



ISO/IEC 17025;2017

ISO/IEC 17020: 2012, Type A

מעבדות בדיקה

פעילות פיקוח

תעודת הסמכה מס' 001 המבדקה לבנין ותשתית בע"מ

כתובת אתר ייחוס: רח' הנריך הרץ 3, חוף שמן, חיפה 3223201

עד יום: 31.07.2021

בתוקף מיום: 01.08.2019

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (להלן הרש'ות) ונמצא ראוי להסמכה בהתאם לנספח פירוט היקף ההסמכה המצורף לתעודה זו, המהווה חלק בלתי נפרד ממנה ומספרו זהה למספר התעודה. הסמכה מצביעה על כשירות מקצועית ותפעול מערכת ניהול איכות בעלת הכרה בינלאומית. הארגון המוסמך על ידי הרשות, עומד בתקנים/ בדרישות המפורטים למעלה. דרישות התקנים הם לכשירות מקצועית ולמערכות ניהול, שהינן הכרחיות למתן תוצאות אמינות. הסמכה זו ניתנה בהתאם לכללי ISO/IEC 17011:2017 לפיהם פועלת הרשות ובמסגרתם מקיימת פיקוח שוטף על הארגון לצורך בחינת תפקודו המתמשך בהתאם לדרישות ההסמכה. ההסמכה תקפה כל עוד הארגון עונה לאמות המידה שנקבעו על ידי הרשות. תעודה זו אינה מהווה אישור לפי סעיף 12 לחוק התקנים.

אתי פלר

מנכ"ל

הרשות הלאומית להסמכת מעבדות

תאריך הסמכה ראשון: 01/08/1995



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Testing Laboratories
Inspection Activity

ISO/IEC 17025;2017
ISO/IEC 17020: 2012, Type A

Accreditation Certificate No. 001

Building and Infrastructure Testing Laboratory Ltd

Main site address: 3 Heinrich Hertz St., Hof Shemen, Haifa 3223201, ISRAEL

Valid from: 01.08.2019

Until: 31.07.2021

The organization was assessed by the Israel Laboratory Accreditation Authority (ISRAC) and found to be worthy of accreditation to the detailed schedule attached.

The schedule is an integral part of this certificate and is numbered with the above certificate number.

Accreditation demonstrates technical competence and operation of an internationally recognized quality management system.

The organization accredited by ISRAC complies with the standards/requirements mentioned above, meets the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically competent results. This accreditation is granted in accordance with the requirements of ISO/IEC 17011:2017, and entails periodic surveillance and reassessment by ISRAC to ensure that the organization continues to comply with the accreditation requirements.

The accreditation is valid provided that the organization continues to meet the criteria as laid down by ISRAC.

This certificate does not constitute an approval in accordance with article 12 of the standard law.

Date of first accreditation: 01/08/1995

Etty Feller
General Manager
Israel Laboratory Accreditation Authority

Date of signature 04/07/2019

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Department: Testing Laboratory

ISO/IEC 17025; 2017

Accreditation No. 001

Inspection Activity -Type A

ISO/IEC 17020; 2012

Name and Address:

Laboratory name	Building and Infrastructure Testing Laboratory Ltd.
Address	3 Heinrich Hertz St., Hof Shemen Haifa 32232 , Israel
Phone	+972-4-861-8000
Fax	+972-4-861-8001

As declared by the organization, following is a list of the permanent sites and the phones numbers at which accredited activities are preformed.

- *P* Main: **Hof Shemen**
- *PI* **Canot** +972-8-861-3100
-

Definitions:

Main site:

A central site where the quality system is controlled for all sites where tests, calibrations or sampling are preformed.

Permanent site (Branch):

Permanent or temporary site existing longer than 6 months where at, or from which, the activities part of the accreditation schedule are preformed.

Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and / or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

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Schedule of Accreditation

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks	
Group of products: Construction - Building systems				משפחת מוצרים: בניה - מערכות הבניין				
Design and Installation, Building envelope				תכנ והתקנה, מעטפת המבנה				
1	A	T	External walls and openings in external walls	קירות חיצוניים ופתחים בקירות חיצוניים	Watertightness test	בדיקת אטימות	SI 1476 part 2	---
2	A	T;	Flat roofs and balconies	גגות שטוחים ומרפסות	Watertightness test	בדיקת אטימות	SI 1476 part 1	---

