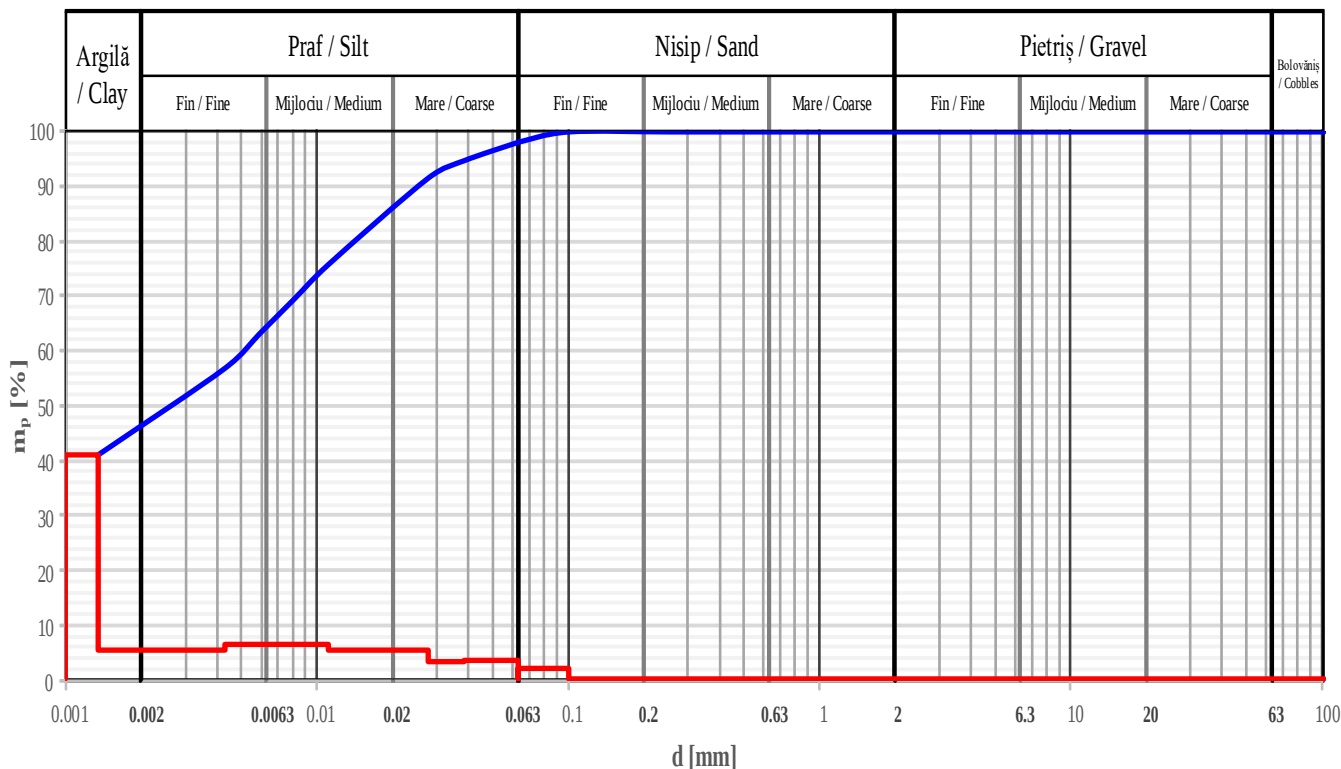


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTS 72
 Proba/Sample: PNT 2
 Adancimea/Depth(m): 2,00

Raport de incercare nr. / Test report no. 75 1021

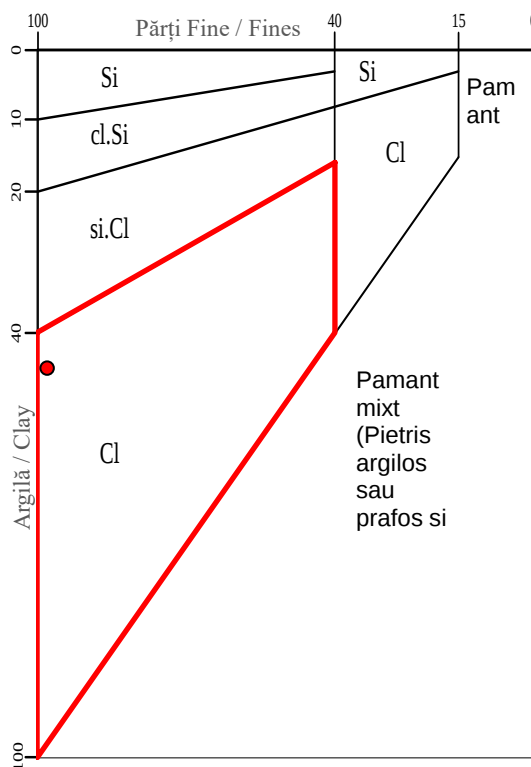
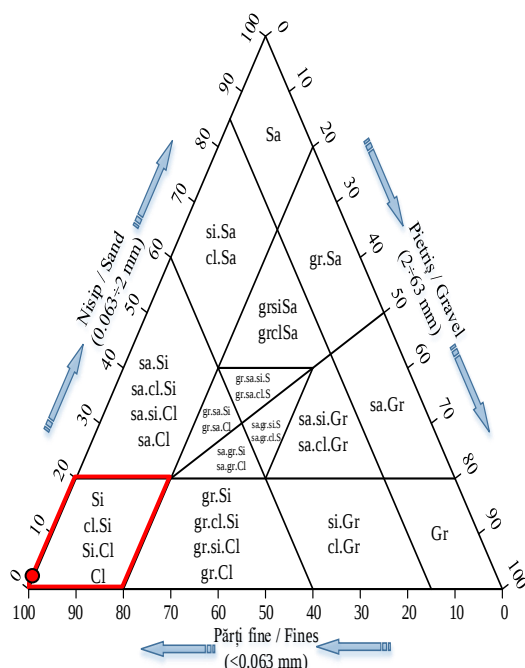


