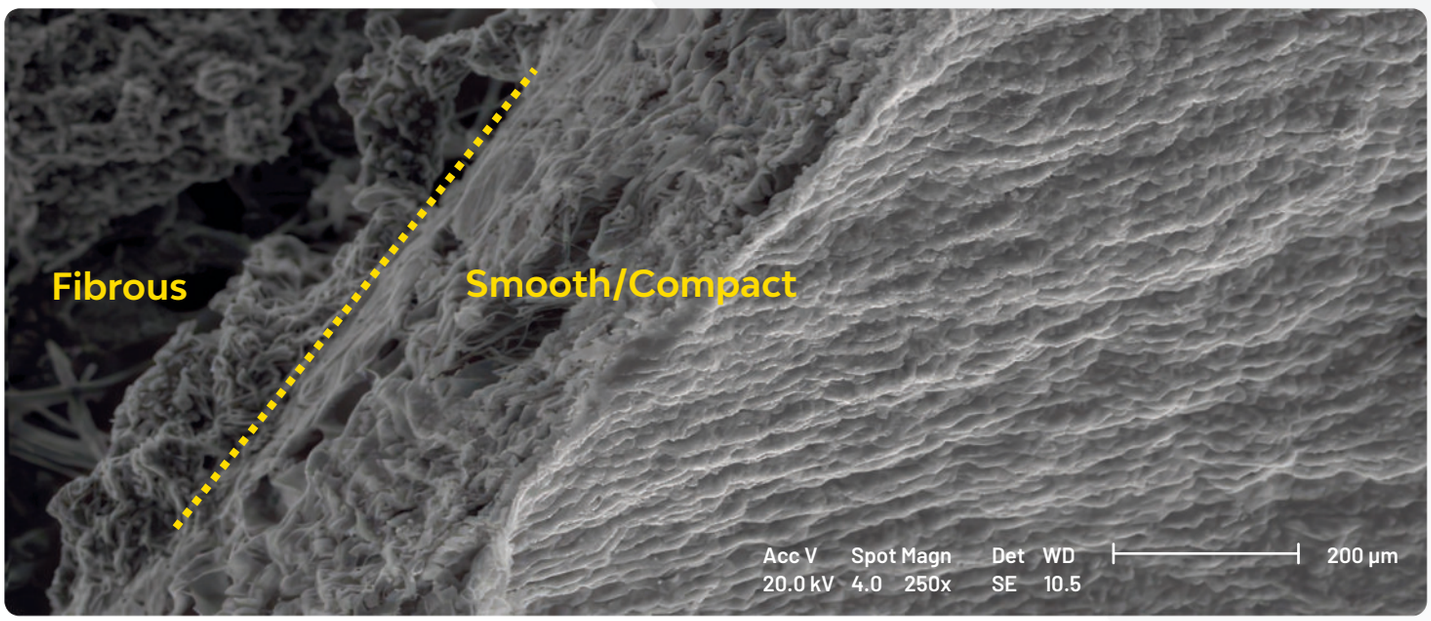
ULTRA LIGHT
EXTRA PLIABLE
CELL FRIENDLY

BioRipar®

BOVINE PERICARDIUM COLLAGEN MEMBRANE

Exashape is a membrane obtained by processing pericardium from cattle that are younger than 24 months. During their growth they are selected and controlled at all stages.
Bovine pericardium is widely used as a bioprosthetic extracellular matrix tissue.
The efficacy of this membrane as a scaffold is due to the quality of the decellularisation (cell-friendly) protocol, which provides not only the inactivation of pathogens, but also the complete destruction of cells, fats and non collagenous proteins, allowing the three-dimensional structure of the collagen and its mechanical properties to be maintained.[1]

These specifications are important for the success of the surgical repair process, as they are able to efficiently and quickly reproduce the biological properties of autologous tissue, controlling inflammation and promoting cell proliferation and migration[2].
Furthermore, the reduced amount of implanted biological mass (at least 50% less than a dermis membrane) makes integration possible even in the event of poor blood supply, while still maintaining the highest biomechanical performances[1-4].