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Schedule of Accreditation

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Construction - Concrete, Cladding and Raw Materials for Concrete Manufacturing					משפחת מוצרים: בניה - בטון, חיפויים וחומרי גלם לייצור בטון		
Physical Testing					בדיקות פיזיקליות		
3	A	P;T	Concrete	בטון Making and curing of test specimens	הכנת של דוגמות בדיקה ואשפרתן	SI 26 part 3	---
4	A	P:	Concrete : Specification, performance and production	בטון : דרישות תפקוד וייצור Compressive strength	חוקק הלחיצה	SI 118 section 10.3 & 10.4	---
5	A	P;T	Fresh concrete	בטון טרי Air content – Pressure gauge method	תכולת האוויר- שיטת מד לחץ	SI 26 part 2.6	---
6	A	P;T	Fresh concrete	בטון טרי Bleeding	הפרשת מים	SI 26 part 2.8	---
7	A	P;T	Fresh concrete	בטון טרי Consistency - Vebe test	בדיקת סומך בשיטת ויבי	SI 26 part 2.2	---
8	A	P;T	Fresh concrete	בטון טרי Density	צפיפות	SI 26 part 2.5	---
9	A	T;	Fresh concrete	בטון טרי Sampling	נטילת המדגם המייצג	SI 26 part 1	---
10	A	P;T	Fresh concrete	בטון טרי Setting time - Penetration resistance	זמן ההתקשרות - התנגדות לחדירה	SI 26 part 2.7	---
11	A	P;T	Fresh concrete	בטון טרי Slump test	סומך-בדיקת שקיעה	SI 26 part 2.1	Meet the requirement of IS 118 part 4.2.1

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Group of products: Construction - Concrete, Cladding and Raw Materials for Concrete Manufacturing					משפחת מוצרים: בניה - בטון, חיפויים וחומרי גלם לייצור בטון			
Physical Testing					בדיקות פיזיקליות			
12	A	P	Freshly Mixed Portland Cement Concrete בטון צמנט פורטלנד מעורב טרי	Temperature measurement	מדידת טמפרטורה	ASTM C-1064	---	
13	A	P;T	Hardened concrete	בטון קשוי	Capillary absorption	ספיגות נימית	SI 26 part 5 Section 206	
14	A	P	Hardened concrete	בטון קשוי	Compressive Strength	חוזק לחיצה	SI 26 part 4.1	
15	A	P	Hardened concrete	בטון קשוי	Depth of penetration of water under pressure	עומק החדירה של מים בלחץ	SI 26 part 5 section 205	
16	A	P	Hardened concrete	בטון קשוי	General	כללי	SI 26 part 5 section 201	
17	A	P	Hardened concrete	בטון קשוי	Moisture content when dry in air	תכולת הרטיבות במצב יבש באוויר	SI 26 part 5 section 203	
18	A	P;T	Hardened concrete	בטון שהתקשה במבנה	Sampling, preparing and testing compressive strength	נטילה, הכנה ובדיקת חוזק	SI 26 part 6	
19	A	P	Hardened concrete	בטון קשוי	Specific density	מסה סגולית מרחבית	SI 26 part 5 section 202	
20	A	P	Hardened concrete	בטון קשוי	Tensile splitting Strength	חוזק מתיחה לא ישירה	SI 26 part 4.3	
21	A	P	Non-structural lightweight concrete	בטון קל לשימושים לא מבניים	Compressive strength	חוזק הלחיצה	SI 1513 section 203	

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Schedule of Accreditation

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Group of products: Construction - Concrete, Cladding and Raw Materials for Concrete Manufacturing					משפחת מוצרים: בניה - בטון, חיפויים וחומרי גלם לייצור בטון				
Physical Testing					בדיקות פיזיקליות				
22	A	P;T	Non-structural lightweight concrete	בטון קל לשימושים לא מבניים	Sampling	נטילת מדגמים והכנת דוגמות בדיקה	SI 1513 section 107	---	
23	A	P;T	Non-structural lightweight concrete	בטון קל לשימושים לא מבניים	Specific density	מסה סגולית מרחבת	SI 1513 section 202	---	
24	A	P;T	Prestressed concrete	בטון דרוך	Grout	דיס	ASTM C940 10a	Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory	
25	A	P;T	Prestressed concrete	בטון דרוך	Grout	דיס	SI 466 part 3 section 31.3	---	

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Group of products: Construction - Engineering Testing					משפחת מוצרים: בניה - בדיקות הנדסיות			
Carpentry Work in Buildings and Shelters and protected areas					ממדים מקלטים ונגרות במבנים			
26	A	T	Air-raid shelters and protective areas	מקלטים ומרחבים מוגנים	Sealing test	בדיקת אטימות	SI 4577	---
27	A	T	Protected areas	מרחבים מוגנים	Internal coating and cladding systems	מערכות של ציפויים וחיפויים פנימיים	SI 5075	---
28	A	T	Air ventilation and filtration systems for air-raid shelters	מערכת לאוורור ולסינון של אוויר במקלטים	Installation and testing	התקנה ובדיקות מערכת	SI 4570 part 4 section 3.2, 3.3	---

