

SWISSPEARL

Building Boards





Swisspearl is a leading supplier of a range of high performance building boards for specialist applications that often cannot be met by commonly used gypsum or wood building boards.

Although largely unseen, these boards are among the most fundamental components of modern construction. Swisspearl boards have been used in many prestigious and large scale applications across a range of sectors.

With many years of manufacturing experience broad knowledge of building techniques and requirements Swisspearl is well placed to identify products to supplement it's range of specialist building boards to fulfil the requirements of designers installers and stockists

External or Internal

Swisspearl's range includes tough weather resistant boards such as Swisspearl Construction HD which can be left exposed as well as versatile Multi Force an ideal internal board which is hardwearing noncombustible and can be decorated Swisspearl Windstopper Extreme is a vapouropen sheathing board that can be left exposed for up to 12 months and will provide fire resistance of 90/90 mins.



Index

About Swisspearl

Material & Sustainability	2 – 3
Tradition & Strong Values	4 – 5

Products

External & Internal Use Diagrams	6 – 7
Swisspearl Windstopper Extreme	8 – 9
Swisspearl Windstopper Basic	10 – 11
Swisspearl Multi Force	12 – 13
Swisspearl Construction HD	14 – 15

Service

Warranty & Material properties	16
Advice	17

Respect for People and the Environment



Fascination with fibre cement – a highly resistant and durable building material

Fibre cement has long been an excellent material for design and construction due to its wet formability and exceptional strength when dry. Its durability and reliability are achieved through a precise material composition that is subject to constant research and further development. The production process is a combination of many years of experience in traditional manufacturing and innovative further developments based on the latest findings.



Our fibre cement consists of cement, pulp, water, plastic fibres and air. The combination of these ingredients results in a durable building material that is also lightweight compared to other cement materials. Holding the material reveals its homogeneous nature and surface quality. Its appearance highlights the unique character and natural texture.



Fibre cement is an extremely versatile material that can be used in a variety of ways. Optimally coordinated raw materials and a consistent inventive spirit form the recipe for success of a product that has remained on trend for over 100 years and has become an integral part of architecture.

Tradition and Innovation – We Build on Strong Values



As a Swiss family-owned company, we think in terms of generations and have been doing what we do best for decades: With curiosity, passion and commitment, we create innovative and durable fibre cement products for facades, roofs, interior finishing and gardens.

Today, the Swisspearl Group is headquartered in Niederurnen, in the heart of the Swiss Alps. One of the first production facilities for fibre cement was founded here in 1903. The success story of our fibre cement began in Vöcklabruck in 1894. The place where it was invented by Ludwig Hatschek.

Today, the traditional production process is combined with state-of-the-art technology. We are proud of our leading position in the innovation and technology of this material, which is used worldwide in the design of architecture and living spaces.

Swisspearl stands for Swiss quality – worldwide.



It is our goal to become the number one in the field of high-quality fibre cement. By always aiming that little bit higher, with a mindset that is always ahead of the game, and achievements that always go a little further than others on the market, we transform living spaces into dream homes.

However, there is much more to over 125 eventful financial years, namely pioneering spirit, expertise and the courage to break new ground – for a stable future.



Every step counts in construction projects. This also applies to manufacturers. Thanks to the long tradition behind our group of companies, experienced employees are able to produce high-quality fibre cement products from optimally coordinated raw materials with expertise, precision and craftsmanship. The interplay between tradition and innovation has made the use of fibre cement products possible in buildings all over the world for over 100 years.



