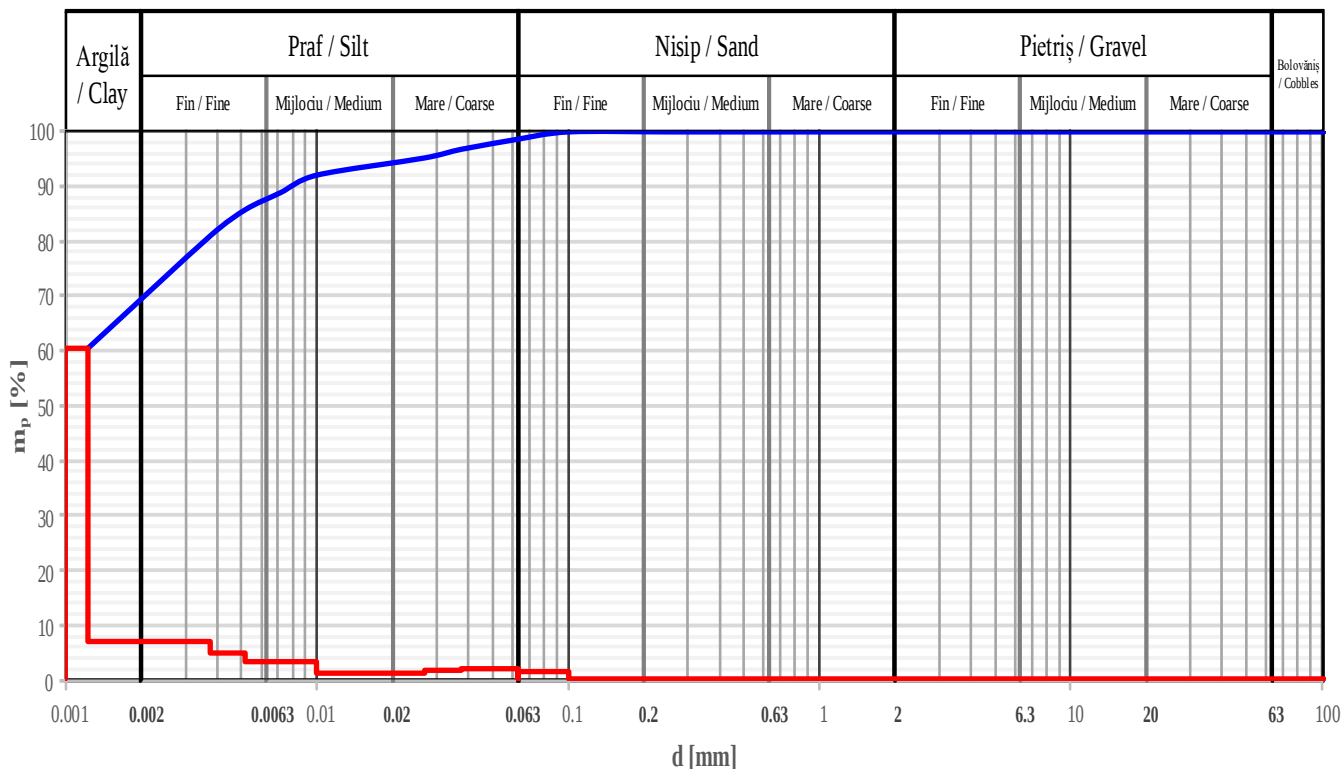


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTS 70
 Proba/Sample: PNT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no. 75 1018



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 / Clay (CI)													
cenusie													
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 (mSi)	Mare (cSi)	Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)			
		67	32			1			0			0	
		< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20		< 63	< 200mm
%	67	21	6	5	1	0	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

