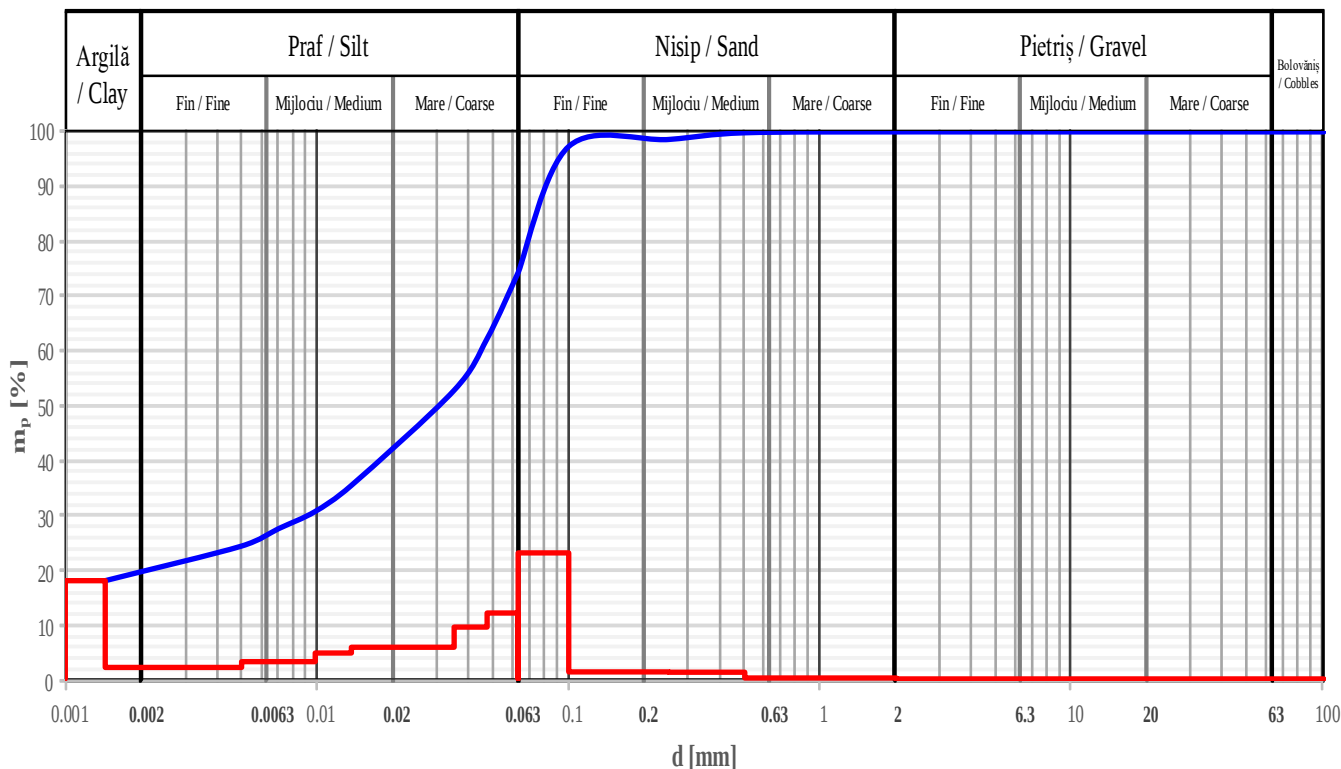


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: POD 22
 Proba/Sample: PT 7
 Adancimea/Depth(m): 7,00

Raport de incercare nr. / Test report no.75 617



Curba granulometrica / Granulometric curve

Identificarea și clasificarea pământurilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila prafoasă nisipoasă / Sandy silty clay (sa.si.ci)								cenușie	Un = #N/A		
Conform SR EN ISO 14688/2-2005, la cerința beneficiarului	Pământ fin / Fine				Pământ grosier / Coarse						Pământ foarte grosier / Very coarse
	Praf (Si)				Nisip (Sa)			Pietris (Gr)			Bolovanis (Co)
	Argila (CI)	Fin (fSi)	Mediu (mS)	Mare (cSi)	Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)	
	19	55	26	0	0	0	0	0	0	0	
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	19	7	17	31	24	2	0	0	0	0	0

CLASIFICAREA PĂMÂNTURILOR /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

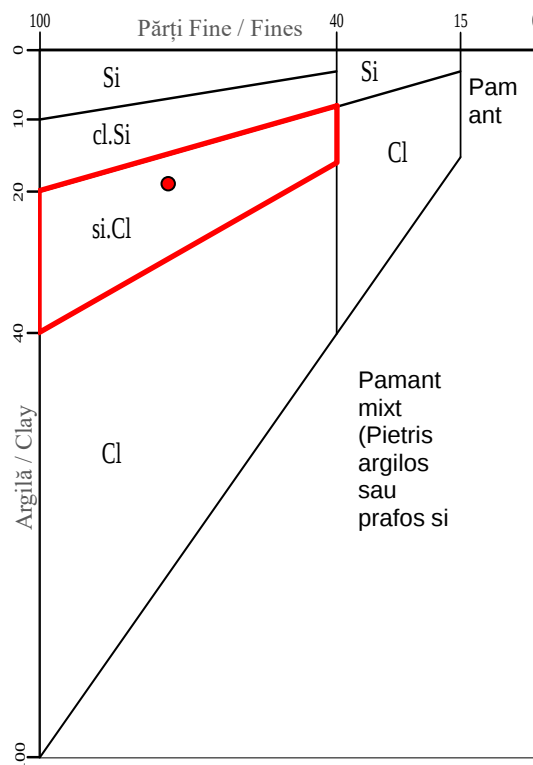
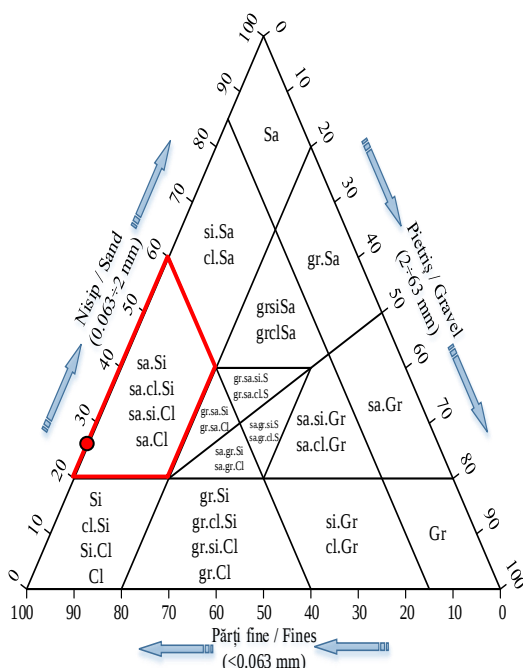


