

Façade breather membrane
Euroclass A2-s1,d0

Whitepaper 04 | 2021





The tragic Grenfell Tower fire has shown us how vulnerable high-rise buildings can be and that new standards and technologies are needed to address the risk of fire in all buildings where mobility could be an issue.

With its Euroclass A2-s1,d0 certification, the Stamisol Safe One façade breather membrane behind cladding closes the gap for a continuous, façade construction in Class A2 and reliably protects against the spread of fire even in the rear ventilation level. Stamisol Safe One ensures maximum fire safety for the façade of high-rise buildings and high-risk buildings with stringent fire protection requirements. .

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Fire does not compromise.
Neither does Stamisol Safe One.



A need for maximum fire safety in façades

Special buildings need a special grade of fire safety

In buildings higher than 11 m, fire-fighting control and residents' escape is only possible to a limited extent and evacuation measures are more important than ever within acceptable time frames.

This also applies to buildings with a large number of visitors or residents and where mobility may be an issue, such as hospitals, retirement homes, schools and universities (high-risk buildings).

With the addition of toxic smoke from a fire, the threat is even more deadly. In the event of a fire, the build-up of smoke can reduce visibility, cause confusion and eventually overcome occupants long before the fire itself becomes life-threatening.

Two important trends will determine buildings' fire safety standards and architecture of the future:

- An ageing society means we will have more residents in our buildings whose mobility may be restricted, leading to compromised evacuation times
- Diminishing land resources is forcing us to use available space more intensively, with higher buildings and greater population density per floor

Both of these issues demand the question: How we can improve difficult fire-fighting areas and reduce the risk of fire and smoke spreading?

Let's close the gap for full façade design in Euroclass A2

In order to develop sustainable, future-oriented concepts in fire safety, the façade membrane is an essential element when incorporated into a wider fire engineering strategy. It can be a considerable risk factor for fire propagation in the external building envelope and rear-ventilation walls, with potential flashover between floors and possible entry into the building interior.

In this context, we should understand the current UK building regulations as specified in "Approved Document B Regulation 7(2) and requirement in Part B4: External fire spread". This is applicable to all buildings over 18 m, it states "all materials which become part of an external

Stamisol Safe One

wall or specified attachment, achieve class A2-s1,d0 or class A1, other than those exempted by regulation 7(3)".

In order to offer the highest possible fire safety protection, the façade system should meet Euroclass A2 for fire protection of the outer wall.

The first façade breather membrane in Euroclass A2-s1,d0

What was previously only possible for the outer skin and the thermal insulation is now also possible for façade membranes due to the latest technology developed by Serge Ferrari. Stamisol Safe One, made of glass fibre fabric with elastomer coating, is a vertical façade membrane behind cladding rated Euroclass A2-s1,d0.

In a case of fire, a well-designed and correctly installed A2-s1,d0 façade breather membrane can:

- Assist in preventing flashover, reducing the risk of the fire developing further
- Assist in protecting residents of the building from dangerous toxic smoke
- Assist in reducing the risk of structural damage to the building

Now with the availability of a Euroclass A2 façade breather membrane as well as outer skins and thermal insulation, architects, façade designers and installers can ensure maximum external fire protection in an integrated rear-ventilation design, completely in Euroclass A2.

Statements of official authorities

"I am pleased that the government have taken recommendations on board and broadened the cladding ban to include other high-risk buildings such as hospitals, residential accommodation and care homes.

We would like to see other high-risk buildings included, such as hotels and hostels, which are specifically exempted from the legislation. The technical intricacies of the cladding ban might have left room for flammable products to still be deemed acceptable, I therefore welcome the fire ratings proposal for A1 and A2-s1,d0 products which we believe align with our research."

Jane Duncan – Chair of the RIBA's Expert Advisory Group on Fire Safety

"Of 500 residential blocks assessed, 65 % failed a fire safety inspection." 350 existing buildings so far need to be reclad.

Nick Coombe – London Fire Brigade Strategic Technical Advisor and Vice Chair of National Fire Chiefs Council (NFCC)

Ms McVey responded to a written question in parliament on behalf of the Ministry for Housing, Communities and Local Government (MHCLG), and revealed that its inbox for housing checks has seen over 9,000 emails from concerned local authorities since the Grenfell Tower fire. The Housing Checks mailbox was set up to "allow local authorities and housing associations to report towers within their areas which used aluminium composite material cladding [ACM]."