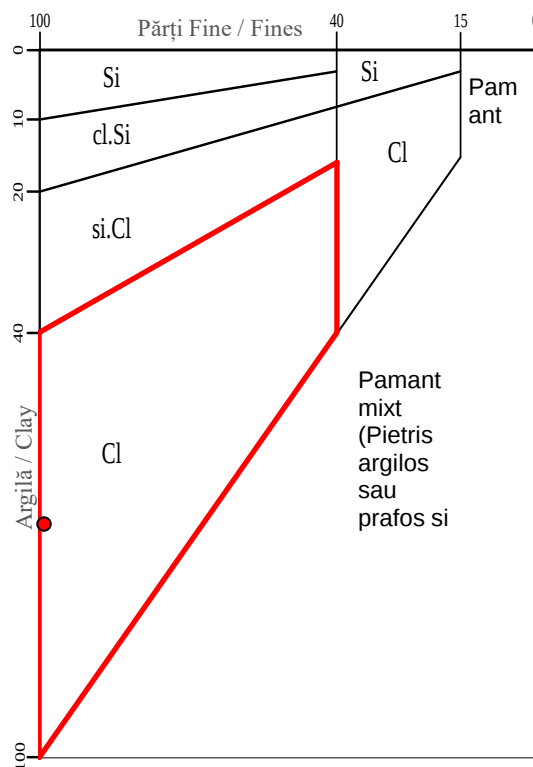
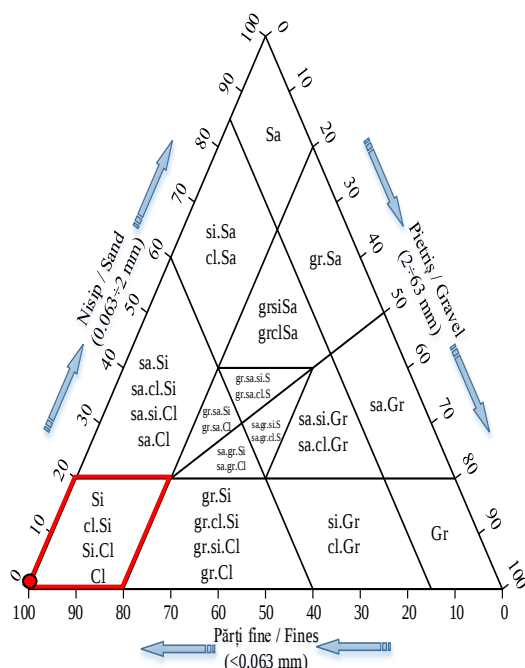


Data / Date: 17.12.2020

COD PROBA 75 1018

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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	100,0
	0,10	100,0
	0,063	98,7
	0,063	98,68
	0,037	96,82
	0,027	95,24
	0,019	94,19
	0,014	93,13
	0,010	92,08
	0,007	88,92
	0,005	85,75
	0,004	81,01
	0,003	74,16
	0,002	67,30
	0,001	60,45



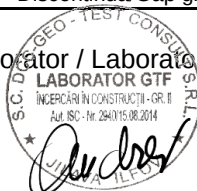
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

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	67	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	32			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	1	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 1018

Raport de incercare nr. / Test report no. 75 1019

**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						
					45	33	23	16			
PROBA UMEDA + TARA A (gr)		150,00			31,97	33,95	31,93	34,62	18,58	18,74	19,42
PROBA USCATA + TARA B (gr)		120,91			23,08	24,47	23,16	24,84	17,65	17,77	18,33
TARA C (gr)					12,64	13,66	13,42	14,23	14,09	13,98	14,26
A - B		29,09			8,89	9,48	8,77	9,78	0,93	0,97	1,09
B - C		120,91			10,44	10,81	9,74	10,61	3,56	3,79	4,07
W(%) = (A-B)/(B-C)*100		24,06			85,11	87,66	89,99	92,17	26,11	25,56	26,83
W(%) MEDIU			24,06				89,52			26,16	

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

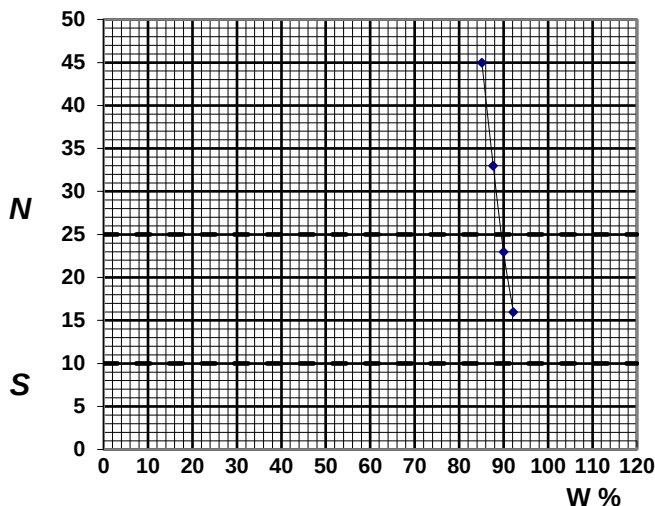
Argila cenusie cu FeO si diseminatii calcaroase tare / very stiff consistency

SR EN ISO 14688/1/2-2018

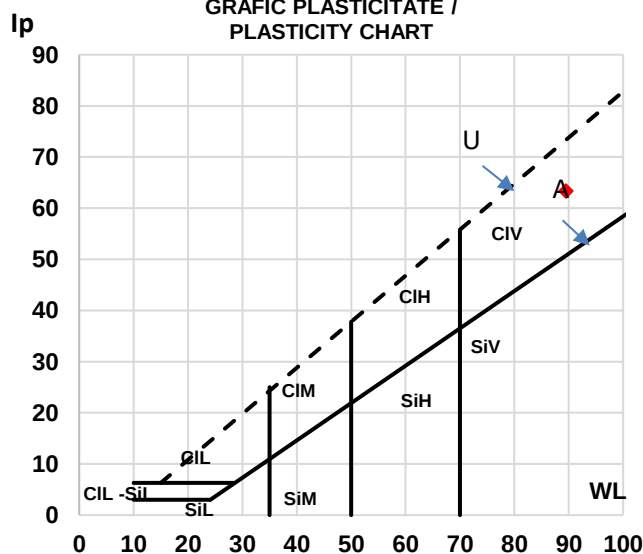
Pamant fin cu plasticitate foarte mare / Fine soil, very high plasticity