Data / Date: 16.12.2020

COD PROBA 75 617

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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	98,6
	0,10	97,3
	0,063	74,3
	0,063	74,30
	0,047	62,24
	0,035	52,75
	0,025	46,96
	0,018	41,16
	0,014	35,36
	0,010	30,61
	0,007	27,45
	0,005	24,29
	0,004	22,18
	0,003	20,07
	0,001	17,96



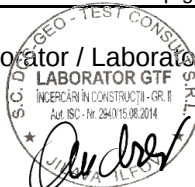
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

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	19	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	55			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	26	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 75 617

Raport de incercare nr. / Test report no.75 618

**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	22	13			
PROBA UMEDA + TARA A (gr)		150,00			27,37	29,13	27,69	29,93	18,79	18,96	19,56
PROBA USCATA + TARA B (gr)		116,29			23,89	25,28	23,97	25,65	18,22	18,34	18,90
TARA C (gr)					13,08	14,10	13,86	14,67	14,53	14,42	14,70
A - B		33,71			3,48	3,84	3,72	4,27	0,57	0,62	0,66
B - C		116,29			10,81	11,18	10,11	10,98	3,69	3,92	4,20
W(%) = (A-B)/(B-C)*100		28,99			32,22	34,39	36,76	38,93	15,56	15,90	15,83
W(%) MEDIU		28,99			35,97				15,77		

DESCRIEREA PROBEI /
DESCRIPTION OF THE SOIL:

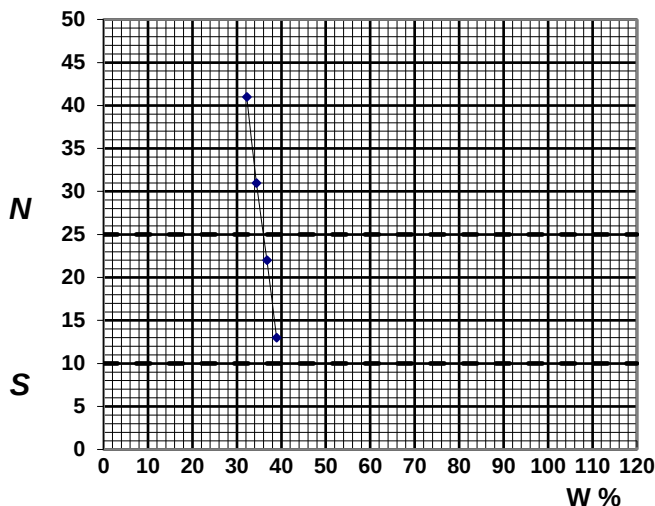
Praf nisipos argilos cenușiu plastic moale / soft
consistency

SR EN ISO 14688/1/2-2018

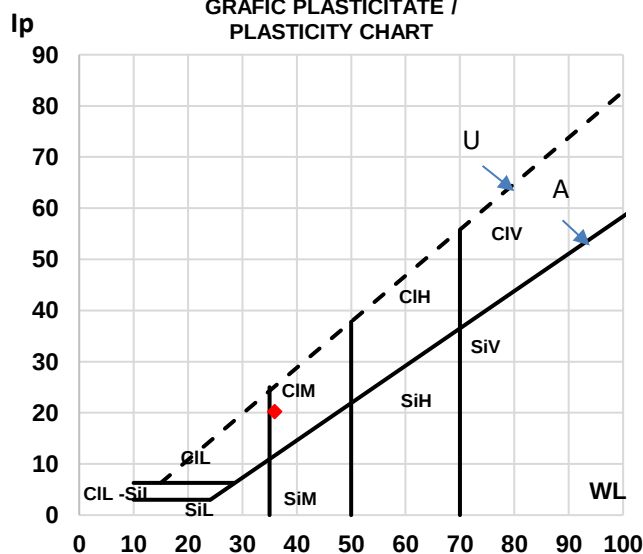
Pământ fin cu plasticitate medie / Fine soil, medium plasticity

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 =	15,77	%	Tip pământ / Type of Soil	Plasticitate / Plasticity	Limita de curgere / Liquid limit	
UMIDIT. NATUR. / NATURAL MOISTURE	W =	28,99	%	Cl Clay	Low	redușă	<35
LIMITA DE CURGERE / LIQUID LIMIT	W _L =	35,97	%	Si Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	I _P =W _L -W _P	20,20	%		Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	I _C = (W _L - W) / I _P	0,35			Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	I _L = (W - W _P) / I _P	0,65			O	organice	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 16.12.2020

COD PROBA 75

618

Sef Laborator / Laboratory head: Constanta ANDREI

