



Alb-Building, Ltd. Was founded in 1994 with the express purpose of creating a world class construction company to meet the growing needs of the Republic of Albania to rebuild its existing infrastructure, to add new infrastructure and to create the housing units for a population that was denied adequate housing options for nearly fifty years.



Today, Alb-Building Ltd., a privately held limited liability company, has achieved its initial objectives of having undertaken significant, successful projects in its major field of endeavor. The Company's turnover for the last five years reaching an average turnover of 11 million Euro. The Company has annually reinvested its earnings and its clients. It owns one of the few asphalt plants in Albania and maintains an extensive equipment storage and maintenance facility

Alb Building has invested in the Hydropower Industry

It is a shareholder at Euron Energy Group. Alb Building owns 36% of the total shares of Euron Energy Group. The hydropower built by Euron Energy Group on the Luma River. The power of this hydropower is 30 MW

It is one of the shareholders at HYDRO SETA Ltd. Alb Building owns 65% of the total shares of HYDRO SETA Ltd. This project includes the construction of 4 Hydro Powers: Seta-1, Seta-2, Seta-3 and Seta-4.

All these Hydro Powers will generate an average energy of 83,000,000 KWh

Alb Building is proud of the professional relationships that it maintains with international constructors and constructors that operate in Albania and has the teaming philosophy to work as a subcontractor under major, experienced foreign companies. To demonstrate its commitment to being a world class construction company, Alb - Building is certified ISO 9001:2000; ISO 19001: 2008; 14001-2004; OHSAS 18001:2007; PAS 99:2012 ; 39001:2012. The Company maintains strong relationships within the Albanian government with all Ministries that have an impact on infrastructure and housing development in the Republic. It also maintains very good relationships and very stable with foreign Companies as Copri Construction Enterprises, Combined Group Constructing Company (K.S.C.C) and Green Line Company.

Recently, Alb Building Sh.p.k has demonstrated its responsible business practices to domestic and commercial banks, insurance companies, and foreign development lending institutions

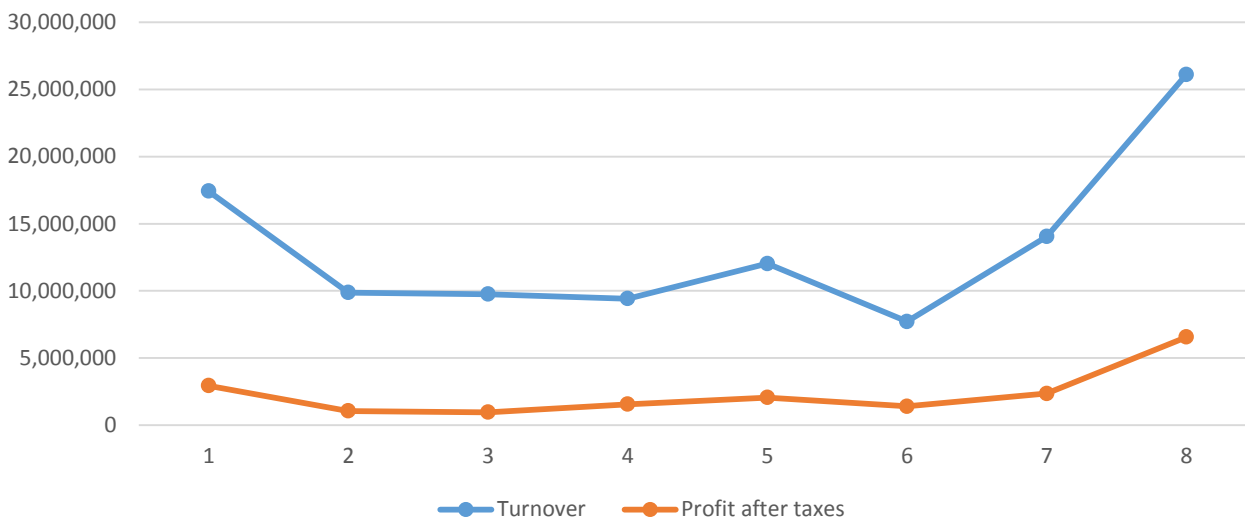


## Alb-Building Ltd

<b>Legal Status</b>	:	Limited Company
<b>Capital</b>	:	6,017,299 Euro
<b>Registration No.</b>	:	Resolution of the District Court of Albania, No.6415
		Dated. 22.09.1994
<b>Address</b>	:	Alb-Building Ltd
		tr: Asim Vokshi, Nd.14 Ap.6
<b>Web Site</b>	:	<a href="http://www.alb-building.com">www.alb-building.com</a>

