



# RubberShell™ Roofing System

In Shape For Any Challenge



RubberShell

# RubberShell™

## Roofing System

**RubberShell is a newly-developed and reinforced roofing membrane for fast and secure installation on low slope roofs. It is a versatile system enabling best practice for different applications.**

What's unique with RubberShell is its combination of advantages from EPDM rubber membranes with benefits associated to bitumen felts. This means ease of installation, elasticity and durability but also material melting completing waterproofing to any structure. Challenging shapes are no problem to cover but installation is quick and easy with a reliable and visually verifiable result.

### **Tough , elastic and durable**

RubberShell roofing membrane is reinforced with a grid of glass fibres and composed of multiple layers. The grid makes the product strong and dimensionally stable, yet preserves the elastic abilities of the membrane. The top layer consists of reinforced EPDM and the bottom layer a highly modified bitumen. To assure protection against wear and tear the RubberShell roofing membrane is 2.5 mm thick. RubberShell is unaffected by permanent contact with water and is UV-resistant. The membrane has guaranteed function and integrity in all climates.

### **Flexible system options**

RubberShell roofing membrane is available in two versions: one for mechanical attachment and one that is self-adhesive. For ballasted roofs, either version is suitable. Both versions are spliced using hot air to provide a reliable weld with a material bleed sealing of the lap. Instantly, a bead of bitumen is created along the lap seam confirming that the laps are completely sealed. Installation is done entirely without open flames.

RubberShell is available in multiple widths bringing flexibility and efficiency to the installation.

### **Multiple areas of application**

RubberShell is also available in a 1.6 mm thin and self-adhesive version, especially developed for waterproofing of facades and gutters. RubberShell is therefore a complete system with full coverage of solutions for building envelopes.

### **Maintenance free**

RubberShell does not require any specific maintenance for durability and performance over decades. To assure proper function the roof must however be inspected regularly to check for mechanical damages and that drainage is functional and not clogged.

### **Environmentally sustainable**

RubberShell is chemically stable and does not contain any dangerous chemicals such as chlorine or plasticisers that can be emitted or released during its service life. The expected service life exceeds 50 years, resulting in a favorable life cycle analysis and low impact on the environment.

### **Documentation and manual**

All technical documentation and installation instructions are available for download on our website [www.sealeco.com](http://www.sealeco.com)

## This is RubberShell

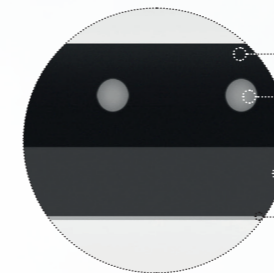
### **KEY FEATURES:**

- Available in multiple widths (max. width 1700 mm).
- Expected service life exceeding 50 years.
- UV-resistant and weather-proof in all climates from -30 °C to +120 °C.
- Weldable. Splicing is carried out with hot air.
- Unaffected by permanent contact with water.
- Multiple layers with a reinforced EPDM top layer and a highly modified bitumen bottom layer.
- Self-adhesive version for a faster installation process.
- No dangerous chemicals such as chlorine or plasticisers.
- 2.5 mm thick and reinforced with a grid of glass fibres.
- Elastic – tolerates movements in the structure such as freeze/thaw.
- No open flames during installation.
- Visually verifiable result of lap sealing due to material bleed.



## RubberShell S-FR

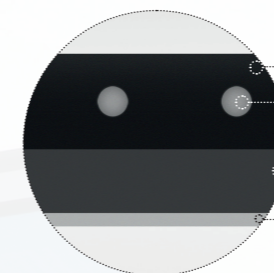
MECHANICALLY ATTACHED



- Elastic EPDM rubber membrane.
- Reinforced with a grid of glass fibres, making the product strong and dimensionally stable.
- Polymer-modified bitumen layer.
- Separation foil.

## RubberShell SA-FR

SELF-ADHESIVE



- Elastic EPDM rubber membrane.
- Reinforced with a grid of glass fibres, making the product strong and dimensionally stable.
- Self-adhesive, flexible polymer-modified bitumen layer attaches to most surfaces.
- Protective film that is pulled back when installing.

Our operations are conducted according to ISO 9001 and ISO 14000. Products and systems are tested according to applicable standards, supervised by independent laboratories, authorities and certified to local building codes in all the markets where we are active.

SealEco offers innovative water- and weather protection solutions for increased service life of buildings and other types of constructions. Our solutions also include lining applications as geomembrane for ponds and reservoirs, landfill ponds and cappings, as well as tank liners giving secondary containment for farming, industrial use or industrial waste containments.

We understand and fulfill your needs by providing complete, market-leading solutions which meet high standards in terms of durability with environmental benefits. With SealEco as your partner, you will get access to more than 45 years of experience and knowledge. As a leading partner in our field, we are always able to provide the best solutions for your needs. References can be found all over the world- from arctic cold to desert heat.

SealEco - world-leading partner when it comes to sealing, protection and preserving.



#### SealEco

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# RubberShell™ Roofing System

## Specification

### Product characteristics

**Thickness:** 2.5 mm  
**Weight:** 2.85 kg/m<sup>2</sup>  
**Width:** 1700 mm\*  
**Length:** 10 m

*\*Additional widths available upon request.  
 Please contact your local sales representative for more information.*

### Certificates & Approvals

**CE-marking, affixed year:** 2015

**Certification no.:** 0402-CPD-470301

**Relevant standard :** EN 13956, Plastic and rubber sheets for roof waterproofing

**Notified body:** 0402-Technical research institute of Sweden

## Physical properties

### RubberShell S-FR 2.5 / SA-FR 2.5

	Unit	Requirement	Typical value	Test method
<b>Tensile strength</b>	N/ 50mm	Longitudinal: ≥ 600 N/50 mm Transverse: ≥ 600 N/50 mm	Longitudinal: 800 Transverse : 800	EN 12311-2 (A)
<b>Tear resistance</b>	N	100	130	EN 12310-2
<b>Dimensional stability</b>	%	Longitudinal: ≤ 0.5 % Transverse: ≤ 0.5 %	Longitudinal: ≤ 0.2 Transverse: ≤ 0.2	EN1107-2
<b>Foldability at low temperature</b>	°C	max -30	-30	EN 495-5
<b>Reaction to fire</b>	Classification		E	EN 13501-1
<b>External fire performance</b>	Classification	B <sub>ROOF</sub> (t1, t2, t4)	Pass	EN 13501-5

## Product overview

Product	Width (mm)	Length (m)	Packaging (rolls/pallet)	Article number
RubberShell S-FR 2.5	1700	10	21	5922475

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