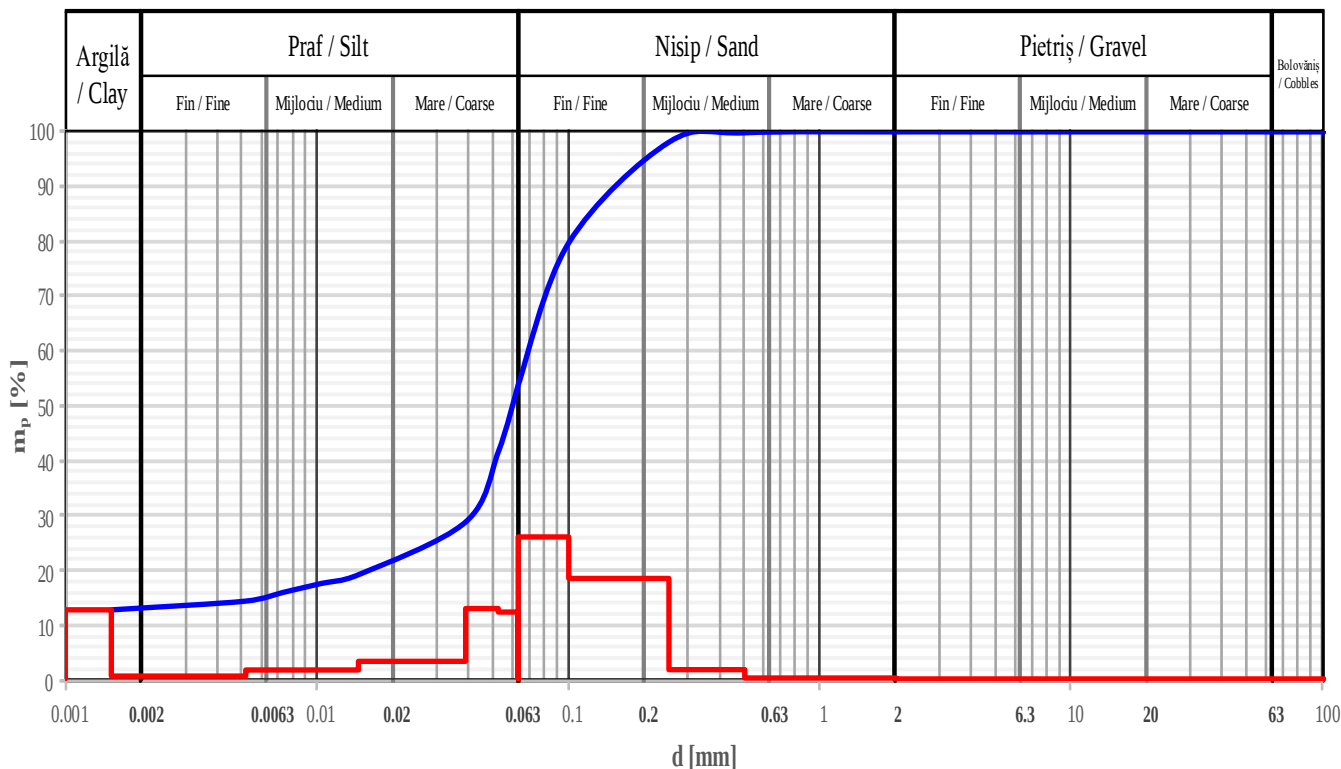


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTS 74
 Proba/Sample: PNT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no. 75 1029



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 nisipoasa / Sandy silty clay (sa.si.CI) galbui-cenusiu Un = #N/A											
Conform SR EN ISO 14688/2-2005, la cerinta beneficiarului	Pamant fin / Fine				Pamant grosier / Coarse						Pamant foarte grosier /
	Argila (CI)	Praf (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)	
	13	41			46			0			0
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	13	2	7	32	38	8	0	0	0	0	0

CLASIFICAREA PĂMÂNTURILOR / SR Pământ 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