IN EURO	Financial Data for 2010 - 2017							
	2010	2011	2012	2013	2014	2015	2016	2017
Turnover	17,421,497.00	9,865,447.68	9,750,079.31	9,419,897.54	12,029,182.19	7,708,416.37	14,040,423.09	26,116,414.00
Profit after taxes	2,933,136.00	1,047,658.32	960,589.89	1,549,616.31	2,058,042.34	1,403,563.09	2,350,472.00	6,557,905.62

### Financial Data for 2010 - 2017





## Alb-Building Ltd

**Name :** **ODHISE BRESHA**  
**Adress :** Alb-Building Ltd – Tirana Branch  
**Second Floor**  
Str. "Asim Vokshi, Building 14  
Postal Code 1016  
Tirana, Albania  
**Mobile :** +355 692046818  
**E-mail :** [o.bresha@alb-building.com](mailto:o.bresha@alb-building.com)

**Name :** **PELLUMB BETA**  
**Adress :** Alb-Building Ltd – Tirana Branch  
**Second Floor**  
Str. "Asim Vokshi, Building 14  
Postal Code 1016  
Tirana, Albania  
**Mobile :** +355 692054390  
**E-mail :** [p.beta@alb-building.com](mailto:p.beta@alb-building.com)

## BOARD OF DIRECTORS

**Odhise Bresha**  
**Pellumb Beta**

**CHAIRMAN**

## MEMBERS

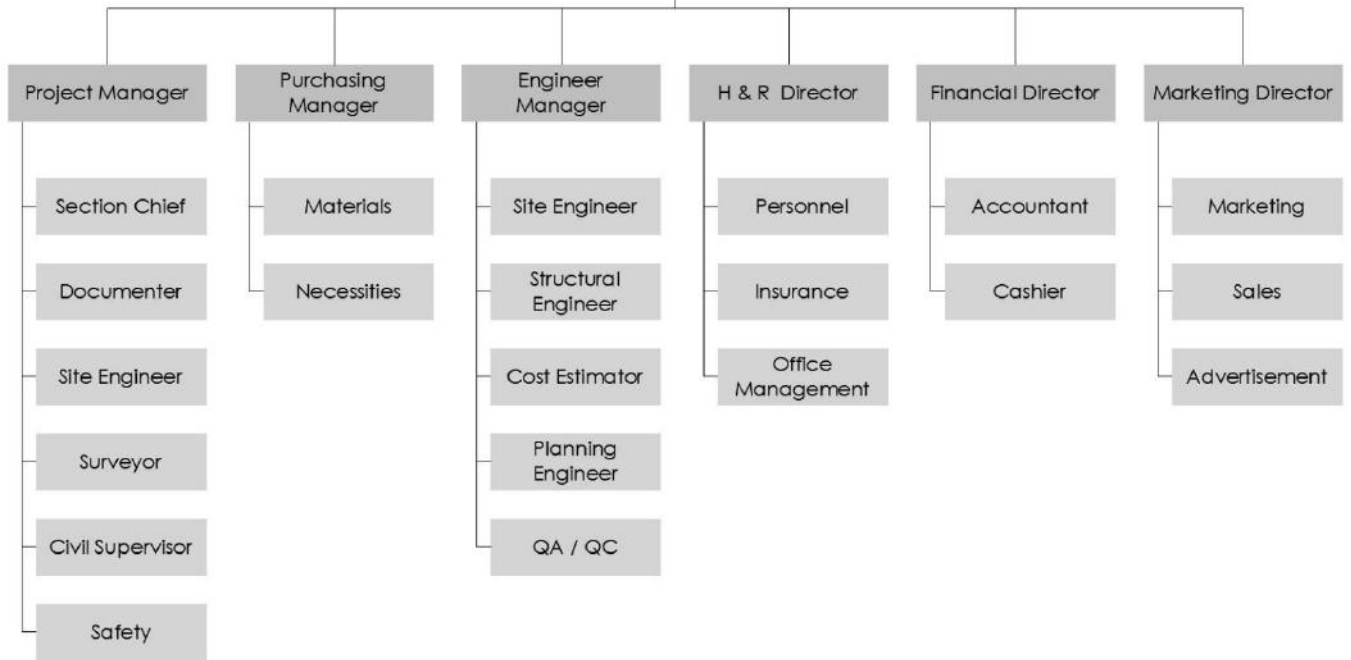
**Dritan Peshtani**  
**Dorina Delialliasi**



# ORGANIGRAM

## BOARD OF DIRECTORS

## GENERAL MANAGER





## COMPLETED PROJECTS

Project:	Apartment Building 12 Floor (Object No.1)
Place:	Str. "Rreshit Petrela", Tirana.
Client:	Private Investor
Period:	May 2002 – 2004
Description:	Habitation Building Str. "Rreshit Petrela". Floor Surface Area – 10,500 m2
Value:	2,200,000 Euro