Ester McVey – Minister for MHCLG UK Parliament – 14/01/2020

UK fire regulations for façades

Stamisol Safe One

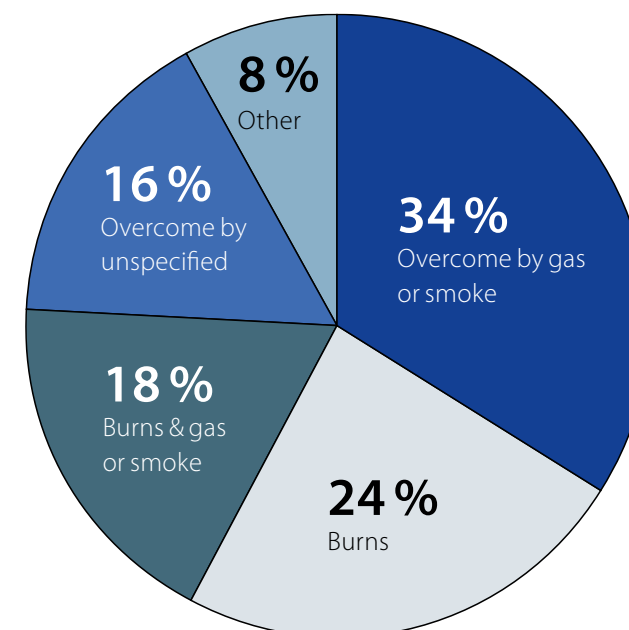
Approved Document B Regulation 7(2)

10.10 Regulation 7(2) applies to any building at least 11 m above ground level (as measured in accordance with Diagram D6 in Appendix D), which contains one or more dwellings; an institution; or a room for residential purposes (excluding any room in a hostel, hotel or a boarding house) requires that all materials which become part of an external wall or specified attachment achieve class A2-s1,d0 or class A1, other than those exempted by regulation 7(3).

Architects and fire consultants contribute to protecting the lives of those within the building in case of fire. Residents rely on and should expect experts to design for inherent fire safety from the beginning; they do not expect a race to the bottom on price. They understand value for money, but expect designers to use the right products at the right time.

Working together, we can make it happen. With a new level of competence and compliance for fire safety in future buildings, we can support and protect the people for whom we are building. This includes fitting the Euroclass A2 Stamisol Safe One façade breather membranes, when recladding high-rise buildings.

Death resulting from building fire



Fire safety is everyone's responsibility

Everyone deserves the best possible level of fire protection with regards to fire safety. This means, when designing buildings that require a breathable membrane, using materials that are specified from the outset as A2-s1,d0, as in the spirit of Approved Document B Part B4. It means using façade breather membranes like Stamisol Safe One.

You cannot put a price on the safety of lives. It is now possible to create a full building skin in Euroclass A2, from the design outset, when specifications and costs are developed.

Outlook

Whilst today, vertical breather membranes are exempt from A2 materials, which form part of an external wall, they should never the less, achieve a class A2-s1,d0. Vertical breather membranes should not be confused with damp proof and roof membranes, which are considered not to be part of the wall system. Stamisol are lobbying the MHCLG and the IRG to change the materials exemptions section within Approved Document B for new buildings, where vertical membranes are called for within architectural designs. To give assurances to all parties responsible for ADB updates, independent tests have been carried out internally and by the FPA to ensure the compliance and competence of the façade membrane. Part of the Dame Judith Hackett review was to recommend and ensure that independent testing of fire control products was carried out with a DoP. That the competence of installers utilising compliant products, was imposed and that the "golden thread" of design, installation and building sign-off took place. In support of this the Stamisol Safe One technical team has developed a RIBA CPD Webinar promoting the product, its application in meeting UK building regulation and promoting the changes needed, by working with organisations such as MHCLG, LABC, BESA and RIBA Architects.

With between 350 and 2,000 high-rise buildings possibly needing recladding, the Stamisol Safe One membrane was developed to replace the existing class E and B vertical membranes currently installed on high-rise buildings.



Why use a breathable façade membrane

Stamisol Safe One

Premium façade membrane Stamisol Safe One forms an effective and safe weather protection in the rear ventilation level of closed and open façades. The membrane acts like the human skin: it is open to diffusion, protects and serves as a climatic regulator.

Resistance to UV rays, moisture and heat is indispensable, especially for open, rear-ventilated façades. Thus, the thermal insulation is reliable for protection against weathering over a long period of time, supporting energy efficiency and reducing the risk of condensation, removing residual moisture to the outside via the membrane.

Proven coating technologies and the highest quality of raw materials, coupled to uncompromising Swiss quality, make Stamisol façade membranes high quality, extremely durable and resistant to aging, which is manifested in a comprehensive lifetime guarantee as an Euroclass A2-s1,d0 membrane supported by a product 10-years warranty (see pages 18/19).

Framed external walls

England and Wales Building Regulations Approved Document C for resistance to moisture says in Clause 5.17, that when a vapour open membrane is needed, the membrane has to be resistant to water: "Any framed external wall will meet the requirement if the cladding is separated from the insulation or sheathing by vented and drained cavity with a membrane that is vapour open, but resists the passage of liquid water, on the inside of the cavity".

