

# STAM

## 3739 & 4739 & 5739 & 6739

# STAM

## 3739 & 4739 & 5739 & 6739

### MAIN FEATURES

- Excellent gas (methane) impermeability
- Optimum UV resistance
- Excellent resistance to climatic damage
- Flame retardancy treatment
- Several possible finishes: Antistatic (AS), Oil Resistant (OR), Zero Emission (ZE)
- 100% recyclable through Taxyloop®

### APPLICATIONS

- Covers for:
- Composting silos/tanks
  - Water purification and waste water treatment plants
  - Methanization units
  - Gas storage

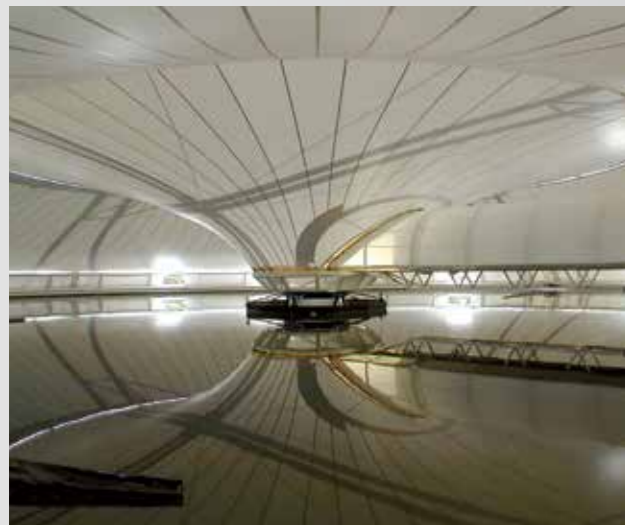


Merging into the landscape...

### Perfect environmental integration

Thanks to their green/grey 2-colour coating, Stam 3739, 4739, 5739, 6739 bio-energy membranes merge perfectly into an urban or rural landscape.

The 2-tone characteristic also limits light transmission and significantly reduces growth of harmful "microorganisms".



Extensive architectural potential

### Sustainable, innovative membranes

Composed of a PVC-coated polyester complex and a PVC coating, the polyester reinforcement ensures very high structural strength and optimum flexibility:

- good bending and perfect dome adaptation;
- easy to make up and install on site;
- control of gradual gas expansion.

This coating has been specially designed to ensure optimum imperviousness and resistance to chemical and organic effluents. Stam 4739OR and ZE bio-energy membranes are an ideal solution to this problem!



Freedom of shapes

### 100% recyclable

Serge Ferrari believes that eco-design involves considering its membranes' impact on the environment throughout their life cycle: from development stage to manufacturing, transport and installation, right through to their end-of-life management. The unique TEXYLOOP process ensures that Serge Ferrari membranes remain an infinite resource and are no longer a burden for the environment.



Technical properties	STAM 3739	STAM 4739	STAM 5739	STAM 6739	Standards
Yarn	1100 dtex	2 x 1100 dtex	1670 / 1100 dtex	1100 / 2200 dtex	TERSUISSE
Weight	750 g/m <sup>2</sup>	950 g/m <sup>2</sup>	1050 g/m <sup>2</sup>	1350 g/m <sup>2</sup>	EN ISO 2286-2
Width	260 cm	260 cm	260 cm	260 cm	
Physical properties					
Tensile strength (warp/weft)	280/280 daN/5 cm	400/400 daN/5 cm	550/550 daN/5 cm	800/700 daN/5 cm	EN ISO 1421
Tear strength (warp/weft)	30/30 daN	50/50 daN	85/70 daN	120/110 daN	DIN 53.363
Folding resistance	up to 400,000 cycles	up to 400,000 cycles	up to 400,000 cycles	up to 400,000 cycles	DIN 53359A
Adhesion (conventional finish)	12 / 12 daN/5 cm	15 / 15 daN/5 cm	16 / 16 daN/5 cm	18 / 18 daN/5 cm	EN ISO 2411
	(AS finish)	15 / 15 daN/5 cm			
	(OR finish)		14 / 14 daN/5 cm		
	(ZE finish)		15 / 15 daN/5 cm		
Methane permeability	FR < 350 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)	< 200 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)	< 300 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)	< 400 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)	DIN 53,380 T2
	AS	< 200 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)			
	OR	< 150 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)			
	ZE	< 30 cm <sup>3</sup> /(m <sup>2</sup> .d.bar)			
Flame retardancy					
Rating	FR <b>M2/B1/B-s2,d0/VKF</b>	<b>M2/B1/C-s2,d0/VKF</b>	<b>B1/VKF</b>	<b>B1</b>	
	AS	<b>M2/B1/C-s2,d0/VKF</b>			
	OR	<b>B1</b>			
	ZE				
Antistatic measurement in ATEX zone - AS		< 1 x 10 <sup>9</sup> Ω/m <sup>2</sup>			EN 13463-1 : 2001
Management systems					
Quality					ISO 9001
Environment					ISO 14001
Certifications, labels, guarantees, recycling					