Project:	Apartment Building 12 Floor (Object No.2)
Place:	Str." Rreshit Petrela", Tirana.
Client:	Privatel Investor
Period:	May 2002 - 2004
Description:	Habitation Building Str. "Rreshit Petrela". Floor Surface Area – 9,500 m2
Value:	1,954,960 Euro



Project:	12 Floor Apartment Building (Object no.6)
Place:	Str. "Komuna e Parisit", Tirana.
Client:	Private Investor
Period:	Finished in 2002
Description:	12 Floor Apartment Building Floor Surface Area – 11,120 m2
Value:	1,450,000 Euro





Project:	Reconstruction of Onkological Hospital "Nene Tereza"
Place:	Tirana.
Client:	QSTU (Hospital University Center Teresa Mother of Tirana)
Period:	July 2004 – 2005
Description:	Total Reconstruction of Existing Hospital Facility
Value:	1,138,211 Euro



Project:	Apartment Building
Place:	Mali i Robit, Kavaja.
Client:	Private Investor
Data:	November 2003 – 2005
Description:	Apartment Building Floor Surface Area – 4,500 m2
Value:	813,008 Euro



Project:	Construction of Bridge Peshtan
Place:	Tepelene
Client:	General Directorate of Roads Republic of Albania
Period:	October 2006-April 2007
Description:	Bridge construction 3x22=66m Roads works,asphalt 1km
Value:	349,593 Euro





Project:	Construction of Buna Bridge
Place:	Scutary
Client:	General Directorate of Roads Republic of Albania
Role in Project	Subcontractor
Period:	February 2008-June 2011
Description:	Bridge construction 3x22=66m Roads works,asphalt 1km
Value:	9,000,000 USD



Project:	Construction of "DURRES-MORINE",PROJEKTI "KALIMASH-REXHEPAJ,LOTI NR 8"
Place:	Kukes
Client:	General Directorate of Roads
Role in Contract	J/V Copri Construction & Alb BuildingSh.p.k
Period:	March 2008/ December 2010
Description:	Earth work 1,796,909.78 m³ Steel works 11,228.98 Ton Sub base 82,431.54 m3 Asphalt work 353,646.00 Ton Bridges 4 Bridges (880mTotal) Concrete Work 40.000m3
Value:	53,039,872.163 USD



Project:	Vora Interchange
Place:	
Client:	General Directorate of Roads
Role in Contract	J/V Copri Construction Enterprises – Alb Building Sh.p.k
Period:	2009-2014
Value:	5,300,000 Euro





Project:	Durres By Pass (Phase 1 and 2)
Place:	Durres
Client:	General Directorate of Roads
Role in Contract	Subcontractor of Green Line Co., Kuwait
Period:	2009-2014
Value:	20,000,000 Euro



Project:	Reconstruction of Road Hani Hotit Tamara
Place:	Tamara
Client:	Albanian Development Fund
Role in Contract	Subcontractor of Copri Construction Enterprises W.L.L
Period:	2011-2014
Value:	17, 000,000 Euro



Project:	<b>Constructin of "Kukes - Shishtavec Road Loti Nr. 2"</b>
Place:	Kukes Albania
Client:	Albanian Development Fund
Role in Contract	J/V Copri Construction & Alb Building Sh.p.k
Period:	2010-2012
Value:	1,186,572,960.00 Leke







Project:	Construction Works for Watter supply Network and rehabilitation of Sewerage System in Saranda
Place:	Saranda
Client:	Ministry of Public Work and Transport
Role in Contract	Lider in J/V Alb Building –Copri Construction Enterprises
Period:	July 2013-July 2014
Value:	4,000,000 \$





## PROJECTS IN PROGRESS

Project:	Construction of Tirana North Boulevard
Place:	Tirana
Client:	Tirana Municipality
Role in Contract	Sub-Contractor of Copri Construction Enterprises
Period:	May 2015 -May 2018
Value:	35,740,353 EUR



Project:	Construction of Qukes Qafe Plloc Road project Section Tirana RoadCorridor Section 2;
Place:	Qukes – Qafe Plloce
Client:	Albanian Roads Authority
Role in Contract	Sub-Contractor of Combined Group
Period:	April 2015 -May 2018
Value:	69,000,000 \$



Project:	Maintenace of Dam , Hec Koman
Place:	Koman, Shkoder
Client:	KESH
Role in Contract	Contractor
Period:	JUN 2016- JUN 2018
Value:	5,763,240 EUR





Project:	Reconstruction of Road Fushe kruj Thuman
Place:	Fushe kruja
Client:	ADF
Role in Contract	Contractor
Period:	May 2017-May 2018
Value:	4,666,000 EUR





# CERTIFICATE



**ALB-BUILDING Sh.p.k.**

**Rr. "Asim Vokshi", Pallati Pranë Arkivit të Shtetit, Seksioni 2,  
Kati 2, Tiranë – Albania  
(J69102508C)**

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## ISO 9001:2008 Quality Management System

**Scope : Construction and reconstruction of civil and industrial buildings, road infrastructure, water supply plants, sewage, hidro power plants, river and marine protection and hydraulic adjustments.**

This certificate is valid during above mentioned company perform the requirements of ISO 9001:2008 standards and fulfill all responsibilities to KingCert.