BILAYER BY NATURE

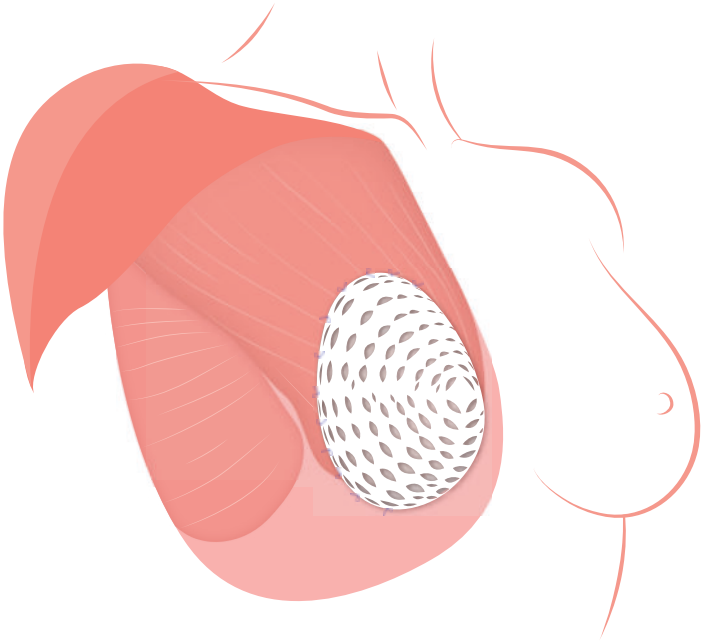
Designed for use in Plastic and Reconstructive Surgery and Breast Surgery, Exashape membrane consists of two layers:
Fibrous layer, highly porous, allows cytokines and growth factors to trigger the process of immediate revitalisation of endogenous connective tissue and early neoangiogenesis[2] with high neoformation of vessels[2, 3].
Smooth/Compact layer, provides structural support, reactivating fibroblasts and VEGF[2] which enable the reparative process with formation of new tissue and blood vessels.

BIOSHIELD POCKET

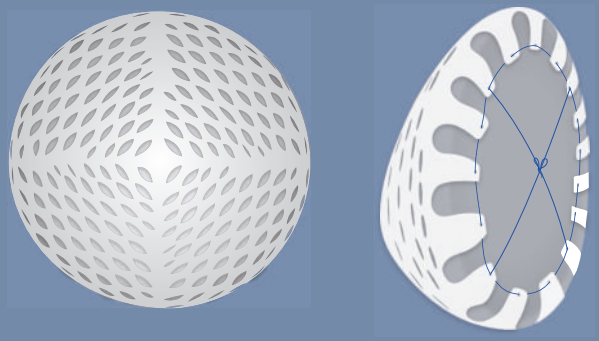
Bioshield Pocket

exaSHAPE

Bioshield Pocket® (patented) aims to streamline surgical procedure as the rehydrated membrane allows for quick wrapping of the implant without the need for complex tailoring procedures, reducing intra-operative delays, lowering risks of implant damage and potential contamination.
After running the threads through the "petal" holes, the mesh is rehydrated in the sterile tray, with the smooth side facing the operator. Subsequently, the anterior surface of the implant is positioned on the membrane within a few seconds. The 'petals' are tightened to the implant's posterior side creating a "purse string" assembly.
Due to the meshed pattern and rough external surface, Bioshield Pocket® offers a secure grip on the chest wall ensuring that the implant remains in place during and after surgery.
The high drapability allows the membrane to follow the silicone implant shape with no “dead spaces” or wrinkles.



- Rehydrate the Exashape membrane in sterile saline solution.
- The fibrous side must be placed in contact with the skin flap.
- The smooth/compact side must be placed in contact with the implant and is marked with 'P'.

