

Product data sheet

No: IT- 8/2012/eng rev.4

Date: 20.02.2017

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Icopal Sp. z o.o.
98-220 Zduńska Wola
ul. Łaska 169/197
Poland**Graviflex 4,2 SBS / Green Roof**

1. Product trade name: Bitumen sheet Graviflex 4,2 SBS / Green Roof

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: ICOPAL Sp. z o.o., 98-220 Zduńska Wola ul. Łaska 169/197, Poland

4. Description of the product:

sheet with polyester fleece reinforcement, coated with bitumen layer: SBS modified bitumen with
mineral filler, with additives protected against the root plant overgrowth.Top side is finished with slate and with ca. 80 mm foil selvedge, bottom side is profiled and finished
with foil.

The sheet is produced on the basis of "SPEED PROFILE" technology.

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

Sheet is resistant to root overgrowth.

6. Method of application: torch applied.

7. Information for users:

Conditions of application:

the roofing sheet should be applied on a roof 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 made with the use of Graviflex 4,2 SBS / Green Roof 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	≥ 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	4,2 ± 0,2
6.	Watertightness	EN 1928 Method B	----	resistant to 150 kPa
7.	Reaction to fire	EN 13501-1	----	Class E
8.	Joint strength -longitudinal direction, -transverse direction	EN 12317-1	N/50 mm	700 ± 200 900 ± 200
9.	Tensile properties: maximum tensile strength -longitudinal direction, -transverse direction	EN 12311-1	N/50 mm	950 ± 200 700 ± 200
10.	Tensile properties: elongation -longitudinal direction, -transverse direction	EN 12311-1	%	50 ± 10 50 ± 10
11.	Resistance to impact	EN 12691 Method A Method B	mm	1250 2500
12.	Resistance to static loading	EN 12730 Method B	kg	20
13.	Flexibility at low temperature	EN 1109	°C	- 20 /Ø30 mm
14.	Flow resistance at elevated temperature	EN 1110	°C	100
15.	Dimensional stability	EN 1107-1 Method A	%	≤ 0,5
16.	Resistance to root penetration	EN 13948	----	resistant
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