

# lb

## Lectrobar

OPTIMUM DESIGN



## Sheet Steel Workshop



**Two State of the Art  
Laser CNC Cutting Machines**



**Two State of the Art  
CNC Bending Machines**



**One State of the Art CNC FIPFG Machines**  
FIPFG Formed In Place Foam Gasket



**One State of the Art CO<sub>2</sub> Robot  
Welding Machine**  
for Steel & Stainless Steel



**Automated Electrostatic Painting Line**  
Will be upgraded to be 20 automated gun and 4 manual guns



**Two Plastic Injection Machines**

## Conductor Manufacturing



**Two CNC Machines**  
for Conductor Cutting & Punching



**Two CNC Machine**  
for Conductor Cutting, Punching & Forming



**Three CNC Bending Machines**



**Two Pressing Machines**  
for Plugin Outlet

## Plating Lines



**Two Automated Plating Lines**  
for Conductor Copper Cladding, Tinning & Silver Plating



**One Automated Plating Line**  
for Joint Copper Tinning & Silver Plating



## Robot Section



**TIG Robot Welding Unit**  
for Copper & Aluminum Welding



**Grinding Robot Unit**



**Grinding Machine**  
**Enclosure Manufacturing**



**Self Piercing Riveting Robot**  
**Insulation Lines**



**Three CNC Aluminum Cutting Machines**



**Five Automated Insulation**  
**Wrapping Machines**

## Assembly Section



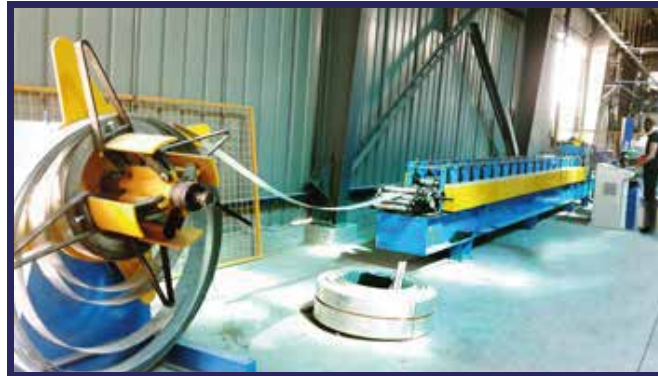
**Four Automated SPR Machine**  
**SPR Self Piercing Riveting**



## Automatic Testing Line



## Automatic Stamping Production Lines



**Roll Forming Production Line for Steel**



**Aluminum Production Line**



**Copper Production Line**

## Wrapping Section

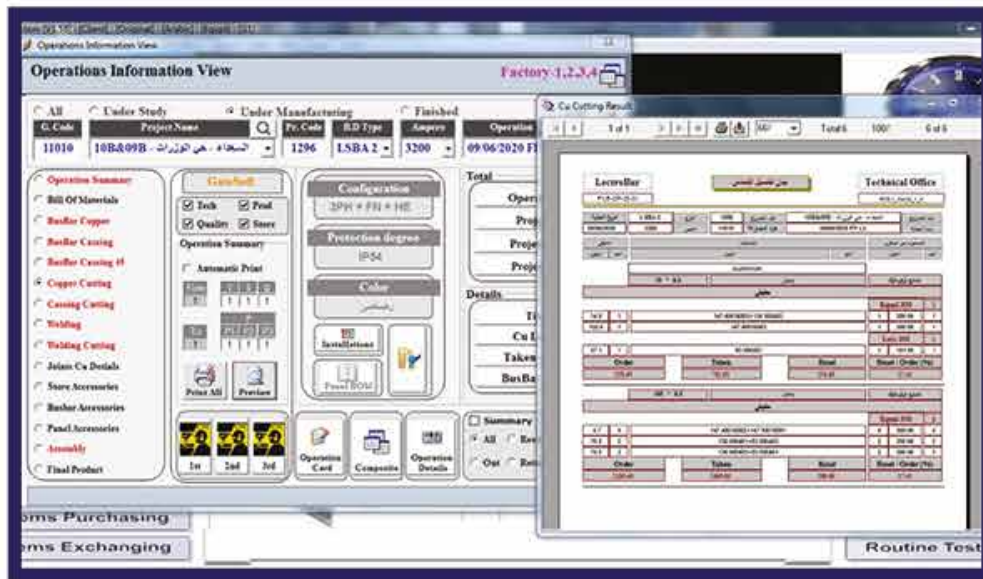


**Automated Wrapping  
Machine for Busduct Units**

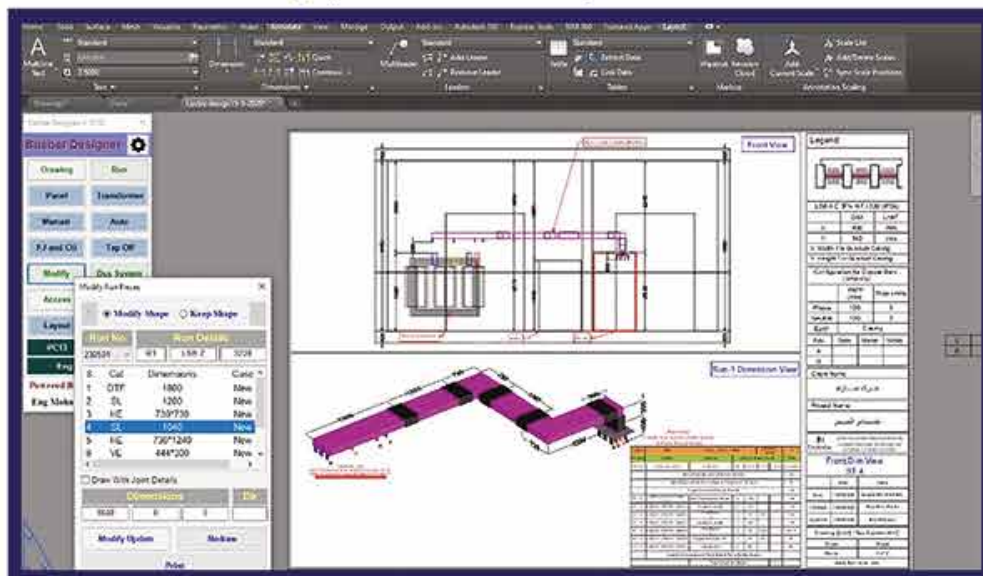


**Automated Wrapping  
Machine for Busduct Lines**

# Software & Monitoring



State of the Art in House Designer Software for Design, Manufacture & Inspect the Product



State of the Art in House Designer Software for Shop Drawing



Several Monitoring Screens To Monitor Different Process of the Production Line



# CERTIFICATE

Issued to:

Applicant:

Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5)  
21934 New Borg El-Arab, Egypt

Licensee:

Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5)  
21934 New Borg El-Arab, Egypt

Product : busbar trunking systems (busway)  
Trade name(s) : LECTRO BAR  
Type(s)/model(s) : LSB II 070, LSB II 120, LSB II 130, LSB II 160, LSB II 225, LSB II 250,  
LSB II 320, LSB II 400 and LSB II 500

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61439-6:2012
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2185455


DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

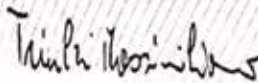
This certificate is issued on 16 June 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-107102

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



M. Triulzi  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



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T +31 88 96 83000 F +31 88 96 83100 [www.dekra-product-safety.com](http://www.dekra-product-safety.com) Company registration 09085396

**KEMA  
KEUR**

**COPPER**

MA Quality

## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 030

Ratings: Ue 690 V, Ui 690 V, In 300 A at 50 Hz, Uimp 6 kV

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Type tests

Requirements: IEC 60439-2, 3rd ed. 2000-03; Clauses: 8.2.1, 8.2.2, 8.2.4.1, 8.2.5, 8.2.9, 8.2.10, 8.2.12 and 8.2.13 (Annex N1)

Remarks: Busbar trunking system consists of flange, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2142232.01-INC, dated 24 November, 2011.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 24 November 2011

Number: 2142232.100

DEKRA Certification B.V.