External applications

	Sheathing	Roofline Soffits	Cladding	Off site panels and SIPS	Fascia, soffit, bargeboard, undercloak
Windstopper Extreme	✓	✓		✓	
Windstopper Basic	✓				
Construction HD		✓	✓	✓	✓

✓ Primary use



- 1 Construction HD
- 2 Windstopper
- 3 Multi Force

7

Internal applications

	Building fabric lining	Partitions	Ducting	Ceiling linings	Interior soffits	Fire rated systems
Multi Force	✓	✓	✓	✓		✓
Construction HD		✓			✓	

✓ Primary use

WINDSTOPPER EXTREME



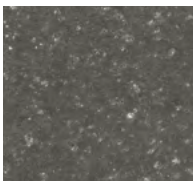
Windstopper Extreme is a breathable sheathing board with a 90/90 fire rating. The board's composition is designed to absorb and release moisture without affecting the durability, strength or performance of the board. Available in 2 thicknesses, 9mm and 4.5mm, the 4.5mm can be scored and snapped making for rapid, dust-free installation and is ideal as a temporary cladding.

Both thicknesses provide good acoustic insulation. Specially designed sealing tape (with 12 month UV stability) seals joints and edges providing complete weatherproofing of the building. When installed according to installation instructions, Windstopper Extreme will function as a temporary facade for up to 12 months.

Swisspearl Windstopper Extreme building boards are BBA approved and certified with the highest fire safety rating A1. Entirely non-combustible, they do not generate any smoke, flaming droplets or particles that could harm human health in case of fire. It is also resistant towards both rot and fungal growth and can withstand considerable fluctuations in weather and climate conditions.



Windstopper Extreme
Natural Grey



Windstopper Extreme
Anthracite

Technical data

Thickness (mm)	4.5	4.5	4.5*	9	9	9
Dimensions† (mm)	1200 x 2400	1200 x 2700	1200 x 3000	2400 x 1200	2700 x 1200	3000 x 1200
Average racking strength* (EN 594) kN	3.32 (fixings at edges/centre 200/ 300mm)			6.33 (fixings at edges/centre 100/ 150mm)		
Weight per sheet (kg)	22.18	24.95	27.72	39.17	44.06	48.96
Weight per m² (kg)	7.7	7.7	7.7	13.6	13.6	13.6
No. sheets per pallet	70	70	70	45	40	35
Bending strength (MPa)	17.5	17.5	17.5	13.2	13.2	13.2
Density (kg/m³)	1554	1554	1554	1375	1375	1375
Coefficient of thermal expansion (mm/m°C)	0.01	0.01	0.01	0.01	0.01	0.01
Fire rating A1	BS/IS EN 1364: 2015, EN 13501-1			EN 13501-2 K1 10 and K2 10		
Water absorbtion % by weight/48 hours	19.90 EN 12467			21.3 EN 12467		
Thermal conductivity K value (W/mK)	0.32					
Biological resistance	No growth					
Guarantee	15 years durability					
Accreditation	EN 12467: 2012 NT A1 I					

Installation

4.5mm thick can be scored and snapped requiring no dust extraction. 9.0mm thick cutting to size may be done with normal slow or fast-running hand tools or stationary equipment. When using fast running tools dust extraction must be employed. All Swisspearl boards may be cut with a circular saw or a jigsaw equipped with a diamond tipped blade. Sharp edges are made with fast-running diamond tipped tools. Cut edges should be bevelled with sand paper.

* Racking strength test board size 1200 x 2400mm

† Other sizes available to order based on minimum quantities

WINDSTOPPER BASIC



Swisspearl Windstopper Basic has a very low vapour transmission resistance, enabling moisture from inside the building to pass through. The unique manufacturing process does not include compressing, resulting in a naturally rough surface.

In consequence, insulation can be placed directly against the inner side of the board. The board is highly resistant towards both rot and fungal growth and can withstand considerable fluctuations in weather and climate conditions.

Windstopper Basic is a similar composition to Windstopper Extreme and can be used in similar applications but can only be left exposed for 6 months and its fire rating has been tested up to 60 minutes.