Certificate Publication Date : 05.04.2016  
Cert. Last Issue Date : 05.04.2017  
Cert. Expiry Date : 04.04.2018  
Cert. Period Exp. Date : 04.04.2019  
Certificate Number : KC172084



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**BKM International Certification  
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Seymen Mah. D-130 Karayolu Cad.  
No:65 D:2 Başiskele Kocaeli Turkey  
Tel : 00 90 262 343 33 34  
Fax : 00 90 262 341 41 02  
F.58 / 01.01.2016 / - / -**

Hereby, BKM International Certification Education Software Domestic and Foreign Trade Co. Ltd., certifies that the above stated company have the appropriate management system according to the requirements of the above standards. This certificate is valid for 3 years as long as the system effectively maintained and surveillance audits are carried out. The validity of the certificate can be checked through [www.KingCert.com](http://www.KingCert.com) - [www.TheWAS.us](http://www.TheWAS.us) BKM International Certification Education Software Domestic and Foreign Trade Co. Ltd. will accept responsibility for major neglects although the required care and competency was provided. The certificate is property of BKM International Certification Education Software Domestic and Foreign Trade Co. Ltd. and shall returned if requested.





# CERTIFICATE

**ALB-BUILDING Sh.p.k.**



Rr. "Asim Vokshi", Pallati Pranë Arkivit të Shtetit, Seksioni 2,  
Kati 2, Tiranë – Albania  
(J69102508C)

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## ISO 14001:2004 Environmental Management System

Scope : Construction and reconstruction of civil and industrial buildings, road infrastructure, water supply plants, sewage, hidro power plants, river and marine protection and hydraulic adjustments.

This certificate is valid during above mentioned company perform the requirements of ISO 14001:2004 standards and fulfill all responsibilities to KingCert.



Certificate Publication Date : 05.04.2016  
Cert. Last Issue Date : 05.04.2016  
Cert. Expiry Date : 04.04.2017  
Cert. Period Exp. Date : 04.04.2019  
Certificate Number : KC172085



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**Rr. "Asim Vokshi", Pallati Pranë Arkivit të Shtetit, Seksioni 2,  
Kati 2, Tiranë – Albania  
(J69102508C)**

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## OHSAS 18001:2007

### Occupational Health and Safety Management System

Scope : Construction and reconstruction of civil and industrial buildings, road infrastructure, water supply plants, sewage, hidro power plants, river and marine protection and hydraulic adjustments.

This certificate is valid during above mentioned company perform the requirements of OHSAS 18001:2007 standards and fulfill all responsibilities to KingCert.



Certificate Publication Date : 05.04.2016  
Cert. Last Issue Date : 05.04.2017  
Cert. Expiry Date : 04.04.2018  
Cert. Period Exp. Date : 04.04.2019  
Certificate Number : KC172086



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Tel : 00 90 262 343 33 34  
Tel : 00 90 262 341 41 02  
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**ALB-BUILDING Sh.p.k.**

**Rr. "Asim Vokshi", Ndertesa Nr. 14, Hyrja 4, Njesia bashkiake  
9 - Tiranë – Albania  
(J69102508C)**

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## ISO 50001:2011

### Energy Management System

**Scope : Construction and reconstruction of civil and industrial buildings, road infrastructure, sewage, hidro power plants, marine protection and hydraulic adjustments.**

This certificate is valid during above mentioned company perform the requirements of ISO 50001:2011 standards and fulfill all responsibilities to KingCert.



World Accreditation Services

**ACCREDITED  
CERTIFICATION BODIES  
EN ISO/IEC 17021  
ENERGY MANAGEMENT**

Certificate Publication Date : 04.05.2017  
Cert. Last Issue Date : 04.05.2017  
Cert. Expiry Date : 03.05.2018  
Cert. Period Exp. Date : 03.05.2020  
Certificate Number : KC171899



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No:55 D:2 Başiskele Kocaeli Turkey  
Tel : 00 90 262 343 33 34  
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**ALB-BUILDING Sh.p.k**



Rr. "Asim Vokshi", Ndertesa Nr. 14, Hyrja 4, Njesia bashkiake  
9 - Tiranë – Albania  
(J69102508C)

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## ISO 39001:2012

### Road Traffic Safety Management Systems

Scope : Construction and reconstruction of civil and industrial buildings, road infrastructure, sewage, hidro power plants, marine protection and hydraulic adjustments.

