

Technical Commercial Data Sheet

SyntoDefense

Tri-layer breathable membrane for roofing with protection from insects and birds



Dimensional features

Length	50 m - 1% (UNI EN 1848-1)	Tol. ≥
Width	1,5 m - 1% (UNI EN 1848-1)	Tol. ≥
Thickness	0,7 mm (EN 1849-2)	Tol. ± 15%
Weight/ m2	150 g (UNI EN 1849-1)	Tol. ± 5%

**ANTI
MOSQUITO**
Certificate

**ANTI
MILDEW**
Certificate

**ANTI
BACTERIA**
Certificate

**SKIN
FRIENDLY**
Certificate

Description

SYNTODEFENSE is a tri-layer sheet composed of breathable membrane coated on both sides with polypropylene film. SYNTODEFENSE is breathable to water vapor and at the same time waterproof.

Furthermore, SYNTODEFENSE is able to give additional protection being:

- ✓ Anti-mosquitos
- ✓ Anti-insects
- ✓ Anti-bacteria
- ✓ Anti-mould
- ✓ Anti-acarus
- ✓ Limit to nests of winged animals.

SYNTODEFENSE is an extra protection for the occupants of the dwelling, being able to repel insects (mosquitoes, but also bees, wasps and similar) and to avoid nesting, also limiting the presence of birds in ventilated roofs.

SYNTODEFENSE is a further protection for the roof, thanks to a lifetime treatment that retains the properties of breathable membrane. It is an organic product that uses nanotechnology, biodegradable up to 98%, which does not emit volatile or harmful substances to human health, which does not contain metal, non-allergenic to humans and pets. It is a high UV resistance membrane which extends the life of the tissues, preventing bacterial degradation.

Application

SYNTODEFENSE is suitable for dry application or by nailing.

Recommended uses

SYNTODEFENSE is a protective under tile layer in pitched ventilated and non-ventilated roofs either made of wood, concrete or bricks.

Storage

Keep the rolls away from direct sunlight and at a temperature not less than +5 ° C. Keep the rolls in a vertical position. Avoid, if possible, the superimposition of the pallets. It is recommended to use the product within 2/3 months after delivery.

TYPE	REINFORCEMENT	WEIGHT/m ²	m ² PER PALLET
SYNTODEFENSE	Polyethylene	150 g	1500

CODE: STCBE 138
REVISION: 01
DATE: JUNE 2014
PAGE: 1/2



LIGNIUS
PARTNER

Associazione Nazionale Italiana
Case Prefabbricate in Legno



ISOVER
SAINT-GOBAIN

Saint-Gobain PPC Italia S.p.A. – Brand Isover
Headquarters: Via Ettore Romagnoli, 6 – 20146 Milano
Bituver Plant: Via G. Pastore, 15 - 66013 Chieti Scalo (CH) - Tel. 0871/588021 - Fax 0871/ 552483
www.bituver.it/en

Technical Commercial Data Sheet

SyntoDefense

SPECIAL CERTIFICATIONS	Repellence against mosquitos	HHL Technology. Test report no. HHL /QUAL/TE11024
	SKIN FRIENDLY	Hohenstein Laboratories GmbH & Co. KG. Test report no.13.8.5.0032
	Antibacterial activity	Hohenstein Laboratories GmbH & Co. KG. Test report no.13.8.3.0108/2
	Anti-mycotic activity (fungi)	Hohenstein Laboratories GmbH & Co. KG. Test report no.13.8.3.0108/4

Features	Norm	SyntoDefense	TOLERANCE
Straightness	UNI EN 1848-1	10 mm / 10 m	≤
Watertightness	EN 1928 (method A)	Class W1	-
Waterproofness	EN 20811	4 (average value) Minimum value 2	-
Vapour transmission property	EN 13859-1	WDD: 850 g/m ² X 24h Sd=0,02 M 23 °C 93/50% UR WDD: 2080 g/m ² X 24h Sd=0,02 M 38 °C 93/50% UR	± 15 %
Cold flexibility	UNI EN 1109	-40° C	≤
Tensile strength at breaking L/T	UNI EN 12311-1	300/230 N/5 cm	- 20 %
Tear resistance (B method) L/T	UNI EN 12310-1	160/180 N	± 15 %
Elongation at breaking L/T	UNI EN 12311-1	85/75 %	± 10 a. v.
L dimensional stability	UNI EN 1107	-0,8 %	≥
Fire reaction	EN 13501-1	NPD	-
Resistance to water penetration after exposure to chemical agents artificial ageing	App. C EN 13859-1	Class W1 99% / 99% (% residual)	-
Vapour permeability after exposure to chemical agents artificial ageing	UNI EN 1931 UNI EN 1296/ UNI EN 1847	NPD	-
Water permeability	EN 13859-1	0,3 m ³ / hm ²	<
Fire reaction	EN 13859-1* *Product on wooden support	E	-
UV resistance		4 months	
Uses		Under tile	-

The Saint-Gobain PPC Italia S.p.A. quality system is certified according to EN ISO 9001.
The products foresee proper application and storage modalities.

Saint Gobain PPC Italia has the right to change the technical data of this data sheet any time with no need of notice.



Isover Saint-Gobain
è socio ordinario
del GBC Italia

LIGNIUS
PARTNER

Associazione Nazionale Italiana
Case Prefabbricate in Legno

CODE: STCBE 138
REVISION: 02
DATE: april 2016
PAGE: 2/2



Saint-Gobain PPC Italia S.p.A. – Brand Isover
Headquarters: Via Ettore Romagnoli, 6 – 20146 Milano
Bituver Plant: Via G. Pastore, 15 - 66013 Chieti Scalo (CH) - Tel. 0871/588021 - Fax 0871/ 552483
www.bituver.it/en

ISOVER
SAINT-GOBAIN