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Group of products: Engineering Items - Buildings, Constructions, Infrastructure and Concrete				משפחת מוצרים: פריטים הנדסיים - מבנים, תשתיות ובטון			
Non Destructive Tests				בדיקות לא הורסות			
29	A	P;T	Piles	כלונסאות Integrity testing by ultrasonic crosshole testing	בדיקת רציפות בשיטה על-קולית (אולטרסונית) ASTM-D-6760	---	
30	A	P;T	Piles	כלונסאות Low strain integrity testing	בדיקת רציפות בשיטה חד-קולית (סונית) ASTM-D-5882	---	PEM only

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Engineering Items - Buildings, Constructions, Infrastructure and Concrete				משפחת מוצרים: פריטים הנדסיים - מבנים, תשתיות ובטון			
Physical and Engineering Testing				בדיקות פיזיקליות והנדסיות			
31	A	T	Suspended detachable ceiling	תקרות תותב פריקות Specification for performance of components and assemblies	דרישות תפקוד של רכיבים ומכלולים SI 5103 part 3 section 8	---	
32	A	T	Suspended detachable ceiling in shelters and protected areas	תקרות תותב פריקות במקלטים ומרחבים מוגנים Ceiling completion test	בדיקת התקרה המוגמרת SI 5103 part 4 section 10	---	
33	A	T	Non detachable suspended ceiling of Gypsum board	תקרות תותב לא פריקות מלוחות גבס Installation	התקנה SI 1924 section 5	---	

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Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks			
Group of products: Environment - Soil, Aggregates and Water				משפחת מוצרים: איכות סביבה - קרקע אגרגטים ומים					
Chemical Testing, Classical Chemistry, Wet Chemistry Measurements				בדיקות כימיות, כימיה קלאסית, מדידות כימיה רטובה					
34	A	P1	Soil	קרקע	Determination of carbonate content (by rapid titration method)	קביעת תכולת הקרבונט	BS 1377 part 3; Section 6	---	
35	A	P1	Soil	קרקע	Determination of sulfate content of soil and ground water	קביעת תכולת הגופרית בקרקע ומי תהום (SO ₃)	BS 1377 part 3; Section 5.3; 5.5	---	
36	A	P1	Soil	קרקע	Determination of the mass loss on ignition	קביעת איבוד משקל בקליה (של חומר אורגני בקרקע)	BS 1377 part 3; Section 4	---	
37	A	P1	Soil	קרקע	Determination of water – soluble chloride content	קביעת תכולת כלוריד מסיס במים	BS 1377 part 3; Section 7.2	---	
38	A	P1	Soil	קרקע	Determination of the pH value	קביעת ערך ההגבה	BS 1377 part 3; Section 9	---	
39	A	P1	Soil	קרקע	General requirements and sample preparation	דרישות כלליות והכנת דוגמא	BS 1377 part 1; Section 7.5	---	

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Group of products: Soil and Paving					משפחת מוצרים: קרקע וסלילה			
Base Construction					ביסוס המבנה			
40	A	_P1	Cohesive soils	קרקעות קוהזיביות	Consolidated undrained triaxial compression test (CU)	גזירה מרחבית בלתי מנוקזת לאחר קונסולידציה (CU)	ASTM-D-4767	---
41	A	P	Cohesive soils	קרקעות קוהזיביות	Hydraulic conductivity using a flexible wall permeamete	בדיקת מוליכות הידראולית בתא גזירה מרחבית עם דופן רכה	ASTM-D-5084	---
42	A	P	Cohesive soils	קרקעות קוהזיביות	One-dimensional swell or settlement potential	פוטנציאל לתפיחה או לשקיעה חד צרית	ASTM-D-4546	---
43	A	P	Cohesive soils	קרקעות קוהזיביות	Unconfined compressive strength	חוזק הלחיצה בלא כלוא	ASTM-D-2166	---
44	A	_P1	Cohesive soils	קרקעות קוהזיביות	Unconsolidated-undrained triaxial compression test (QU)	גזירה מרחבית בלתי מנוקזת ללא קונסולידציה (QU)	ASTM-D-2850	---
45	A	P	Intact rock core specimens	גלעיני סלע שלמים	Splitting tensile strength	חוזק למתיחה בבקיעה	ASTM-D-3967	---
46	A	P	Intact rock core specimens	גלעיני סלע שלמים	Unconfined compressive strength	חוזק הלחיצה בלא כלוא	ASTM-D-7012 method C	---
47	A	P	Rock	סלע	Determination of the point load strength index	בדיקת אינדקס חוזק נקודתי	ASTM-D-5731	---
48	A	T	Rock core	גלעיני סלע	Core drilling and sampling for site investigation	קידוח גלעיני סלע לחקירת אתר	ASTM-D-2113	---
49	A	P; T	Soil	קרקעות	Classification for engineering purposes (unified soil classification system)	מיון קרקעות למטרות הנדסה אורחית	ASTM-D-2487	---