F.S. Strikwerda  
Certification Manager

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All testing, inspection, auditing, certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.

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 **DEKRA**

**Copper LSB II**

**300A**



**KEMA Quality**

# TEST CERTIFICATE

**Issued to:** Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

**For the product:** low-voltage busbar trunking system

**Trade name:** LECTRO BAR

**Type/Model:** LSB II 045

**Ratings:** Ue 690 V, Ui 690 V, In 450 A at 50 Hz, Uimp 6 kV

**Manufactured by:** Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

**Subject:** Type tests

**Requirements:** IEC 60439-2, 3rd ed. 2000-03; Clauses: 8.2.1, 8.2.2, 8.2.4.1, 8.2.5, 8.2.9, 8.2.10, 8.2.12 and 8.2.13 (Annex N1)

**Remarks:** Busbar trunking system consists of flange, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2142232.02-INC, dated 24 November, 2011.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 24 November, 2011

Number: 2142232.101

DEKRA Certification B.V.

F.S. Strikwerda  
Certification Manager

Integral publication of this certificate and joining reports is allowed

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**Copper LSB II**

**450A**

KEMA Quality

## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 070

Ratings:  $I_{nc}$  630 A / 750 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  25 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC

Remarks: Date of performance of tests: 2011 and 2013  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2171133.01-INC, dated 30 July 2014.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 30 July 2014

Number: 2171133.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

Integral publication of this certificate and adjoining reports is allowed

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 **DEKRA**

**Copper LSB II**

**700A**



## ATTESTATION OF CONFORMITY

**Issued to:** Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

**For the product:** Low-voltage busbar trunking system

**Trade name:** LECTRO BAR

**Type/Model:** LSB080

**Ratings:**  $I_{nc}$  800 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{mg}$  8 kV, 40 kA - 1.0 s  
For more details see annex

**Manufactured by:** Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

**Subject:** Design verification

**Requirements:** IEC 61439-6: 2012  
Clause 10.2.3.2, 10.2.101, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11, Annex BB and Annex CC

**Remarks:** Busbar trunking system consists of flange, joints and straight lengths  
Tests performed in 2009 cover the tests of the IEC 61439-6

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a test report 2122754.02-QUA/INC issued on 28 September 2009.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 30 January 2019

Number: 4600105.01-AOC

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB III 100

Ratings:  $I_{nc}$  1000 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV, 50 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: March 2016 and May 2019  
(see general notes on tests in the report)

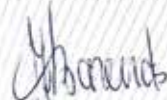
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2235257.01-INC, dated 7 October 2019.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 7 October 2019

Number: 2235257.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 120

Ratings:  $I_{nc}$  1200 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  50 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: -

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2183478.04-INC, dated 21 September 2016.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. The conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amstelveen, 21 September 2016

Number: 2183478.103

DEKRA Certification B.V.

  
  
H.R.M. Barends  
Certification Manager

Integral publication of this certificate and test reports is allowed

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## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 130

Ratings:  $I_{nc}$  1250 A / 1300 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{reg}$  8 kV,  $I_{ow}$  60 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC

Remarks: Date of performance of tests: 2010 and 2013 and May 2019  
(See general notes on tests in the report)

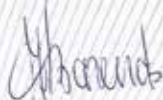
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2235257.02-INC, dated 7 October 2019.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 7 October 2019

Number: 2235257.101

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 160

Ratings: U<sub>n</sub> 1000 V, U<sub>i</sub> 1000 V, I<sub>nc</sub> 1600 A at 50 Hz, U<sub>imp</sub> 8 kV,  
I<sub>cs</sub> 75 kA – 1,0 s 165 kA peak  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-3, 2012; Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5,  
10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 5.101

Remarks: Busbar trunking system consists of flange, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2193177-02-INC, dated 21 September 2016.

Attention has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 21 September 2016

Number: 2193177.101

DEKRA Certification B.V.

H.R.M. Barends  
Certification Manager

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**Copper LSB II**

**1600A**

## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 225

Ratings:  $I_{nB}$  2000 A / 2250 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  120 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2021  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600234.01-INC, dated May 31, 2021.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, May 31, 2021

Number: 4600234.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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KEMA Quality

## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 250

Ratings:  $I_{nc}$  2500 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  70 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC

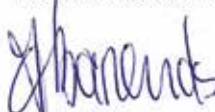
Remarks: Date of performance of tests: 2010 and 2013  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2171133.04-INC, 30 July 2014.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

30 July 2014 (re-print 2016-07-05) Number: 2171133.103

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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 DEKRA

**Copper LSB II**

**2500A**

KEMA Quality

## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 320

Ratings:  $I_{nc}$  3200 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC

Remarks: Date of performance of tests: 2011 and 2013  
(See general notes on tests in the report)

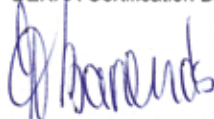
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2171133.05-INC, dated 30 July 2014.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 10 July 2014

Number: 2171133.104

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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 DEKRA

**Copper LSB II**

**3200A**



## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 365

Ratings:  $I_{nc}$  3200 A / 3650 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  120 kA – 1.0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2021  
(See general notes on tests in the report)

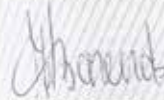
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600296.01-INC, dated 19 May 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 23 May 2022

Number: 4600296.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 400

Ratings:  $I_{nc}$  4400 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10.2.3.5, 10.11, Annex BB, CC and DD

Remarks: -

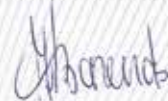
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600104.01-INC, dated 7 May 2019.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 7 May 2019

Number: 4600104.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 500

Ratings:  $I_{nc}$  5000 A,  $U_n$  690 V,  $U_i$  690 V,  $U_{imp}$  6 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5.2, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB

Remarks: -

This Test Certificate is granted on account of an examination by DEKRA, the results of which are set down in report no. 2183478.03-INC, dated 21 September 2016.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. The conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

21 September 2016

Number: 2183478.102

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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**Copper LSB II**

**5000A**

**KEMA** Quality

## TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB II 640

Ratings: Icw 100 kA – 1,0 s 220 kA peak

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Short-circuit tests

Requirements: IEC 61439-6: 2012  
Clauses: 10.5.3.5 and 10.11

Remarks: Busbar trunking system consists of flange, joint and straight lengths  
The tests were carried out in 2011

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2160206.02-INC, dated 14 January 2013.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 14 January 2013

Number: 2160206.101

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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 **DEKRA**

**Copper LSB II**

**6400A**



# CERTIFICATE

Issued to:

Applicant:

Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5)  
21934 New Borg El-Arab, Egypt

Licensee:

Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5)  
21934 New Borg El-Arab, Egypt

Product : busbar trunking systems (busway)  
Trade name(s) : LECTRO BAR  
Type(s)/model(s) : LSB 125, LSB 160, LSB 200, LSB 250, LSB 320, LSB 400 and LSB 500

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61439-6:2012
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2185455

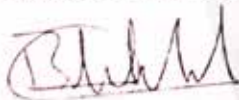
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 17 February 2021 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-113795 REV.1

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



S. Lehner  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



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## Bimetal at Contacts AL-CU

## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 63, LSB 80, LSB 90

Ratings:  $I_{nc}$  630 A, 800 A, 900 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV, 3-phase  $I_{cw}$  45 kA – 1 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,  
10.10.2.3.5, 10.11, Annex BB

Remarks: Date of performance of tests: 2013, 2016, 2020 and 2021  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600191.01-INC, dated 16 June 2021.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Anhem, 16 June 2021

Number: 4600191.100

DEKRA Certification B.V.



