

Product Data Sheet

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VILLAS Polska, Sp. z o.o.

VILLAS W / PET-SBS

1. Product trade name: Top bitumen sheet VILLAS W / PET-SBS

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

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

4. Description of the product:

sheet with reinforced polyester fleece reinforcement, coated with modified bitumen with mineral filler, top side is finished with slate and with ca. 100 mm sand selvedge, bottom side is finished with sand or with plastic foil.

5. Type of application: top layer, for multilayer applications in roof waterproofing

6. Method of application: with bitumen glue or mechanically: roofing nails, screws, etc.

7. Information for users:

Conditions of application:

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 made with the use of VILLAS W / PET-SBS 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:

| | Characteristic | Test method/ Classification | Units | Value or statement |
|-----|--|--|--------------|--|
| 1. | Visible defects | EN 1850-1 | ----- | no visible defects |
| 2. | Length (*) | EN 1848-1 | m | ≥ 15 |
| 3. | Width (*) | EN 1848-1 | m | ≥ 0,99 (1,00 ± 0,01) |
| 4. | Straightness | EN 1848-1 | ----- | deviation: ≤ 30 mm / 15 m or proportional for other lengths |
| 5. | Thickness | EN 1849-1 | mm | 2,2 ± 0,2 |
| 6. | Watertightness | EN 1928 Method A | ----- | resistant to 10 kPa |
| 7. | Reaction to fire | EN 13501-1 | ----- | NPD |
| 8. | Tensile properties: maximum tensile strength -longitudinal direction, -transverse direction | EN 12311-1 | N/50 mm | 450 ± 150 350 ± 150 |
| 9. | Tensile properties: elongation -longitudinal direction -transverse direction | EN 12311-1 | % | 30 ± 15 35 ± 15 |
| 10 | Resistance to tearing (nail shrank) -longitudinal direction, -transverse direction | EN 12310-1 | N | 230 ± 50 230 ± 50 |
| 11 | Dimensional stability | EN 1107-1 Method A | % | < 0,2 |
| 12. | Flexibility at low temperature | EN 1109 | °C | - 15 /Ø30 mm |
| 13. | Flow resistance at elevated temperature | EN 1110 | °C | 85 |
| 14. | Artificial ageing by long term exposure to elevated temperature | EN 1110 EN 1296 | °C | 100 ± 10 |
| 15. | Adhesion of granules | EN 12039 | % | 20 ± 10 |
| 16. | 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