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Group of products: Soil and Paving							משפחת מוצרים: קרקע וסלילה
Base Construction							ביסוס המבנה
50	A	P; T	Soil	קרקעות Description and identification (visual-manual procedure)	מיון קרקעות למטרות הנדסה אזרחית בתהליך ויזואלי ידני	---	
51	A	P	Soil	קרקעות Direct shear test under consolidated drained conditions	גזירה ישירה מנוקזת לאחר קונסולידציה	---	
52	A	T	Soil	קרקעות Investigation and sampling by auger borings	דגימה בעזרת מקדח אוגר לצרכי חקירת קרקע	---	
53	A	_P1	Soil	קרקע Standard Test Method for Load Controlled Cyclic Triaxial Strength of Soil	בדיקת גזירה מרחבית מחזורית של קרקעות	---	
54	A	T	Soil	קרקעות Thin-walled tube sampling for geotechnical purposes	נטילת מדגם קרקע בלתי מופר ע"י צינור דק דופן בעזרת מכונת קידוח	---	
55	A	T;	Soil samples	מדגמי קרקע Preserving and transporting	אריזה והובלה	---	
56	A	P P1	Soil	קרקעות Measurement of collapse potential	בדיקה לקביעת פוטנציאל להתמוטטות (מייט)	---	
57	A	_P1	Soils for civil engineering purposes	קרקעות למטרות הנדסה אזרחית Consolidated drained triaxial compression test with measurement of volume change (CD)	גזירה מרחבית מנוקזת לאחר קונסולידציה כולל מדידת שינוי נפח (CD)	---	

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Schedule of Accreditation

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Group of products: Soil and Paving - Asphalts and Bitumen					משפחת מוצרים: קרקע וסלילה - אספלט וביטומן				
Chemical and Physical Testing					בדיקות כימיות ופיזיקליות				
58	A	T	Bituminous materials	חומרים ביטומניים	Sampling	נטילת המדגם המייצג	ASTM-D-140	---	ASTM= American Society for Testing and Materials
59	A	P	Bituminous mixture	תערובת ביטומנית	Resistance to plastic flow using Marshall apparatus	התנגדות לזרימה פלסטית בשיתת מרשל	ASTM-D-1559-89	---	
60	A	P	Bituminous paving mixtures	תערובות סלילה ביטומניות	Quantitative extraction from bituminous paving mixtures: Cold extraction	בדיקת התכולה הכמותית בתערובת אספלטית: מיצוי קר	ASTM-D-2172 Method A	---	
61	A	T	Bituminous paving mixtures	תערובות סלילה ביטומניות	Sampling	נטילת המדגם המייצג	ASTM-D-979	---	
62	A	P	Bituminous paving mixtures	תערובות סלילה ביטומניות	Theoretical maximum specific gravity and density	משקל סגולי וקביעת הצפיפות המקסימלית התיאורטית	ASTM-D-2041	---	
63	A	P	Compacted bituminous paving mixture specimens	דוגמאות של תערובות סלילה ביטומניות מהודקות	Thickness or height	עובי או גובה	ASTM-D-3549	---	
64	A	P	Hot asphalt mixtures	תערובות אספלטיות חמות	Analysis of compacted asphalt mixtures	אנליזה של תערובות אספלטיות מהודקות	SI 362 appendix D	---	SI= Israeli Standards
65	A	P;T	Hot asphalt mixtures	תערובות אספלטיות חמות	Stability, plastic flow and density using Marshall apparatus	בדיקת יציבות, נוילות וצפיפות בשיתת מרשל	SI 362 appendix A	---	
66	A	P	Non-absorptive compacted bituminous mixtures	תערובות אספלט ביטומניות לא סופגות	Bulk specific gravity and density	משקל סגולי וצפיפות	ASTM-D-2726	---	

