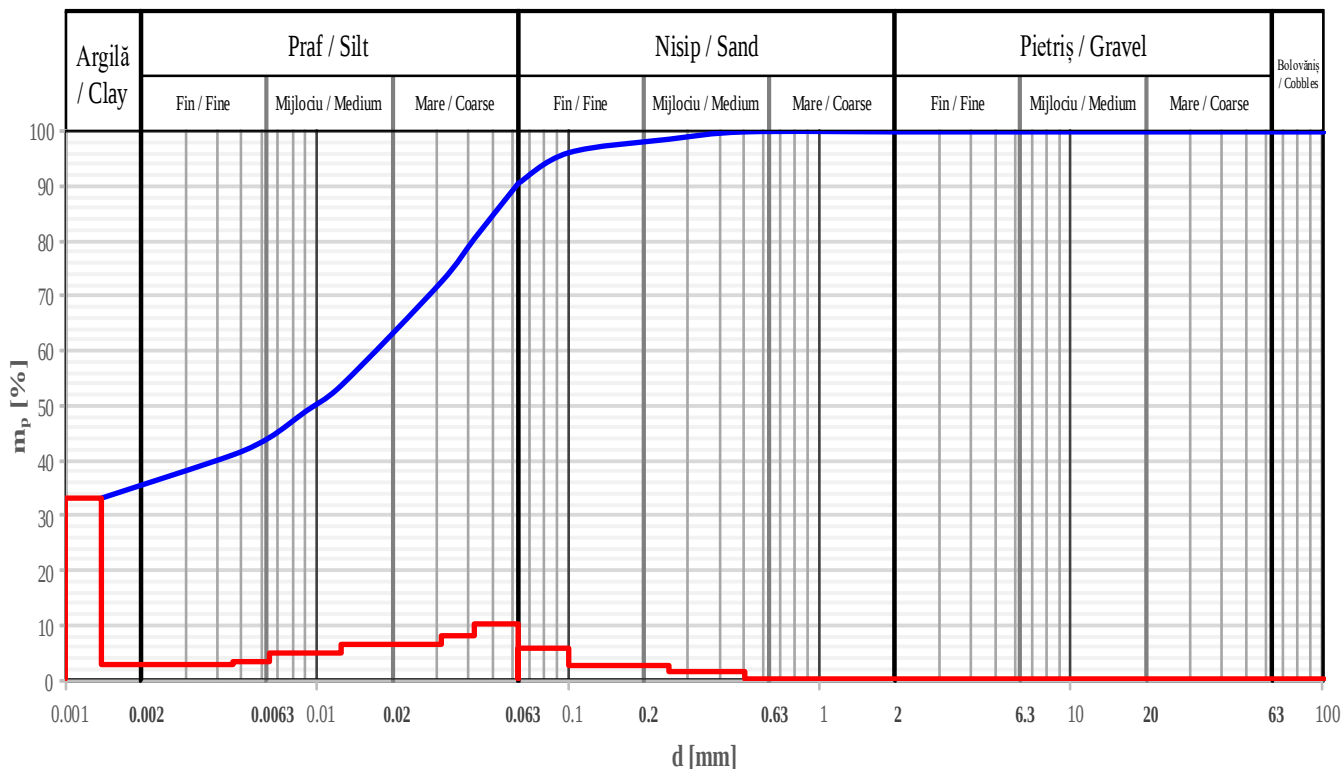


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata
 Roman – Iasi - Frontiera
 Forajul/Borehole: PODET 22
 Proba/Sample: PNT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no.75 967



Curba granulometrica / Granulometric curve

Identificarea si clasificarea pamanturilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila prafoasa / Silty clay (Si.Cl)								cafenie		Un = #N/A	
Conform SR EN ISO 14688/2-2005, la cerinta beneficiarului	Pamant fin / Fine				Pamant grosier / Coarse						Pamant foarte grosier /
	Argila (CI)	Praef (Si)			Nisip (Sa)			Pietris (Gr)			Bolovanis (Co)
		Fin (fSi)	Mediu (mS)	Mare (cSi)	Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)	
		35	56			9			0		
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	35	9	19	28	7	2	0	0	0	0	0