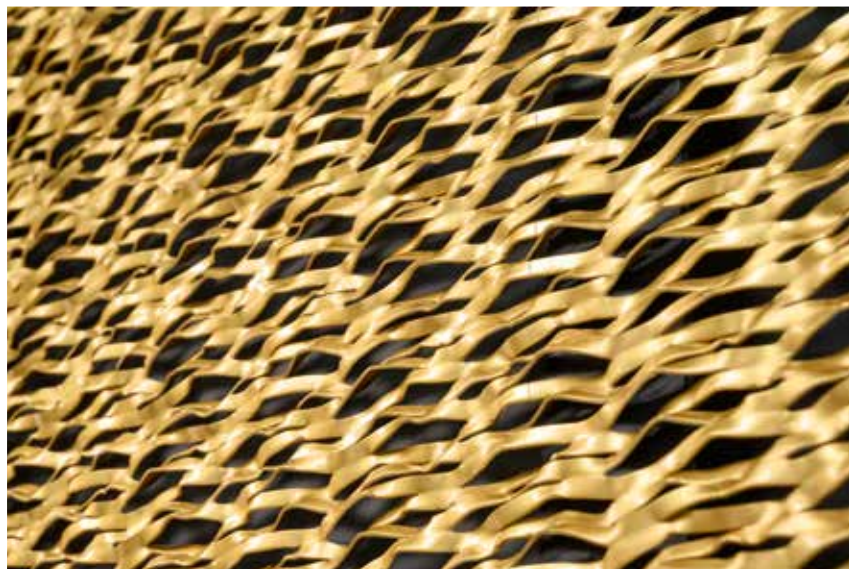
Why use a façade breather membrane?

- Building moisture is led to the outside
- Thermal insulation is protected from deterioration
- Ensures dry and functional thermal insulation
- No cooling down of the insulation by wind/air

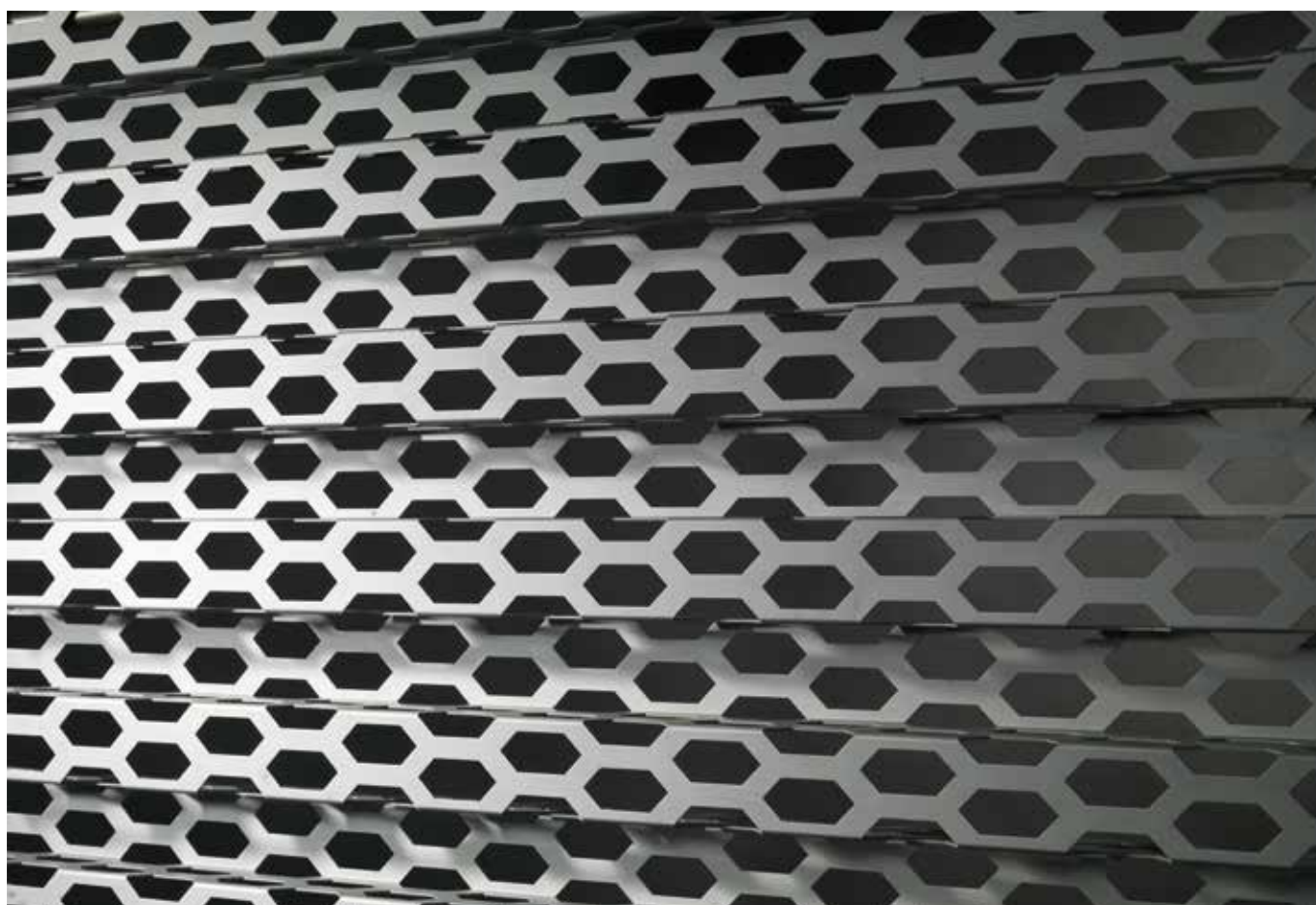


Breathable vertical
façade membranes:
The protective shield
for closed and open
rear-ventilated
façades.





