

## DANOPOL FV 1.2

Danopol FV 1.2 is a synthetic PVC plasticized membrane, reinforced with Fibre glass mat. Designed for flat roof waterproofing, U.V. resistant.



### TECHNICAL DATA

Characteristics	Declared Value	Unit	Norm
External fire performance	Broof(t3)-Broof(t1)	-	EN 13501-5
Reaction to fire	E	-	EN 13501-1
Longitudinal & transversal tensile strength	> 10	Mpa	-
Longitudinal & transversal tensile strength	> 620	N/50mm	EN 12311-2 Método A
Longitudinal tear strength	> 200	%	EN 12311-2 Método A
Transversal tear strength	> 200	%	EN 12311-2 Método A
Longitudinal resistance to tearing (nail shank)	> 160	N	EN 12310-2
Transversal resistance to tearing (nail shank)	> 160	N	EN 12310-2
Overlaps resistance (Peeling of overlap)	> 250	N/50mm	EN 12316-2
Overlaps resistance (Shear of overlaps)	> 500	N/50mm	EN 12317-2
Resistance to impact	> 500	mm	EN 12691
Resistance to static loading	> 50	Kg	EN 12730 Método B
Flexibility at low temperature	< -30	°C	EN 495-5
Resistance to root penetration	Pasa	Pasa/No Pasa	EN 13948
Humidity resistance factor	20.000 ± 30%	(m <sup>2</sup> .s.Pa)/Kg	EN 1931
Watertightness	Pasa	Pasa/No Pasa	EN 1928 (B)

Pasa = Positive or correct No pasa = Negative PND = No performance determined - = Not necessary

### ADDITIONAL TECHNICAL DATA

ADDITIONAL DATA	Declared Value	Unit	Norm
Straightness	< 50	mm	EN 1848-2
Flatness	< 10	mm	EN 1848-2
Visible defects	Pasa	Pasa/No Pasa	EN 1850-2
Length	20	m	EN 1848-2
Width	178	cm	EN 1848-2
Nominal minimum thickness	1.2 (-5%; +10%)	mm	EN 1849-2
Mass	1.6 (-5%; +10%)	kg/m <sup>2</sup>	EN 1849-2
Longitudinal & transversal dimensional stability	< 0.09	%	EN 1107-2
Loss of plasticizers (mass change at 30 days)	< 4.5	%	EN ISO 177
Tear strength (UV 5000 h)	< 10	%	EN 1297, EN 12311-2
Static puncture resistance	> 1200	N	UNE 104416 (b)

### STANDARDS & CERTIFICATION

Membrane Danopol FV 1.2, complies with UNE-EN 13 956.

Membrane Danopol FV 1.2 , meets CE requirements.

Membrane Danopol FV 1.2 , complies with UNE-EN 104 416.

Membrane Danopol FV 1.2 , meets the requirements of the Technical Building Code (CTE).

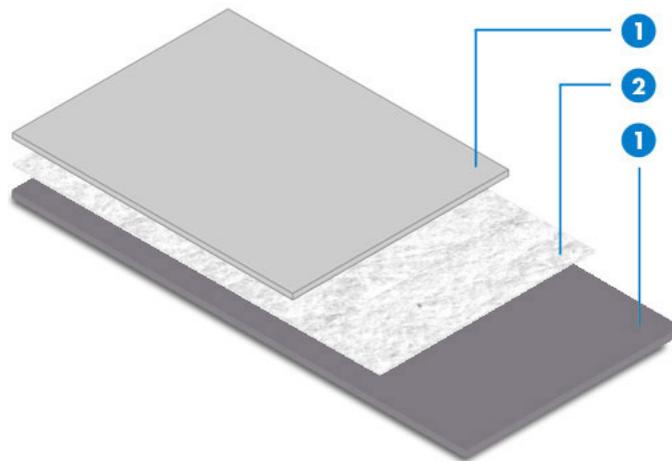
Membrane Danopol FV 1.2, has zero slope DIT for zero slope DANOPOL No. 551/10 .

