

PRICE LIST Lab. MARE

SECTIONS SIL e SIMP

(Performs chemical Investigations)

(Mineralogical-petrographical Investigations)

	DESCRIPTION OF TEST	UNIT PRICE €
INSTRUMENTAL TESTS		
1	Termoponderal analysis including preparation	80,00
2	Ion chromatography (anions and cations) excluding preparation	80,00
3	X-ray diffraction, including preparation	100,00
4	X-ray fluorescence, including preparation	90,00
5	Optical microscopy (thin and shine section)	60,00
6	Granulometry (for each sieve), including preparation	15,00
LABORATORIAL TESTS		
TESTS ON PLASTER		
1	Fire loss	40,00
2	Insoluble residue	35,00
3	Content of calcium oxide (CaO)	30,00
4	Content of magnesium oxide	30,00
5	Content of aluminum oxide (Al ₂ O ₃)	30,00
6	Pozzolanicity wise	80,00
7	Curing time	60,00
8	Consistency with flowing table	50,00
9	Particle size of grinding	25,00
10	Tests of deformation	35,00
11	Blaine surface	95,00
12	Specific gravity	15,00
13	Bending tests on a set of three elements	40,00
14	Compression tests on a set of three elements	40,00
15	Determination of volumetric mass	20,00
TESTS FOR AGGREGATES FOR CONCRETE		
1	Petrographic analysis of section shines with stereoscopic	50,00
2	Petrographic thin section analysis on the mineralogical microscope	110,00
3	Grit, including form of refinement and maximum and minimum diameter	60,00
4	Percentage of fine or under 63 µm	40,00
5	Apparent volumetric mass	20,00
6	Average volumetric mass	20,00
7	Content of lumps and friable particles	25,00
8	Test with sodium sulfate or magnesium	70,00
9	Soluble sulfate content	35,00
10	Soluble chloride content	35,00
11	Equivalent in sand	30,00
12	Value of methylene blue	30,00

13	Sensitivity to freeze-thaw of coarse aggregate (single fraction)	150,00
14	Determination of calcination loss	35,00
	TESTS FOR WATER AND CONCRETE ADDITIVES	
1	Solids content	26,00
2	Specific gravity	20,00
3	Measurement of pH	15,00
4	X-ray diffraction analysis on fixed residue	100,00
5	Differential thermogravimetric analysis on fixed residue	80,00
6	Analysis of anions and cations with ionic chromatograph	80,00
7	Determination of sodium equivalent by ion chromatography	60,00
8	Determination of chlorides, sulfates, nitrates and phosphates by ion chromatography	60,00
	TESTS FOR HARDENED CONCRETE	
1	Determination of cement content in hardened concrete	70,00
2	Determination of apparent density of the concrete by hydrostatic weighing	35,00
3	Determination of water absorption under atmospheric pressure	35,00
4	Determination of resistance to degradation under freeze-thaw cycles	100,00
5	Qualitative and quantitative analysis of aggregates phase and cements using X-ray diffraction	100,00
6	Determination of carbonation depth on elements taken from concrete structures	40,00
	TESTS FOR FRESH CONCRETE	
1	Determination of volumetric mass	26,00
2	Control of composition	120,00
3	Determination of initial and final setting times	120,00
4	Study of optimization of the composition of aggregate grading, the dosage of cement, water / concrete, and the percentage of additives based on the requirements of mechanical strength, workability and durability required by client	on request
	CHEMICAL ANALYSIS	
1	Humidity	25,00
2	Fire loss	25,00
3	Anhydride carbon	25,00
4	Anhydride	25,00
5	Insoluble residue	25,00
6	Total flint	25,00
7	Trivalent oxides	25,00
8	Calcium	25,00
9	Aluminium	30,00
10	Iron	30,00
11	Potassium	30,00
12	Sodium	30,00
13	Chlorides	25,00
14	Sulphides	50,00
15	Soluble flint	50,00
16	Free lime	50,00
	TESTS FOR WATER	
1	Dissolved Solids	25,00

