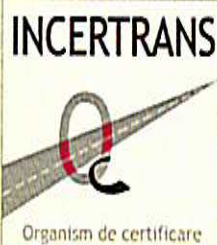


S.C. INSTITUTUL DE CERCETĂRI ÎN TRANSPORTURI INCERTRANS S.A.
ORGANISM DE CERTIFICARE INCERTRANS – OC NOTIFIED N° 1833



Calea Griviței, nr. 391-393, Sector 1, București
Transport Research Institute INCERTRANS
Certification Body: INCERTRANS-OC
Calea Griviței, no. 391-393, District 1, Bucharest
Phone: +40 (21) 316.23.37 E-mail: incertrans@incertrans.ro
Fax: +40 (21) 316.13.70 Web: <http://www.incertrans.ro>



CERTIFICATE OF CONFORMITY FOR THE FACTORY PRODUCTION CONTROL

1833-CPR-0193

According to Regulation 305/2011 / EU of the European Parliament and of the Council from 9 March 2011 (Construction Products Regulation or CPR), this certificate is valid for the product used in construction:

GEOTEXTILES: TERASIN HT[®]; TERASIN HT[®] (RDG)

Intended use: filtration; reinforcement; filtration and separation; reinforcement and separation; filtration and reinforcement; filtration, separation and reinforcement in the construction of roads and other traffic routes; filtration; reinforcement; filtration and separation; reinforcement and separation; filtration and reinforcement; filtration, separation and reinforcement in the construction of rail ways; filtration; reinforcement; filtration and separation; reinforcement and separation; filtration and reinforcement; filtration, reinforcement and separation earth works, foundations and retaining structures; filtration; drainage; filtration and separation; filtration and drainage; filtration, separation and drainage systems; filtration; reinforcement; filtration and separation; reinforcement and separation; filtration and reinforcement; filtration, reinforcement and erosion separation systems; filtration; reinforcement; protection; filtration and separation; reinforcement and separation; filtration and reinforcement; reinforcement and protection; filtration, separation and reinforcement in the construction of reservoirs and dams; filtration; reinforcement; protection; filtration and separation; reinforcement and separation; filtration and reinforcement; reinforcement and protection; filtration, separation and reinforcement in the construction of canals; protection in the construction of tunnels and underground structures; filtration; reinforcement; protection; filtration and separation; reinforcement and separation; filtration and reinforcement; reinforcement and protection; filtration, reinforcement and separation of solid waste disposal projects.

Parameters of the construction product <levels and performance classes of the product GEOTEXTILES: TERASIN HT[®]; TERASIN HT[®] (RDG) > as defined by the manufacturer in the declaration of performance, are found in the addendum. CE marking method according to Directive 93/68/CE.

Placed on the market under the name or trade mark of:

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea, Romania

and produced in the manufacturing plant:

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea, Romania

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN 13249:2000, EN 13249:2000/A1:2005;
EN 13250:2000, EN 13250:2000/A1:2005;
EN 13251:2000, EN 13251:2000/A1:2005;
EN 13252:2000, EN 13252:2000/A1:2005;
EN 13253:2000, EN 13253:2000/A1:2005;
EN 13254:2000, EN 13254:2000/A1:2005, EN 13254:2000/AC:2003;
EN 13255:2000, EN 13255:2000/A1:2005, EN 13255:2000/AC:2003;
EN 13256:2000, EN 13256:2000/A1:2005, EN 13256:2000/AC:2003;
EN 13257:2000, EN 13257:2000/A1:2005, EN 13257:2000/AC:2003;

under the system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on: 21.06.2016 and is valid as long as the conditions stipulated on verso are satisfied and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

21.06.2016

TECHNICAL MANAGER INCERTRANS-OC
Eng. Victor BADEA

INCERTRANS-OC - the body of constancy performance assesment and verification of the product < GEOTEXTILES: TERASIN HT[®] ; TERASIN HT[®] (RDG) > used in constuction maintain reserves the right to suspend or withdraw the validity of this certificate identified no. 1833-CPR-0193 if it finds that the manufacturer S.C. MINET S.A. does not comply / changes requirements concerning the test methods and / or the factory production control, included in the harmonized standard used for performance assessment of the features declared and the construction product and factory production conditions are significantly modified.