### SCOPE

- Used for walking roofs waterproofing on conventional support (concret, slabs, etc) of residential buildings and areas with pedestrian traffic.
- Used for non walking flat roofs waterproofing, (only visitable for maintenance works).
- Used for waterproofing of greens roofs (intensive or extensive) in any kind of buildings

## PRESENTATION

PRESENTATION	VALUE	UNIT
Reinforcement type	Glass fibre mat	-
Thickness	1.2	mm
Width	1.80	m
Length	20	m
Roll surface	35.6	m <sup>2</sup>
Color	Light grey	-
Product Code	210027	-



1. Plasticized PVC
2. Fibre glass mat

## ADVANTAGES AND BENEFITS

### ADVANTAGES:

- High dimensional stability.
- High tensile strength

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High puncture resistance - Very good resistance to micro-organisms, putrefaction, mechanical impact, root penetration, natural aging, weathering, UV radiation and swollen.

- Excellent flexibility

### BENEFITS:

- Limit strains and tensions in the waterproofing membrane due to the high temperatures and temperature changes to which will see under flat roofs.
- Absorbs While structural movements.
- Presents antipunzonante good protection against mechanical damage, arising from the casual pedestrian own flat roofs.
- Very high durability with respect to possible degradation due to causes such as chemical.
- High capacity to adapt to the different forms of support.

## INSTRUCTION FOR USE

### Substrate preparation:

- - The base support surface must be durable, uniform, smooth, be clean, dry and free from foreign bodies.
- As a separating layer or protective polyester geotextiles are used, type Danofelt PY 300 or higher.

### Placement waterproofing layer:

- Danopol FV 1.2 can be welded by hot air or by chemical THF bonding (Tetrahydrofuran)

## INDICATIONS AND IMPORTANT RECOMMENDATIONS

- Make sure the chemical compatibility of Danopol FV 1.2 with other materials.
- Weldability and weld quality depends on atmospheric conditions (temperature, humidity), welding conditions (temperature, velocity, pressure, cleanliness) and by the state of the membrane surface (cleanliness, humidity). Therefore must meet the hot air machine for the correct assembling
- Should be made a strict control of the welds, once the surface has cooled by a punch.
  
- This product is part of a waterproofing system, so you should take into account all the documents referenced by Danosa Solutions Manual and all rules and mandatory law in this regard.
- Special attention should be paid to the implementation of the singular points.

## HANDLING, STORAGE AND CONSERVATION

- Danopol FV 1.2 is not toxic or flammable.
- Danopol FV 1.2 is stored in a dry place protected from rain, sun, heat and low temperatures. Be kept in its original packaging, horizontal and parallel all the film (never crossed) on a support level and smooth.
- Danopol FV 1.2 will be used first come to work.
- Danopol FV 1.2 is easy to cut to adapt the size to work.
- No waterproofing works should be performed when weather conditions may be harmful, particularly when it is snowing or there is snow or ice on the deck when the cover is rain or wet surface moisture > 8% according QAT NTE or strong wind.
- No waterproofing works should be performed when the ambient temperature is less than - 5 ° C for hot air welding.
- In all cases, be taken into account Health and Safety standards at work and the rules of good construction practice.
- Danosa should consult the MSDS for this product is [www.danosa.com](http://www.danosa.com) permanently available, or can be obtained by writing to our Technical Department.
- For any further clarification, please contact our Technical Department.

## WARNING

The information that appears in the following document makes reference to the uses and utilities of danosa's products and systems, and it is based on the knowledge that have been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Danosa is not responsible for unsuitable uses of the products neither any other facts, such as meteorological facts. So Danosa is just responsible for the quality related to the provided products. Danosa reserves the right to carry out modifications without previous notice.

The values that appear in the technical sheet are the results of the tests that have been performed in our laboratory. July 2008.

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