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Group of products: Soil and paving - Soil, Aggregates and Water					משפחת מוצרים: קרקע וסלילה – קרקע אגרגטים ומים		
Chemical and Physical Testing					בדיקות כימיות ופיזיקליות		
67	A	P;T	Aggregates	אגרגטים Clay lumps and friable particles	אחוז בולי חרסית ASTM-C-142	---	
68	A	P;T	Aggregates	אגרגטים Clay lumps and friable particles	אחוז בולי חרסית SI 1865 part 2 chapter 7	---	Based on: ASTM C 142 Meet the requirement of SI 3
69	A	T	Aggregates	אגרגטים Practice for sampling	נטילת מדגמי קרקע ASTM-D-75	---	
70	A	T	Aggregates	אגרגטים Practice for sampling	נטילת מדגמי קרקע SI 1865 part 2 chapter 2	---	Based on: ASTM D 75
71	A	P;T	Aggregates	אגרגטים Reducing samples to testing size	חציית מדגמי קרקע ASTM-C-702	---	
72	A	P;T	Aggregates	אגרגטים Reducing samples to testing size	הכנת דוגמאות בדיקה (חצית מדגמים) SI 1865 part 2 chapter 3	---	Based on: ASTM C 702
73	A	P;T	Coarse aggregates	אגרגטים גסים Determination of particle shape: elongation index	קביעת צורת הגרגירים: מדד המאורכות BS 812 part 105.2	---	
74	A	P;T	Coarse aggregates	אגרגטים גסים Determination of particle shape: elongation index	קביעת צורת הגרגירים: מדד המאורכות SI 1865 part 2 chapter 11	---	Based on: BS 812 part 105 sec 105.2 Meet the requirement of SI 3
75	A	P;T	Coarse aggregates	אגרגטים גסים Determination of particle shape: flakiness index	קביעת צורת הגרגירים: מדד הפחיסות BS 812 part 105.1	---	
76	A	P;T	Coarse aggregates	אגרגטים גסים Determination of particle shape: flakiness index	קביעת צורת הגרגירים: מדד הפחיסות SI 1865 part 2 chapter 10	---	Based on: BS 812 part 105 sec 105.1 Meet the requirement of SI
77	A	P	Coarse aggregates	אגרגטים גסים Density, relative density (specific gravity), and absorption	צפיפות, משקל סגולי וספיגות ASTM-C-127	---	

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Group of products: Soil and paving - Soil, Aggregates and Water					משפחת מוצרים: קרקע וסלילה – קרקע אגרגטים ומים				
Chemical and Physical Testing					בדיקות כימיות ופיזיקליות				
78	A	T	Cohesive soils	קרקעות קוהזיביות	Field vane shear test	בדיקת מכנף שדה לגזירה	ASTM-D-2573	---	
79	A	P;T;	Fine aggregates	אגרגטים דקים	Amount of material finer than the no. 200 (75-um) sieve	קביעת כמות הדקים עוברים נפה 75 מק"מ (מספר 200)	ASTM-C-117	---	
80	A	P;T	Fine aggregates	אגרגטים דקים	Amount of material finer than the no. 200 (75-um) sieve	קביעת כמות הדקים עוברים נפה 75 מק"מ (מספר 200)	ASTM-D-1140	---	
81	A	P;T	Fine aggregates	אגרגטים דקים	Amount of material finer than the no. 200 (75-um) sieve	קביעת כמות הדקים עוברים נפה 75 מק"מ (מספר 200)	SI 1865 part 2 chapter 6	---	Based on: ASTM C117 Meet the requirement of SI 3
82	A	P	Fine aggregates	אגרגטים דקים	Density, relative density (specific gravity), and absorption	צפיפות, משקל סגולי וספיגות	ASTM-C-128	---	---
83	A	P	Fine and coarse aggregates	אגרגטים דקים וגסים	Density, relative density (specific gravity), and absorption	צפיפות, משקל סגולי וספיגות	SI 1865 part 2 chapter 4	---	Based on: ASTM C 127, ASTM C 128 Meet the requirement of SI 3
84	A	P	Fine and coarse aggregates	אגרגטים דקים וגסים	Resistance to degradation by abrasion and impact in the Los Angeles machine	שיעור שחיקה בשיטת לוס אנג'לס	SI 1865 part 2 chapter 8	---	Based on: ASTM C 535, C 131 Meet the requirement of SI 3
85	A	P;T	Fine and coarse aggregates	אגרגטים דקים וגסים	Sieve analysis	ניפוי	ASTM-C-136	---	---
86	A	P;T;	Fine and coarse aggregates	אגרגטים דקים וגסים	Sieve analysis	ניפוי	SI 1865 part 2 chapter 5	---	Similar to ASTM C 136 Meet the requirement of SI 3
87	A	P	Large-size coarse aggregates	אגרגטים גסים גדולי מימד	Resistance to degradation by abrasion and impact in the Los Angeles machine	שיעור שחיקה בשיטת לוס אנג'לס	ASTM-C-535	---	---

