

# Declaration of Performance no: DoP - 083110 - 3



1. The unique product identification code:

**Terasin NS 110**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	110 (+/- 11)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.60 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	2 (- 0.4) 3.0 (- 0.6)	SR EN ISO 10319:2015
Elongation at break MD/CD %	70% (+/-) 14% 70% (+/-) 14%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	400 (- 40)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	45 (+ 9)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	120 (- 36)	SR EN ISO 11058:2010
Opening pore size O90 in μm	100 (+/- 30)	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083130 - 3



1. The unique product identification code:

**Terasin NS 130**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	130 (+/- 13)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.50 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	2.5 (- 0.5) 3.8 (- 0.8)	SR EN ISO 10319:2015
Elongation at break MD/CD %	70% (+/-) 14% 70% (+/-) 14%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	500 (- 50)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	45 (+ 9)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	118 (- 35.4)	SR EN ISO 11058:2010
Opening pore size O90 in μm	95 +/- 28.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083150 - 3



1. The unique product identification code:

**Terasin NS 150**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	150 (+/- 15)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.40 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	3 (- 0.6) 4.5 (- 0.9)	SR EN ISO 10319:2015
Elongation at break MD/CD %	70% (+/-) 14% 70% (+/-) 14%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	600 (- 60)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	44 (+ 8.8)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	115 (- 34.5)	SR EN ISO 11058:2010
Opening pore size O90 in μm	92 +/- 27.6	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017



# Declaration of Performance no: DoP - 083180 - 3



1. The unique product identification code:

**Terasin NS 180**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	180 (+/- 18)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.43 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	4 (- 0.8) 6.0 (- 1.2)	SR EN ISO 10319:2015
Elongation at break MD/CD %	70% (+/-) 14% 70% (+/-) 14%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	800 (- 80)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	42 (+ 8.4)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	112 (- 33.6)	SR EN ISO 11058:2010
Opening pore size O90 in μm	90 (+/- 27)	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083200 - 3



1. The unique product identification code:

**Terasin NS 200**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	200 (+/- 20)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.45 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	5 (- 1)      7.5 (- 1.5)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13%      65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	900 (- 90)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	40 (+ 8)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	110 (- 33)	SR EN ISO 11058:2010
Opening pore size O <sub>90</sub> in μm	90 (+/- 27)	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083230 - 3



1. The unique product identification code:

**Terasin NS 230**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	230 (+/- 23)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.48 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	5.5 (- 0.8) 8.0 (- 1.2)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1100 (- 110)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	35 (+ 7)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	100 (- 30)	SR EN ISO 11058:2010
Opening pore size O90 in μm	85 +/- 25.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017



# Declaration of Performance no: DoP - 083250 - 3



1. The unique product identification code:

**Terasin NS 250**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	250 (+/- 25)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.50 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	6.5 (- 1) 10.0 (- 1.5)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1300 (- 130)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	30 (+ 6)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	95 (- 28.5)	SR EN ISO 11058:2010
Opening pore size O90 in μm	80 (+/- 24)	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083280 - 3



1. The unique product identification code:

**Terasin NS 280**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	280 (+/- 28)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.55 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	7.5 (- 1.1) 11.0 (- 1.6)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1600 ( - 160 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	29 ( + 5.8 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	90 ( - 27 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	75 +/- 22.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017



# Declaration of Performance no: DoP - 083300 - 3



1. The unique product identification code:

**Terasin NS 300**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	300 (+/- 30)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.60 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	10 (- 1.5) 12.0 (- 1.8)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1700 ( - 170 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	28 ( + 5.6 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	85 ( - 25.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	75 +/- 22.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083330 - 3



1. The unique product identification code:

**Terasin NS 330**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	330 (+/- 33)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.70 (+/- 0.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	9 (- 1.4) 13.5 (- 2)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1800 (- 180)	SR EN ISO 12236:2007
Dynamic perforation resistance mm	26 (+ 5.2)	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	75 (- 22.5)	SR EN ISO 11058:2010
Opening pore size O90 in μm	75 +/- 22.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083350 - 3



1. The unique product identification code:

**Terasin NS 350**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	350 (+/- 35)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.75 (+/- 0.4)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	10 (- 1.5) 15.0 (- 2.2)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	1900 ( - 190 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	25 ( + 5 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	70 ( - 21 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	75 +/- 22.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,


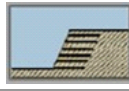
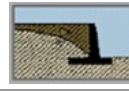