On request

The technical data above are average values with a +/- 5% tolerance. The buyer of our products is fully responsible for their application or their transformation concerning any possible third party. The buyer of our products is responsible for their implementation and installation in compliance with standards, codes of practice and safety regulations in force in destination countries. To ensure warranty effectiveness, refer to warranty certificate concerned available on demand. The values quoted above represent results of tests performed in compliance with common design practices and are provided for information only to enable customers to make the best use of our products. Our products are subjects to evolutions due to technical progress, we remain entitled to modify the characteristics of our products at any time. The buyer of our products is responsible for checking the validity of the above data.

### TOOLS AND SERVICES

#### Available on request:

- biaxial (2-directional) curves
- permeability certificates
- chemical contact lists
- HF making up guide for our antistatic membranes
- ATEX compliance certificate for antistatic versions

#### → Contact

- Headquarters: + 33 (0)4 74 97 41 33
- Your local representative: [www.sergeferrari.com](http://www.sergeferrari.com)

#### → TEXYLOOP®

- The Serge Ferrari operational recycling chain
- Secondary raw materials of high intrinsic value compatible with multiple processes
- A quantified response to combat depletion of natural resources

[www.texyloop.com](http://www.texyloop.com)

[www.sergeferrari.com](http://www.sergeferrari.com)

Innovations



4739 OR - 10396



4739 AS - 20208



4739 ZE

\* on special order

The colours and textures represented in this document are provided as a reference only.

Conventional membranes



4739 FR - 20108



3739 - 20108



5739 - 20108



6739 - 20108

Membranes adapted to all your projects and designed to protect the environment

Silo covers



Purification plant covers



Methanization plant covers

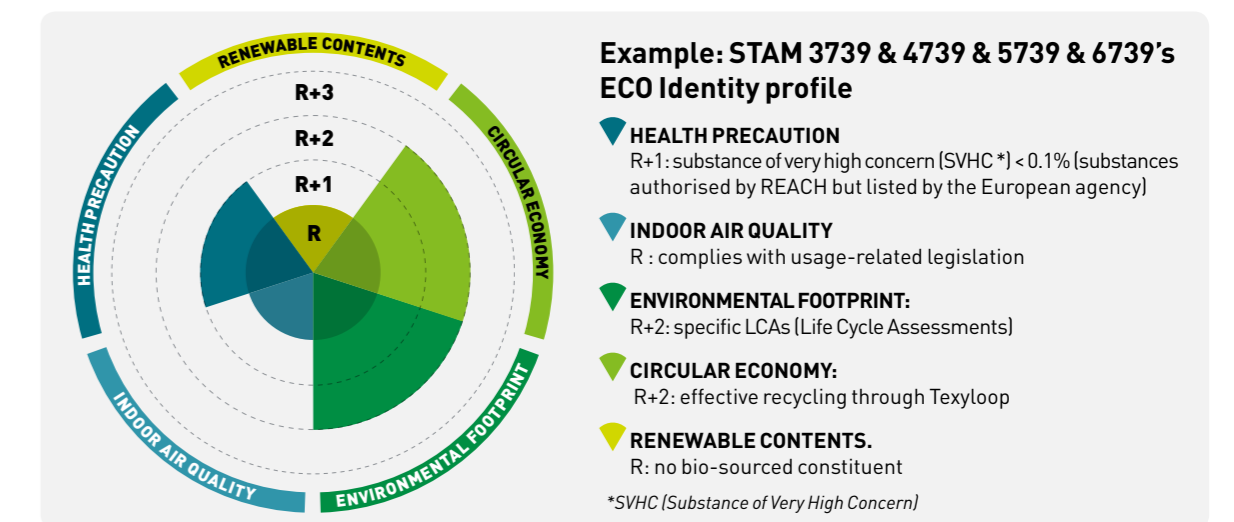


**GAS storage** Biogas: the only storable, renewable energy source.



**ECO IDENTITY**, Health and environmental performance

Serge Ferrari assesses the health and environmental performance of its composite materials using 5 indicators. Level "R" represents the regulations or the basic offer without regulatory requirements. Higher levels represent voluntary advances that exceed regulations.



ECO IDENTITY complies with ISO 14021 environmental communication standard:  
• exact • verifiable • pertinent • not misleading