This certificate is valid during above mentioned company perform the requirements of ISO 39001:2012 standards and fulfill all responsibilities to KingCert.

Certificate Publication Date : 04.05.2017  
Cert. Last Issue Date : 04.05.2017  
Cert. Expiry Date : 03.05.2018  
Cert. Period Exp. Date : 03.05.2020  
Certificate Number : KC170511



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Education Software Domestic and  
Foreign Trade Co. Ltd.  
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No:65 D:2 Başiskele Kocaeli Turkey  
Tel : 00 90 262 343 33 34  
Fax : 00 90 262 341 41 02  
F.58 / 01.01.2016 / - / -

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# CERTIFICATE



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Rr. "Asim Vokshi", Ndertesa Nr. 14, Hyrja 4, Njesia bashkiake  
9 - Tiranë – Albania  
(J69102508C)

Above mentioned company put into action to management system at the following scope and conformity of relevant standards are approved by KingCert.

## ISO/IEC 27001:2013

**Information Security Management System Certification**

Scope : Construction and Reconstruction of Civil and Industrial Buildings,  
Road infrastructure, Sewage, Hidro Power Plants, Marine Protection and  
Hydraulic Adjustments



This certificate is valid during above mentioned company perform the requirements of ISO/IEC 27001:2013 standards and fulfill all responsibilities to KingCert.

Certificate Publication Date : 03.05.2017  
Cert. Last Issue Date : 03.05.2017  
Cert. Expiry Date : 02.05.2018  
Cert. Period Exp. Date : 02.05.2020  
Certificate Number : KC17055



**BKM International Certification**  
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Foreign Trade Co. Ltd.  
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F.58 / 01.01.2016 / - / -

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## CONCRETE PLANTS





## ASPHALT PLANT





## EXCAVATORS



Liebherr 934



Liebherr 934



Liebherr 934



Comatsu PC 450 LC



Liebherr 924



Liebherr 944



CAT 330 C



CAT 330 BLNX



Liebherr 906

## HYDRAULIC HAMMER



## WHEEL LOADERS

Liebherr 544



Liebherr 544



Liebherr 566





## DRILLER

Atlas Copco



Tamrock Ranger 500





CAT 563 D



## ROLLER

CAT 563 E







## ASPHALT ROLLER

HAMM HD 110



BOMAG 120 AD



HAMM HD 140





## GRADER

CAT 160 H





## TUNNEL MACHINERY

ATLAS COPCO E2C



STEEL FIXING SCAFFOLD



FORMWORK





LEBHERR



## MOBILE CRANE

LEBHERR





## CRANE

GANTRY CRANE



HIGH LIFT CRANE





## TELEHANDLER



**MERLO ROTO 30.16 K**



**CAT TH 360 B**



## TRUCKS





## CONCRETE MIXER







## CONCRETE PUMP





## SHOTCRETE PUMP

CIFA PAS 307



CIFA CSS3/PSC255 E6





## EQUIPMENT LIST

PLANT	
Concrete Plant	6
Asphalt Plant	3

EXCAVATION	
Excavators	29
Pneumatic Hammer	7
Bulldozer	2
JCB	4
Wheel Loader	9
Driller	4

ASPHALT PAVING	
Vibrator Roller	4
Asphalt Roller	8
Asphalt Paver	2
Asphalt Milling Machine	1
Grader	2

LIFTING	
Gantry Crane	2
High Lift Crane	3
Mobile Crane	2
Auto Mobile Crane	8
Forklift	3