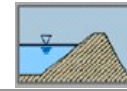
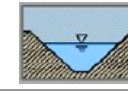
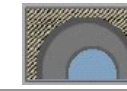

la data de 14.08.2017



1. The unique product identification code:

**Terasin NS 400**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	400 (+/- 40)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	1.95 (+/- 0.4)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	12 (- 1.8) 18.0 (- 2.7)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	2200 ( - 220 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	23 ( + 4.6 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	65 ( - 19.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	70 ( +/- 21 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083450 - 3



1. The unique product identification code:

**Terasin NS 450**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	450 (+/- 45)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	2.15 (+/- 0.4)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	13.5 (- 2)      20.0 (- 3)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13%      65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	2400 ( - 240 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	21 ( + 4.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	55 ( - 16.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	70 ( +/- 21 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu




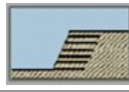
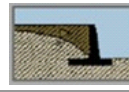

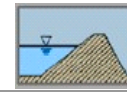
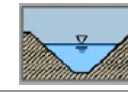
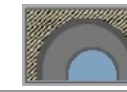

in Rm. Valcea,

la data de 14.08.2017

1. The unique product identification code:

**Terasin NS 500**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	500 (+/- 50)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	2.35 (+/- 0.5)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	15 (- 2.2) 22.0 (- 3.3)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	2700 ( - 270 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	19 ( + 3.8 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	45 ( - 13.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	70 ( +/- 21 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,


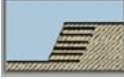
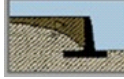

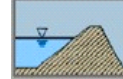
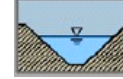
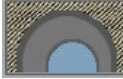

la data de 14.08.2017



1. The unique product identification code:

**Terasin NS 550**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	550 (+/- 55)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	2.45 (+/- 0.5)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	16 (- 2.4) 23.0 (- 3.4)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	2800 ( - 280 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	17 ( + 3.4 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	40 ( - 12 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	65 +/- 19.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu




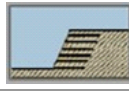
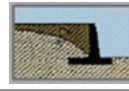

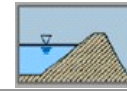
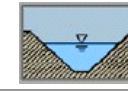
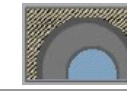

in Rm. Valcea,

la data de 14.08.2017

1. The unique product identification code:

**Terasin NS 600**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	600 (+/- 60)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	2.50 (+/- 0.5)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	17 (- 2.6) 25.0 (- 3.8)	SR EN ISO 10319:2015
Elongation at break MD/CD %	65% (+/-) 13% 65% (+/-) 13%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	3000 ( - 300 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	16 ( + 3.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	35 ( - 10.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	60 ( +/- 18 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083700 - 3



1. The unique product identification code:

**Terasin NS 700**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	700 (+/- 70)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	4.50 (+/- 0.9)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	20 (- 3) 30.0 (- 4.5)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	3500 ( - 350 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	9 ( + 1.8 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	55 ( - 16.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	65 +/- 19.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017



# Declaration of Performance no: DoP - 083800 - 3



1. The unique product identification code:

**Terasin NS 800**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	800 (+/- 80)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	5.00 (+/- 1)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	22 (- 3.3) 32.0 (- 4.8)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	4000 ( - 400 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	6 ( + 1.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	50 ( - 15 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	65 +/- 19.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017

# Declaration of Performance no: DoP - 083900 - 3



1. The unique product identification code:

**Terasin NS 900**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	900 (+/- 90)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	5.50 (+/- 1.1)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	25 (- 3.8) 37.0 (- 5.6)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	4500 ( - 450 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	2 ( + 0.4 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	30 ( - 9 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	55 +/- 16.5	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu




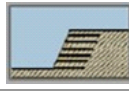
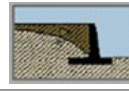

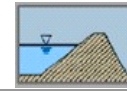
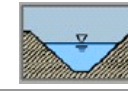
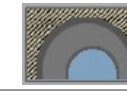

in Rm. Valcea,

la data de 14.08.2017

1. The unique product identification code:

**Terasin NS 1000**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	1000 (+/- 100)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	6.00 (+/- 1.2)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	27.5 (- 4.1) 40.0 (- 6)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	5000 ( - 500 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	1 ( + 0.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	28 ( - 8.4 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	50 ( +/- 15 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,


