

**Product Data Sheet**

No.: 14/V/2013eng rev.3

Date: 17.01.2018

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**VILLAS Polska, Sp. z o.o.****VILLAS Economic P-PYE PV250 S40**

**1. Product trade name:** Base bitumen sheet VILLAS Economic P-PYE PV250 S40

**2. Technical specification:**

PN-EN 13707 + A2:2012 IDT. EN 13707:2004 + A2:2009

Flexible sheets for waterproofing – Reinforced bitumen sheets for roof waterproofing –  
Definitions and characteristics

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:**

sheet with polyester fleece reinforced and stabilized with glass mesh, coated with SBS modified bitumen with mineral filler, top side is finished with sand, bottom side is profiled in order to achieve the guarantee of firm and safe bonding, and finished with foil.

**5. Type of application:** base layer, for multilayer applications in roof waterproofing and, as Type T for damp proof insulations in wall constructions or on or under floors or ground slabs to prevent liquid water under hydrostatic pressure passing from the ground into the internal environment or from one section of the structure to another.

**6. Method of application:** torch applied or mechanically fastened

**7. Information for users:**

Conditions of application:

the sheet should be applied when the temperature does not fall below 0 °C. It should not be applied: on a wet roof surface, on a roof covered with ice, during rain or snow falls or during strong wind.

Conditions of usage:

waterproofing or damp proofing made with the use of VILLAS Economic P-PYE PV250 S40 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.

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**8. Product performance:**

	<b>Characteristic</b>		<b>Test method/ Classification</b>	<b>Units</b>	<b>Value or statement</b>
1.	Visible defects		EN 1850-1	-----	no visible defects
2.	Length (*)		EN 1848-1	m	≥ 7,5
3.	Width (*)		EN 1848-1	m	≥ 0,99 (1,00 ± 0,01)
4.	Straightness		EN 1848-1	-----	deviation: ≤15 mm / 7,5 m or proportional for other lengths
5.	Thickness		EN 1849-1	mm	4,0 ± 15%
6.	Watertightness		EN 1928 Method B	-----	resistant to 60 kPa
7.	Durability	Watertightness after artificial ageing	EN 1296 EN 1928 Method B	-----	resistant to 60 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 12317-1	N/50 mm	700 ± 200 1000 ± 200
10.	Tensile properties: maximum tensile strength -longitudinal direction, -transverse direction		EN 12311-1	N/50 mm	1000 ± 200 700 ± 200
11.	Tensile properties: elongation -longitudinal direction, -transverse direction		EN 12311-1	%	8 ± 5 8 ± 5
12.	Resistance to tearing (nail shrank) -longitudinal direction, -transverse direction		EN 12310-1	N	250 ± 100 250 ± 100
13.	Resistance to impact		EN 12691 Method A Method B	mm	1250 NPD
14.	Resistance to static loading		EN 12730 Method B	kg	20
15.	Flexibility at low temperature		EN 1109	°C	-5 / Ø30 mm
16.	Flow resistance at elevated temperature		EN 1110	°C	80
17.	Water vapour transmission properties		EN 13707	-----	μ=20 000

(\*) 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