F.S. Strikwerda  
Certification Manager

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## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 100

Ratings:  $I_{nc}$  1000 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{ins}$  6 kV/ 8 kV,  $I_{cw}$  50 kA – 1.0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses 10.2.2, 10.2.3, 10.2.7, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 10.10, 10.11,  
10.101, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2021  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600289.01-INC, dated 16 June 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

16 June 2022

Number: 4600289.100

DEKRA Certification B.V.

  
H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE



Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 12

Ratings: Ue 1000 V, Ui 1000 V, In 1000 / 1250 A at 50 Hz, Uimp 8 kV,  
Icw 50 kA – 1,0 s 105 kA peak  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-6, 2012; Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5,  
10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 5.101

Remarks: Busbar trunking system consists of flange, joint and straight lengths

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2152664.01-INC, dated 28 June 2013.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 28 June 2013

Number: 2152664.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 16

Ratings: Ue 1000 V, Ui 1000 V, Inc 1600 A at 50 Hz, Uimp 8 kV,  
Icw 70 kA – 1,0 s 154 kA peak  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-6, 2012; Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5,  
10.6, 10.7, 10.8, 10.9, 10.10, 10.11, 5.101

Remarks: Busbar trunking system consists of flange, joint and straight lengths  
Date of performance of tests: 2013 and 2022  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600293.01-INC, dated 18 May 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Am, 18 May 2022

Number: 4600293.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 200

Ratings:  $I_{nc}$  2030 A / 2300 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10.2.3.5, 10.11, Annex BB

Remarks:

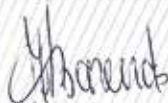
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600161.01-INC, dated 4 June 2020.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 5 June 2020

Number: 4600161.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

**Issued to:** Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria  
Egypt

**For the product:** low-voltage busbar trunking system

**Trade name:** LECTRO BAR

**Type/Model:** LSB 250

**Ratings:**  $I_{nc}$  2500 A at 50 Hz,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

**Manufactured by:** Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria  
Egypt

**Subject:** Design verification (Construction and Performance)

**Requirements:** IEC 61439-6, 2012; Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 10.10.2.3.5, 10.11, 5.101

**Remarks:** Busbar trunking system consists of flange, joint and straight lengths  
Date of performance of tests: 2012 up to and including 2020 (see general notes on tests in the report)

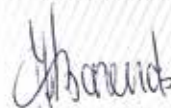
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600130.01-INC, dated 9 June 2020.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 11 June 2020

Number: 4600130.100

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 320

Ratings:  $I_{nc}$  3200 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro for Electrical Products  
Borg El Arab Area No. 3  
Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10.2.3.5, 10.11, Annex BB, CC and DD

Remarks:

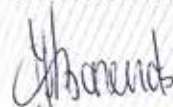
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600104.02-INC, dated 7 May 2019.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 7 May 2019

Number: 4600104.101

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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# TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria  
Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 400

Ratings:  $I_{nc}$  4500 A at 50 Hz,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV,  $I_{cw}$  100 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria  
Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5.2, 10.6, 10.7,  
10.8, 10.9, 10.10.2.3.5, 10.11, Annex BB

Remarks: Busbar trunking system consists of flange, joint and straight lengths  
Date of performance of tests: 2013 up to and including 2020 (see general notes on  
tests in the report)

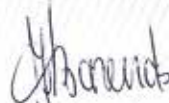
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600130.02-INC, dated 9 June 2020.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 11 June 2020

Number: 4600130.101

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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**Bimetal at Contacts AL-CU 4000A - 4500A**

# TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB 500

Ratings:  $I_{nc}$  5000 A / 5500 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  6 kV,  $I_{sc}$  100 kA – 1.0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3rd Industrial Zone, Piece (20) Block (5) New Borg El-Arab  
21934 Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10.2.3.5, 10.11, Annex BB

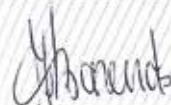
Remarks:  
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600161.02-INC, dated 4 June 2020.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 5 June 2020

Number: 4600161.101

DEKRA Certification B.V.



H.R.M. Barends  
Certification Manager

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Company registration 09085396

**Bimetal at Contacts AL-CU 5000A - 5500A**



# TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB Pro 200

Ratings:  $I_{nc}$  2000 A,  $U_n$  1000 V,  $U_i$  1000 V,  $U_{imp}$  6 kV/ 8 kV,  $I_{cw}$  85 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,  
10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2022  
(See general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600278.01-INC, dated 23 September 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 23 September 2022

Number: 4600278.100

DEKRA Certification B.V.

  
H.R.M. Barends  
Certification Manager

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**LSB PRO**

**2000A**

## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB Pro 310

Ratings:  $I_{nc}$  3100 A,  $U_g$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV/ 6 kV,  $I_{cw}$  85 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,  
10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2022  
(See general notes on tests in the report)

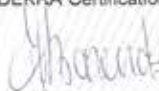
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600278.02-INC, dated 23 September 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 23 September 2022

Number: 4600278.101

DEKRA Certification B.V.

  
H.R.M. Barends  
Certification Manager

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**LSB PRO**

**3100A**



## TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB PRO 350

Ratings:  $I_{nc}$  3200 A / 3500 A (without heat sink),  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  8 kV / 6 kV,  
 $I_{cw}$  85 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses: 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7,  
10.8, 10.9, 10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2022  
(See general notes on tests in the report)


This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600296.02-INC, dated 19 May 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 23 May 2022

Number: 4600296.101

DEKRA Certification B.V.

  
H.R.M. Barends  
Certification Manager

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**LSB PRO**

**3500A**

# TEST CERTIFICATE

Issued to: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

For the product: Low-voltage busbar trunking system

Trade name: LECTRO BAR

Type/Model: LSB Pro 400

Ratings:  $I_{nc}$  4000 A,  $U_e$  1000 V,  $U_i$  1000 V,  $U_{imp}$  6 kV/ 8 kV,  $I_{cw}$  85 kA – 1,0 s  
For more details see annex

Manufactured by: Lectro Elhabashy for Electrical Products Co.  
3<sup>rd</sup> Industrial Zone, Piece (5) Block (20)  
New Borg El-Arab 2134  
Alexandria, Egypt

Subject: Design verification

Requirements: IEC 61439-6: 2012  
Clauses 10.2.2, 10.2.3, 10.2.7, 10.2.101, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,  
10.10, 10.11, Annex BB, Annex CC, Annex DD

Remarks: Date of performance of tests: 2011, 2013, 2016, 2020 and 2022  
(See general notes on tests in the report)


This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 4600278.03-INC, dated 23 September 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 23 September 2022

Number: 4600278.102

DEKRA Certification B.V.

  
H.R.M. Barends  
Certification Manager

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**LSB PRO**

**4000A**



# REASONS TO USE LECTRO BUSDUCT

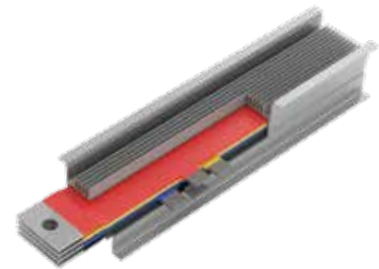
## ● Safe and Versatile Design

- Busduct meet the requirement of IEC 61 - 439
- Tested and approved by different accredible laboratories
- Manufactured in an ISO 9001 / 2000  certified facility to ensure highest quality control
- Fully type tested at ► **DEKRA** Laboratories
- Product certified for  Mark
- Since 1975 in the Market