CIV

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 =	26,16	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	24,06	%	Cl Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	89,52	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _p =W _L -W _P	63,36	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _c = (W _L - W) / I _p	1,03			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _l = (W - W _P) / I _p	-0,03			O	organici	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 17.12.2020

COD PROBA 75

1019

Sef Laborator / Laboratory head: Constanta ANDREI



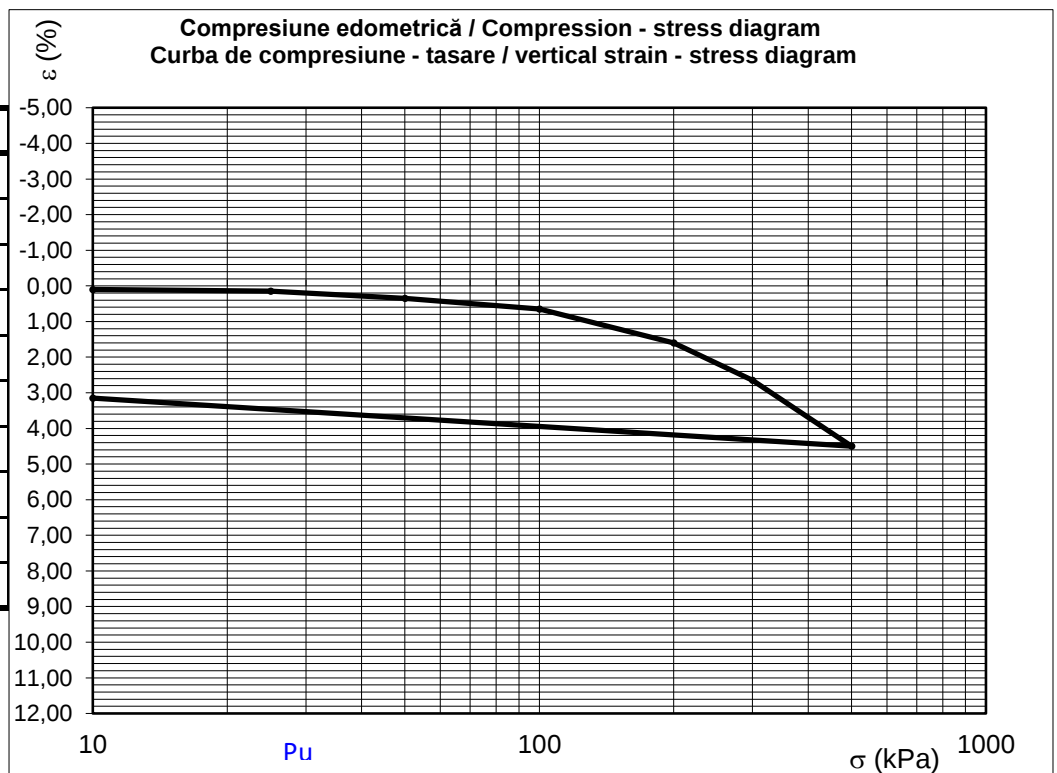
Raport de incercare nr. / Test report no. 75 1020

DETERMINAREA COMPRESIBILITATII PAMANTURILOR PRIN INCERCAREA IN EDOMETRU

INCREMENTAL LOADING OEDOMETER TEST

STAS 8942/1-89

Indici fizici	INITIAL	FINAL
$m_u(g)$	141,65	141,46
$m_d(g)$	114,61	114,61
$V(cm^3)$	75,93	73,07
$w(%)$	23,59	23,43
$r(g/cm^3)$	1,87	1,94
$r_d(g/cm^3)$	1,51	1,57
$r_s(g/cm^3)$	2,72	2,72
$n(%)$	44,51	42,34
$e(-)$	0,802	0,734
$S(-)$	0,80	0,87



$s(kPa)$	$e(%)$	$M(kPa)$	$mv(1/kPa)$	$av(1/kPa)$
10	0,10			
25	0,15			
50	0,35			
100	0,65			
200	1,60			
300	2,65	9523,8	1,05E-04	1,89E-04
500	4,50	10810,8	9,25E-05	1,67E-04
10	3,15			

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Argila cenusie cu FeO si diseminatii calcaroase

tare / very stiff consistency

Executat de / Performed by:

ing. Nina IOSIF

COD PROBA 75 1020

Data / Date: 17.12.2020

SEF LABORATOR / LABORATORY HEAD

Constanta ANDREI