Maximum fire safety for your
façade projects.
Stamisol Safe One
Euroclass A2 façade breather
membrane behind cladding



Product description and benefits

Stamisol Safe One

A new kind of fire safety for façades

With Stamisol Safe One, the Swiss manufacturer Serge Ferrari presents the first diffusion-open façade membrane in Euroclass A2, a glass fibre fabric with elastomer coating. The suitability for open façade claddings/open joints noticeably expands the design freedom of architects and façade consultants for façades Euroclass A2. Thus, for example, the use of expanded metal, metal mesh, perforated metal panels, etc. is now also possible. Stamisol Safe One combines maximum creativity with maximum fire safety.

Stamisol Safe One Euroclass Testing

Compared to the minimum B-s2,d0 standard for façade membranes as required by current regulations, Stamisol Safe One offers the following safety advantages:

- A2: The vertical breather membrane when used in junction with cladding will not contribute fire in the rear ventilation wall system. When fixed to the wall using the Stamcoll Safe adhesive you have an Euroclass A2 envelope when applying no more than 80 g/sqm of adhesive.
- s1: Gives you minimum smoke development if ignited by a fire, this therefore gives the opportunity for residents to see clearly the means of escape and the fire crew visibility of the fire location.
- d0: With no hot droplets the chance of fire spread to other areas of a building is eliminated.

The advantages at a glance:

- Live-saving membrane by being Euroclass A2-s1,d0, meeting the standards of Euroclass EN13501-1 and offering the highest standard of fire safety
- Water resistant to EN ISO 20811
- Resistance to water penetration after exposure of 90 days at 70 °C and 5000 h UV-rays: W1 according to EN 13859/2 / EN 1928
- Temperature certified to 250 °C with no deviation of material composition
- Excellent UV protection, ideal for both open and closed façades

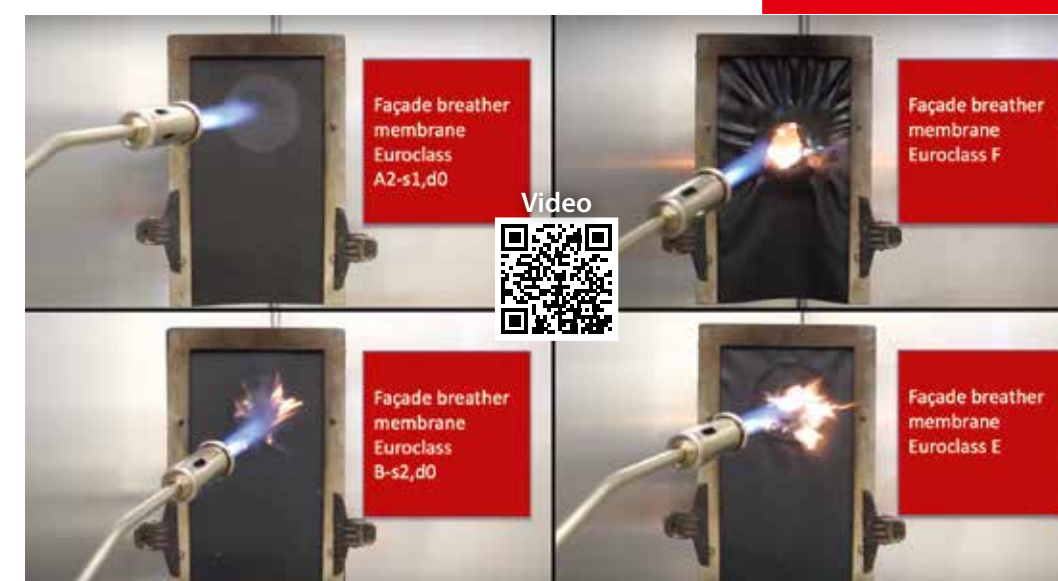
Stamisol Safe One Euroclass A2 façade breather membrane behind cladding meets the requirements of England and Wales Building Regulations Approved Document C for permeability, weather tightness and condensation control. It is LABC registered. Certificate No. EW 1214

Certifications

Euroclass certification was given by an independent testing house, (a member of EGOLF), notification body No. 1508, as defined in B5 of Appendix B 2019 ADB.

All certificates and DoP are available on request. Please ask also for Stamisol Safe One brochure with full

technical data and original sample patch. Please order it via e-mail: stamisol.co.uk@sergeferrari.com





Ideal for
creative, rear-
ventilated
façades, PV
façades and
recladding
of high-rise
buildings



Applications

Stamisol Safe One

For the most demanding applications

Stamisol Safe One Euroclass A2 façade breather membrane behind claddings can be used both for closed and partially open vertical façades with up to 50 mm joints or an open area up to 50 % by meeting stringent fire prevention requirements:

- Apartment blocks higher than 11 meters
- Hospitals, retirement homes, rehab centres
- Universities
- Schools, nurseries
- Office buildings with high public traffic
- Transport facilities
- Building floor extensions

Ideal for PV façades

To generate energy and support sustainability concepts for buildings, more and more buildings are being equipped with photovoltaic elements in the façade. Tested for a fire resistance to 250 °C. Stamisol Safe One supports a safe design of the rear ventilation of photovoltaic façades or façade claddings, which are exposed to fire and heat radiation.