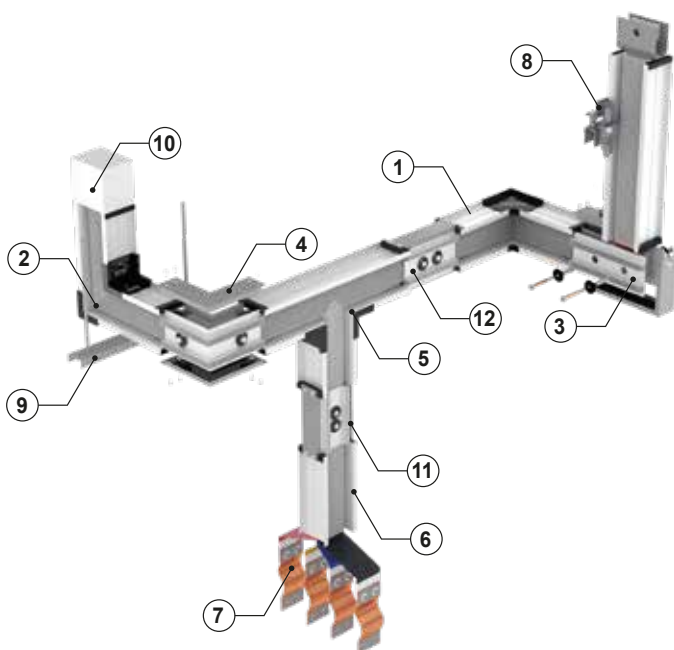


## ● True Sandwich for Both Feeder and Plug-in

- No need to separate or flare the bars at the outlet
- High short circuit withstand for both feeder and plug-in
- Low impedance and low voltage drop
- No need to use internal fire barrier
- No flame , smoke or gas propagation in the housing  
" Chimney Effect "



## ● Maximum Layout Flexibility



### Accessories

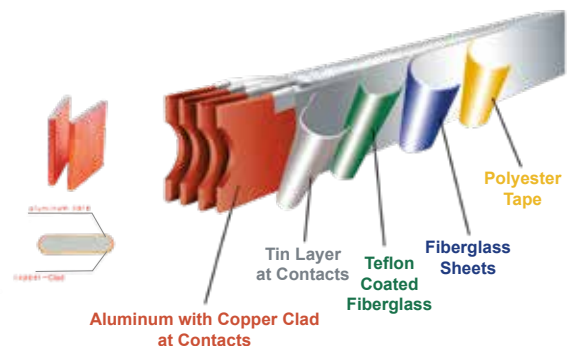
1. Edgewise Elbows
2. Flat Elbows
3. Corner Flat Elbows
4. Corner Edgewise Elbows
5. Tees & Crosses
6. Transformer & Switchboard Flanges
7. Flexible Joints
8. Spring Riser
9. Angle Hanger
10. End Closure
11. Standard Joint
12. Long Joint

## ● A- Tin Coated High Purity Copper Bars

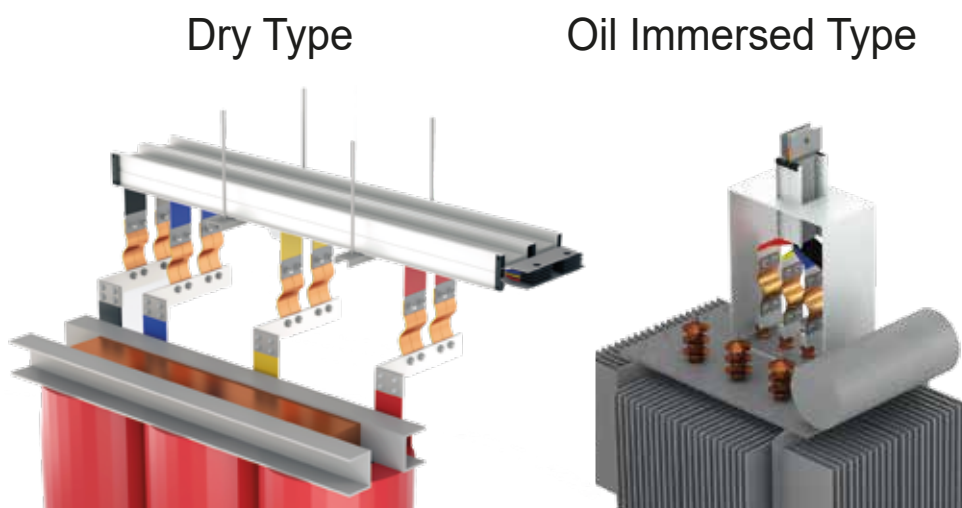
- Oxygen free high purity  $\geq 99.99\%$
- High Conductivity  $\geq 99.95\%$
- Surface Protection with tin coating at contacts
- Good Contact

## ● B- Bimetal Aluminum with Copper Clad at Contacts

- Bimetallic with copper cladding covering an aluminum core
- Combines the optimum properties of both metals



## ● Transformer Connections



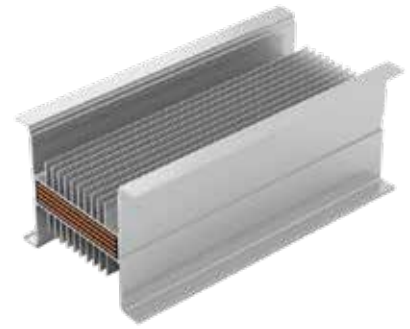
## Transformer Box

- Enclose flexible joint and transformer bushing
- Protect the system from the entry of any foreign body
- Easy check on transformer oil leakage without de-energizing the system



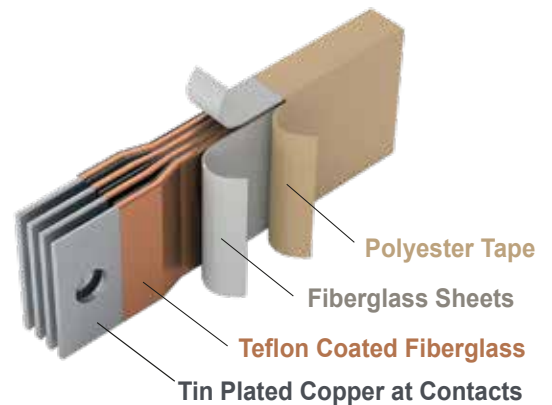
## ● Aluminum Casing

- Excellent heat dissipation
- Significant reduction in reactance and magnetic flux leakage
- Excellent ground return path
- Excellent water and dust protection



## ● High Insulation Tested at 3500V

- Two Insulation Layers used
- Main Insulation is Teflon Coated Fiberglass (5000V, non flammable, 260 degree working Temp.)
- All insulation used better than class H
- Working temperature 50 C, no deration required



## ● Grounding and Neutral Flexibility

- Integral casing ground as standard, 50% Additional ground bar
- 200%. 100% (full), 50% (Half) neutral available
- No need for earth bar the aluminum housing ground conductor is carried through the joint

## ● Quick Delivery and Easy Ordering

- Quickest delivery to meet project requirement
- Accurate layout done by Lectro Group
- Detailed drawing in one week from receiving the order



## ● Five Years Warranty

- Warranty extended to 15 years with Lectro easy maintenance program
- Ask your local distributor for more details

# Electrical Data Sheet

Casing : Extruded Aluminium  
 Protection Degree (IP) : Standard - IP54, Optional - IP55, IP65, IP67  
 Rated Insulation Voltage (V) : 1000

Rated Operation Voltage (V) : upto 1000  
 Rated Impulse Voltage (kV) : 8  
 Frequency (Hz) : 50,60

