



SILBONIT FP are asbestos free double pressed and autoclaved flat boards. They are reinforced with mineralized cellulose fibers and through colored, with smoothed surface and rectified edges. **SILBONIT FP** boards are CE marked according to EN 12467.
 Technical Data Sheet (rev.3 del 09/03/2022)

SILBONIT FP NATURALE (untreated boards)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*– (untreated sheets)	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification – untreated sheets– treated sheets	According to EN 12467:2018	class 4
CE marked product according to	---	EN12467

** On request are available smaller dimensions.

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SILBONIT FP HYDRO (transparent hydrophobic treatment)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10 ⁻⁶
- transversal	1/°C	0,58•10 ⁻⁶
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 4
CE marked product according to	---	EN12467

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SILBONIT FP HYDROPLUS (transparent hydrophobic treatment)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 4
CE marked product according to	---	EN12467

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 Technical Data Sheet (rev.3 del 09/03/2022)

SILBONIT FP CRYSTAL (Anti-graffiti transparent acrylic treatment)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10 ⁻⁶
- transversal	1/°C	0,58•10 ⁻⁶
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 4
Wet-scrub resistance and cleanability of coatings treatment Crystal	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
CE marked product according to	---	EN12467

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 Technical Data Sheet (rev.2 del 09/03/2022)

SILBONIT FP SPECTRA (Coloured acrylic treatment)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification – untreated sheets– treated sheets	According to EN 12467:2018	class 4
CE marked product according to	---	EN12467

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 Technical Data Sheet (rev.2 del 09/03/2022)

SILBONIT FP PIGMENTA (Anti-graffiti coloured acrylic treatment)

* wet over dry	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3
- transversal	mm/m	1,0



* wet over dry	Unit of measure	Value
THERMAL AND WATER VAPOUR PROPERTIES		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10 ⁻⁶
- transversal	1/°C	0,58•10 ⁻⁶
OTHER PROPERTIES		
Superior calorific power (through colored)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification – untreated sheets– treated sheets	According to EN 12467:2018	class 4
Wet-scrub resistance and cleanability of coatings treatment Pigmenta	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
CE marked product according to	---	EN12467

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Technical Data Sheet (rev.0 del 09/03/2022)

SILBONIT FP FANCY MATT

(Printed with inorganic inks and protected with transparent matt anti-graffiti acrylic painting)

* wet over dry

	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3



* wet over dry	Unit of measure	Value
- transversal	mm/m	1,0
THERMAL AND WATER VAPOUR PROPERTIES (untreated boards)		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power (through coloured)	MJ/kg	1,0
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 4
Determination of wet-scrub resistance and cleanability of coatings in according to standard UNI EN ISO 11998:2006 and classification in according to standard UNI EN 13300:2002	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
CE marked product according to	---	EN12467

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Technical Data Sheet (rev.0 del 09/03/2022)

SILBONIT FP FANCY GLOSSY

(Printed with inorganic inks and protected with transparent glossy anti-graffiti acrylic painting)

* wet over dry

	Unit of measure	Value
STANDARD DIMENSIONS** AND GEOMETRY		
Length	mm	2500 3000 3050
Width	mm	1200 1250
Thickness		5-6-8-10-12
Tolerances on nominal dimensions	Classification according to EN 12467:2018	Level 1
- on length	mm	± 2
- on width	mm	± 1
- on straightness of edges	%	0,1
- on squareness of edges	mm/m	2
- on thickness for smooth sheets	mm	± 0,2
Nominal weight	kg/m ²	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
PHYSICAL PROPERTIES		
Density (dry)	kg/m ³	1600 ± 50
MECHANICAL PROPERTIES		
E modulus of elasticity (dry)		
- longitudinal	GPa	14
- transversal	GPa	10
E modulus of elasticity (wet)		
- longitudinal	GPa	10
- transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (Charpy test)	According to EN 179-1:2010	
- longitudinal	kJ/m ²	4,3
- transversal	kJ/m ²	3,1
HYGROMETRICAL PROPERTIES		
Natural humidity	%	8 ÷ 12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- longitudinal	mm/m	1,3



* wet over dry	Unit of measure	Value
- transversal	mm/m	1,0
THERMAL AND WATER VAPOUR PROPERTIES (untreated boards)		
Vapor resistance factor, μ – according to EN 12572:2016	---	34
Thermal conductivity – according to EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- longitudinal	1/°C	1,71•10-6
- transversal	1/°C	0,58•10-6
OTHER PROPERTIES		
Superior calorific power (through coloured)	MJ/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL \geq 0,75
Durability classification	According to EN 12467:2018	category A
Strength classification	According to EN 12467:2018	class 4
Determination of wet-scrub resistance and cleanability of coatings in according to standard UNI EN ISO 11998:2006 and classification in according to standard UNI EN 13300:2002	UNI EN ISO 11998:2006 UNI EN 13300:2002	Class 1
CE marked product according to	---	EN12467

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