Recladding of high-rise buildings

At the last count in January 2020, there are 350 high-rise buildings that will need to be reclad. This number is expected to rise after further building inspection. Within the UK high-rise building recladding programme there could be an extensive need for replacement of vertical breather waterproof membranes. With the UK building regulations under review the opportunity should be taken now to refit with the new class A2-s1,d0 membrane instead of the current class E or B.

Why risk fire and toxic fumes with a class B, when an Euroclass A2-s1,d0 membrane is now available with Stamisol Safe One?



Support and service

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Safe One

Join our CPDs

Stamisol offers a RIBA Approved CPD Webinar on demand, how to achieve maximum fire safety Euroclass A2 in your façade design with Stamisol Safe One façade breather membrane, especially for high-rise and high-risk buildings.

To request a video CPD presentation, please send an e-mail to Allan Hurdle at stamisol.co.uk@sergeferrari.com with your preferred date and time or have a look at our website with current schedule list.



A new kind of efficiency for façade constructions in Euroclass A2

Stamisol Safe One Euroclass A2 façade breather membrane behind cladding reduces the fire spread, improving fire safety for curtain-wall, rear-ventilated façades with highest requirements in fire protection. The sealing of the vertical rear-ventilation envelope with Stamisol Safe One façade membrane now makes design and construction more efficient and practical.

Please ask for our construction models with Stamisol Safe One via e-mail: stamisol.co.uk@sergeferrari.com

Planning and construction support

Our technical team will be pleased to support you

- for questions regarding Stamisol Safe One applications and buildings
- in the coordination of maximum opening degrees/ joint widths for your planned façade cladding
- for recommendations of Stamisol distributors and installers

Quick and safe installation

The Stamisol Safe One system of membrane and bonding materials are perfectly matched to each other. The low weight, flexibility and robustness with easy cleaning and high scratch resistance make this membrane easy and efficient to install. A sophisticated adhesive technology creates secure connections to substrates and connections to other construction elements, as it is compatible with almost all materials and construction methods, such as steel construction, solid construction, etc. In case of delays until the final assembly of the cladding, Stamisol Safe One can be exposed to the weather for up to 6 months.

Professional execution at high standards

In order to guarantee our comprehensive 10-year warranty and to ensure a perfect building envelope in Euroclass A2, Stamisol Safe One façade membranes are installed by specialist companies with NVQ Level 2 or CSCS Skill Card.

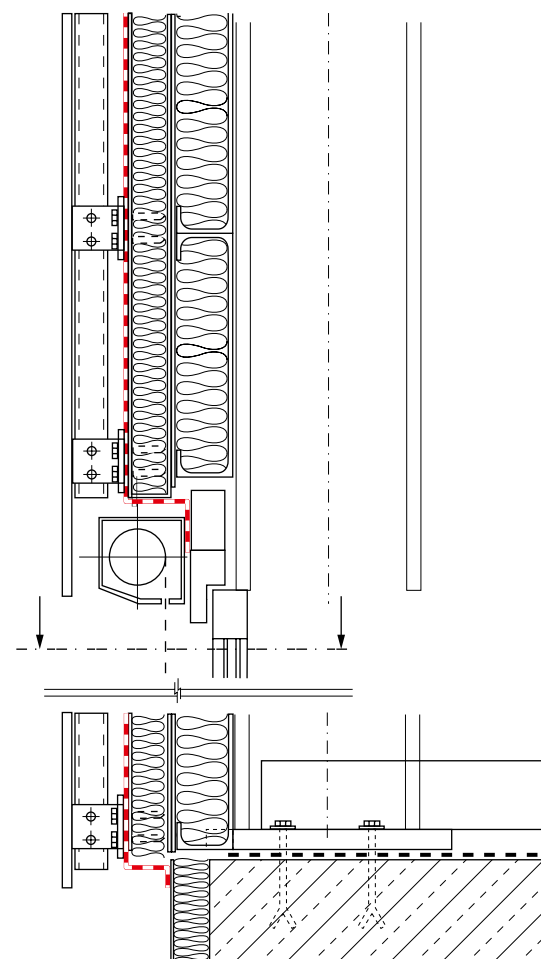
Join our network of installers

Are you a company with high professionalism and comprehensive knowhow for demanding façade projects? Then you should join our network of certified installation companies.