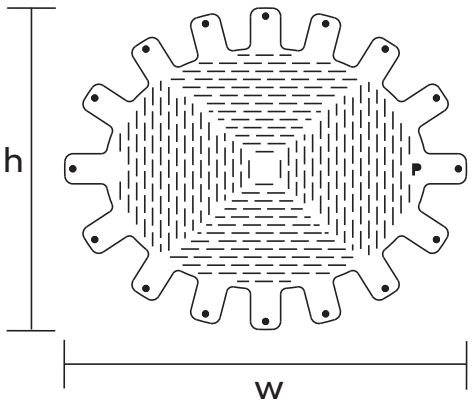


Bioripar® - Bioshield Pocket®

REF	*DESCRIPTION*	*SIZE (w x h x th)*
AEPB(F)144-188S	Pocket small	18 x 14 cm x 0,5 mm
AEPB(F)164-208S	Pocket medium	20 x 16 cm x 0,5 mm
AEPB(F)184-228S	Pocket large	22 x 18 cm x 0,5 mm
AEPB(F)204-238S	Pocket extra large	23 x 20 cm x 0,5 mm

Bioshield Pocket® is also available in a **KIT version**, including 2 resorbable monofilament PGCL sutures for the preparation of the “purse string” assembly.

REF	*DESCRIPTION*	*SIZE (w x h x th)*
POCKET S 4.0	KIT Pocket small	18 x 14 cm x 0,5 mm
POCKET M 4.0	KIT Pocket medium	20 x 16 cm x 0,5 mm
POCKET L 4.0	KIT Pocket large	22 x 18 cm x 0,5 mm
POCKET XL 4.0	KIT Pocket extra large	23 x 20 cm x 0,5 mm



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More than surgery

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PREPEC

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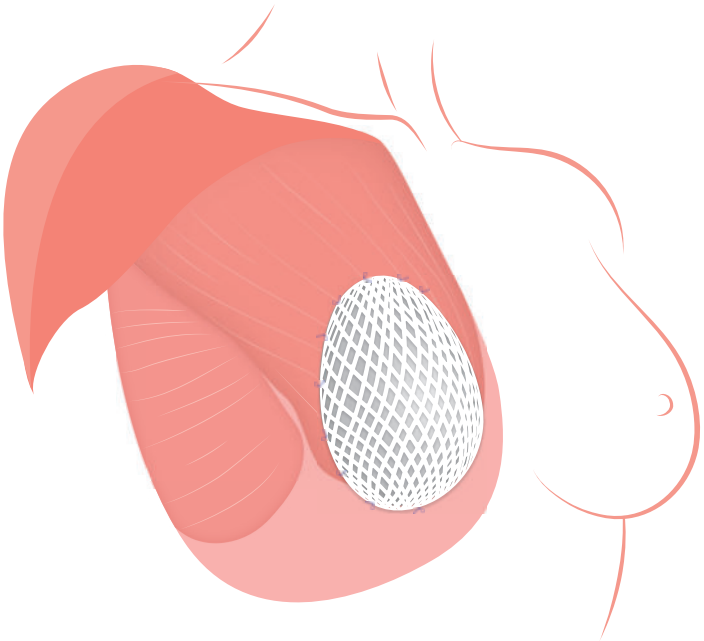
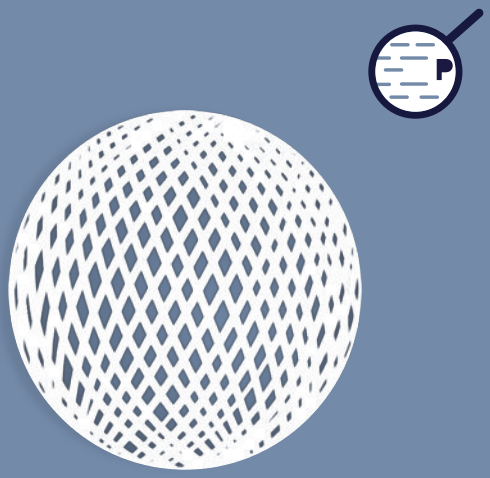
Exashape Prepec is a rectangular meshed membrane. Thanks to its expansion *ratio*, after rapid rehydration it is able to cover implants of all shapes and sizes, with minimum handling and maximum stretchability/drapability.

