Ampatex® Variano 3

Moisture-variable vapour check

Ampatex® Variano 3 extra

Moisture-variable vapour check, lattice-reinforced

Product information

1 **Ampatex® Variano 3**

2 **Ampatex® Variano 3 extra**

- Adhesive-friendly surface: Adhesive tapes adhere very well
- Printed cutting aid: Saves time
- 2,45 m s_d value at 70 % air humidity: Ideal for winter shell construction
- Ideal for the fully insulated flat roof in timber construction

Your additional advantages of Ampatex® Variano 3 extra with reinforced grid:

- High anti-tear values: Ideal for blow-in insulation
- Ideal for roof renovation from the outside thanks to high tensile strength and impact resistance

Area of application:

Perfectly suited for flat roofs in timber construction; also for renovating pitched roofs with a dense outer skin. The tape offers special protection when used on bare brickwork in winter. **Ampatex® Variano 3 extra:** ideal for injection insulation due to its high tear resistance.

Technical details		Variano 3	Variano 3 extra
s_d value		0,8 m – 60 m	0,8 m – 60 m
Weight		90 g/m²	110 g/m²
Tear-proof qualities	lengthwise crosswise	180 N/5 cm 125 N/5 cm	300 N/5 cm 250 N/5 cm
Elongation at break	lengthwise crosswise	≥ 68 % ≥ 79 %	20 % 20 %
Resistance to further tearing (nail shank)	lengthwise crosswise	125 N 110 N	200 N 220 N
Fire behaviour		E	E
Watertight at 2 kPa		standard met	standard met
Width of overlap		10 cm	10 cm
Straightness		< 75 mm/10 m	< 75 mm/10 m
Temperature resistance		–40 – +80 °C	–40 – +80 °C
Hydrosafe value of		2,45 m	2,45 m
Remains durable after artificial ageing		standard met	standard met
Shear resistance of joint seams		130 N	130 N

Delivery forms

Item no.	Identification	Roll dimensions	Pallet contents
7640115537041	Ampatex® Variano 3 with 60 m Ampacoll INT	1,5 m × 50 m = 75 m²	40 rolls = 3000 m²
7640115536815	Ampatex® Variano 3	1,5 m × 50 m = 75 m²	40 rolls = 3000 m²
7640115536983	Ampatex® Variano 3	3,0 m × 50 m = 150 m²	40 rolls = 6000 m²
7640442090578	Ampatex® Variano 3 extra with 60 m Ampacoll® INT	1,5 m × 50 m = 75 m²	40 rolls = 3000 m²
7640442090431	Ampatex® Variano 3 extra	1,5 m × 50 m = 75 m²	40 rolls = 3000 m²