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Group of products: Soil and paving - Soil, Aggregates and Water					משפחת מוצרים: קרקע וסלילה – קרקע אגרגטים ומים			
Chemical and Physical Testing					בדיקות כימיות ופיזיקליות			
88	A	_P	Small-size coarse aggregates	אגרגטים גסים קטני מימד Resistance to degradation by abrasion and impact in the los angeles machine	שיעור שחיקה בשיטת לוס אנג'לס ASTM-C-131	---		
89	A	P;T	Soil	קרקעות Compaction characteristics using modified effort	בדיקת יחסי צפיפות רטיבות בשיטת מודיפייד ASTM-D-1557	---		
90	A	P;T	Soil	קרקעות Compaction characteristics using standard effort	בדיקת יחסי צפיפות רטיבות ASTM-D-698	---		
91	A	T	Soil	קרקעות DCP- South African pick	דקר דרום אפריקאי In house procedure	---	Based on: Prof. M. Livneh, Transportation Research Institute	
92	A	P;	Soil	קרקעות Determination of free expansion in a measuring tube	קביעת תפיחה חופשית במשורה In house procedure	---	Based on: PWD 13.110	
93	A	P;T	Soil	קרקעות Determination of Water (Moisture) Content of Soil By Direct Heating	תכולת מים (רטיבות) של קרקעות בחימום ישיר SI 1865 part 3 chapter 8	---	Based on ASTM D 4959	
94	A	P;	Soil	קרקעות Liquid limit, plastic limit, and plasticity index	גבולות נזילות, גבול פלסטיות ואינדקס הפלסטיות ASTM-D-4318	---	Meet the requirement of SI 3	
95	A	P	Soil	קרקעות One-dimensional consolidation properties	קונסולידציה חד ממדית ASTM-D-2435	---		
96	A	P;T	Soil	קרקעות Particle-size analysis	אנליזה מכנית ASTM-D-422	---	Meet the requirement of SI 3	
97	A	T	Soil	קרקעות Penetration test and split-barrel sampling	בדיקת החדרה תקנית ודגימת קרקע בגליל מופצל (SPT) ASTM-D-1586	---		

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Chemical and Physical Testing					בדיקות כימיות ופיזיקליות		
98	A	P;T	Soil	קרקעות Specific gravity by water pycnometer	משקל סגולי ASTM-D-854	---	
99	A	P;T	Soil and aggregates	קרקעות ואגרטים Compaction characteristics	בדיקת יחסי צפיפות רטיבות SI 1865 part 3 chapter 2	---	Based on ASTM D 1557 (using Modified Effort - מודיפייד-), ASTM D 698
100	A	P ,T	Soil and Aggregates	קרקעות ואגרטים Determination of minimum density of soil	קביעת צפיפות מינימאלית של קרקעות ASTM D 4254	---	
101	A	P ,T	Soil and Aggregates	קרקעות ואגרטים Determination of maximum density of soil	קביעת צפיפות מקסימאלית של קרקעות ASTM D 4253	---	
102	A	_T	Soil and aggregates	קרקעות ואגרטים Resistance of coarse aggregates to degradation by abrasion in the Micro-Deval apparatus	קביעת שיעור ההתנגדות לשחיקה של אגרנט גס במכשיר מיקרו-דיוול EN 1097-1	---	Based on:EN 13450 EN 3290
103	A	P; T	Soil and fine aggregates	קרקעות ואגרטים דקים Sand equivalent value	בדיקת שווה ערך חול ASTM-D-2419	---	
104	A	P T	Soil and fine aggregates	קרקעות ואגרטים דקים Sand equivalent value	בדיקת שווה ערך חול SI 1865 part 3 chapter 6	---	Based on ASTM D 2419
105	A	P; T	Soil and rock	קרקע וסלע Laboratory determination of water (moisture) content	תכולת מים במעבדה ASTM-D-2216	---	Included Bentonite suspension and powder לרבות אבקה ותרחיף בנטונייט
106	A	P;	Soil and soil-aggregate mixtures	קרקעות ותערובות קרקע ואגרנט CBR (California Bearing Ratio)	מנת תסבולת קליפורניית במצב רוויה ASTM-D-1883	---	The compaction based on: ASTM-D-1557 method D
107	A	P;	Soil and soil-aggregate mixtures	קרקעות ותערובות קרקע ואגרנט CBR (California Bearing Ratio)	מנת תסבולת קליפורניית במצב רוויה SI 1865 part 3 chapter 7	---	Based on ASTM D 1883 The compaction based on: ASTM-D-1557 method D