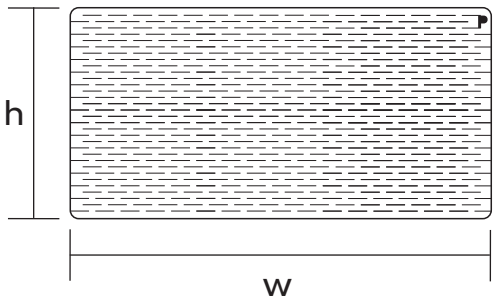


- Rehydrate the Exashape membrane in sterile saline solution.
- The fibrous side must be placed in contact with the skin flap.
- The smooth/compact side must be placed in contact with the implant and is marked with 'P'.



Bioripar® - Exashape PREPEC

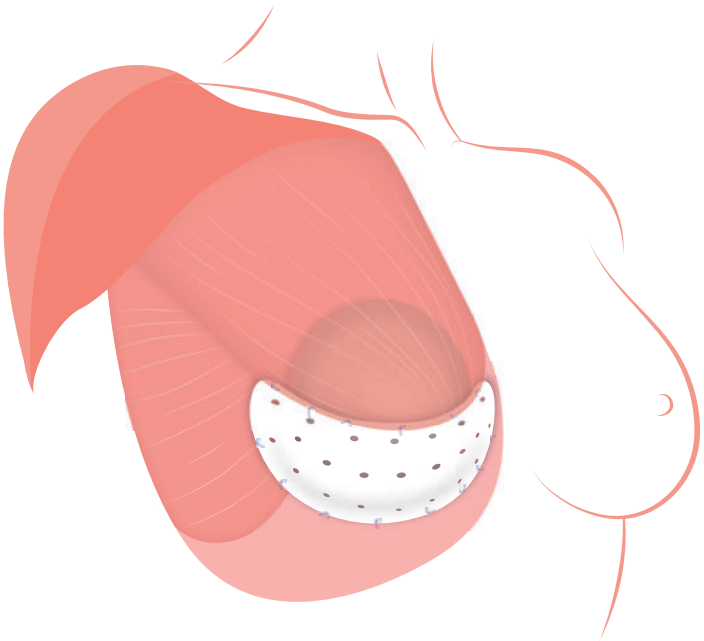
REF	*DESCRIPTION*	*SIZE (w x h x th)*
AEPB(F)058-100S	Rectangular, meshed	10 x 5 cm x 0,5 mm
AEPB(F)058-200S	Rectangular, meshed	20 x 5 cm x 0,5 mm
AEPB(F)108-150S	Rectangular, meshed	15 x 10 cm x 0,5 mm
AEPB(F)108-200S	Rectangular, meshed	20 x 10 cm x 0,5 mm
AEPB(F)158-150S	Squared, meshed	15 x 15 cm x 0,5 mm
AEPB(F)158-200S	Rectangular, meshed	20 x 15 cm x 0,5 mm



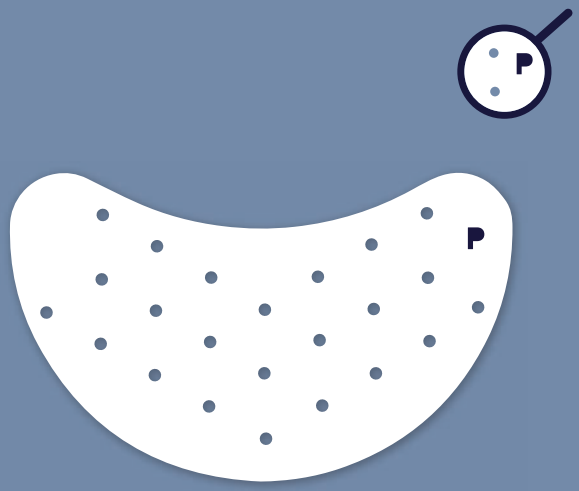
GRID

exaSHAPE

Exashape Grid comes in 2 designs, semi-lunar and rectangular, fenestrated with circular holes to optimize fluid drainage capacity. The membrane rehydrates quickly and is immediately available for use. The range of sizes allows its immediate use in most patients.

