

VILLAS I-333

1. Product trade name: Bitumen damp proof sheet VILLAS I-333

2. Technical specification:

PN-EN 13969:2006 + PN-EN 13969:2006/A1:2007 IDT. EN 13969:2004 + EN 13969:2004/A1:2006
Flexible sheets for waterproofing – Bitumen damp proof sheets including bitumen basement
tanking sheets – Definitions and characteristics

3. Manufacturer: VILLAS Polska, Sp. z o.o. 90-060 Łódź ul. Nawrot 4, Poland

4. Description of the product:

type A, damp proof sheet with cardboard reinforcement, cardboard impregnated with bitumen

5. Type of application: used on or under floors or ground slabs or in walls to prevent liquid water not under hydrostatic pressure passing from the ground into the internal environment.

6. Method of application: with bitumen glue

7. Information for users:

Conditions of application:

the sheet should be applied when the temperature does not fall below + 5 °C. It should not be applied: on a wet, during rain or snow falls or during strong wind.

Conditions of usage:

damp proofing made with the use of VILLAS I-333 should be done according to a technical project complying with binding building regulations and detailed guidelines included in the manual issued by the producer.

Storage:

the rolls should be stored in rooms and should be protected against moisture and exposure to sunlight or source of heat. The rolls should be stored on an even surface in upright position, in one layer.

Transport:

the rolls should be transported in covered trucks, in upright position in one layer, protected against falling over and any other damage. Rolls should be placed in a way preventing their dislocation during transport.

Product Data Sheet

No.: 9/V/2011eng rev.6

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Page:2/2

8. Product performance:

	Characteristic		Test method/ Classification	Units	Value or statement
1.	Visible defects		EN 1850-1	-----	no visible defects
2.	Length (*)		EN 1848-1	m	≥ 20,0
3.	Width (*)		EN 1848-1	m	≥ 1,0
4.	Straightness		EN 1848-1	-----	deviation: ≤ 20 mm / 10 m or proportional for other lengths
5.	Mass		EN 1849-1	kg/m ²	0,50 ± 0,10
6.	Watertightness		EN 1928 Method B	-----	resistant to 2 kPa
7.	Durability	Watertightness after artificial ageing	EN 1296 EN 1928 Method B	-----	resistant to 2 kPa
		Chemical resistance	-----	-----	according to Annex A; EN 13969
8.	Reaction to fire		EN 13501-1	-----	NPD
9.	Joint strength -longitudinal direction, -transverse direction		EN 12311-1	N/50 mm	250 ± 100 350 ± 100
10.	Tensile properties: maximum tensile strength -longitudinal direction, -transverse direction		EN 12311-1	N/50 mm	450 ± 100 300 ± 100
11.	Tensile properties: elongation -longitudinal direction, -transverse direction		EN 12310-1	%	3 ± 1,5 3 ± 1,5
12.	Resistance to tearing (nail shrank) -longitudinal direction, -transverse direction		EN 12730 Method B	N	40 ± 10 40 ± 10
13.	Resistance to static loading		EN 12691 Method A	kg	NPD
14.	Resistance to impact		EN 12317-1	mm	NPD
15.	Flexibility at low temperature		EN 1109	°C	0 /Ø30 mm

(*) there is a possibility to produce the sheet of different length and/or width on condition that the length and/ or width specified in tests is not lower than declared