Our technical team will support you with:

- Training videos for the installation of Stamisol Safe One
- Detailed installation guides
- Site specific technical advice

High safety from construction to installation



Technical data

Stamisol
Safe One

■ Technical information		Standards
Fabric	Glass fabric	
Coating	Elastomer	
Total weight	310 g/m²	
Roll width	265 cm	
Roll length	20 m	
■ Key data membrane		
Tensile strength (L/C)		EN 13859-2
> Before ageing process	1400/1400 N/5 cm	EN 12311-1
> After ageing 90 days at 70 °C and 5000 hours under UV	1300/1300 N/5 cm	
Nail tear resistance (length/cross)	170/170 N	EN 12310-1
S _D value	< 0,3 m	EN ISO 12572-C
Resistance to water penetration		
> Before ageing	W1	EN 13859/2
> After ageing 90 days at 70 °C and 5000 hours under UV	W1	EN 1928
Cold bending behaviour	- 30 °C	EN 1109
■ Flame retardancy		
Classification	VKF 6q,3 / RF1	SN 198898
Euroclass	A2-s1,d0	EN 13501-1
PCS gross calorific value	< 3,0 MJ/kg	EN ISO 1716
■ Weatherproofing capability		
Water resistance	> 300 cm	EN ISO 20811
UV resistance	UV-resistant, must be covered within 6 months	
Temperature resistance	- 40 °C/+ 250 °C	
■ Management systems		
Quality		ISO 9001
Environment		ISO 14021
■ Certification, labels, guarantees		

10-year warranty



WUFI listing
www.wufi.de

Complies with
SIA 232-2 (Switzerland)

The above-mentioned mechanical characteristics are averages with a 10 % tolerance. See our current conditions that apply to guarantees.



Certificate No: EW1214



This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Stamisol Safe One (SF400)

Description of Product

Stamisol Safe One (SF400) is a non-combustible façade breather membrane for high rise buildings that also assists in the prevention of fires spreading in the rear-ventilated section of a curtain façade. It is a high performance vapour permeable walling underlay for curtain facades with up to 50 mm joints or cladding with an open area of up to 50%.

Please consult the 'Conditions of Certificate' and 'Non-Regulatory Information' sections to see if the system is acceptable for use on sites covered by LABC Warranty.



Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention
- Durability serviceability and identification

Validity

This certificate was first issued on 7th October 2019 and is valid until 7th October 2021

Issue Dated 6th November 2020

Full LABC certificate is available on request.

Please order it via eMail:
stamisol.co.uk@sergeferrari.com

LABC
0879 | www.labc.uk.com/registereddetails



10-year warranty

Serge Ferrari AG (hereinafter referred to as the Warrantor) provides the following Warranty to the companies concerned (hereinafter referred to as the Warrantees):

1) Products covered

The Warranty covers the following products and their intended applications, shown in the technical data sheet and product brochure, within the European Union, UK, Norway and Switzerland: Stamisol Safe One, Stamisol Extreme DW, Stamisol Extreme DW 2Tape, Stamisol Advanced ECO, Stamisol Advanced ECO 2Tape, Stamisol Extreme Pack, Stamisol Advanced Pack 350, Stamisol Extreme Pack 500, Stamisol Advanced FA, Stamisol Advanced FA 2TAPE, Stamisol Advanced FA POP 2Tape, Stamisol FI, Stamisol Perform FI, Stamisol Perform FI 2Tape, Stamisol Extreme Color, Stamisol Extreme Color HI-FR, Stamisol Perform SD 70, Stamisol Perform ABS und Stamisol Perform Flex.

This warranty covers exclusively Stamisol products, which have been installed by a professional specifically trained in their usage, in compliance with best industry practice, and with the installation conditions and areas of usage specified in Stamisol brochures and technical documentation.

In case of Euroclass A2-s1,d0 façade membrane Stamisol Safe One, this warranty is only valid, if installed by specialist companies with NVQ Level 2 or CSCS Skill Card.

2) Warranty period

This warranty extends for a maximum period of ten (10) years from the relevant product delivery date.

3) Object of the warranty

This warranty covers the following characteristics, for the ten-year (10-year) warranty period, with reference to the specified technical data and under normal conditions of usage:

- For under-roof and façade protective screens: conservation of fire retardancy and of at least 70 % of the material strength, waterproofing characteristics and vapour barrier permeability
- For vapour control screens: conservation of fire retardancy and of at least 70 % of the material strength and Sd value (vapour diffusion thickness or capacity for limiting water vapour penetration).

4) Exclusions

The warranty excludes the following cases:

- Use of harmful or corrosive chemicals
- Damage due to unforeseen mechanical effects (abrasion, rubbing, wind flutter, etc.)
- Product usage non-compliant with Stamisol recommendations
- Natural disaster, rioting, act of war, etc.

All damages resulting from:

- Default of a transporter
- Usage not conforming with best industry practice
- Vandalism, intentional or accidental damage or alteration
- Structural design or application unsuited to the intended purpose of the product
- Partial repair of the product prior to damage
- Installation or application modification without prior approval of the Warrantor
- Improper maintenance of the product
- Use of non-recommended accessories
- Damage to a product, whose origin and traceability has not been established

Moreover, activation of the warranty by the Warrantor is subject to full settlement of the delivery invoice for products claimed to be defective.