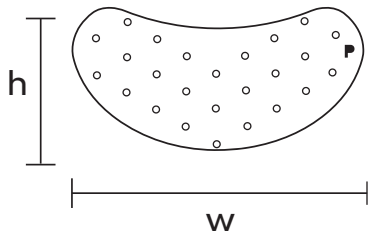


- Rehydrate the Exashape membrane in sterile saline solution.
- The fibrous side must be placed in contact with the skin flap.
- The smooth/compact side must be placed in contact with the implant and is marked with 'P'.

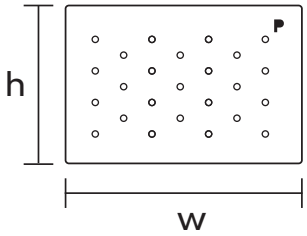


Bioripar® - Exashape GRID

REF	*DESCRIPTION*	*SIZE (w x h x th)*
AEPB(F)084-162S	Half-moon, perforated	16 x 8 cm x 0,5 mm
AEPB(F)074-172S	Half-moon, perforated	17 x 7 cm x 0,5 mm
AEPB(F)104-202S	Half-moon, perforated	20 x 10 cm x 0,5 mm



REF	*DESCRIPTION*	*SIZE (w x h x th)*
AEPB(F)104-150S	Rectangular, perforated	15x 10 cm x 0,5 mm
AEPB(F)104-200S	Rectangular, perforated	20x 10 cm x 0,5 mm



EXPANDER

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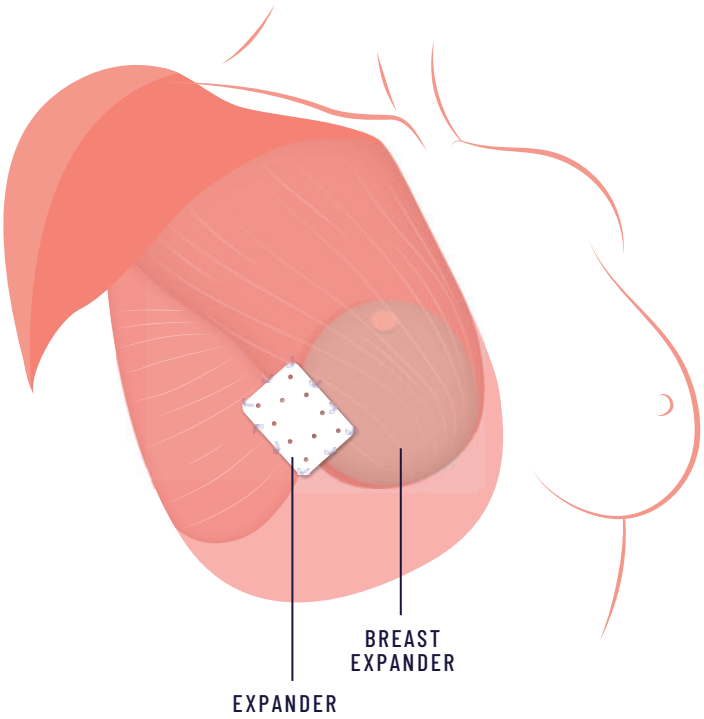
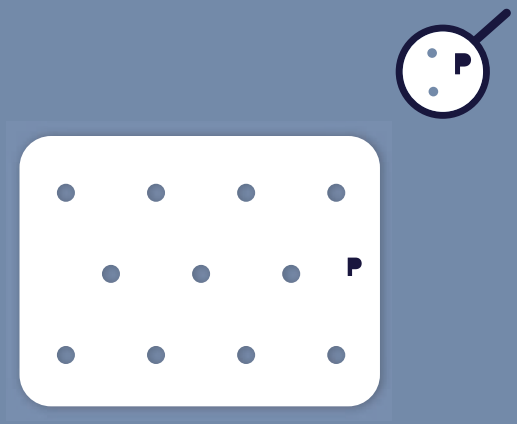
Exashape Expander is used in combination with a breast expander in breast reconstruction procedures as a means of pocket closure. It is 'circular-hole' fenestrated to optimize drainage capacity of fluids.