## EQUIPMENT LIST

TRUCKS	
Loading Truck	21

CONCRETE	
Concrete Mixer	15
Concrete pump	2
Shotcrete Pump	2



## MANPOWER LIST

Engineer	40
Specialist	20
Operator	150
Driver	70
Laborers	100



## QUALITY CONTROL EQUIPMENS LIST

NO.	DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
1	compression machine concrete cube crusher	controls	c23a02	16002858	
2	drying oven	controls	10-d1391/ad	10000677	1235 x 565 x 700 mm
3	motor drill stand	hilti (austria)	dd-st-150-u ctl	34099	20.3 x 5.1x 6.3 inch 497. x 125 x 154. mm
4	density electronic weight	controls	11-d0612/a	9002326	500 x 500 x 1200 mm
5	speedy tester 2000	gibson company	L 2000		510 x 380 x 200 mm
6	liquid limit device	matest	s 170		
7	loading frames and presses	controls	34-T0107	10001664	500 x 570 x 1300 mm
8	universal specimen extruder	controls	16-T0080	10002635	
9	sand replacement method	controls	35-T0129/1		
10	rebound hammer			1J0769	
11	sieve shaker	matest	a 059 - 13	a 059 - 13 / ac / 0018	
12	sieve 75 mic	controls		16022470	
	sieve 150 mic	controls		16021516	
	sieve 300 mic	controls		16022580	
	sieve 425 mic	controls		16022664	
	sieve 600 mic	controls		16021067	
	sieve 1.18 mm	controls		16021008	
	sieve 2.36 mm	controls		16021265	
	sieve 5 mm	controls		16021922	
	sieve 10 mm	controls		16021871	
	sieve 12.5 mm	controls		16022191	
	sieve 14 mm	controls		15030783	
	sieve 20 mm	controls		16021909	
	sieve 25 mm	controls		16021398	
	sieve 37.5 mm	controls		16022480	
	sieve 50 mm	controls		16022536	
	sieve 63 mm	controls		16021753	
sieve 75 mm	controls		16022538		
sieve 100 mm	controls		16021786		
13	cone slump test	metest			
14	soil test	controls			
15	concrete cube moulds	controls			
16	concrete curing tank				
17					
18					
19					
20					



## compression machine concrete cube crusher



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
compression machine concrete cube crusher	controls	c23a02	16002858	



drying oven



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
Drying oven	controls	10-d1391/ad	10000677	





motor drill stand



## 2. Description

### 2.1 Use of the product as directed

The DD 150-U is an electrically powered diamond core drilling machine for hand-guided wet and dry drilling of through holes or blind holes (e.g. anchor holes) and for wet drilling of through holes or blind holes in (reinforced) mineral materials with the machine mounted on a drill stand.

When mounted on the drill stand, the system must be adequately secured to the working surface with an anchor or vacuum base plate before use.

Drilling into materials that produce electrically conductive dust (e.g. magnesium) is not permissible.

Where possible, use a suitable industrial vacuum cleaner when working with the system, e.g. the Hilti VC 20-U/UM, VC 40-U/UM or VC 60-U.

DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
motor drill stand	hilti (austria)	dd-st-150-u ctl	34099	20.3 x 5.1x 6.3 inch 497. x 125 x 154. mm



## density electronic weight



### ■ 11-D0611/3

#### Specific gravity tank

Made from plastic. Identical to that one fitted in the 11-D0612/A Specific gravity frame. Dimensions 400x400x330 mm approx. (lwxhx). Weight 1.7 kg approx.



11-D0611/3

#### DENSITY BASKETS AND TANK

##### STANDARD

ASTM C127 / AASHTO T85 / BS 812.2 / NF P18-554

##### Description

Used in specific gravity tests. Made from stainless steel. Complete with handles. Fitted with 3.35 mm mesh size except the NF model,  $\leq 3$  mm.

### ■ 11-D0612

Density basket 200 mm dia. x 200 mm high



11-D0612



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
density electronic weight	controls)	11-d0612/a	9002326	500 x 500 x 1200 mm



## speedy tester 2000



September 2013	
Date of Issue	
Speedy 2000 Tester	
Instrument	
<i>Stephen Kilmartin</i>	Stephen Kilmartin
Signature	Name (printed)

Nominal gross weight	6kg	5.5kg
Nominal gross dimensions	51 x 38 x 20 cm	51 x 38 x 20 cm
Moisture measurement range expressed as a percentage of the wet weight of the sample.	0 - 20 % (standard) 0 - 10 % (option) 0 - 50 % (option)	0 - 20 % (standard) 0 - 5 % (option) 0 - 10 % (option)
Sample weight	For 0 - 20 %mc range : 20g For 0 - 10 %mc range : 40g For 0 - 50 %mc range : 8g	For 0 - 20 %mc range : 6g For 0 - 5 %mc range : 10g For 0 - 10 %mc range : 12g
Maximum sample size	20mm	10mm

DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
speedy tester 2000	gibson company	L 2000	9002326	510 x 380 x 200 mm



## liquid limit device



### LIQUID LIMIT: casagrande method

STANDARDS: ASTM D4318 / AASHTO T89 / BS 1377:2  
UNI 10014 / NF P94-051 / UNE 7377, 7002

Used to evaluate the relationship between the moisture percentage of a soil sample and the number of blows required to close a groove made into the soil; and therefore to determine when a clay soil changes from a plastic to a liquid state.

The unit comprises a removable brass cup which through a cam device drops on a bakelite base (or hard rubber base). Supplied complete with drops counter, but without grooving tool which has to be ordered separately.