## Copper

Ampere Rating (A)															
	300	450	700	800	1000	1200	1300	1600	2250	2500	3200	3500	4000	5000	6400
<b>Short Circuit Current</b>															
Short circuit current for 1sec (kA)**	15	20	25	40	50	50	60	75	80	100	130	140	150	150	150
Peak Short Circuit (kA)	30	40	52.5	84	105	105	132	154	176	220	286	308	330	330	330
<b>Characteristics under normal operation</b>															
Phase resistance ( $\mu\Omega/m$ )	400	240	120	75	60	60	50	37.5	30	25	20	16.7	15	12.5	10
Phase reactance ( $\mu\Omega/m$ )	32	30	25	23	28.4	13.8	25.8	14.6	13.5	11.5	9.1	6.8	6.7	6	6
Phase impedance ( $\mu\Omega/m$ )	401.5	241.7	122.5	78.4	66.4	61.5	56.3	40.3	32.9	27.5	22	18	16.4	13.9	11.67
Casing resistance ( $\mu\Omega/m$ )	72	68	49	31	28	19	19	15.5	14	9.5	9.5	6.3	7	4.75	4.7
<b>Voltage drop for distributed load*(<math>\mu V/m</math>)/A</b>															
Cos $\Phi$ = 0.8	294.9	181.6	96	63.8	56.2	48.68	48	33.5	27.7	23.3	18.5	15	13.8	11.7	10
Cos $\Phi$ = 0.9	324.7	198.2	102.9	67.1	57.5	51.96	48.7	34.7	28.5	23.8	19	15.5	14.2	12	10.08
Cos $\Phi$ = 1.0	346	207.6	103.8	64.8	51.9	51.9	43.2	32.4	25.9	21.6	17.3	14.4	12.9	10.8	8.55

\*\* Calculated values, tested values are: 40kA for 800A, 50kA for 1000A, 1200A, 75kA for 1600A, 2000A, 2500A, 100kA for 3200A and higher

## Bimetal Aluminum Copper Clad

Ampere Rating (A)									
	800	1250	1350	1600	2300	2500	3200	4500	5500
<b>Short Circuit Current</b>									
Short circuit current for 1sec (kA)**	35	50	50	60	100	100	100	100	100
Peak Short Circuit (kA)	70	105	105	132	220	220	220	220	220
<b>Characteristics under normal operation</b>									
Phase resistance ( $\mu\Omega/m$ )	82	49.2	41	35.6	24.73	21.1	16.87	12.9	10.12
Phase reactance ( $\mu\Omega/m$ )	29	22.37	20	15.44	8.08	9.39	5.7	6.18	3.49
Phase impedance ( $\mu\Omega/m$ )	86.9	54	45.6	38.8	26	23.09	7.8	14.3	10.7
Casing resistance ( $\mu\Omega/m$ )	31	28	26	16	14	13	11	8	6
<b>Voltage drop for distributed load*(<math>\mu V/m</math>)/A</b>									
Cos $\Phi$ = 0.8	71.8	45.6	38.75	32.65	21.3	19.47	14.63	12.13	8.81
Cos $\Phi$ = 0.9	74.8	46.8	39.53	33.59	22.33	20	15.3	12.39	9.2
Cos $\Phi$ = 1.0	70.9	42.5	35.46	30.79	21.39	18.25	14.59	11.15	8.75

\*The value of the voltage drop is for distributed load.

For voltage drop in  $\mu V/m$  multiply the table values by the actual current.  
 Shown values are line to line voltage drop.



# FUSE SWITCH DISCONNECTOR



**SWITCH FUSE**



**FUSE BASES**



**FUSES**

# CERTIFICATE OF APPROVAL

## CERTIFICATE OF APPROVAL

AWARDED TO

السادة / شركة لكتروحبشي للصناعات الكهربائية

تشرف اللجنة المشكلة من الشركة القابضة لكهرباء مصر بعد مراجعة البيانات الفنية وتقارير الاختبارات المقدمة وفحص العينات المقدمة ومعاينة خطوط الإنتاج بالمصنع قد أعدت تقريرها في هذا الخصوص والذي انتهى إلى قبول الآتي:-

- مصهر جهد منخفض (٥٠٠) فولت - سعة (٢٥٠) أمبير - مقاس (NT2) - ماركة ( Lectro Habashy ) .
- مصهر جهد منخفض (٥٠٠) فولت - سعة (٤٠٠) أمبير - مقاس (NT3) - ماركة ( Lectro Habashy ) .
- المصهرات انتاج شركة لكتروحبشي للصناعات الكهربائية وبنسبة مكون محلي ٦٢ %.

على أن تلتزم الشركة الحاصلة على الاعتماد بتحقيق كافة المتطلبات الفنية بكفاءة الشروط والمواصفات التي تطرحها شركات الكهرباء التابعة وضرورة تقديم أصل شهادة الاعتماد عند الطلب من الجهات المعنية وعدم التعامل مع أي خطابات أو شهادات صادرة قبل تاريخ إصدار هذه الشهادة.

هذا الاعتماد ساري لمدة ثلاث سنوات من ٢٠٢٢/٨/٣١

مع مراعاة ضرورة تحديث هذه الشهادة في حالة تعديل المواصفات القياسية العالمية "IEC" أو المواصفات الفنية الموحدة للشركة القابضة لكهرباء مصر " ذات الصلة " .

رئيس قطاع  
نظم إجراءات السيانة ومراقبة الجودة للبحر  
ورئيس لجنة اعتماد المصانع  
مهندس / أمام أحمد الأصم

2022-08-31

## CERTIFICATE OF APPROVAL

AWARDED TO

السادة / شركة لكتروحبشي للصناعات الكهربائية

تشرف اللجنة المشكلة من الشركة القابضة لكهرباء مصر بعد مراجعة البيانات الفنية وتقارير الاختبارات المقدمة وفحص العينات المقدمة ومعاينة خطوط الإنتاج بالمصنع قد أعدت تقريرها في هذا الخصوص والذي انتهى إلى قبول الآتي:-

- قاعدة مصهر جهد منخفض سعة (٢٥٠) أمبير - مقاس size 2 - ماركة ( Lectro Habashy ) .
- قاعدة مصهر جهد منخفض سعة (٤٠٠) أمبير - مقاس size 3 - ماركة ( Lectro Habashy ) .
- قاعدة مصهر جهد منخفض سعة (٦٣٠) أمبير - مقاس size 3 - ماركة ( Lectro Habashy ) .
- قواعد المصهرات انتاج شركة لكتروحبشي للصناعات الكهربائية وبنسبة مكون محلي ٦٥ %.

على أن تلتزم الشركة الحاصلة على الاعتماد بتحقيق كافة المتطلبات الفنية بكفاءة الشروط والمواصفات التي تطرحها شركات الكهرباء التابعة وضرورة تقديم أصل شهادة الاعتماد عند الطلب من الجهات المعنية وعدم التعامل مع أي خطابات أو شهادات صادرة قبل تاريخ إصدار هذه الشهادة.

هذا الاعتماد ساري لمدة ثلاث سنوات من ٢٠٢٢/٨/٣١

مع مراعاة ضرورة تحديث هذه الشهادة في حالة تعديل المواصفات القياسية العالمية "IEC" أو المواصفات الفنية الموحدة للشركة القابضة لكهرباء مصر " ذات الصلة " .