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Chemical and Physical Testing					בדיקות כימיות ופיזיקליות				
108	A	P;T	Soil and soil-aggregate mixtures	קרקעות ותערובות קרקע ואגרטי	Classification of Soils for highway construction purpose	מיון קרקעות למטרות בניית כבישים ראשיים	ASTM-D-3282	---	Based on: AASHTO
109	A	P;T	Soil samples	מדגמי קרקע	Dry preparation for particle-size analysis and determination of soil constants	הכנה לבדיקת הדירוג וגבולות הסומך בשיטה ישבה	ASTM-D-421	---	
110	A	P;T	Soil samples	מדגמי קרקע	Wet preparation for particle-size analysis and determination of soil constants	הכנה לבדיקת הדירוג וגבולות הסומך בשיטה רטובה	ASTM-D-2217	---	
111	A	P;T	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	Density and unit weight of soil in place by the sand-cone method	צפיפות קרקע בשיטת חרוט החול	ASTM-D-1556	---	
112	A	P;T ;	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	Density by the sand-cone method in situ	קביעת הצפיפות באתר בשיטת חרוט החול	SI 1865 part 3 chapter 4	---	Based on: ASTM D 1556
113	A	P;T;	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	Density in place by the drive-cylinder method	קביעת הצפיפות בעזרת גליל מוחדר	SI 1865 part 3 chapter 3	---	Based on: ASTM D 2937
114	A	P;T	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	Density soil in place by the drive-cylinder method	צפיפות קרקע בעזרת גליל מוחדר	ASTM-D-2937	---	
115	A	T	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	In situ test of density and moisture content of soil by nuclear gauge	בדיקה באתר של צפיפות הקרקע ורטיבותה במד גרעיני	SI 1454	---	
116	A	T	Soil, aggregates and soil-aggregate mixtures	קרקעות, אגרטיים ותערובות קרקע-אגרטי	In situ test of density by nuclear gauge	בדיקה באתר של צפיפות הקרקע במד גרעיני	SI 1865 part 3 chapter 5	---	Based on: SI 1454

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Group of products: Soil and paving - Soil, Aggregates and Water				משפחת מוצרים: קרקע וסלילה – קרקע אגרגטים ומים			
Chemical and Physical Testing				בדיקות כימיות ופיזיקליות			
117	A	P T	Soil, rock and soil-aggregate mixtures	קרקע, אבן ותערובת קרקע ואגרגטים Determination of Water (Moisture) Content of Soil By Direct Heating	תכולת מים (רטיבות) של קרקע בחימום ישיר	ASTM-D-4959	---
118	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Density	צפיפות	In house procedure Based on: API series 13 – Drilling fluid materials
119	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Homogeneity	הומוגניות	In house procedure Based on: PWD Specification for paving and bridging section 61 PWD= Public Works Department
120	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Moisture	רטיבות	In house procedure Based on: API series 13 – Drilling fluid materials
121	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	pH	pH	In house procedure Based on: API series 13 – Drilling fluid materials API= American Petroleum Institute Including Using with pH meter
122	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Sampling	נטילת המדגם המייצג	In house procedure Based on: API series 13 – Drilling fluid materials
123	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Sand content	תכולת חול	In house procedure Based on: API series 13 – Drilling fluid materials
124	A	T	Water-based fluids (Bentonite suspension)	נוזלים מבוססים על מים (תרחיף בנטונייט)	Viscosity: Marsh funnel	בדיקת צמיגות על ידי משפך מארש	In house procedure Based on: API series 13 – Drilling fluid materials
125	A	P	Aggregates	אגרגטים	Determination of the crushing value (ACV)	קביעת שיעור הגריסות בשיטה הבריטית	BS 812 part 110
126	A	P	Aggregates	אגרגטים	Determination of the crushing value (ACV)	קביעת שיעור הגריסות בשיטה הבריטית	SI 1865 part 2 chapter 9 Based on BS 812 part 110 Meet the requirement of SI 3

Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and /or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.



Schedule of Accreditation

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Soil and paving - Soil, Aggregates and Water				משפחת מוצרים: קרקע וסלילה – קרקע אגרגטים ומים			
Chemical and Physical Testing				בדיקות כימיות ופיזיקליות			
127	A	T	Aggregates	אגרגטים Determination of ten per cent fines value (TFV)	קביעת ערך 10% דקים BS 812 Part 111	---	

Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and /or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.