CLASIFICAREA PAMANTURILOR /SR Pamant fin / Fine soil
 EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 #N/A

Executat de / Performed by:
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI

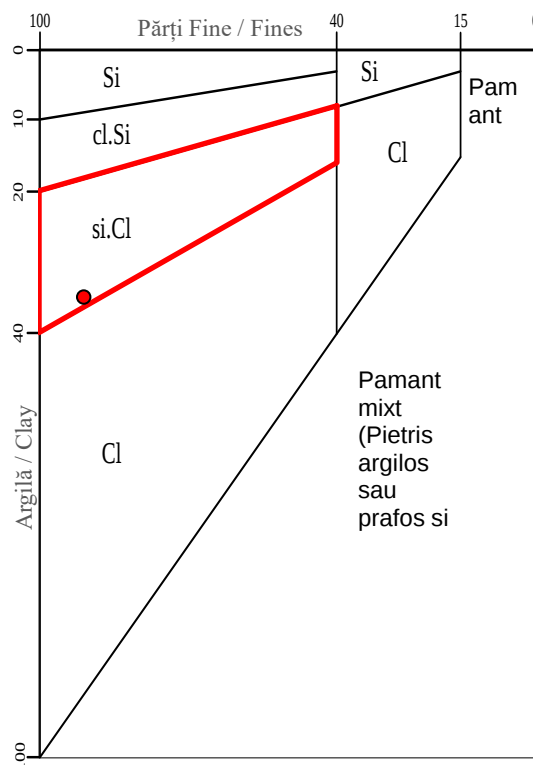
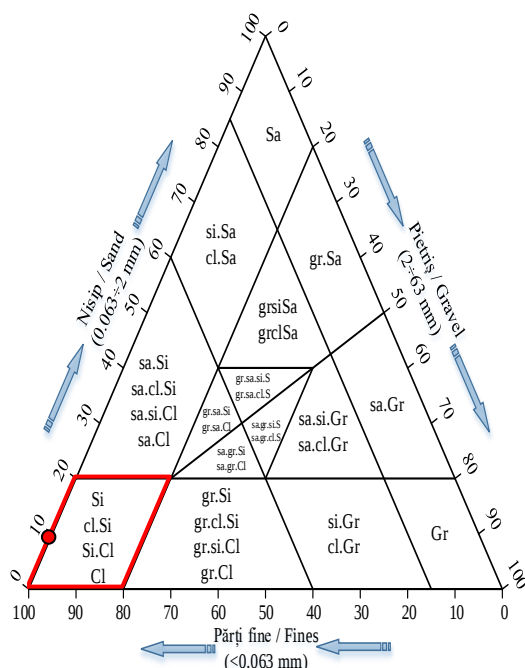


Data / Date: 12.01.2021

COD PROBA 75 967

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	d (mm)	mp (%)
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	90	100,0
	63	100,0
	45	100,0
	31,5	100,0
	22,4	100,0
	16	100,0
	11,2	100,0
	5,6	100,0
	3,15	100,0
	2	100,0
	0,5	100,0
	0,25	98,7
	0,10	96,2
	0,063	90,6
	0,063	90,58
	0,042	80,49
	0,031	72,59
	0,023	66,26
	0,017	59,93
	0,012	53,61
	0,009	48,86
	0,006	44,12
	0,005	40,96
	0,003	38,32
	0,002	35,69
	0,001	33,05



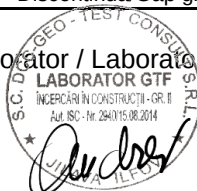
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

Tip pamant / Soil group	Tip fractiune	%	C _u (Un)	C _c	Forma curbei granulometrice / Shape of grading curve	C _u (Un)	C _c
Pamant fin / Fine	Argila	Cl	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si					
Pamant grosier / Coarse	Nisip	Sa	3---6	< 1	Uniforma / Uniform		
	Pietris	Gr	6---15	< 1	Uniformitate medie / Medium uniformity		
Pamant foarte grosier / Very coarse	Bolovanis	Co	>15	1---3	Neuniforma / Non-uniform		
			>15	<0,5	Discontinua/Gap graded		

Executat de / Performed by :
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI



COD PROBA 75 967

Raport de incercare nr. / Test report no.75 968

DETERMINAREA LIMITELOR DE PLASTICITATE /
DETERMINATION OF ATTEBERG LIMITS
STAS 1913/4-86

Nr. de caderi ale cupei (N)	25	UMIDITATE NATURALA NATURAL MOISTURE STAS 1913/1-82			LIMITA DE CURGERE LIQUID LIMIT W _L %				LIMITA DE FRAMANTARE PLASTIC LIMIT W _P %		
Adancimea de patrundere a conului (S) mm	10				Metoda cu cupa						
					42	31	21	14			
PROBA UMEDA + TARA A (gr)		150,00			25,92	27,72	26,13	28,47	16,56	16,74	17,33
PROBA USCATA + TARA B (gr)		125,72			21,32	22,71	21,40	23,08	16,01	16,13	16,69
TARA C (gr)					11,07	12,09	11,85	12,66	12,52	12,41	12,69
A - B		24,28			4,60	5,01	4,73	5,39	0,55	0,60	0,63
B - C		125,72			10,25	10,62	9,55	10,42	3,50	3,73	4,01
W(%) = (A-B)/(B-C)*100		19,31			44,90	47,18	49,56	51,74	15,59	16,13	15,82
W(%) MEDIU		19,31			48,61				15,85		

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

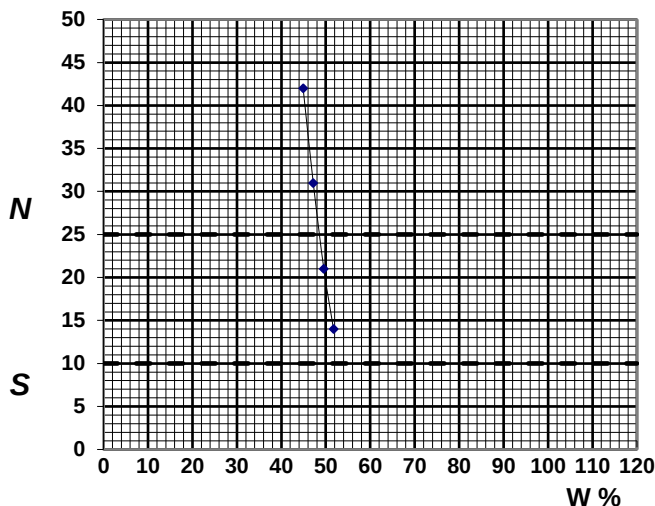
Argila cafenie cu calcar degradat plastic vartoasa / stiff consistency

SR EN ISO 14688/1/2-2018

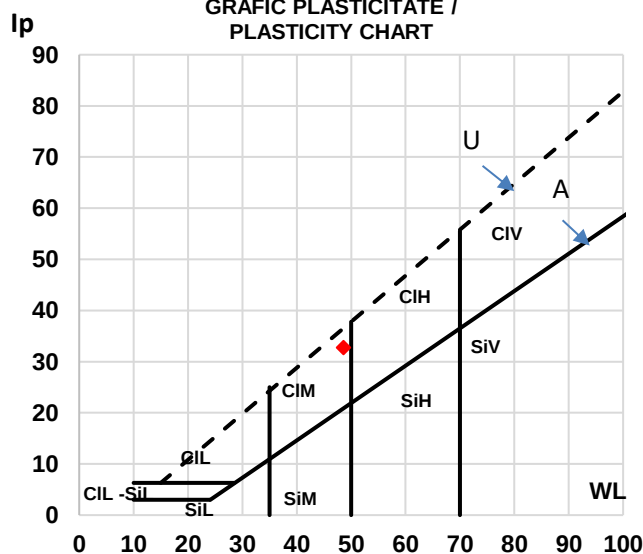
Pamant fin cu plasticitate medie / Fine soil, medium plasticity

CIM

GRAFICUL LIMITEI SUPERIOARE DE PLASTICITATE
UPPER LIMIT OF PLASTICITY CHART



GRAFIC PLASTICITATE /
PLASTICITY CHART



SR EN ISO 14688/2-2018					SR EN ISO 14688/2-2018		
LIMITA DE FRAMANTARE / PLASTIC LIMIT	W _P =	15,85	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	19,31	%	Cl Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	48,61	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	32,75	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	0,89			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P	0,11			O	organici	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 12.01.2021