رئيس قطاع  
نظم إجراءات السيانة ومراقبة الجودة للبحر  
ورئيس لجنة اعتماد المصانع  
مهندس / أمام أحمد الأصم

2022-08-31



# ENERGIX

## EnergiX-M



## EnergiX-S



## EnergiX-F





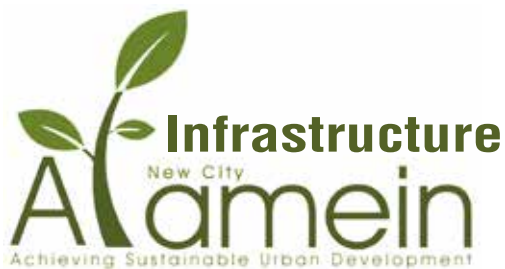
## *Lectrobar* Egypt Projects



# *New Alamein City*



*Total Meters  $\approx$  50000m*



**IL LATINI**  
NEW ALAMEIN

**AL HAMRA HOTEL**  
**The Entertainment Area**

**AL ALAMIEN AIRPORT**  
*Heritage City*

# *New Capital City*



*Total Meters  $\approx 65000m$*



# Government District - New Capital



Total Meters  $\approx 30000m$



## *Banks District - New Capital*



*Total Meters  $\approx$  20000m*







---

*Octagon Buildings*  
*Military Colleges and Institutes*

---

*R1 - R2 - R3 - R5 - R6*



ARMY STADIUM



*Knowledge City*



مسجد الفتاح العليم  
العاصمة الإدارية الجديدة



CAPITAL HOSPITAL



Shooting Club  
**Olympic City**



# *Eastern Company SAE*



*Total Meters  $\approx$  70000m*

# *Data Centers*

*New Capital*



*Octagon Mansoura 2 / 4*

*Mohamed Naguib Military Base*



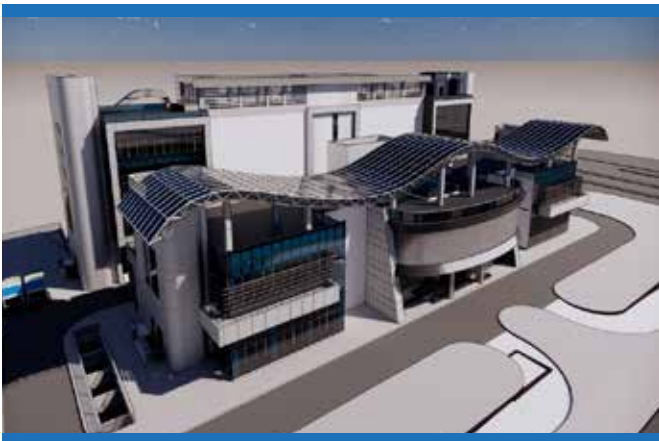
*COC - CCC*



*NN1*



*NN2*

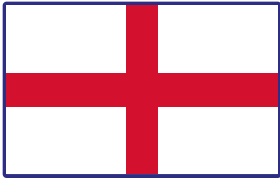


*Etisalat*



*Total Meters  $\approx 75000m$*

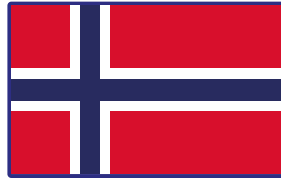
# *International Projects*



ENGLAND



KOREA



NORWAY



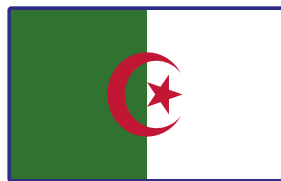
U.A.E



KSA



NIGERIA



ALGERIA



IRAQ



OMAN



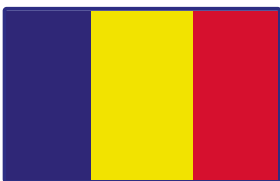
KENYA



TANZANIA



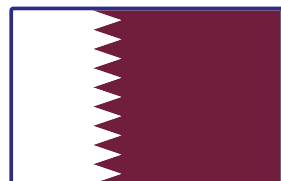
ZAMBIA



CHAD



JORDAN



QATAR



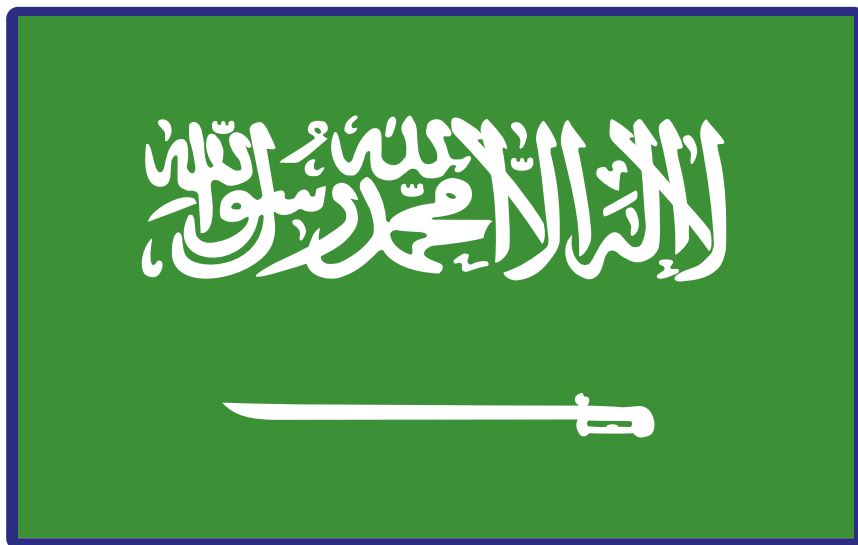
SUDAN



BAHRAIN







*K.S.A Projects*

# *Andalusia Hospital University District 2023*



*Total Meters  $\approx$  1500m*



*U.A.E Projects*





## **Project Description**

### **Data Center**

430m - 3200 A

400m - 3500 A

30m - 2500 A

300m - 700 A

320m - 250 A

# Shaali Tower Ajman

**Consultant**



**Contractor**

**mec:**



## **Project Description**

**Residential & Commercial**

*425 m 2500 A*

# Al Mazroei Tower Fujairah

**Contractor**



**Consultant**



**Project Description**

**Residential & Commercial**

**4000A 180 Meter**

**2500A 260 Meter**



# **DANUBE** **PROPERTIES**

## **GLAMZ by DANUBE**

**Al Furjan Dubai**



### **Project Description**

**Contractor**

**1200A 1600A**

**Consultant**

**BSC** **بن شاطر contracting**  
Bin Shatar Contracting LLC

**VOLT** *flow*  
mechanical works LLC

**إدماك للاستشارات الهندسية**  
**EDMAC**  
ENGINEERING CONSULTANT



REAL ESTATE

## **OASIS TOWER 2**

### **G+36 Al Rashidiya 1 - Ajman**



### **Project Description**

2500A 1600A

### **Contractor**



### **Consultant**







## The Dubai Mall Fashion Atrium Expansion



### Project Description

**Contractor**

4000A

**Consultant**







# **CLOCK TOWER**

## **G+7P+24 Typ. Floors Al Rashidiya 1 - Ajman**



### **Project Description**

2250A 1600A

### **Contractor**



### **Consultant**





## AKA RESIDENCE

JVC DUBAI(G+5P+20)



### Project Description

**Contractor**

**1200A**

**Consultant**







## Central Park Tower Residential Building JVC Dubai



### Project Description

**Contractor**

1200A 310m

**Consultant**



AL QANFAL  
TECHNICAL  
SERVICES LLC.



سجما نرت  
انجنيئرنگ كونسلٲانٲس  
SIGMA NRT  
ENGINEERING CONSULTANTS





## Rose 10 Residential Building JVC Dubai



### Project Description

**Contractor**

1200A 295m

**Consultant**



**STARZ by DANUBE**

## Al Furjan Dubai



## Project Description

## Contractor

**1200A 1600A**

## Consultant





مستشفى ثومبي الجامعي

**THUMBAY UNIVERSITY HOSPITAL**

Thumbay Medicity, Al Jurf, Ajman - U A E

## **Gulf Medical University And Hospital( Thumbay) AJMAN**



### **Project Description**

**Contractor**

3200A 213 Meters

**Consultant**

2250A/2000A 90 Meters

  
**THUMBAY BUILDERS**  
CONSTRUCTION SIMPLIFIED

**HOSMAC**  
PERFECTING HEALTHCARE



**Khalifa Khamees Mattar**

**B+G+2M+12**  
**RESIDENTIAL-TOWER Fuiairah**



**Project Description**

**Contractor**

Lord General Contracting LLC



4000A

**Consultant**

ايدماك للاستشارات الهندسية

**EDMAC**  
ENGINEERING CONSULTANT

# CHARITABLE SOCIETY FUJAIRAH

## G+5P+1HC+1Technical+20 Floor RESIDENTIAL-COMMERCIAL Fujairah



### Project Description

3200A

**Contractor**

**Consultant**



الفضيرة الوطنية للأعمال الكهربائية والميكانيكية  
Fujairah National Electro-Mechanical Works  
P.O. Box 911, Fujairah, UAE. Tel. +971 8 224 1281 Fax. +971 8 224 1281  
E-mail: fnct@fnct.ae www.fnct.ae



TALAL RAWEAL  
ARCHITECTS - ENGINEERS - PLANNERS  
P.O. Box 911, Fujairah, UAE. Tel. +971 8 224 1281 Fax. +971 8 224 1281  
E-mail: tr@tr.ae www.tr.ae

**Ebraheim Ali Abdullah**

**G+3P+M+11**  
**RESIDENTIAL-TOWER Fujairah**



**Project Description**

**2250A**

**Contractor**

SKYLINE CONTRACTING CO. L.L.C.  
Tel. : 09 2027100 - Fax : 09 2029101  
P.O. Box : 792 - Fujairah - U.A.E.



