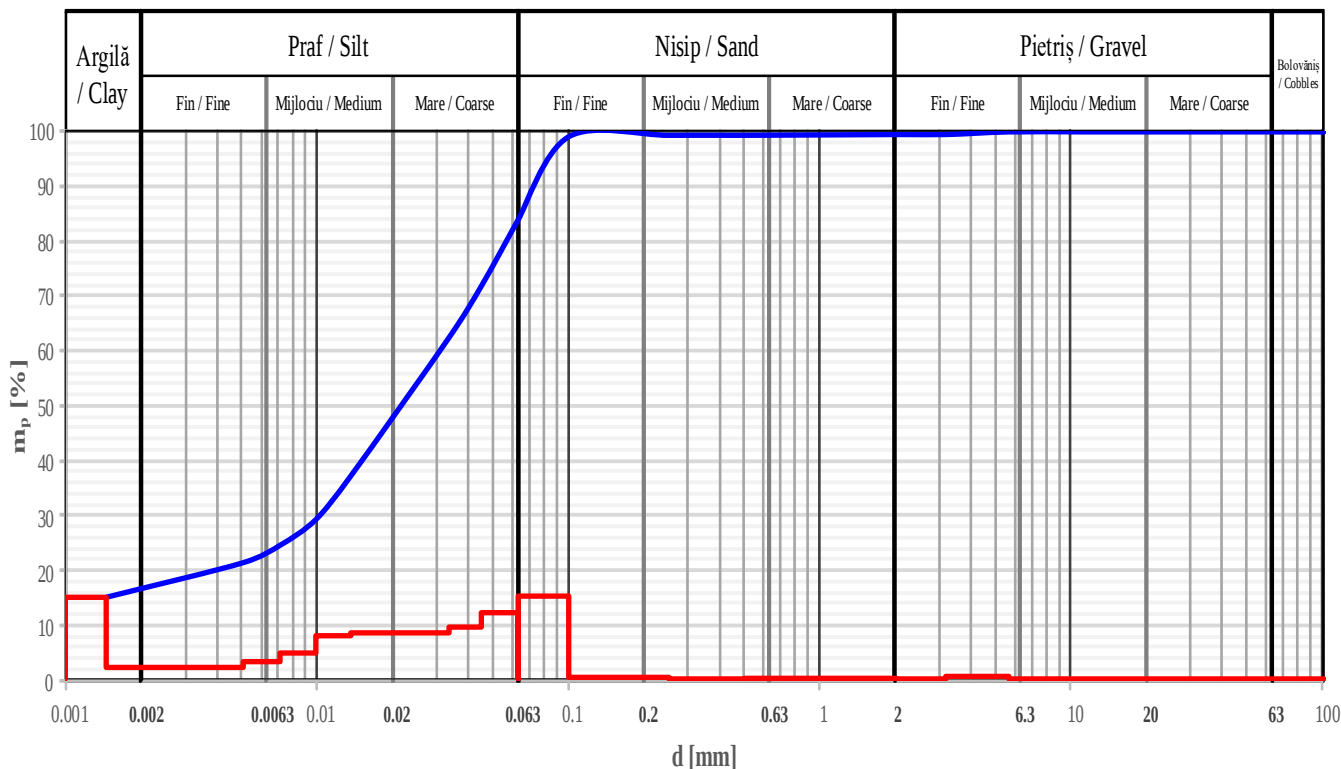


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FCC1 Ungheni
 Proba/Sample: PNT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no.75 987



Curba granulometrica / Granulometric curve

Identificarea si clasificarea pamanturilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85													
Praef argilos / Clayey silt (cl.Si)								galbui		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)			
		16	68			16			0			0	
		< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20		< 63	< 200mm
%	16	7	25	36	15	0	1	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