COD PROBA 75

968

Sef Laborator / Laboratory head: Constanta ANDREI



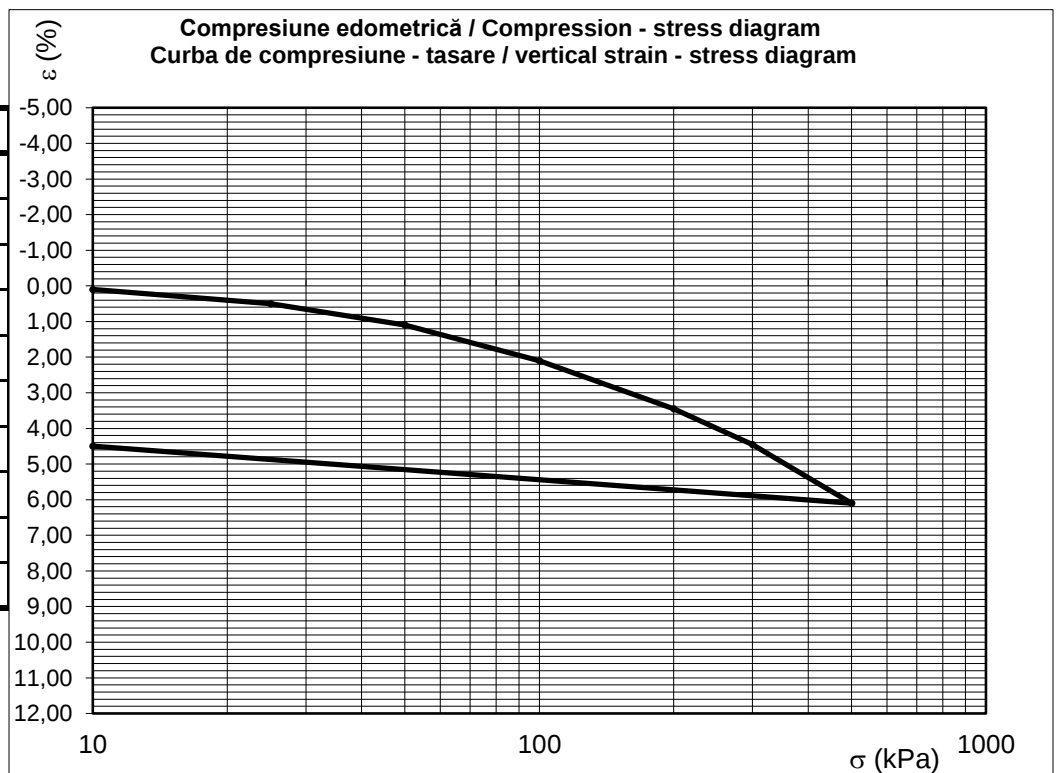
Raport de incercare nr. / Test report no.75 969

DETERMINAREA COMPRESIBILITATII PAMANTURILOR PRIN INCERCAREA IN EDOMETRU

INCREMENTAL LOADING OEDOMETER TEST

STAS 8942/1-89

Indici fizici	INITIAL	FINAL
$m_u(g)$	158,50	157,31
$m_d(g)$	132,51	132,51
$V(cm^3)$	76,15	71,84
$w(%)$	19,61	18,72
$r(g/cm^3)$	2,08	2,19
$r_d(g/cm^3)$	1,74	1,84
$r_s(g/cm^3)$	2,72	2,72
$n(%)$	36,02	32,19
$e(-)$	0,563	0,475
$S(-)$	0,95	1,00



$s(kPa)$	$e(%)$	$M(kPa)$	$mv(1/kPa)$	$av(1/kPa)$
10	0,10			
25	0,50			
50	1,10			
100	2,10			
200	3,45			
300	4,45	10000,0	1,00E-04	1,56E-04
500	6,10	12121,2	8,25E-05	1,29E-04
10	4,50			

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Argila cafenie cu calcar degradat

plastic vartoasa / stiff consistency

Executat de / Performed by:

ing. Nina IOSIF

COD PROBA 75 969

Data / Date: 12.01.2021

SEF LABORATOR / LABORATORY HEAD

Constanta ANDREI