**Consultant**

Future Engineering Design Center Fujairah





# Citymax HOTELS AL Barsha - Dubai

## Contractor



## Consultant



**Project Description**  
**Residential & Commercial**  
**2250A 113 Meter**  
**1200A 104 Meter**

650m - 2500 A  
80m - 800 A  
100m - 2000 A

# Clouds 9 Residential Building

**Contractor**



**Consultant**



**Project Description**

**Residential**

**143m 1600A**



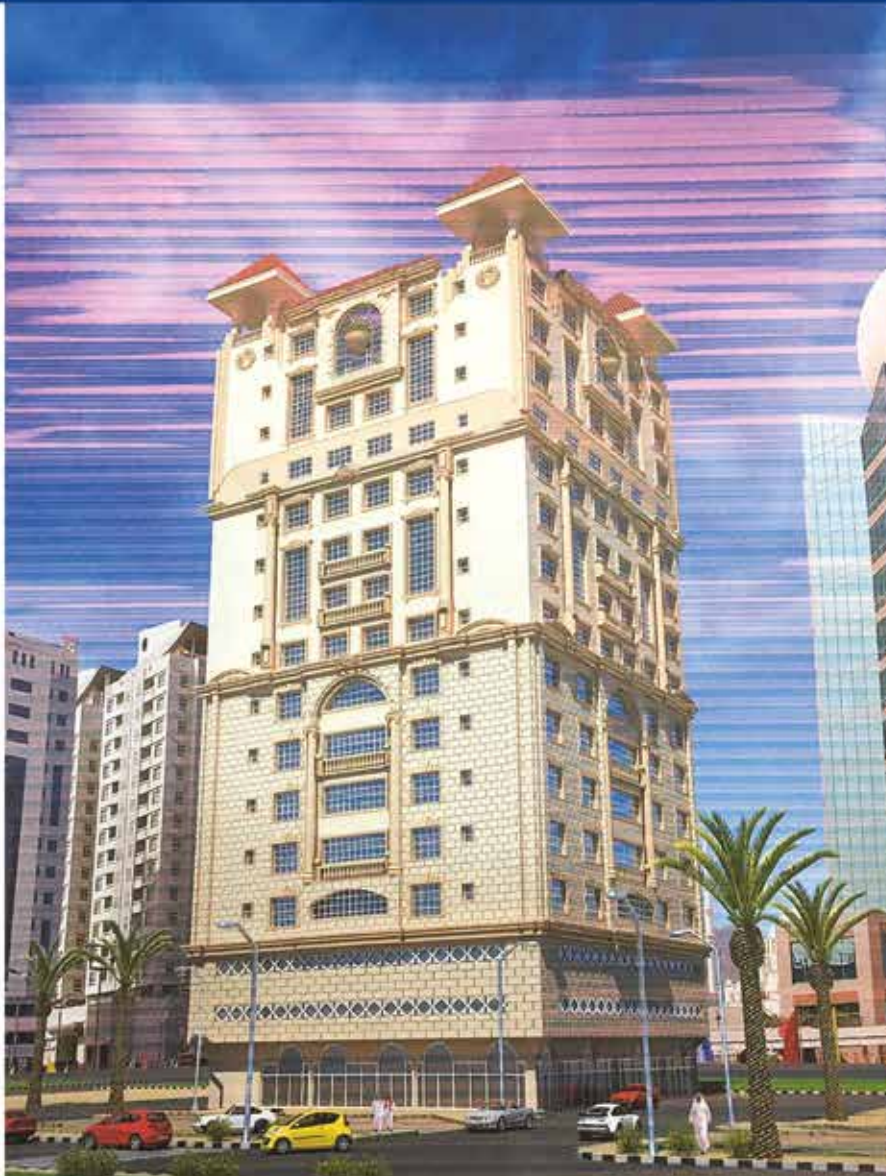
# Al Qatami Building Fujairah

**Contractor**



**Consultant**

**E**mirates  
**E**ngineering  
**C**onsultant



**Project Description**

**Residential**

**1250A / 1300A 100 Meter**

# Ahmed Al Mazroei Bldg. Fujairah

Contractor



Consultant



**Project Description**  
**Residential & Commercial**  
**1600A 55 Meter**  
**2250A 95 Meter**



# Naresh Kumar Building Ajman

Contractor



Consultant



**Project Description**  
**Residential & Commercial**  
**2500A 130 Meter**



# Qurtaba Tower Ajman

**Contractor**



**Consultant**



**Project Description**  
**Residential & Commercial**  
**2500A 240 Meter**

# **G+3P+13 3Tower Residence Tower Ajman**

**Contractor**  
**Osama Contracting**

**Consultant**



**Project Description**  
**Residential & Commercial**  
**2500A 550 Meter**



# Global Gulf Residence II Dubai

## Contractor



## Consultant



DIMENSIONS<sup>™</sup>  
ARCHITECTURE & INTERIORS



## Project Description

### Residential & Commercial

2500A 363 Meter

1200A 115 Meter

800A 37 Meter

700A 216 Meter



# Goshi Residence Tower Dubailand

Contractor



Consultant

**NEXT**

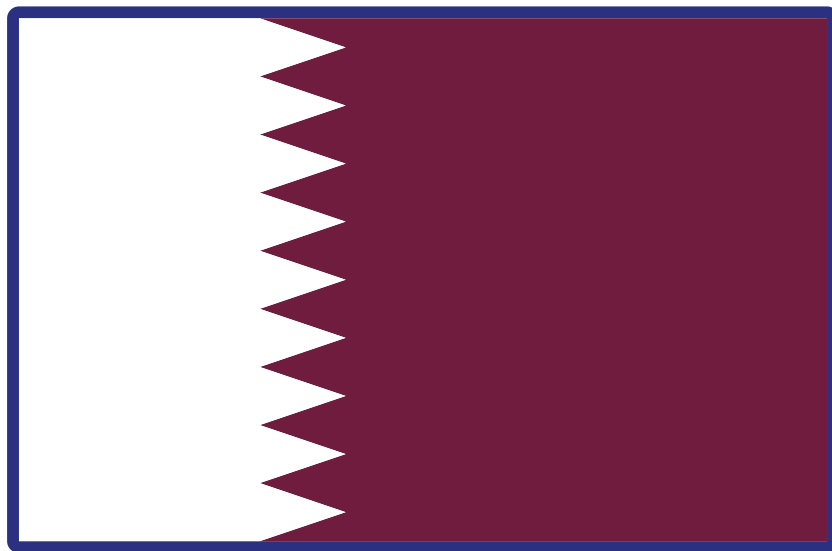
Engineering Consultants



Project Description

**Residential & Commercial**

**2250A 110 Meter**



## *Lectrobar* Qatar Projects



## Consultant

ECG  
ENGINEERING CONSULTANTS GROUP S.A.