20-YEAR PREMIUM WARRANTY*

ISO 9001 Swiss Research

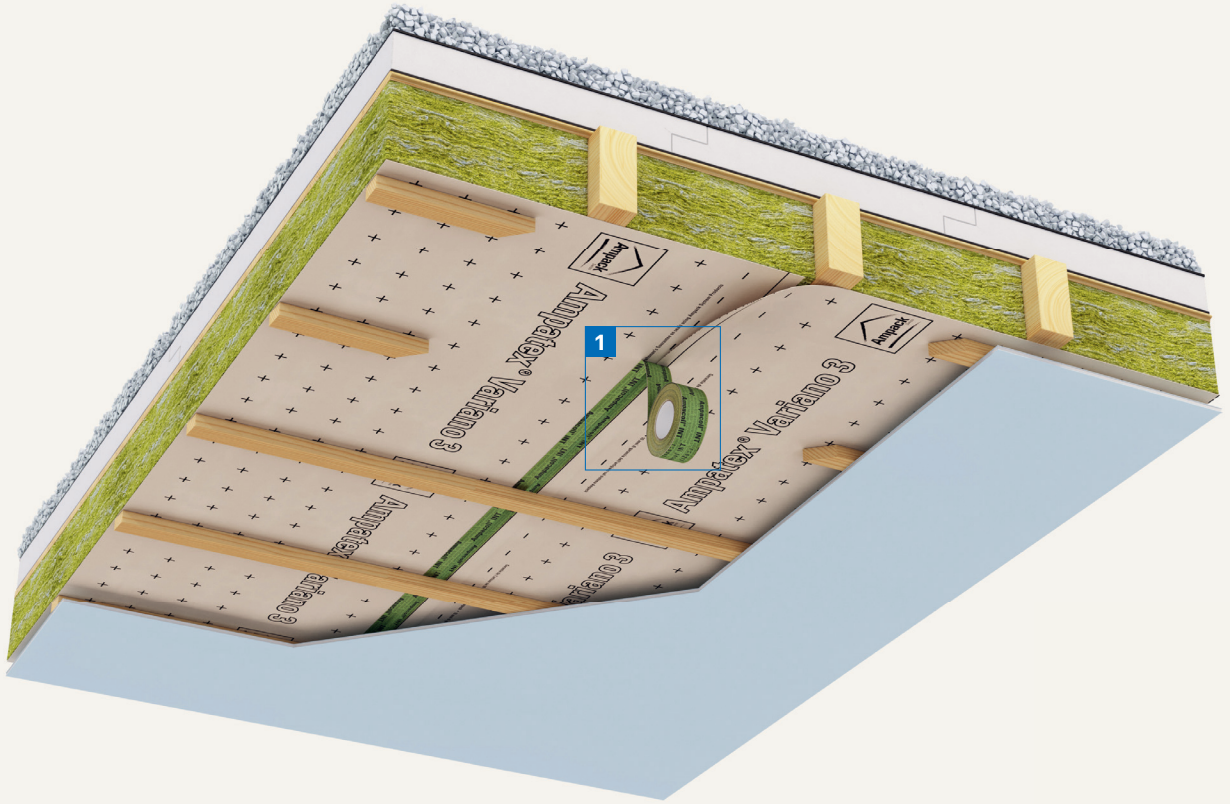
ÉMISSIONS DANS L'AIR INTÉRIEUR A+

ECO INSTITUT TESTED PRODUCT

CE 13984

* Conditions for the twenty-year premium warranty include registering the building object and the Ampack products used. In addition, our products must be used as part of a system. For further details, please see our General Warranty Conditions.

Ideally suited to flat roofing in timber constructions



In contrast to conventional vapour checks, moisture-variable vapour checks have a variable s_d value

In contrast to conventional vapour seals, variable-diffusion vapour seals have variable diffusion resistance, which adjusts to the moisture in the environment. In the case of a high relative level of air humidity – e.g. in summer – the s_d value reduces and the vapour seal becomes more vapour-permeable. In the case of a low relative level of air humidity – e.g. in winter – the s_d value rises and the vapour seal becomes less vapour-permeable.

In specific terms, the change in the s_d value means that a building with unintended damp permeation for example, can dry out inwards over a longer period of time and given the right conditions. This prevents damage occurring to the building.

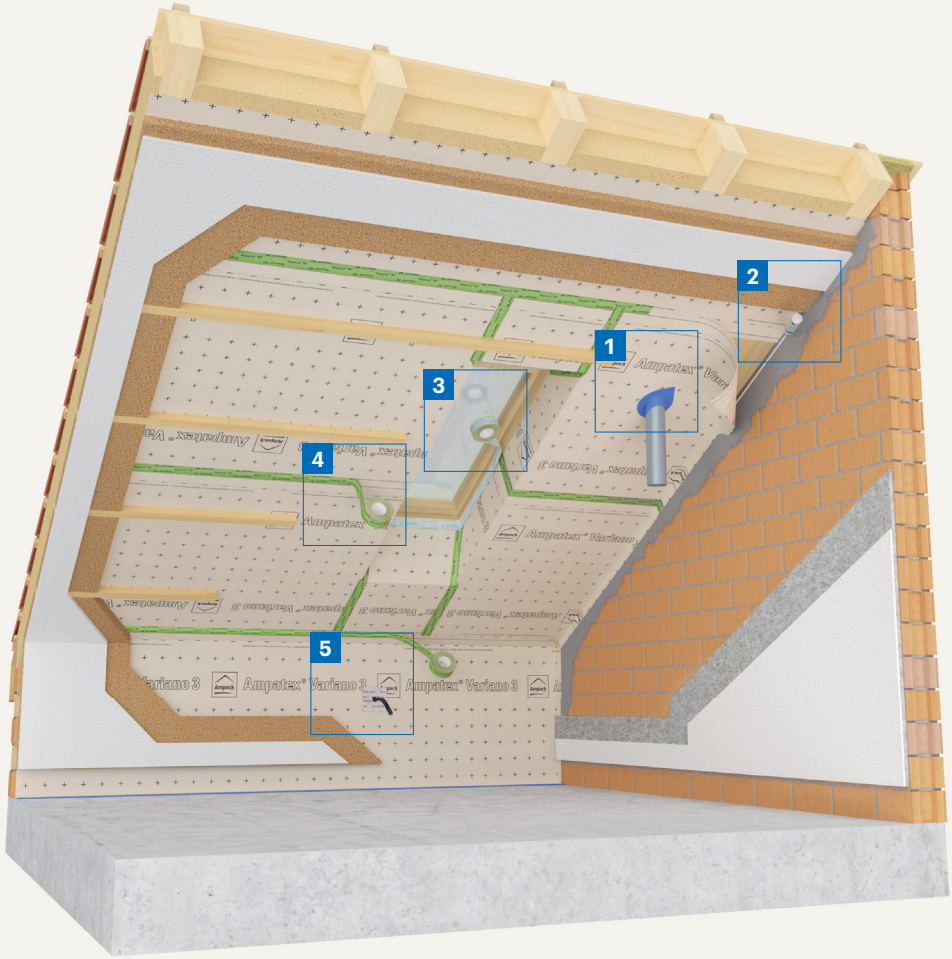
Flat roofs and roofs with diffusion-preventive outer layers without functional rear ventilation are susceptible to damage resulting from convection. A moisture-variable vapour check provides optimum protection in roof constructions where moisture levels are critical. Thebigger the range between the lowest and highest s_d value of the vapour check, the more adaptable it is to climate, varying weather conditions and the different seasons.