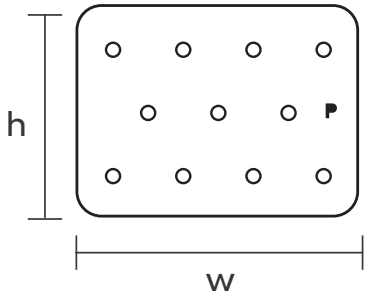


- Rehydrate the Exashape membrane in sterile saline solution.
- The fibrous side must be placed in contact with the skin flap.
- The smooth/compact side must be placed in contact with the implant and is marked with 'P'.



Bioripar® - Exashape EXPANDER

REF	DESCRIPTION	SIZE (*w x h x th*)
AEPB(F)064-080S	Rectangular, perforated	8 x 6 cm x 0,5 mm



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BIOSHIELD PRo

Bioshield Pocket PRo

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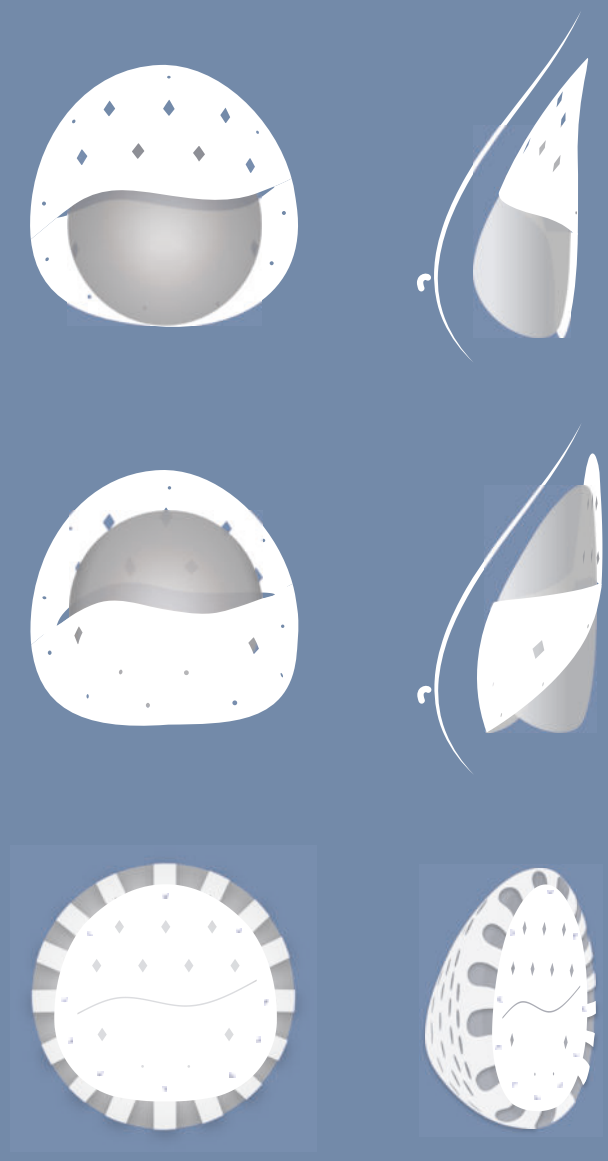
Bioshield PRo allows different usage options, such as selective coverage of the upper or lower quadrants of a silicone breast implant.
In addition, it can be used for wrapping a breast implant in combination with the Bioshield Pocket® membrane to achieve greater coverage, increasing containment capacity, and allowing the coverage of larger implants.