Windstopper Basic
Natural Grey

Technical data

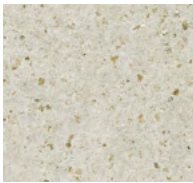
Thickness (mm)	9	9	9
Dimensions† (mm)	2400 x 1200	2700 x 1200	3000 x 1200
Weight per sheet (kg)	39.46	44.39	49.32
Weight per m² (kg)	13.7	13.7	13.7
No. sheets per pallet	45	40	35
Bending strength (MPa)	11	11	11
Density (kg/m³)	1450	1450	1450
Modulus of elasticity (GPa)	3	3	3
Fire rating A2-s1, d0	EN 13501-2 K1 10 and K2 10		
Water absorption % by weight/48 hours	21%	21%	21%
Thermal conductivity K value (W/mK)	0.34	0.34	0.34
Biological resistance	No growth		
Accreditation	NT D2 I		

MULTI FORCE



A fire rated Swisspearl Multi Force (FR) board is the ideal solution for heavy traffic and communal areas where a fire resistant structure is required.

The boards have a unique surface that is resistant to moisture and impact so it is therefore suitable for heavy duty use. The surface is easy to paint, treat with other finishes and is easy to clean. Swisspearl Multi Force boards are sound absorbent, non-combustible, and resistant to both rot and mould, making Swisspearl Multi Force a popular choice for use as partition walls and ceilings.



Multi Force

Technical data

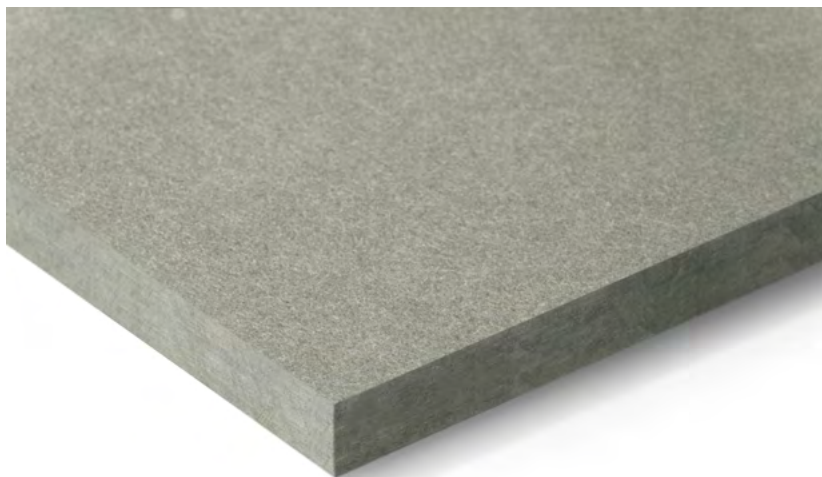
Thickness (mm)	9	12
Dimensions [†] (mm)	2550 x 1200	2550 x 1200
Average racking strength (EN 594) kN	(EN 594) kN 7.67 (fixings at edges/center 200/300m) per 1200x2400mm board. kN 8.28 (fixings at edges/centre 200/300m) per 1200x2400mm board.	
Weight per sheet (kg)	33.3	44.37
Weight per m ² (kg)	10.9	14.5
No. sheets per pallet	45	30
Bending strength (MPa)	10	10
Impact resistance	Can be used in easily accessible areas according to ETAG 034/ISO 7892	
Density (kg/m ³)	1150	1150
Modulus of elasticity (GPa)	4	4
Fire rating (EN 13501-1)	A1	A1
Water absorption % by weight/48 hours	EN 12467 32	EN 12467 32
Thermal conductivity K value (W/mK)	0.25	0.23
Biological resistance	No growth	
Guarantee	15 years durability	
Accreditation	EN 12467: 2012 NT C2 I	

Installation

Cutting to size with slow running (2000 rpm) circular saw. Sharp edges are made with fast running diamond tipped tool. Can support fixing of items such as shelves and cabinets without reinforcing.

