

SC INSTAL TEST SRL - level 2 laboratory
Address: 15 Hotarului St., Clinceni, Ilfov
Work venue: 100 Timișoara Avenue, District 6, Bucharest
Tel: 0751058808 J23 /1142/2013, RO 31512515
ISC (State Inspectorate for Constructions) Permit No. 3440 / 12.03.2019

Exit no. 603 / 25.05.2020

TEST REPORT

no. .888 ... of May 25, 2020

1. Client: SC SACO CONSTRUCT SRL for the
'ELIE WIESEL' NATIONAL INSTITUTE FOR THE STUDY OF THE HOLOCAUST IN
ROMANIA

2. Objective: Ug + Gf + 8F + At building, 218 Calea Victoriei, District 1, Bucharest

3. Contract no.: it 611 / 11.05.2020

4. Tested object: Concrete in structures; identified according to table 1.

5. Identification of the method / standard used to perform the test:

SREN 12504-2:2013. Test on concrete in structures. Part 2: Non-destructive tests.

Determining the recoil index.

SREN 12504-4:2009. Test on concrete in structures. Part 4: Determining the propagation speed of
ultrasounds.

NP 137-2014 – Norm regarding the in-situ assessment of the concrete strength in current constructions.

6. Description and identification of the item subjected to testing:

Concrete in structures; identified according to table 1.

7. Registered in the laboratory with entry no. / date: 603 / 13.05.2020

8. Laboratory coding: V97

9. Date of testing: May 13, 2020

10. Removal and conditioning the samples:

Not applicable.

11. Statement:

We hereby declare at our own risk that the tests were not carried out under any kind of pressure.

12. Remarks:

The test report refers only to the tested samples.

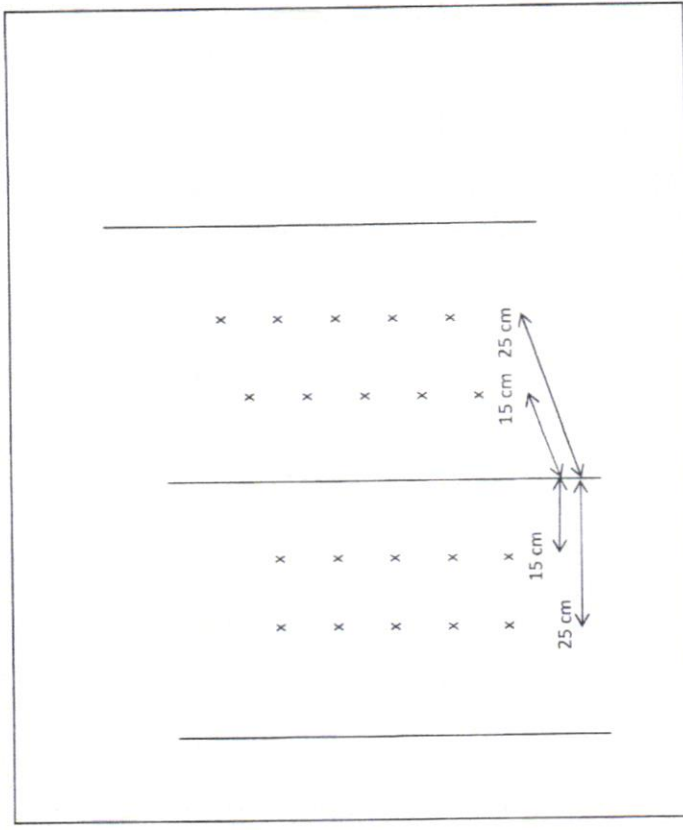
This report contains ... 14 Pages (13 addenda).

The test report may not be copied or used for other purposes without the written approval of the
laboratory.

Test report no.: 888 / 25.05.2020

Tabel 1 - Rezultatele incercarilor

Date referitoare la beton:		Tipul cimentului	Dozajul (kg/mc)	Natura agregatului	Dimensiunea maxima a granulei (mm) C Φ	Fractia fina C Φ	Varsta betonului C ν	Coefficientul total de influenta			
Coefficienii de influenta		1.00	1.00	1.00	1.00	1.00	<1 an	0.90			
Elementul	Nr per Sectiu	Grosimea (cm)	Imp (sec)	V (m/s)		Sclerometru	Rezistenta efectiva N/mm 2	Ct	Rezistenta realizata N/mm 2	Obs	
				Ind	Med						Ind
stalp S1 etaj 3 ax 1/4	1	21.21	52.8	4017		38/38				x	
	2	21.21	53.1	3994		36/36				x	
	3	21.21	54.2	3913	3935	36/35	36	22.1	19.89	x	
	4	21.21	55.8	3801		35/35				x	
	5	21.21	53.7	3950		35/34				x	
	6	29.15	72.2	4037		36/35				x	
	7	29.15	73.0	3993		36/35				x	
	8	29.15	72.5	4021	3974	35/36	35	22	19.80	x	
	9	29.15	74.3	3923		34/35				x	
	10	29.15	74.8	3897		32/34				x	
	11	35.35	87.2	4054		32/35				x	
	12	35.35	88.4	3999		35/35				x	
	13	35.35	89.1	3967	3991	32/36	35	21.2	19.08	x	
	14	35.35	88.3	4003		35/35				x	
	15	35.35	89.9	3932		35/37				x	
							19.6				N/mm 2