Surveillance stages of the certificate validity:

Authorized signature

.....
(name, surname, position in Certification Body)

Valid until:.....

Surveillance Stage I
Scheduled until 21.12.2016

Authorized signature

.....
(name, surname, position in Certification Body)

Valid until:.....

Surveillance Stage II
Scheduled until 21.12.2017

Authorized signature

.....
(name, surname, position in Certification Body)

Valid until:.....

Surveillance Stage III
Scheduled until 21.12.2018

Certificate history

Revision	Description	Issuance date	Number of the replaced certificate
0.0	Initial certificate	21.06.2016	-- -- --

Declaration of performance and marking of products

In fulfillment of the conditions and terms required to maintain the performance of the features declared, the manufacturer shall draw up a declaration of performance of the product and may legally apply the CE mark followed by the identification number of the certification body INCERTRANS OC - 1833 while fulfilling the provisions of Regulation (EU) 305/2011-Annex III: Declaration of performance.



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Addendum la certificatul de conformitate pentru controlul producției în fabrică 1833-CPR-0193

GEOTEXTILE: TERASIN HT[®]; TERASIN HT[®] (RDG)

Pentru: filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare, armare și separare la construcția de drumuri și a altor căi de circulație; filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare, armare și separare în construcția de căi ferate; filtrare; armare; filtrare și separare; armare și separare; filtrare și separare la lucrările de terasamente, fundații și structuri de susținere; filtrare; drenaj; filtrare și separare; filtrare și drenaj; filtrare, separare și drenaj în sistemele de drenaj; filtrare; armare; filtrare și separare; armare și separare; filtrare și separare; armare și separare; filtrare și separare în sistemele antierozionale; filtrare; armare; protecție; filtrare și separare; armare și separare; filtrare și separare la construcția de canale; protecție la construcția tunelurilor și structurilor subterane; filtrare; armare; protecție; filtrare și separare; armare și separare; filtrare și armare; armare și separare; filtrare și armare; armare și separare în protecțiile de depozitare a deșeurilor solide

Introdus pe piață sub numele sau marca comercială a:

Produs în unitatea de producție:

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea

Parametrii produsului pentru construcții
< niveluri și clase de performanță ale produsului GEOTEXTILE: TERASIN HT[®]; TERASIN HT[®] (RDG) >
după cum sunt definiți de către fabricant pentru declarația de performanță

Performanța declarată

Condiția de admisibilitate și toleranța / Unitate de masură / Metoda de determinare					
Proprietăți definitorii			Proprietăți fizico-mecanice		
Masa pe unitate de suprafață gr/m ²	Grosime la 2 kN/m ² mm	Rezistența la tracțiune CD/MD kN/m	Alungire la rupere CD/MD %	Poansonare CBR N	Perforare dinamică mm
SR EN ISO 9864	SR EN ISO 9863-1	SR EN ISO 10319	SR EN ISO 10319	SR EN ISO 12236	SR EN ISO 13433
100 ⁺¹⁰	0.9 ^{+0.1}	1.6 ^{-0.2} / 3.3 ^{-0.5}	90 ^{+9.0} / 80 ^{+8.0}	370.0 ^{-37.0}	43 ^{+4.0}
130 ⁺¹³	1.1 ^{+0.1}	2.8 ^{-0.4} / 4.1 ^{-0.7}	90 ^{+9.0} / 80 ^{+8.0}	500.0 ^{-50.0}	41 ^{+4.0}
150 ⁺¹⁵	1.2 ^{+0.1}	3.8 ^{-0.6} / 5.7 ^{-0.9}	90 ^{+9.0} / 80 ^{+8.0}	620.0 ^{-62.0}	39 ^{+4.0}
180 ⁺¹⁸	1.6 ^{+0.2}	4.8 ^{-0.7} / 6.9 ^{-1.1}	90 ^{+9.0} / 80 ^{+8.0}	750.0 ^{-75.0}	38 ^{+4.0}
200 ⁺²⁰	1.8 ^{+0.2}	5.8 ^{-0.9} / 9.0 ^{-1.4}	80 ^{+8.0} / 70 ^{+7.0}	1050.0 ^{-105.0}	36 ^{+4.0}
230 ⁺²³	1.9 ^{+0.2}	6.7 ^{-1.0} / 10.0 ^{-1.5}	80 ^{+8.0} / 70 ^{+7.0}	1150.0 ^{-115.0}	34 ^{+4.0}
			Proprietăți hidrice		
			V-index 20° C mm/s (l/m ² s)	Marimea porilor Ø90 μm	
			SR EN ISO 11058	SR EN ISO 12956	
			180 ⁺¹⁸	170 ⁺¹⁷	
			170 ⁺¹⁷	150 ⁺¹⁵	
			130 ⁺¹³	120 ⁺¹²	
			130 ⁺¹³	120 ⁺¹²	
			120 ⁺¹²	110 ⁺¹¹	
			110 ⁺¹¹	105 ⁺¹⁰	