5) Warranty application conditions

All damage shall be immediately notified by letter, sent by recorded delivery, to the Warrantor no later than three weeks (21 days) after the relevant anomaly has been noted. Under the guarantees specified in Clause 3 and the exclusions listed in Clause 4 of this Warranty, coverage shall include the following:

- Replacement of the defective product and its installation accessories.
- The costs of removing and re-installing the membrane, subject to acceptance of an priced estimate by the Warrantor.

In the event that the product or products are replaced, the replacement products supplied by the Warrantor are guaranteed under the terms and conditions of the initial Warranty, notwithstanding the date of the damage.

6) Application under photovoltaic cells

Our 10-year Warranty also covers photovoltaic and solar plants, if the ventilation distance between our Stamisol product and the photovoltaic or solar plant is no less than 60 mm and, if greater distances are specified in other regulations, such distances and any other guidelines for fitting our Stamisol product attached to the product, are complied with. We would like to point out explicitly that you must ensure that if our membrane heats up to 100°C this only occurs for a maximum of 20 days per year and for 2 hours per day. The maximum peak temperature of 100°C may not be exceeded. Should damage occur due to over-heating and therefore destroy the membrane, a condition for any guarantee provided by the Warrantor is that Warrantees prove that their photovoltaic or solar plant has only heated up to the previously stated level, therefore ruling out any destruction of our material because of too high temperatures in the photovoltaic or solar plant. Stamisol FI is not suitable for use in photovoltaic and solar plants.

Conditions for Stamisol Safe One

Our 10-year Warranty also covers photovoltaic and solar plants, if the ventilation distance between our Stamisol product and the photovoltaic or solar plant is no less than 60 mm and, if greater distances are specified in other regulations, such distances and any other guidelines for fitting our Stamisol product attached to the product, are complied with. We would like to point out explicitly that you must ensure that if our membrane heats up to 250°C this only occurs for a maximum of 20 days per year and for 12 hours per day. The maximum peak temperature of 250°C may not be exceeded. Should damage occur due to over-heating and therefore destroy the membrane, a condition for any guarantee provided by the Warrantor is that Warrantees prove that their photovoltaic or solar plant has only heated up to the previously stated level, therefore ruling out any destruction of our material because of too high temperatures in the photovoltaic or solar plant.

Ensure you have the document valid on the project date before activating the warranty.

Valid from the 1st of January 2020

Swiss made with comprehensive warranty

Stamisol Safe One is a high-tech façade membrane with uncompromising Swiss made-quality from the Serge Ferrari Group, which offers a comprehensive 10-year warranty.

The 10-year warranty covers the replacement of the membrane in the event of a product defect with the refitting and restoration of the membrane (please review the warranty details on the right for terms and conditions).

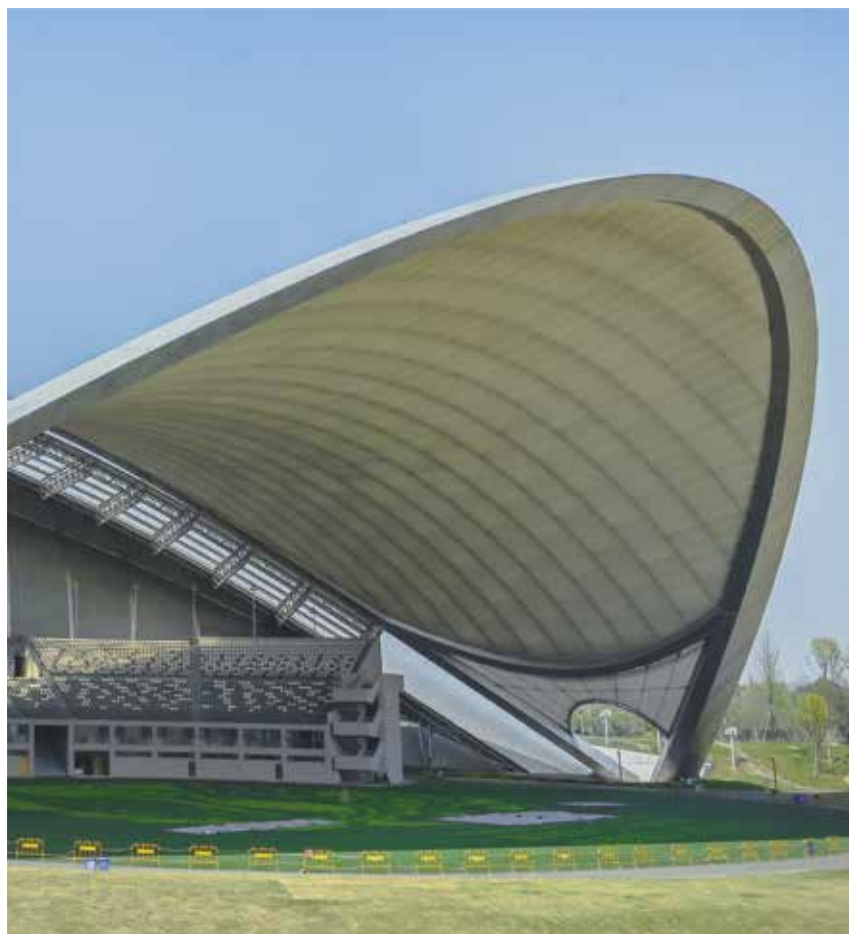
Stamisol Safe One also comes with a lifetime guarantee as a Euroclass A2-s1,d0 membrane.