1

Ampacoll® INT
Acrylic adhesive tape

internal

Ideal for renovation of pitched roofs with watertight outer layer



Ampatex® Variano 3 extra:
ideal for injection insulation due to its high tear resistance.

Large absolute range protects effectively even under extreme conditions in terms of moisture and climate

Ampack has developed a next-generation moisture-variable vapour check to provide an optimum solution that meets the demands of building physicists in terms of airtight layers. What's special about it: The new **Ampatex® Variano 3 (extra)** has the extremely wide absolute s_d value range of 0.8 to 60 metres. This means that the vapour check can also be used in extreme weather conditions and extreme damp, thus providing an optimum level of protection for buildings in which moisture levels are critical, and effectively preventing convection-related damage. Moreover, the lower s_d value of the new vapour check is comparatively high, at 0.8 metres. This makes the vapour check a more reliable option for use in building shells in winter. For constructions with a constantly high level of humidity (>60%) – such as saunas, hotel kitchens and indoor swimming pools – the use of a variable-diffusion vapour seal is not permitted.

1

Ampacoll® BK 535
Butyl rubber tape
external internal

2

Ampacoll® RA
Liquid adhesive
internal

3

Ampacoll® FE
Window installation tape
internal

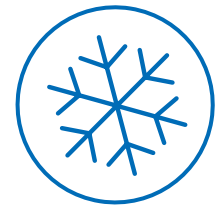
4

Ampacoll® INT
Acrylic adhesive tape
internal

5

Ampacoll® Elektro/Install:
Prefabricated sleeves
external internal

Protection for building shells in winter



The following special factors and phenomena should be taken into account when working with vapour checks and airtight layers during the winter months:

Where there is insufficient ventilation: “cool steam room”

During the winter months a damp micro climate develops in the interior of buildings, in particular in conventional masonry and concrete buildings, that quickly turns into a “cool steam room” if thereis insufficient ventilation.

Absorption of moisture resulting from storage on the construction site

A long period of storage of thermal insulation materials or materials for the airtight layer (including the necessary adhesives) is not permitted on construction sites.

Low temperatures

The working temperature stated by the manufacturer must be observed. This applies to the material used, the ambient temperature and also, of course, to the base surface.

Condensation on the outer side of the vapour check membrane or airtight layer

During construction, the building may have been subject to significant condensation. This is entirely natural if the lower floors are made of brick or concrete and a timber construction with thermal insulation is only used in the roof space. Such moisture comes from the interior of the building and precipitates on the outer side of the airtight layer as condensation. Generally speaking, this has nothing to do with the barrier effect of the installed membrane.

Dry heating of building components or buildings, and ventilation

Once the windows and doors have been fitted, heating a building in winter can lead to extremely high levels of humidity in the building, especially where there is incorrect and insufficient ventilation alongside the heating.

Special characteristics of moisture-variable membranes

The above information on drying building shells applies in principle regardless of whether a vapour check with a fixed or variable s_d-value was laid in the building Correct heating and ventilation are essential here. In a “dripping wet” shell, membranes with a moisture-variable s_d value cannot fulfil their moisture-prevention function for the construction. Permanent air humidity of over 70 % during the construction phase is unacceptable. Once the building is in use, short peaks in air moisture content in the kitchen or wet rooms are not a problem.

Saddle-point effect of Ampatex® Variano 3 (extra):

Ampatex® Variano 3 (extra) has an s_d value of 2.45 m at 70 % humidity. The membrane therefore offers excellent protection against excessive moisture ingress during construction.

The building shell experts. Since 1946.

4135EU/EX.YFO(AR)0224

Ampack IRE Ltd
Unit 36 Glenrock Business Park,
Bóthar Na Mine,
Galway, H91 AY28, IE
P +353 91 394 467
ampack@ampack.ie
www.ampack.biz

Ampack AG
Seebleichestrasse 50
CH-9401 Rorschach
T +41 71 858 38 00
ampack@ampack.ch
www.ampack.biz

@ampacken