250	± 2.1	± 0.2	7.3	12.0	-1.1	-1.5	80	± 3.0	± 7.0	1400.0	-140.0	± 3.0	32	± 1.0	100	± 9.0	90
280	± 2.3	± 0.3	8.2	13.0	-1.2	-2.0	80	± 3.0	± 7.0	1560.0	-155.0	± 3.0	30	± 9.5	95	± 9.0	85
300	± 2.4	± 0.3	9.2	15.0	-1.4	-2.2	80	± 3.0	± 7.0	1700.0	-170.0	± 3.0	28	± 8.5	85	± 8.0	80
330	± 2.5	± 0.3	9.9	16.0	-1.4	-2.2	80	± 3.0	± 7.0	2000.0	-200.0	± 3.0	26	± 8.0	80	± 8.0	75
350	± 2.6	± 0.3	10.7	17.5	-1.5	-2.5	80	± 3.0	± 7.0	2250.0	-225.0	± 2.5	25	± 8.0	80	± 8.0	75
400	± 3.0	± 0.3	12.6	21.3	-1.5	-3.2	80	± 3.0	± 7.0	2550.0	-255.0	± 2.2	22	± 6.0	60	± 7.0	70
450	± 3.3	± 0.3	13.8	23.3	-2.1	-3.5	80	± 3.0	± 7.0	2750.0	-275.0	± 2.0	20	± 7.0	55	± 7.0	65
500	± 3.6	± 0.4	15.5	26.0	-2.3	-3.9	80	± 3.0	± 7.0	3000.0	-310.0	± 1.8	18	± 6.0	50	± 6.0	60
550	± 3.8	± 0.4	17.0	28.0	-2.5	-4.2	80	± 3.0	± 7.0	3400.0	-342.0	± 1.7	17	± 4.0	40	± 6.0	55
600	± 4.1	± 0.4	19.0	32.0	-2.8	-4.5	80	± 3.0	± 7.0	3700.0	-370.0	± 1.6	16	± 5.0	35	± 5.0	50
700	± 4.8	± 0.5	22.0	36.5	-3.3	-5.5	80	± 3.0	± 7.0	4300.0	-430.0	± 1.4	14	± 3.0	30	± 5.0	45
800	± 5.6	± 0.6	28.0	44.0	-4.2	-6.6	80	± 3.0	± 7.0	5200.0	-520.0	± 1.2	12	± 3.0	25	± 4.0	40
900	± 6.3	± 0.6	31.5	49.5	-4.2	-7.4	80	± 3.0	± 7.0	5850.0	-585.0	± 1.0	10	± 2.0	22	± 4.0	35
1000	± 7.0	± 0.7	35.0	55.0	-5.3	-8.2	80	± 3.0	± 7.0	6500.0	-650.0	± 1.0	8	± 2.0	20	± 4.0	35
1100	± 7.7	± 0.8	38.0	59.0	-5.7	-8.9	80	± 3.0	± 7.0	7050.0	-700.0	± 1.0	8	± 2.0	15	± 4.0	35
1200	± 8.4	± 0.8	42.0	65.0	-6.3	-9.6	80	± 3.0	± 7.0	7800.0	-760.0	± 1.0	2	± 1.0	10	± 4.0	35

21.06.2016

Ing. NICOLETA IONESCU
Responsabil contract nr. 16C005/2016

[Signature]