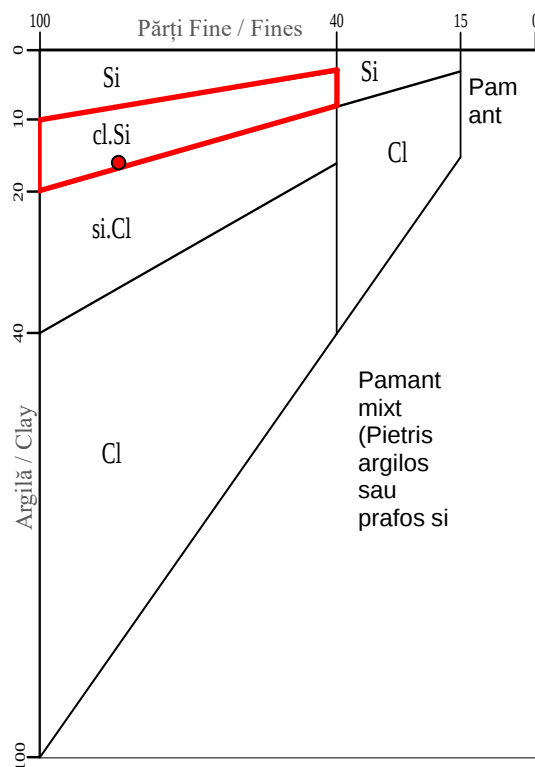
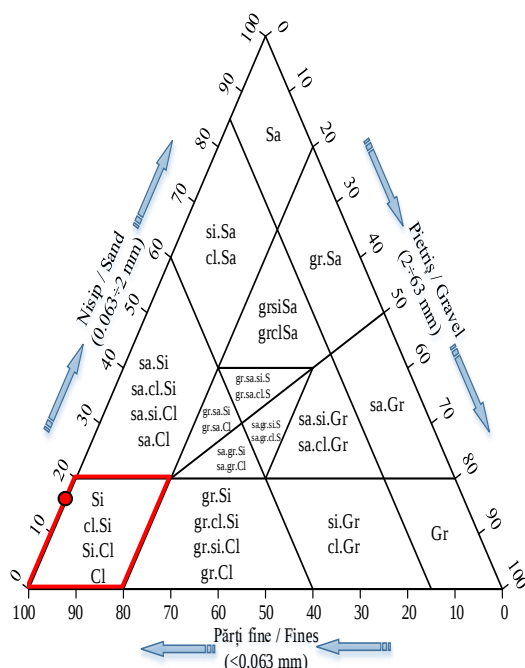


Data / Date: 12.01.2021

COD PROBA 75 987

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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	99,5
	2	99,5
	0,5	99,4
	0,25	99,4
	0,10	99,1
	0,063	84,0
	0,063	83,98
	0,045	71,85
	0,033	62,36
	0,025	53,93
	0,018	45,49
	0,014	37,06
	0,010	29,15
	0,007	24,41
	0,005	21,24
	0,004	19,14
	0,003	17,03
	0,001	14,92



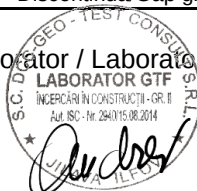
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

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 75 987

Raport de incercare nr. / Test report no.75 988

**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						
					41	31	21	14			
PROBA UMEDA + TARA A (gr)		150,00			29,08	30,95	29,57	31,89	19,09	19,23	19,86
PROBA USCATA + TARA B (gr)		120,43			25,04	26,43	25,12	26,80	18,40	18,52	19,08
TARA C (gr)					12,77	13,79	13,55	14,36	14,22	14,11	14,39
A - B		29,57			4,04	4,52	4,45	5,08	0,68	0,71	0,78
B - C		120,43			12,28	12,65	11,58	12,45	4,19	4,42	4,70
W(%) = (A-B)/(B-C)*100		24,55			32,90	35,75	38,42	40,86	16,35	15,99	16,59
W(%) MEDIU		24,55			37,35				16,31		

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

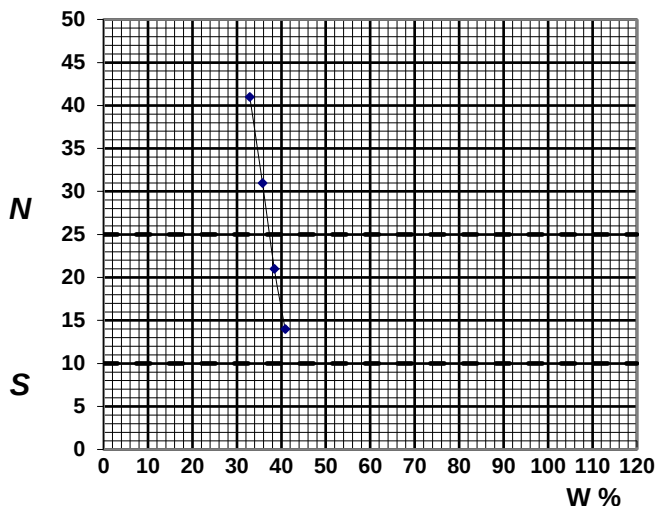
Praf argilos galbui plastic consistenta / firm
consistency

SR EN ISO 14688/1/2-2018

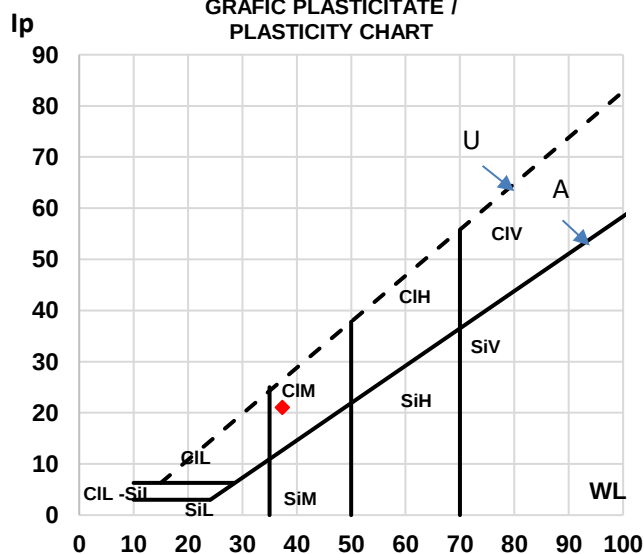
Pamant fin cu plasticitate medie / Fine soil, medium plasticity