**14. Interpretare:**

Rezistenta caracteristica la compresiune in-situ a zonei de incercare este cea mai mica

dintre valorile:

 $f_{ck, is} = f_m(n), is = 1,48x_s$

sau

 $f_{ck, is} = f_{is, min} + 4$ $f_{ck, is} = 15.2 \text{ N/mm}^2$ $s = 3 \text{ N/mm}^2$ abaterea standard $f_{ck, is} = 23.1 \text{ N/mm}^2$

15.2 < 23.1

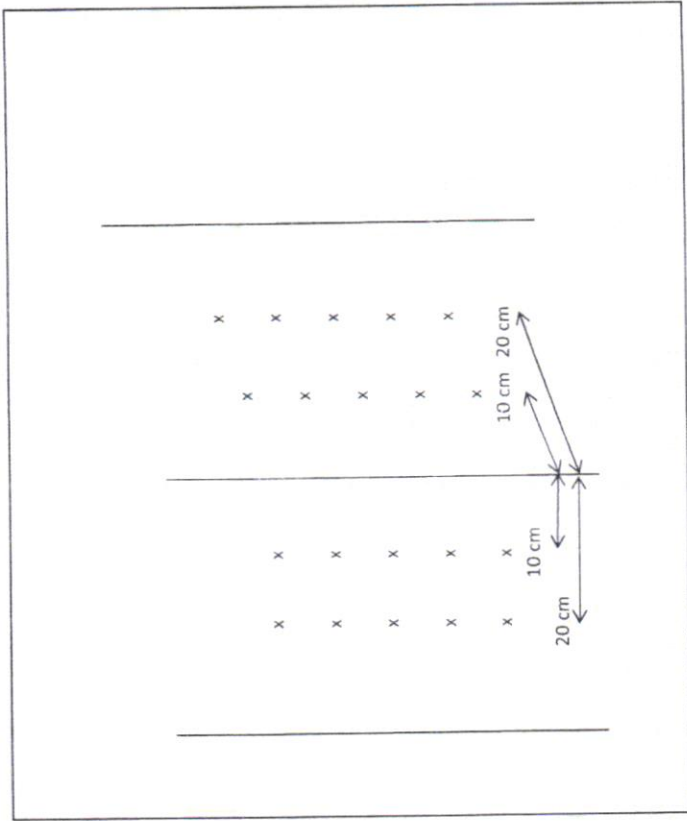
Rezistenta caracteristica la compresiune in situ a zonei de incercare este 15.2 N/mm 2 .

Clasa de rezistenta la compresiune in conformitate cu NE 012/1 este C 12/15 (tabel 6.1-NP 137-2014)

Intocmit
Sef laborator
Specialist incercari nedestructive
ing Tanase Iulian

Tabel 1 - Rezultatele incercarilor

Date referitoare la beton.	Tipul cimentului	Dozajul (kg/mc)	Natura agregatului	Dimensiunea maxima a granulei (mm) C ^Φ	Fractia fina C _g	Varsta betonului C _v	Coeficientul total de influenta				
								C _c	C _a	C _g	C _v
Coeficientii de influenta	1.00	1.00	1.00	1.00	1.00	<1 an	0.90				
TABEL DE CALCUL AL REZISTENTELOR											
Elementul	Nr per. Sectiu	Grosimea (cm)	timp (sec)	V (m/s)		Sclerometru		Rezistenta efectiva N/mm ²	Cl.	Rezistenta realizata N/mm ²	Obs
				Ind	Med	Ind	Med				
stalp S2 etaj 3 ax F/2	1	14.14	35.3	4006		36.35					datele de confectionare ale betonului nu se cunosc astfel incat coeficientii de corectie au fost considerati egali cu 1.00
	2	14.14	36.2	3906		36.35					
	3	14.14	35.7	3961	3957	35.37	36	22.6	0.90	20.34	
	4	14.14	35.1	4028		34.36					
	5	14.14	36.4	3885		35.38					
	6	22.36	54.6	4095		35.38					
	7	22.36	55.2	4051		32.38					
	8	22.36	55.7	4014	4028	34.37	36	24.1	0.90	21.69	
	9	22.36	56.3	3972		35.38					
	10	22.36	55.8	4007		35.36					
	11	28.28	74.2	3811		34.36					
	12	28.28	73.7	3837		38.36					
	13	28.28	72.1	3922	3834	34.37	36	20.3	0.90	18.27	
	14	28.28	73.4	3853		35.36					
	15	28.28	75.5	3746		34.37					
									20.1	N/mm ²	



14. Interpretare:

Rezistenta caracteristica la compresiune in-situ a zonei de incercare este cea mai mica

dintre valorile:

$f_{ck,js} = f_{m(n),js} - 1.48 \times s$

sau

$f_{ck,js} = f_{is, min} + 4$

$15.7 < 22.3$

$f_{ck, is} = 15.7 \text{ N/mm}^2$

$s = 3 \text{ N/mm}^2$ abaterarea standard

$f_{ck, is} = 22.3 \text{ N/mm}^2$

Rezistenta caracteristica la compresiune in situ a zonei de incercare este 15.7 N/mm².