The instrument is available in two versions:

- hand operated through crank (left or right side)
- motor operated at 120 drops/min speed, ensuring better uniformity and accuracy

MODELS:

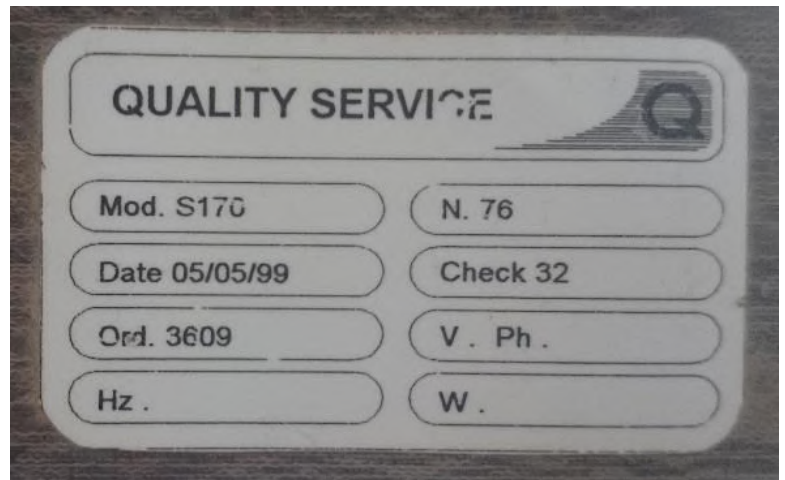
#### S170

#### Liquid limit device

Hand operated with "left side crank" and hard rubber base.

STANDARDS: ASTM D4318 / BS 1377:2 / AASHTO T89  
UNE 7377 / UNI 10014

Weight: 3 Kg



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
liquid limit device	matest	S 170		



## loading frames and presses + components



### ■ 34-T0107

**Multispeed compression tester 50 kN capacity, testing speeds adjustable from 0.1 to 51 mm/min. Frame only, 230 V, 50-60 Hz, 1 ph.<sup>(1)</sup>**

#### General description

The machine features a very rigid two-column frame with the upper crossbeam, which can be adjusted in height and locked in position with locknuts. The base cabinet houses the load jack, D.C. motor and electronic controls. The machine, which is suitable for wide range of tests such as CBR, MARSHALL, QUICK TRIAXIAL, UNCONFINED, SPLITTING TENSILE TESTS, etc. can be completed with accessories in the analogic and digital version as shown in the pictures.

In the digital version, the load and displacement transducers have to be connected to the Digimax Plus 76-Q0802/C. Furthermore, the displacement transducer to measure the penetration (CBR) and flow (Marshall) can be fitted in two different ways:

- Internally to the machine (see Upgraded option 34-T0107/UP)
- Externally (see accessories 82-P0332 and 34-T0104/8).

The internal option is more suitable for general use including CBR and Marshall tests but has to be factory installed and specified at time of order.

The external option can be fitted at any time to all CBR machines without arrangements and/or modifications.

A limit cut-off switch stops the machine at the maximum platen travel.

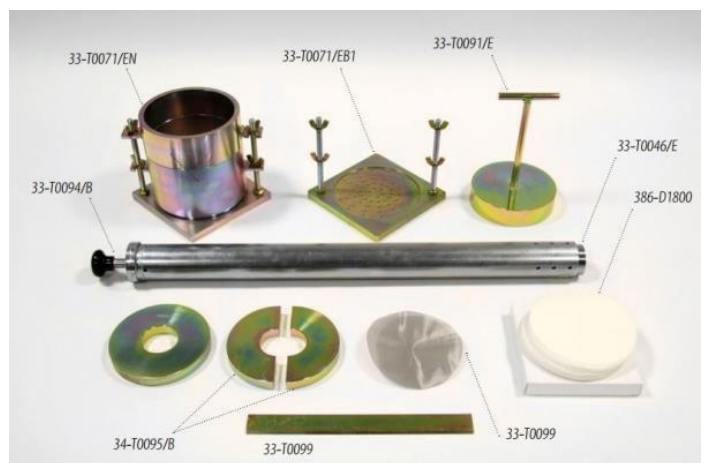
(1) For the 110 V, 60 Hz model add the suffix /Z to the code (e.g. 34-T0107/Z).

#### Specifications

- Max. capacity: 50 kN
- Testing speed range: infinitely variable from 0.1 to 51 mm/min
- Max. ram travel: 100 mm
- Horizontal span: 380 mm
- Max. vertical span: 800 mm (without accessories)
- Power rating: 1100 W
- Dimensions approx.: 500x570x1300 mm (dxwxh)
- Weight approx.: 110 kg

#### Important note

Using the Multispeed 34-T0107 for the Marshall test too, to avoid accessories duplication see page 355.



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
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loading frames and presses	controls	34-T0107	10001664	500 x 570 x 1300 mm
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## proctor module and rammers



Used for determining the relationship between the moisture content and density of compacted soil. The moulds include collar, mould body and base plate.