- Rehydrate the Exashape membrane in sterile saline solution.



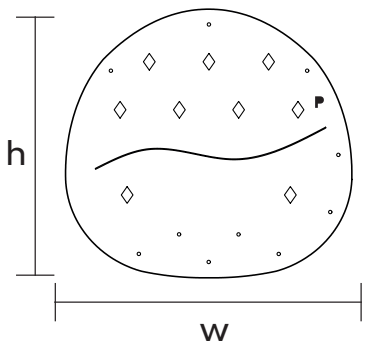
PROTECTION OF UPPER QUADRANTS

PROTECTION OF LOWER QUADRANTS

BIOSHIELD PRo IN CONJUNCTION WITH BIOSHIELD POCKET

Bioripar® - Bioshield PRo

REF	DESCRIPTION	SIZE (*w x h x th*)
AEPB(F)080-099S	BIOSHIELD PRo	8 X 9 cm x 0,5 mm
AEPB(F)100-119S	BIOSHIELD PRo	10 x 11 cm x 0,5 mm
AEPB(F)120-139S	BIOSHIELD PRo	12 x 13 cm x 0,5 mm
AEPB(F)140-159S	BIOSHIELD PRo	14 x 15 cm x 0,5 mm
AEPB(F)160-179S	BIOSHIELD PRo	16 x 17 cm x 0,5 mm



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EXASHAPE NAC

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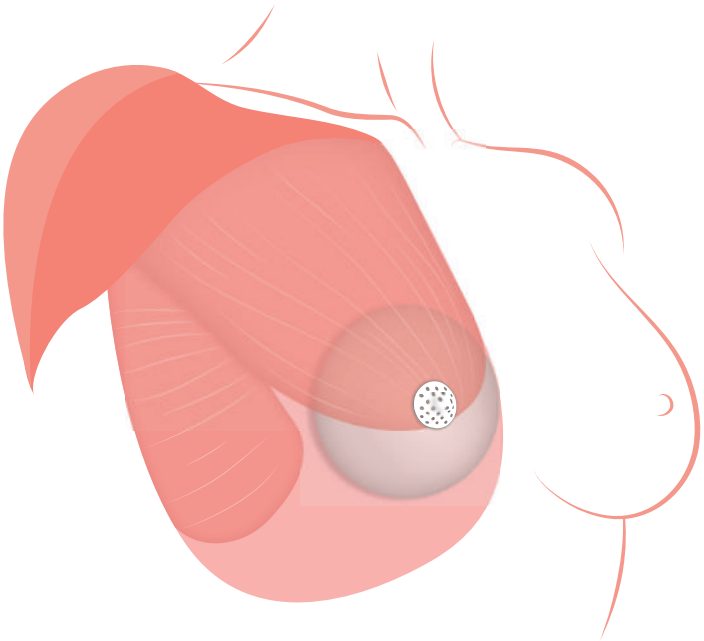
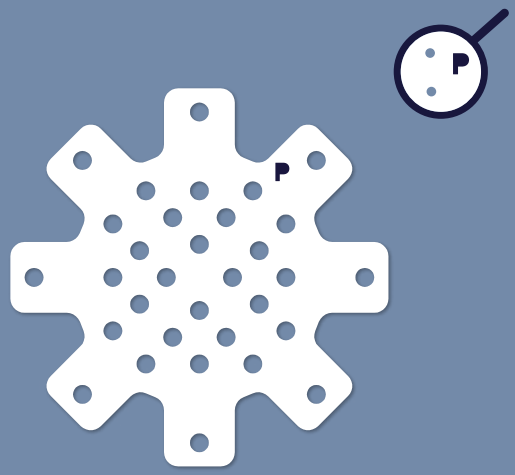
Exashape NAC (patented) is a perforated membrane used in breast reconstruction procedures for the areola-nipple area in order to create supplementary tissue, to cover a nipple reconstruction device or for a stand-alone use.
It is fenestrated with circular holes to optimise fluid drainage capacity.