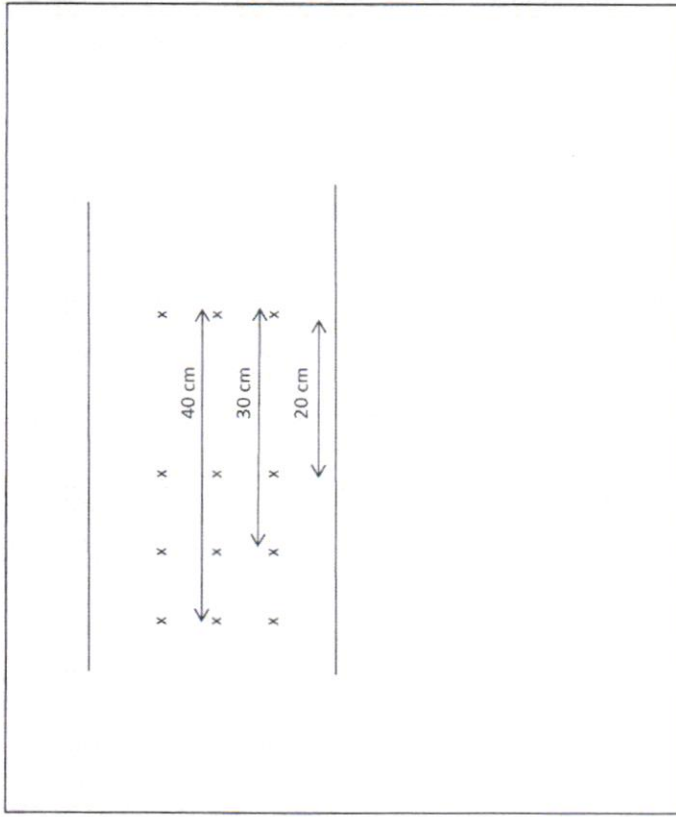
Clasa de rezistenta la compresiune in conformitate cu NE 012/1 este C 12/15 (tabel 6.1-NP 1.37-2014)

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Sef laborator
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Tabel 1 - Rezultatele incercarilor

Date referitoare la beton:	Tipul cimentului	Dozajul (kg/m ³)	Natura agregatului	Dimensiunea maxima a granulei (mm) C*	Fractia fina Cg	Varsta betonului Cv	Coeficientul total de influenta					
								Cc	Cd	Ca	C*	Cg
Coeficientii de influenta	1.00	1.00	1.00	1.00	1.00	<1 an	0.90					
TABEL DE CALCUL AL REZISTENTELOR												
Elementul	Nr per Sectiu	Grosimea (cm)	timp (sec)	V (m/s)		Sclerometr		Rezistenta efectiva N/mm ²	Ct	Rezistenta realizata N/mm ²	Obs	
				Ind	Med	Ind	Med					
grinda G1 etaj 3 ax D/4-5	1	20	49.2	4065		37	35				datele de confectionare ale betonului nu se cunosc astfel incat coeficientii de corectie au fost considerati egali cu 1.00	
	2	20	51.3	3899		36	36					
	3	20	52.0	3846	3899		35	37	36	21.4		
	4	20	51.7	3868		34	37					
	5	20	52.4	3817		37	36					
	6	30	74.6	4021		36	35					
	7	30	75.5	3974		35	35					
	8	30	74.9	4005	3981		37	34	35	22		
	9	30	75.1	3995		34	37					
	10	30	76.7	3911		36	35					
	11	40	102.2	3914		35	35					
	12	40	101.4	3945		35	37					
	13	40	102.7	3895	3932		36	37	36	22		
	14	40	101.6	3937		37	35					
	15	40	100.8	3968		36	36					
19.6										N/mm ²		

**14. Interpretare:**

Rezistenta caracteristica la compresiune in situ a zonei de incercare este cea mai mica

dintre valorile:

 $f_{ck, is} = f_{m(n), is} - 1,48 \times s$

sau

 $f_{ck, is} = f_{is, min} + 4$

15.2 < 23.3

 $f_{ck, is} = 15.2 \text{ N/mm}^2$ $s = 3 \text{ N/mm}^2$ abaterea standard $f_{ck, is} = 23.3 \text{ N/mm}^2$ Rezistenta caracteristica la compresiune in situ a zonei de incercare este 15.2 N/mm².

Clasa de rezistenta la compresiune in conformitate cu NE 012/1 este C 12/15 (tabel 6.1-NP 137-2014)

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