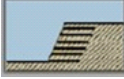
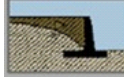

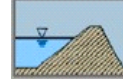
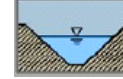
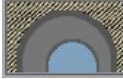

la data de 14.08.2017



1. The unique product identification code:

**Terasin NS 1100**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	1100 (+/- 110)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	6.50 (+/- 1.3)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	30 (- 4.5) 45.0 (- 6.8)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	5500 ( - 550 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	1 ( + 0.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	25 ( - 7.5 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	50 ( +/- 15 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu




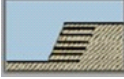
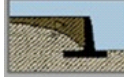

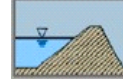
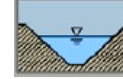
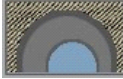

in Rm. Valcea,

la data de 14.08.2017

1. The unique product identification code:

**Terasin NS 1200**

2. Applications and intended uses: in construction as filtration, reinforcement, separation, drainage, protection and combinations thereof, according to the table below.

SR EN 13249	SR EN 13251	SR EN 13252	SR EN 13253	SR EN 13254	SR EN 13255	SR EN 13256	SR EN 13257		
									
F	F	F	P	F	F	P	P		
R	R	D	R	R	P	D	R		
F+S	F+S	F+S	P+S	F+S	F+S	F+S	F+S+P		
R+S	R+S	F+D	R+S	R+S	R+S	F+D	R+S		
F+R+P	F+R+P	F+S+D	F+P	F+R	F+R	F+S+D+P	F+R		
F+R+S+P	F+R+S+P	F+R+S	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P	F+R+S+P		
F=Filtration		R=Reinforcement		S=Separation		D=Drainage		P=Protection	

3. Manufactured by : **SC MINET SA , Ramnicu Valcea, Valcea County, Depozitelor Street no.12,**

4. Authorized representative; Not applicable

5. System or systems of assessment and verification of constancy of performance: **System 2+**

6.a. Harmonised standards:

-SR EN 13249:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion)

-SR EN 13250:2001/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for used in the construction of railways

-SR EN 13251:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in earthworks, foundations and retaining structures

-SR EN 13252:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in drainage systems

-SR EN 13253:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in erosion control works

-SR EN 13254:2000/A1:2005 - Geotextiles and geotextile-related products-Required characteristics for use in the construction of reservoirs and dams

-SR EN 13255:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of canals

-SR EN 13256:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in the construction of tunnels and underground structures

-SR EN 13257:2000/A1:2005 - Geotextiles and geotextile-related products-Characteristics required for use in solid waste disposals

6.b. **INCERTRANS-OC** - Notified body to the European Commission for conformity assessment of construction products with Identification Number 1833 conducted:

(1) initial inspection of the factory and factory production control

(2) continuous monitoring and evaluation of factory production control, under the system of assessment and verification of constancy of performance of construction product, **System 2+**, and issued certificate of conformity with No.: **1833-CPR-0053**

7. Declared performance

Properties	Declared performance/tolerance	Test method
Mass / unit area gr/m <sup>2</sup>	1200 (+/- 120)	SR EN ISO 9864:2007
Thickness under 2 kN/m <sup>2</sup>	7.00 (+/- 1.4)	SR EN ISO 9863-1: 2017
Tensile strength MD/CD kN/m	33 (- 5) 50.0 (- 7.5)	SR EN ISO 10319:2015
Elongation at break MD/CD %	80% (+/-) 16% 80% (+/-) 16%	SR EN ISO 10319:2015
Resistance to static puncture CBR N	6000 ( - 600 )	SR EN ISO 12236:2007
Dynamic perforation resistance mm	1 ( + 0.2 )	SR EN ISO 13433:2007
Permeability VIH50 l/m <sup>2</sup> s (mm/s)	22 ( - 6.6 )	SR EN ISO 11058:2010
Opening pore size O90 in μm	50 ( +/- 15 )	SR EN ISO 12956:2010
Predicted to be durable for more than 25 years in soils with 4<pH<9 and temperature <25° C		

\*MD - machine direction (longitudinal)

\*CD – cross machine direction (transversal)

8. The performance of the product identified above is in accordance with the set of declared performance. This declaration of performance is issued under Regulation (EU) no. 305/2011, the sole responsibility of the manufacturer identified above.

Semnată pentru și în numele fabricantului de către:

Director Producție Petre Popescu



in Rm. Valcea,

la data de 14.08.2017