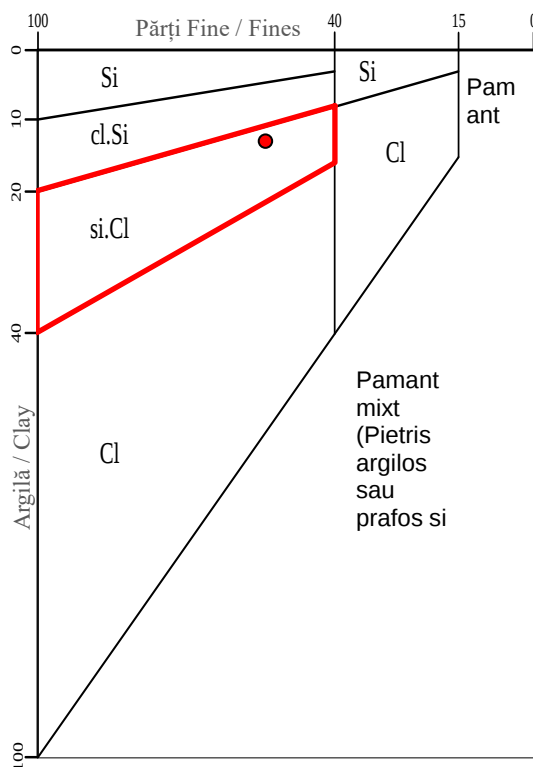
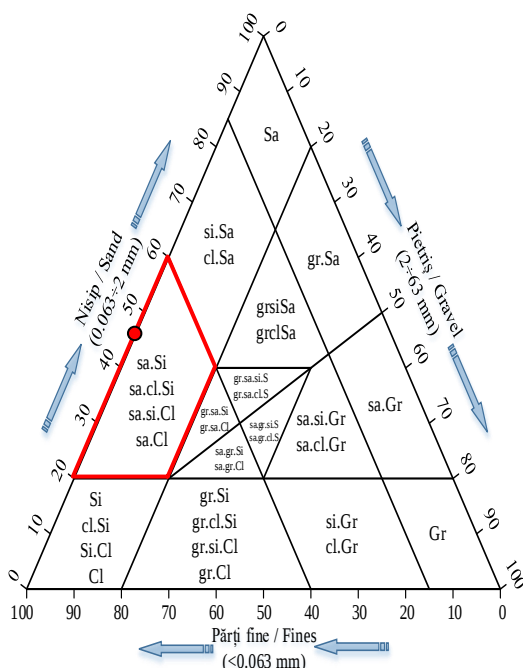


Data / Date: 17.12.2020

COD PROBA 75 1029

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	d (mm)	mp (%)
CERNERE	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
SEDIMENTARE	3,15	100,0
	2	100,0
	0,5	99,8
	0,25	98,1
	0,10	79,7
	0,063	53,8
	0,063	53,76
	0,053	41,53
	0,039	28,68
	0,028	25,47
	0,020	22,26
	0,015	19,05
	0,010	17,44
	0,007	15,84
	0,005	14,23
	0,004	13,69
	0,003	13,16
	0,002	12,62



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	13	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	41			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	46	3---6	< 1	Uniformitate medie / Medium uniformity		
	Pietris	Gr	0	6---15	< 1	Neuniforma / Non-uniform		
Pamant foarte grosier / Very coarse	Bolovanis	Co		>15	1---3	Discontinua / Gap graded		
				>15	<0,5			

Executat de / Performed by :
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI



COD PROBA 75 1029

Raport de incercare nr. / Test report no. 75 1030

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

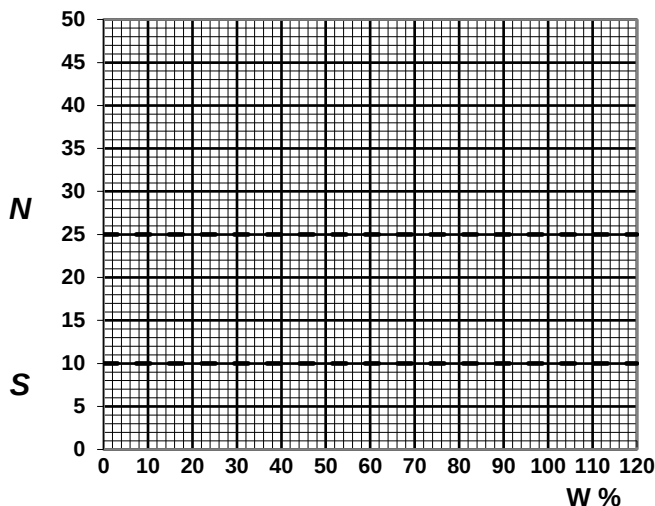
Nr. de caderi ale cupei (N)	25	UMIDITATE NATURALA NATURAL MOISTURE STAS 1913/1-82			LIMITA DE CURGERE LIQUID LIMIT W _L %			LIMITA DE FRAMANTARE PLASTIC LIMIT W _P %		
Adancimea de patrundere a conului (S) mm	10				#N/A					
PROBA UMEDA + TARA A (gr)		150,00								
PROBA USCATA + TARA B (gr)		120,67								
TARA C (gr)										
A - B		29,33								
B - C		120,67								
W(%) = (A-B)/(B-C)*100		24,31								
W(%) MEDIU		24,31								

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

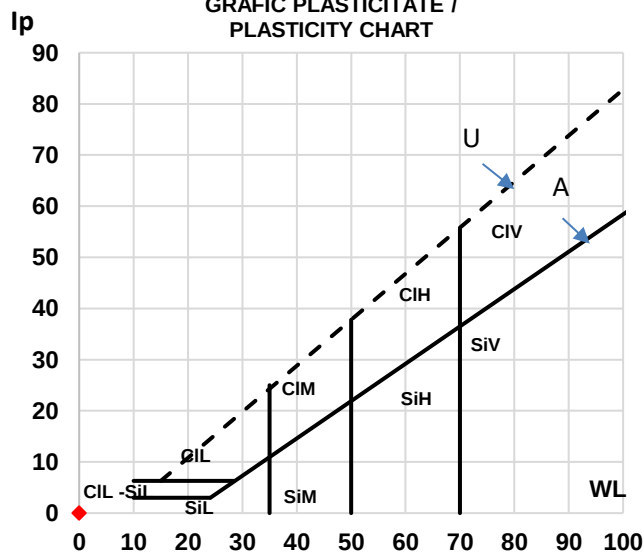
Nisip praos galbui-cenusiu

SR EN ISO 14688/1/2-2018 #N/A

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 =	0,00	%		Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit
UMIDIT. NATUR. / NATURAL MOISTURE	W =	24,31	%		Cl Clay	Low redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	0,00	%		Si Silt	Medium medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	0,00	%			Heigh mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P					Very foarte heigh mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P					O organig	