2	Suspended solids	25,00
3	Total Solids	25,00
4	pH	25,00
5	Conductivity	25,00
6	Hardness	25,00
7	Alkalinity	25,00
8	Chlorides	25,00
9	COD	50,00
10	Solid sediments	25,00
11	Aggressiveness of water on concrete	125,00
	TESTS FOR SOLID WASTE	
1	Migration tests	65,00
2	Eluate analysis ¹	180,00
	TESTS FOR PLASTERS AND MORTARS	
1	Separation binder / aggregate	45,00
2	Estimated ratio binder / aggregate	60,00
3	Stratigraphic examination in optic microscopy	60,00
4	Determination of CaCO ₃	30,00
5	Granulometric analysis of aggregate	55,00
6	X-ray diffraction on village binder, aggregate, bulk	90,00
7	Identification of pigmented layers	130,00

This price list of tests are determined according to the type and number of tests to do, plus IVA.
The lending and costs include: carry out the tests, writing test reports and submission of the technical report summary in duplicate, with all the deliverables and tabular charts.
The Laboratory is not responsible for delivery failures, for loss and for alteration, occurred before delivery.
After analysis, samples prepared for carrying out the tests and fragments remained as unused portion will be retained in the Laboratory for a period of 6 and 3 months respectively; after which time everything will be disposed of permanently.
Are Excluded expenses for any site inspections and taking.

SECITION SIS e SICS

(Performs diagnostic tests on the structures)
(Investigations for Conservation Sustainable)

	DESCRIPTION OF TEST	UNIT PRICE €
1	<i>Pacometer test</i> For each test up to n. 10 tests For each test well to n. 10 tests	67,00 58,00
2	<i>Sclerometer test</i> For each test up to n. 10 tests For each test well to n. 10 tests	46,00 42,00
3	<i>Ultrasonic test</i> For each test up to n. 10 tests For each test well to n. 10 tests	48,00 43,00
4	<i>Pull-out with 3 fisher</i>	32,00
5	<i>Endoscopy</i> For each test up to n. 10 tests For each test well to n. 10 tests	120,00 100,00
6	<i>Fractometer</i> For each test up to n. 10 tests For each test well to n. 10 tests	38,00 34,00
7	<i>Pilodyn</i> For each test up to n. 10 tests For each test well to n. 10 tests	37,00 33,00
8	<i>Resistograph</i> For each test up to n. 10 tests For each test well to n. 10 tests	95,00 90,00
9	<i>Thermography</i> For each test up to n. 10 tests For each test well to n. 10 tests	190,00 177,00
10	<i>Structural monitoring, with mechanical crack meters</i> For each test and up 6 months up to n. 10 tests For each test and well 6 months up to n. 10 tests For each test and up 6 months well to n. 10 tests For each test and well 6 months well to n. 10 tests	280,00 240,00 480,00 440,00
11	<i>Structural monitoring, with electronic crack meters</i> For each test and up 6 months up to n. 10 tests For each test and well 6 months up to n. 10 tests For each test and up 6 months well to n. 10 tests For each test and well 6 months well to n. 10 tests	260,00 230,00 420,00 390,00
12	<i>Micro and macroclimatic monitoring</i> For each test and up 6 months up to n. 10 tests For each test and well 6 months up to n. 10 tests For each test and up 6 months well to n. 10 tests For each test and well 6 months well to n. 10 tests	250,00 230,00 350,00 320,00
12	<i>Expenses for 2 technicians (within 600 km)</i> 1 day up to 3 days well to 3 days	400,00 350,00 300,00
13	<i>Expenses for 2 technicians (over 600 km)</i> 1 day up to 3 days well to 3 days	500,00 450,00 400,00

This price list of tests are determined according to the type and number of tests to do, plus IVA.

The lending and costs include:

- carry out the tests, writing test reports and submission of the technical report summary in duplicate, with all the deliverables and tabular charts;
- provision of all materials and equipment necessary for the execution of tests, including insurance against theft and damage, and personal accident prevention devices.

The lending and costs do not include:

- dimensional and geometric drawings of investigated elements;
- supply and installation of means of access to structure, in compliance with current safety standards;
- supply of electricity;
- care in place of equipment, specifically of the instrumentation for monitoring.

For tests not listed in this list, the prices are determined by the Director of Laboratory, on a proposal by the Head of Section.