The rammer construction includes a guide sleeve with vent holes. Different versions are available that conform to the various commonly used standards. They are all made of plated steel and are identical in shape, only differing slightly in diameter and capacity. For the extrusion of soil specimens from the mould, the Universal specimen extruder may be used. See Accessories.

An alternative (and preferable) method of compacting is to use an automatic compactor. For more information, see AUTO-PROCTOR, the automatic Proctor-CBR compactor, pages 136-138.



### 16-T0080 Hydraulic universal extruder

Capacity:	50 kN maximum
Soil specimen:	Dia.101 × 116, Dia.151 × 116 mm
Bituminous mix material specimen:	Dia.101.6 × 87 mm
Materia stabilized with inorganic :	Dia. 50 × 50, Dia. 100 × 100
Weight:	Dia. 150 × 150
	40 Kg

DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
proctor module and rammers	controls	16-T0080	10002635	





## Sand replacement method



The verification of the degree of compaction can be determined on site by a simple procedure consisting essentially in removing and weighing a part of compacted soil and replacing it in the hole with sand by a simple apparatus recording the volume of sand and then calculating the density of the removed soil. Two versions are available: BS and ASTM. The principle of operation is the same but parts and sizes are different.



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
sand replacement method	controls	35-T0129/1		



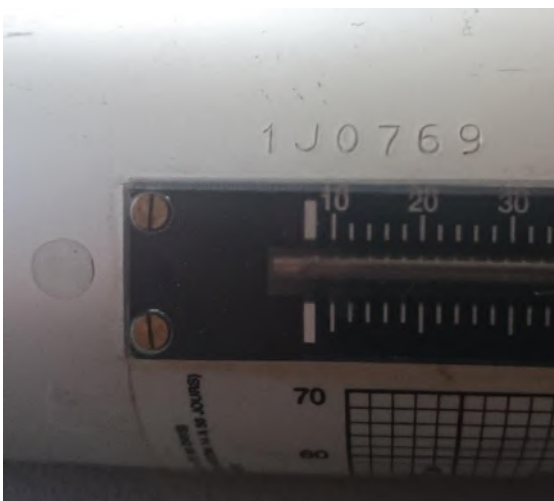
rebound hammer



### 1.1.2 Designated Use

The concrete test hammer is a mechanical device used for performing rapid, non-destructive quality testing on materials in accordance with the customer's specifications; in most cases, however, the material involved is concrete.

The device is to be used exclusively on the surfaces to be tested and on the testing anvil.



DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
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rebound hammer

1J0769





## sieve shaker



Woven wire cloth sieves (coarse)



Woven wire cloth sieves (fine)



Test sieves of perforated metal plate



The separate digital control panel can adjust:

- The sieving time from 1 to 999 minutes
- The vibrating intensity
- The pauses between one vibration and the following one (this is especially indicated for fine material sieving).

Power supply: 230 V 50Hz 1ph 450/750W

**ELECTROMAGNETIC SIEVE SHAKER DIA. FROM 200 TO 400 MM - 8" - 12"**

## Description

Dimensions sieves dia.: 200-250-300-315-350-400 mm - 8"-12"

Dimensions mm: 430x460x1150 mm

Weight Kg: 80

DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
sieve shaker	matest	a 059-13	a 059-13/ac/0018	



## sieve set



NO.	DESCRIPTION	PRODUCTION	SERIAL
14	sieve 75 mic	controls	16022470
	sieve 150 mic	controls	16021516
	sieve 300 mic	controls	16022580
	sieve 425 mic	controls	16022664
	sieve 600 mic	controls	16021067
	sieve 1.18 mm	controls	16021008
	sieve 2.36 mm	controls	16021265
	sieve 5 mm	controls	16021922
	sieve 10 mm	controls	16021871
	sieve 12.5 mm	controls	16022191
	sieve 14 mm	controls	15030783
	sieve 20 mm	controls	16021909
	sieve 25 mm	controls	16021398
	sieve 37.5 mm	controls	16022480
sieve 50 mm	controls	16022536	
sieve 63 mm	controls	16021753	
sieve 75 mm	controls	16022538	
sieve 100 mm	controls	16021786	



## cone slump test



The concrete slump test is an empirical test that measures workability of fresh concrete. The test measures consistency of concrete in that specific batch. It is performed to check consistency of freshly made concrete. Consistency refers to the ease with which the test is popular due to the simplicity of apparatus used and simple procedure. Unfortunately, the simplicity of the test often allows a wide variability in the manner in which the test is performed. The slump test is used to ensure uniformity for different batches of concrete under field conditions, and to ascertain the effects of plasticizers on their introduction.

DESCRIPTION	PRODUCTION	MODEL	SERIAL	DIMENSIONS
cone slump test	matest			



## GENERAL IMAGES OF QUALITY CONTROL LABORATORY