Only Stamisol offers this comprehensive warranty as a high investment security for building owners, planners and installers.





High-tech composite materials for striking architecture and high fire safety



About Serge Ferrari

Stamisol Safe One

Composite materials for demanding requirements

Since 1973, the Serge Ferrari Group has been developing, producing and marketing products as a specialist for innovative composite materials that meet a wide range of technical requirements for various areas of application: architecture, special applications (modular structures, environmental protection) and end consumers (outdoor furniture, solar protection etc.).

Serge Ferrari addresses a comprehensive range of issues to deal with central tasks of the future: sustainable construction, energy efficiency, conservation of resources, design for all and social responsibility.

High innovation strength and international focus

The French company, acknowledged throughout the world as one of the market leaders for composite materials, is present in 80 countries with eight subsidiaries (USA, Japan, Hong Kong, Brazil, India, China, Turkey and Germany) and a network of more than 100 distributors. The composite materials and yarns are produced at four production facilities in France, Italy and Switzerland.

For 2019, the group's consolidated turnover for the year was 189 million euros, 75 % of which was generated outside France. Listed on Euronext Paris, the Serge Ferrari Group employs 830 people worldwide.

Full covering of all production stages within the group

Thanks to comprehensive knowhow (special, internally developed means of production, highly qualified employees and great quality standards), Serge Ferrari has been characterised, since the time of its establishment, by a high level of innovation strength and the capability to offer new composite materials with the most demanding spectrum of performance. In doing so, the group of companies controls all stages of production (vertical integration) from development to yarn manufacture right up to weaving and coating the composite materials.

Striking solutions for fire safety. Today and tomorrow

One area of focus within Research & Development has been to provide composite materials encompassing as much fire safety as possible from as far back as the 1980s. A new stage of development took place in the implementation of composite materials with a high standard of fire safety:

For this purpose, in 2015, the screen material Soltis Safe SK20 was presented for internal solar shading as well as in 2018, Stamisol Safe One was presented as the first Euroclass A2 façade breather membrane behind cladding.

The experience of more than a decade in the development of the most demanding glass fibre/elastomer composite materials for architectural and industrial applications made the use of this innovative technology now also possible for possible for façade membranes in Euroclass A2.

As one of the largest weaving mills for fibreglass fabrics, Serge Ferrari has extensive capacity for international product coverage and one of the world's most experienced teams to manufacture this hi-tech material.





For more than
40 years, Serge
Ferrari has
supported iconic
architecture in
the UK.

Photo credits

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Picture

Page 6

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Residential Building London

Corsham Street – Stephen
Marshall Architects – © Liz Eve /
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Office Building – © Serge Ferrari

Public Building CH-Baden –

Gassner + Rossini Architekten –

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Canada Water Library London

– CZWG Architects – © Serge

Ferrari

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niu Airporthotel Bremen –

Contractors: Peper & Söhne

Projekt GmbH – Architects:

Westphal Architekten BDA –

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Energiehaus Luzern – Architects:

Schärli Architekten, CH-Luzern -

Engineering and realisation:

BIPV-Anlagen BE Netz AG,

CH-Luzern – Façade installer:

Zihlmann AG, CH-Wolhusen –

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Dublin Airport Terminal 2 –

Textile ceiling – Architects: Pascall
+ Watson – © Serge Ferrari

Hennessy Bottling Factory France

– Euroclass A2 acoustic ceiling

– Architects: Sandrolini

Architecture – © Serge Ferrari

AIRBUS Group Campus 3 – Textile

façade – Architects Calvo Tran Van

– © Pascal Le Doaré

Markant Uden Theatre – Architec-

tuurstudio HH – © Serge Ferrari /

Buitink Technology

Phoenix Musical Plaza Chengdu,

China – Contractor: Sanxin –

© Serge Ferrari

Weaving Mill Serge Ferrari –

© Serge Ferrari

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London Aquatics Centre – Textile

façade and roofing of

grandstands – Zaha Hadid

Architects – © Andrew Wilkes

Wooldale Centre for Learning

– Canopies for walkways – Archi-

tects: BDP. – © Serge Ferrari

EXCEL Exhibition Centre London

– Canopies for walkways –

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Cuomo

Lords Cricket Ground – Stadium

roof – Architect: Michael Hopkins

– Engineer: Ove Arup – © Base

Structures Limited

London Olympic Stadium

– Stadium roof – Architects

Popoulos – © Andrew Wilkes

Lined area for notes on page 24.

Notes

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Lined area for notes on page 25.

Lined area for notes on page 26.

Notes

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Lined area for notes on page 27.

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Ref. CT 01046 / April 2021 / V1.4 • <http://communications.gmbh>