Curba granulometrica / Granulometric curve

Identificarea si clasificarea pamanturilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila / Clay (Cl)											
cenusie-negricioasa Un = #N/A											
Conform SR EN ISO 14688/2-2005, la cerinta beneficiarului	Pamant fin / Fine				Pamant grosier / Coarse						Pamant foarte grosier /
	Argila (Cl)	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)	
	45	53			2			0			0
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
	%	45	19	22	12	2	0	0	0	0	0

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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	98,1
	0,063	98,10
	0,038	94,72
	0,028	91,56
	0,020	86,29
	0,015	81,02
	0,011	75,75
	0,008	69,42
	0,006	63,10
	0,004	56,77
	0,003	51,50
	0,002	46,23
	0,001	40,96



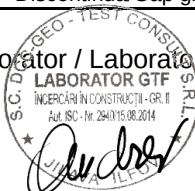
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

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	45	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	53			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	2	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 1021

Raport de incercare nr. / Test report no. 75 1022

**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	22	14			
PROBA UMEDA + TARA A (gr)		150,00			57,45	59,52	57,99	60,73	33,03	33,23	33,84
PROBA USCATA + TARA B (gr)		127,97			43,99	45,38	44,07	45,75	31,44	31,56	32,12
TARA C (gr)					22,74	23,76	23,52	24,33	24,19	24,08	24,36
A - B		22,03			13,46	14,14	13,92	14,98	1,59	1,67	1,72
B - C		127,97			21,25	21,62	20,55	21,42	7,25	7,48	7,76
W(%) = (A-B)/(B-C)*100		17,21			63,33	65,41	67,74	69,92	21,91	22,36	22,14
W(%) MEDIU			17,21				66,96			22,14	

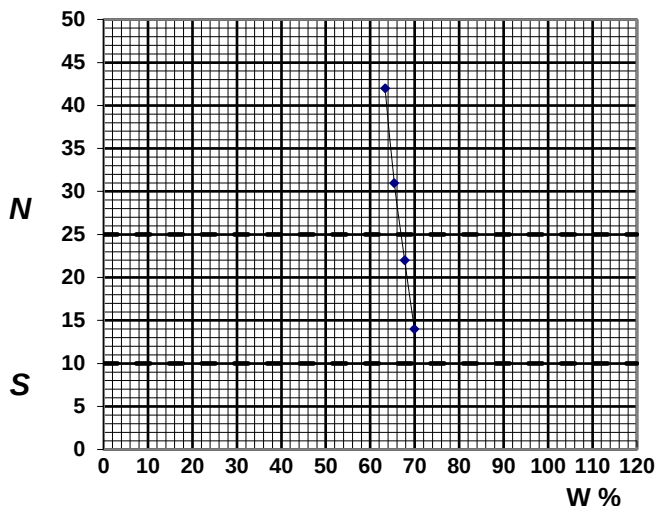
DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Argila cenusie-negricioasa cu calcar degradat tare

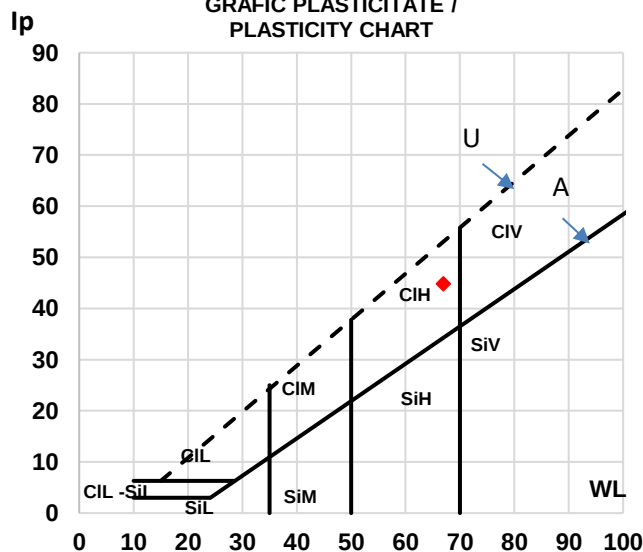
SR EN ISO 14688/1/2-2018 Pamant fin cu plasticitate mare / Fine soil, heigh plasticity