[†] Other sizes available to order based on minimum quantities

CONSTRUCTION HD



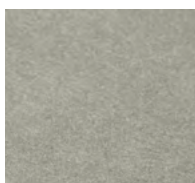
Swisspearl Construction HD is an uncoated, untreated, natural grey homogeneous fibre-cement cladding sheet with a cementitious appearance.

The sheets are durable, dimensionally stable, impact resistant and are easy to work with.

The material withstands extreme climates, resists rot and fungus, and is composed of natural materials. Swisspearl HD combines value for money with environmental awareness – ideal for contemporary building.

Swisspearl Construction HD can be used uncoated in exposed situations such as rainscreen claddings. It can also be used as a baseboard for decorative coatings or veneers and is tough enough to withstand impact, abrasion and even jet washing.

Swisspearl Construction HD is supplemented by a complete range of accessories to ensure simple, easy installation and can be used as a high quality building board, or as a part of a ventilated facade solution.



Construction HD

Technical data

Thickness (mm)	3.2	6	8	10
Dimensions (mm)	2440 x 1218	2500 x 1250	2500 x 1250	2500 x 1250
Weight per sheet (kg)	18.13	35.31	47.19	59.06
Weight per m ² (kg)	6.1	11.3	15.1	18.9
No. sheets per pallet	70	50	40	30
Bending strength (average MPa)	17	17	17	17
Density (kg/m ³)	1675	1675	1675	1675
Modulus of elasticity (GPa)	7	7	7	7
Fire rating	EN 13501 A2, s1-d0			
Water absorption % by weight/48 hours	EN 12467 12			
Thermal conductivity K value (W/mK)	0.48	0.48	0.48	0.48
Biological resistance	No growth			
Guarantee	A service life in-excess of 30 years			
Accreditation	EN 12467: 2012 NT A3 I			

Installation

Cutting to size may be done with normal, slow or fast-running hand tools, or stationary equipment. When using fast-running tools, dust extraction must be employed. All Swisspearl boards may be cut with a circular saw or a jigsaw equipped with a diamond tipped blade. Sharp edges are made with fast-running diamond tipped tools. Cut edges should be bevelled with sand paper.

Service

Warranty

Our products are manufactured to the highest quality standards. Production is subject to constant quality controls. This includes tests in third-party facilities, as well as in our in-house laboratories. If delivered products do not provide the specified performance, the warranty is valid, which covers the function of the panels and accessories. The warranty assumes that the instructions in the latest edition of the DIM - Design and Installation Manual have been followed.

Material properties

The printed colour shades shown may differ from the original colour shades. The sample panels should be used for the exact identification and colour coordination of neighbouring building parts. Fibre cement panels owe their unique character to natural ingredients, among other things. Slight variations between the different production batches can therefore not be ruled out.

Differences in texture and colour between the individual panels are a natural part of the production characteristics and underline the vibrant character of the facade effect. Such colour differences are not covered by the warranty.



We are here for you

With comprehensive consulting and service offers, we specifically address the needs of building owners, architects and planners in order to jointly develop qualified solutions. We support you with comprehensive expert advice, detailed documentation, technical manuals and the Swisspearl Architecture Magazine, which has become a renowned publication.

Our high-quality fibre cement products combine outstanding quality and durability to create solutions for aesthetic building envelopes and valuable living spaces. Our dedicated and competent employees are always there for you, your ideas and questions. We look forward to implementing joint projects.



Inspiration from the Swisspearl Architecture Magazine

Numerous construction projects are carried out with Swisspearl products around the world every year. Architecture can and must do a lot. Climate change and the importance of sustainable construction are a challenge for everyone involved in the planning and realisation of a building.

The building envelope of the future enables maximum energy efficiency. With the rear-ventilated facade made of fibre-cement panels, Swisspearl offers an environmentally-friendly building shell. In our Swisspearl Architecture Magazine, we present architecturally unique and outstanding construction projects around the globe every year.

Get inspired – [swisspearl.com](https://www.swisspearl.com)

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