CIM

GRAFICUL LIMITEI SUPERIOARE DE PLASTICITATE
UPPER LIMIT OF PLASTICITY CHART



GRAFIC PLASTICITATE /
PLASTICITY CHART



					SR EN ISO 14688/2-2018		
LIMITA DE FRAMANTARE / PLASTIC LIMIT	W _P =	16,31	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	24,55	%	Cl	Clay	Low	redusa
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	37,35	%	Si	Silt	Medium	medie
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	21,04	%			Heigh	mare
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	0,61				Very heigh	foarte mare
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - WP) / I _P	0,39				O	organici

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 12.01.2021

COD PROBA 75

988

Sef Laborator / Laboratory head: Constanta ANDREI



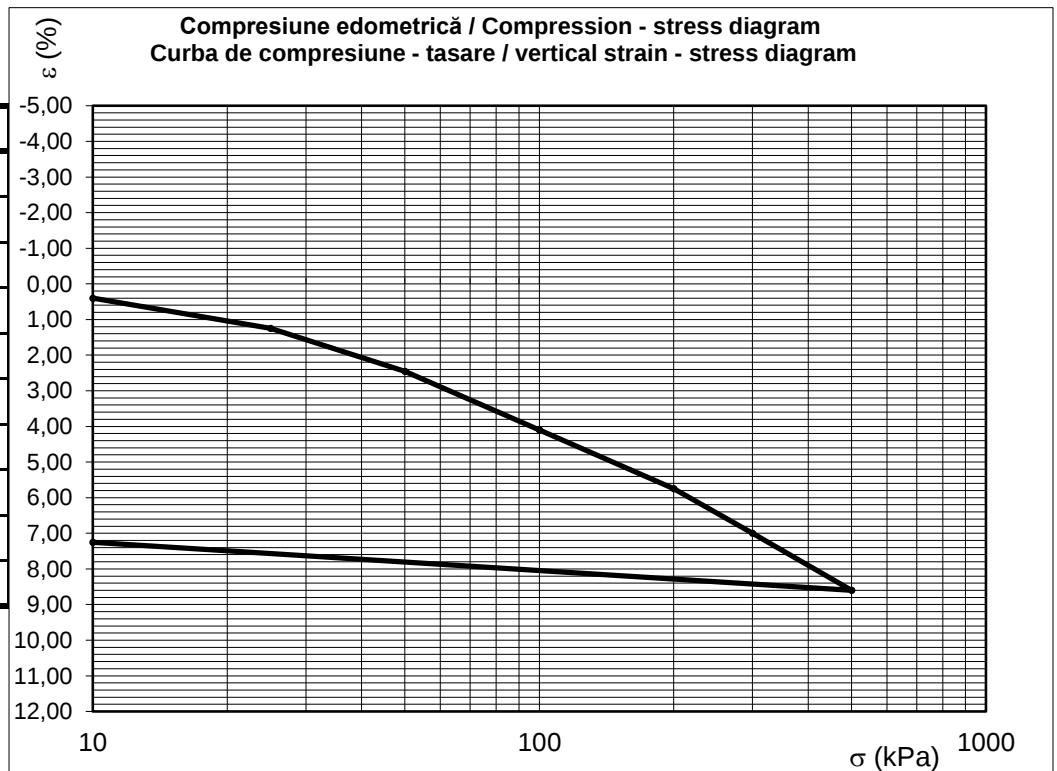
Raport de incercare nr. / Test report no.75 989

DETERMINAREA COMPRESIBILITATII PAMANTURILOR PRIN INCERCAREA IN EDOMETRU

INCREMENTAL LOADING OEDOMETER TEST

STAS 8942/1-89

Indici fizici	INITIAL	FINAL
$m_u(g)$	148,38	143,03
$m_d(g)$	118,98	118,98
$V(cm^3)$	75,55	69,54
$w(%)$	24,71	20,21
$r(g/cm^3)$	1,96	2,06
$r_d(g/cm^3)$	1,57	1,71
$r_s(g/cm^3)$	2,72	2,72
$n(%)$	42,10	37,09
$e(-)$	0,727	0,590
$S(-)$	0,92	0,93



s (kPa)	e (%)	M (kPa)	mv(1/kPa)	av(1/kPa)
10	0,40			
25	1,25			
50	2,45			
100	4,10			
200	5,75			
300	7,00	8000,0	1,25E-04	2,16E-04
500	8,60	12500,0	8,00E-05	1,38E-04
10	7,25			

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Praf argilos galbui

plastic consistenta / firm consistency

Executat de / Performed by:

ing. Nina IOSIF

COD PROBA 75 989

Data / Date: 12.01.2021

SEF LABORATOR / LABORATORY HEAD

Constanta ANDREI