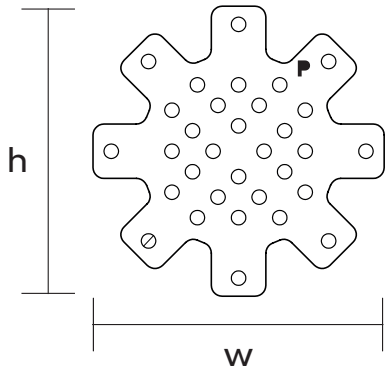


- Rehydrate the Exashape membrane in sterile saline solution.
- The fibrous side must be placed in contact with the skin flap.
- The smooth/compact side must be placed in contact with the implant and is marked with 'P'.



Bioripar® - Exashape NAC

REF	DESCRIPTION	SIZE (*w x h x th*)
AEPB(F)084- 080S	Round, perforated	8 x 8 cm x 0,5 mm



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2 Bernardini, R., Varvaras D., D'Amico F., et al. (2019) Biological acellular pericardial mesh regulated tissue integration and remodeling in a rat model of breast prosthetic implantation. J Biomed Mater Res. 2019;1–14.

3 Varvaras, D., et al. (2017) Safety, tolerability, and efficacy evaluation of immediate total wrapping with biological mesh implant-based breast reconstruction: an under-estimated subcutaneous approach with "biological texturization" prostheses. Preclinical animal study. The Gulf Journal of Oncology, Supplement January 2017.

4 Capuano, I., Bernardini, R., Varvaras, D., Mattei, M. (2020) Acellular Dermal Matrix in Prosthetic Breast Reconstructive Surgery with Prepectoral Technique: A Literature Review. Journal of Experimental Pathology. Volume 1, Issue 2: 50-59

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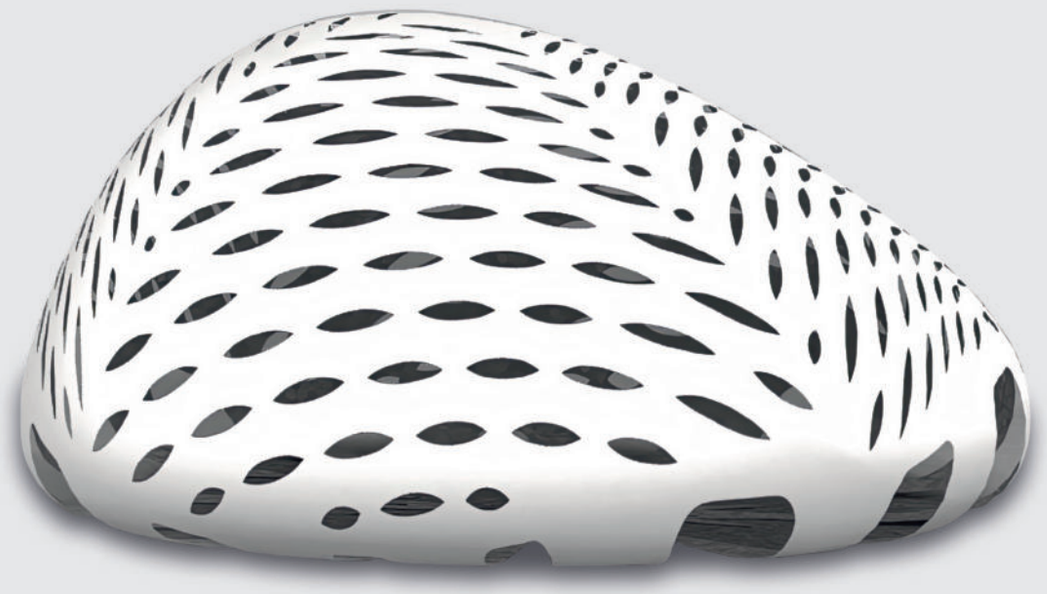
Refer to the Instructions for Use for detailed information on Intended Use, Warnings and Precautions.



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