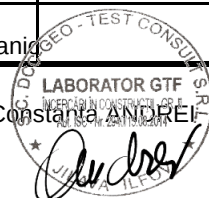
Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 17.12.2020

COD PROBA 75

1030

Sef Laborator / Laboratory head: Constanta ANDREI



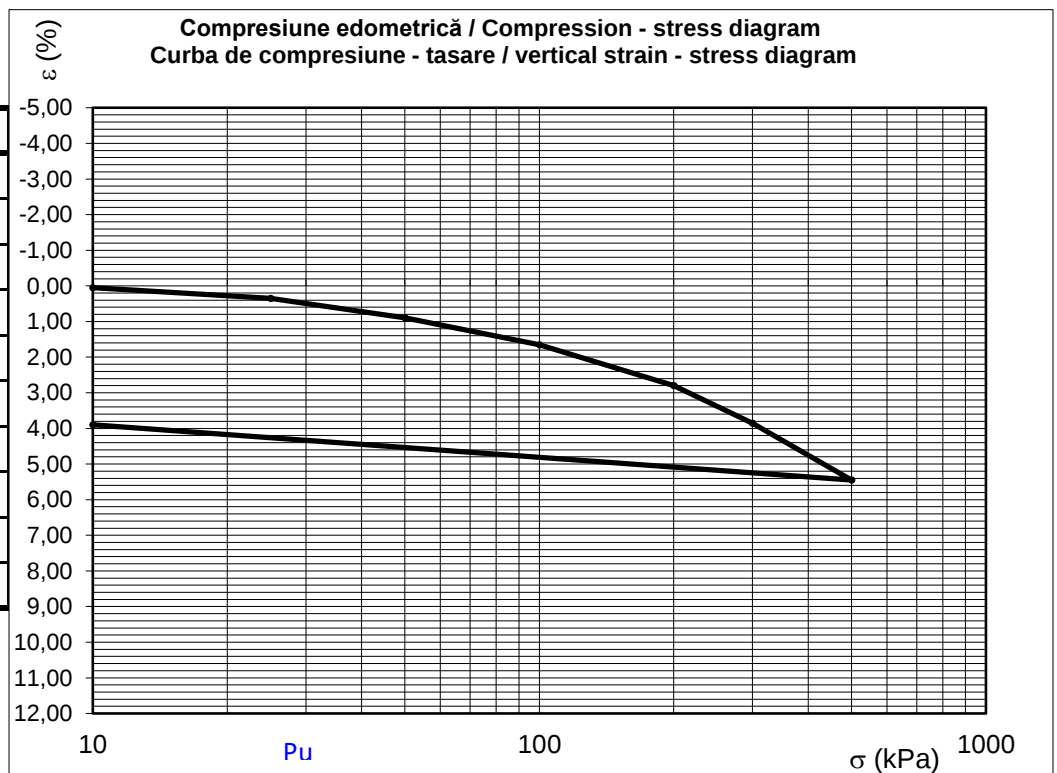
Raport de incercare nr. / Test report no. 75 1031

DETERMINAREA COMPRESIBILITATII PAMANTURILOR PRIN INCERCAREA IN EDOMETRU

INCREMENTAL LOADING OEDOMETER TEST

STAS 8942/1-89

Indici fizici	INITIAL	FINAL
$m_u(g)$	152,89	148,71
$m_d(g)$	123,71	123,71
$V(cm^3)$	74,74	71,57
$w(%)$	23,59	20,21
$r(g/cm^3)$	2,05	2,08
$r_d(g/cm^3)$	1,66	1,73
$r_s(g/cm^3)$	2,65	2,65
$n(%)$	37,54	34,78
$e(-)$	0,601	0,533
$S(-)$	1,00	1,00



$s(kPa)$	$e(%)$	$M(kPa)$	$mv(1/kPa)$	$av(1/kPa)$
10	0,05			
25	0,35			
50	0,90			
100	1,65			
200	2,80			
300	3,85	9523,8	1,05E-04	1,68E-04
500	5,45	12500,0	8,00E-05	1,28E-04
10	3,90			

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Nisip praos galbui-cenusiu

Executat de / Performed by:

ing. Nina IOSIF

COD PROBA 75 1031

Data / Date: 17.12.2020

SEF LABORATOR / LABORATORY HEAD

Constanta ANDREI