Schedule of Accreditation

Item	Site	Field	Requirements	Standard / Method	Remarks
Group of products: Construction - Building systems			משפחת מוצרים: בניה - מערכות הבנין		
Design and Installation, Gas installations for residential buildings			תכן והתקנה, מתקני גז למבני מגורים		
128	T	Installations of liquefied petroleum gases (LPG) testing	מתקנים לגזים פחמימניים מעובים (גפ"מ) : בדיקות	השיטות המפורטות בתקן SI 158 part 4	
129	T	Installations for liquefied hydrocarbon gases petroleum gases (LPG) storage	מתקנים לגזים פחמימניים מעובים (גפ"מ) : מאגרים	השיטות המפורטות בתקן SI 158 part 1	
130	T	Installations for liquefied petroleum gases (LPG)	מתקנים לגזים פחמימניים מעובים : התקנות	השיטות המפורטות בתקן SI 158 part 2	

Item	Site	Field	Requirements	Standard / Method	Remarks
Group of products: Construction - Building systems			משפחת מוצרים: בניה - מערכות הבנין		
Design and Installation, Sanitary Systems			תכן והתקנה, מערכות סניטריות		
131	T	Sanitary systems plumbing systems: The building sewerage and the building water drainage	מתקני תברואה - מערכות שרברבות: ביוב הבניין ותיעול הבניין	השיטות המפורטות בתקן SI 1205 part 4	
132	T	Sanitary systems plumbing systems: Plumbing fixtures and their accessories	מתקני תברואה - מערכות שרברבות: מערכות קבועות שרברבות ואבזריהן	השיטות המפורטות בתקן SI 1205 part 3	
133	T	Sanitary systems plumbing systems: Drainage system	מתקני תברואה - מערכות שרברבות: מערכת הנקזים	השיטות המפורטות בתקן SI 1205 part 2	
134	T	Sanitary systems plumbing systems: Cold and hot water supply system	מתקני תברואה - מערכות שרברבות: מערכת הספקת מים קרים וחמים	השיטות המפורטות בתקן SI 1205 part 1	
135	T	Sanitary systems plumbing systems: Air-raid shelters	מתקני תברואה - מערכות שרברבות: מקלטים	השיטות המפורטות בתקן SI 1205 part 5	



Schedule of Accreditation

Item	Site	Field	Requirements	Standard / Method	Remarks		
Group of products: Construction - Building systems			משפחת מוצרים: בניה - מערכות הבנין				
Design and Installation, Sanitary Systems			תכנ והתקנה, מערכות סניטריות				
136	T	Sanitary systems plumbing systems	מתקני תברואה- מערכות שרברבות	General	כללי	SI 1205 part 0	
137	T	Sanitary systems plumbing systems	מתקני תברואה- מערכות שרברבות	Activities methods	שיטות בדיקה	SI 1205 part 6	

Item	Site	Field	Requirements	Standard / Method	Remarks		
Group of products: Construction - Building Systems			משפחת מוצרים: בניה - מערכות הבנין				
Design and Installation, Solar systems			תכנ והתקנה, מערכות סולריות				
138	T	Solar water heating systems: Thermosiphonic systems	מערכות סולאריות לחימום מים: מערכות תרמוסיפוניות	Design, installation and testing	תכנ, התקנה ובדיקה	SI 579 part 4	
139	T	Solar water heating systems: Pumped domestic systems	מערכות סולאריות לחימום מים: מערכות מאולצות דירתיות	All activities specified in the standard	השיטות המפורטות בתקן	SI 579 part 6	
140	T	Solar water heating systems: Central systems in buildings	מערכות סולאריות לחימום מים: מערכות מרכזיות בבניינים	All activities specified in the standard	השיטות המפורטות בתקן	SI 579 part 5	

Item	Site	Field	Requirements	Standard / Method	Remarks		
Group of products: Engineering Items - Buildings, Constructions, Infrastructure and Concrete			משפחת מוצרים: פריטים הנדסיים - מבנים תשתיות ובטון				
Physical and Engineering Testing			בדיקות פיזיקליות והנדסיות				
141	T	Guards and handrails	מעקים ומסעדים	All tests specified in the standard	השיטות המפורטות בתקן	SI 1142	



Department: Inspection Activity – Type A ISO/IEC 17020; 2012

Accreditation No. 001

Schedule of Accreditation

<i>Item</i>	<i>Site</i>	<i>Materials / Products Tested</i>	<i>Types of Test / Properties Measured</i>	<i>Standard / Method</i>	<i>Remarks</i>
Group of Products: Fire & Rescue – Fire Rescue Systems			משפחת מוצרים: כבאות והצלה - מערכות הצלה		
System Planning & Proper Installation			בדיקת תכנון ותקינות התקנה		
142	T	Swinging fire doors	דלתות אש סובבות Installation (After Installation)	התקנה (בתום ההתקנה) SI 1212 part 4 section 4.4, 4.5	