CIH

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 =	22,14	%	Tip pamant / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	17,21	%	Cl Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	66,96	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	44,82	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	1,11			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P	-0,11			O	organice	

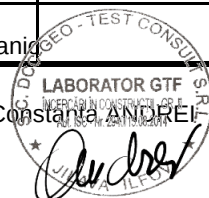
Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 17.12.2020

COD PROBA 75

1022

Sef Laborator / Laboratory head: Constanta ANDREI



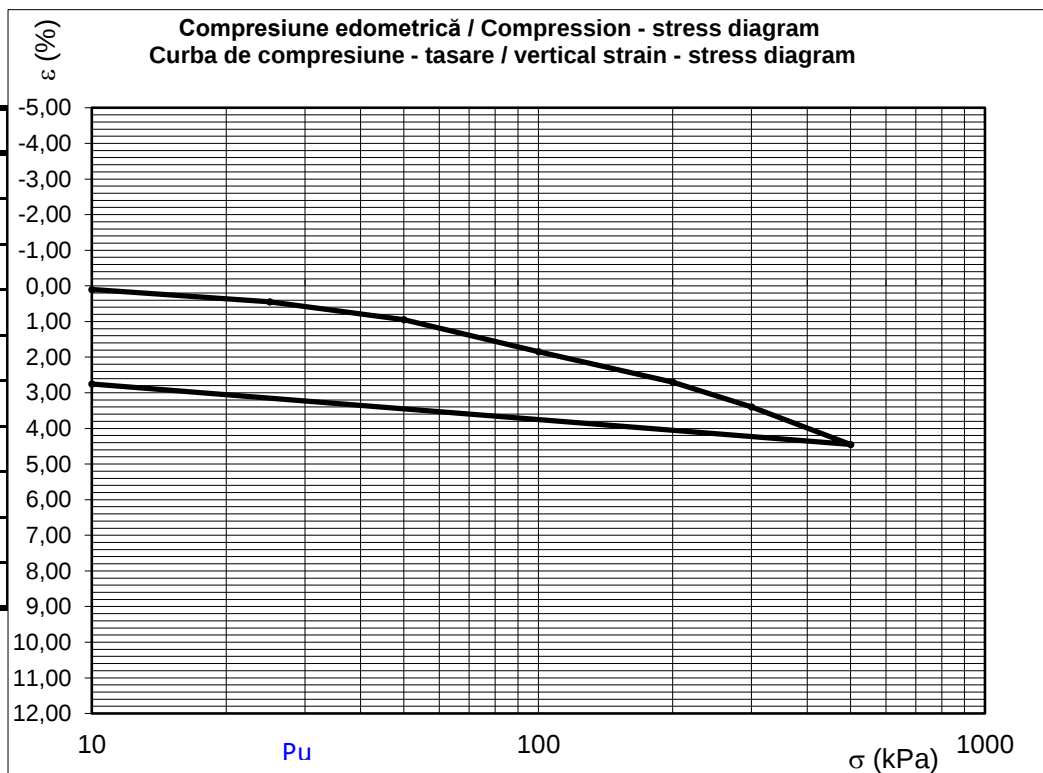
Raport de incercare nr. / Test report no. 75 1023

DETERMINAREA COMPRESIBILITATII PAMANTURILOR PRIN INCERCAREA IN EDOMETRU

INCREMENTAL LOADING OEDOMETER TEST

STAS 8942/1-89

Indici fizici	INITIAL	FINAL
$m_u(g)$	144,23	143,43
$m_d(g)$	122,27	122,27
$V(cm^3)$	78,22	75,42
$w(%)$	17,96	17,31
$r(g/cm^3)$	1,84	1,90
$r_d(g/cm^3)$	1,56	1,62
$r_s(g/cm^3)$	2,72	2,72
$n(%)$	42,53	40,40
$e(-)$	0,740	0,678
$S(-)$	0,66	0,69



s (kPa)	e (%)	M (kPa)	mv(1/kPa)	av(1/kPa)
10	0,10			
25	0,45			
50	0,95			
100	1,85			
200	2,70			
300	3,40	14285,7	7,00E-05	1,22E-04
500	4,45	19047,6	5,25E-05	9,14E-05
10	2,75			

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

Argila cenusie-negricioasa cu calcar degradat

tare

Executat de / Performed by:

ing. Nina IOSIF

COD PROBA 75 1023

Data / Date: 17.12.2020

SEF LABORATOR / LABORATORY HEAD

Constanta ANDREI