SHAKER  
CONSULTANCY GROUP

## Contractor



## Approval

Form 101-1 (Rev. 1/1437H)

Project Name: King Fahd Stadium

Project No: 101-1

Client: Ministry of Public Works and Urban Planning

Contractor: KCT

Consultant: ECG

Approval Status: ☒ Approved

Approved By: [Signature]

Approved Date: 1437/11/15

Remarks: [Blank]

## Project Description

### Stadium

650m 2500A



120m 1300A  
330m 630A

An architectural rendering of a modern skyscraper complex. The central focus is a tall, rectangular tower with a glass facade and a distinctive curved top section. To its right is another tall tower, also with a glass facade, featuring a more rounded, dome-like top. In the foreground, there are several lower-rise buildings with classical architectural elements like columns and arches. A small, blue, dome-shaped structure is visible between the two main towers. The scene is set against a city skyline with other skyscrapers in the background. The sky is a mix of blue and pinkish-purple, suggesting a sunset or sunrise. In the foreground, there are cars and a few people walking on a sidewalk, giving a sense of scale and urban context.



75m - 5000 A  
370m - 3200 A



# El-Hedar Suites El-Doha



## Project Description

### Residential

*200 m 1600 A*

*350 m 1300 A*

*300 m 1000 A*

*200 m 800 A*

*50 m 630 A*

**CLIENT****PROJECT**

**P.11 MIXED USED BUILDINGS**  
**MU – 05, MU – 06, MU - 07**



**1600A BUSDUCT SYSTEM**  
**700A BUSDUCT SYSTEM**  
**300A BUSDUCT SYSTEM**

**CONSULTANT****MAIN - CONTRACTOR****MEP - CONTRACTOR**



**CLIENT****PROJECT****P.06 CRESCENT BUILDING MIXED USED****1600A BUSDUCT SYSTEM  
800A BUSDUCT SYSTEM****CONSULTANT****MAIN - CONTRACTOR****MEP - CONTRACTOR**



## PROJECT

04 MALL AT THE PEARL



2500A BUSDUCT SYSTEM

## CONSULTANT



## MAIN - CONTRACTOR



## CLIENT



مجموعة المرقاب للمشاريع  
Al Mirqab Projects Group

## PROJECT

ANDAZ | DOHA



2500A BUSDUCT SYSTEM  
1600A BUSDUCT SYSTEM  
800A BUSDUCT SYSTEM

## CONSULTANT



المكتب العربي للشؤون الهندسية  
Arab Engineering Bureau

## MAIN - CONTRACTOR



**CLIENT**



**PROJECT**

**AL ERKYAH CITY**  
**R – 05, R – 15, R – 34**



**BLDG R-05**

**700A BUSDUCT SYSTEM**  
**450A BUSDUCT SYSTEM**

**BLDG R-15**

**300A BUSDUCT SYSTEM**

**BLDG R-34**

**300A BUSDUCT SYSTEM**

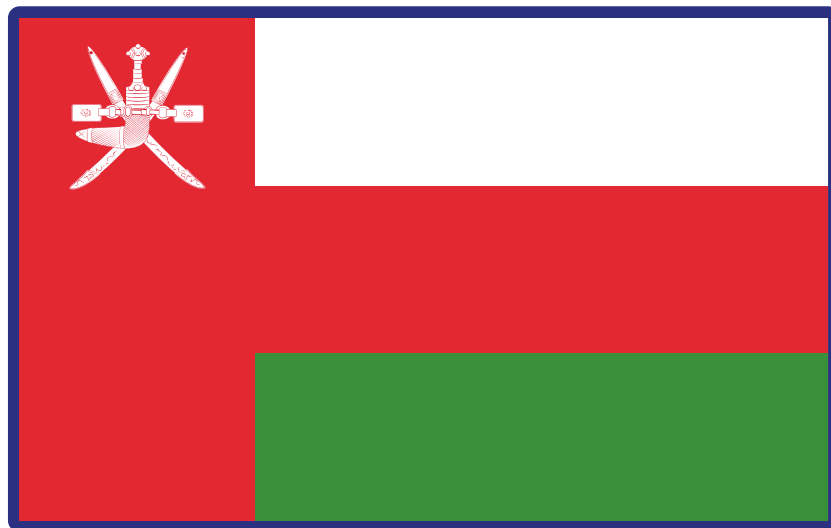
**CONSULTANT**



**MAIN - CONTRACTOR**







## *Oman Projects*

شركة الدقم لتوليد الكهرباء ش.م.م.  
Duqm Power Company L.L.C.

## POWER PLANT AREA DUQM OMAN



### Project Description

**Contractor**

3200A, 4000A

**Consultant**



# SHEIKH ABDULLAH BIN AL ARAIMI AL ARAIMI BOULEVARD MALL

Contractor

Consultant



## Project Description

3200A 2500A  
1600A



# Dhofar Desalination Company SAOC

## Independent Water Project IWP SALALAH, OMAN



### Project Description

**Contractor**

**2500A**

**Consultant**



WALEED ASSOCIATES LLC



سلاسل للخدمات الكهربائية  
SALASEL ELECTRIC SERVICES  
Safety & Sustainability - سلامة واستدامة



**Consultant**  
**ATKINS**

## Contractor



**GALFAR ENGINEERING & CONTRACTING SAOG**  
"THE WILL TO LEAD, A PASSION TO EXCEL"



## Approval

[illegible]

### Project Description

# Bank

76m - 4000 A  
44m - 2500 A  
70m - 3200 A



170m 4000A  
170m 2500A  
40m 2000A,  
45m 1600A  
280m 1000A



**Consultant**  
**ATKINS**

**Contractor**



**Approval**

glorei		Muttawar Residential Development Main Works		ATKINS	
MATERIAL APPROVAL SUBMITTAL (MAS)					
MAS Ref:	ATO-MAS/2017/008	Revision:	Rev. 001	Submitted:	17 May 2017
Commission:	Larsen & Toubro (India) Ltd.	Manufacturer/Supplier:	320 Suburban, Regd. Co.	Submitted:	17 May 2017
Contract No:	00000000000000000000	Supplier:	320 Suburban, Regd. Co.	Submitted:	17 May 2017
MAS Ref:	ATO-MAS/2017/008	Time Period:	12 Months	Submitted:	17 May 2017
Drawn:	320 Suburban, Regd. Co.	Rev. Ref:	As attached	Submitted:	17 May 2017
Check Ref:	320 Suburban, Regd. Co.	Supplier Address:	320 Suburban, Regd. Co.	Submitted:	17 May 2017
Day Ref:	320 Suburban, Regd. Co.	Contract Address:	320 Suburban, Regd. Co.	Submitted:	17 May 2017
Source:	320 Suburban, Regd. Co.	Delivery or Ref:	320 Suburban, Regd. Co.	Submitted:	17 May 2017
Submission Date:	17 May 2017			Submitted:	17 May 2017
Comments:	For the Ref.				
Signature:	Date: 17 May 2017				
REMARKS:					
Please refer to the contract for the contract details.					
Required Information: See Appendix - Contract					
Status: Recommended <input checked="" type="checkbox"/> / Withdrawn <input type="checkbox"/>					
Recommendations and Comments:					
Signature: [Signature] Date: 17 May 2017					
PROJECT MANAGER:					
Approved: <input checked="" type="checkbox"/> / Rejected: <input type="checkbox"/>					
Approved with additional comments:					
Signature: [Signature] Date: 17 May 2017					

**Project Description**  
**Residential**

35m 3200A  
290m 2500A  
10m 1300A,  
10m 1000A

شركة الدقم لتوليد الكهرباء ش.م.م.  
Duqm Power Company L.L.C.

## WATER PLANT AREA DUQM OMAN



### Project Description

**Contractor**

2500A,3200A

**Consultant**



L&T-S&L





Sultanate of Oman  
Ministry of Manpower

**Consultant**

**Huckle  
& Partners LLC**

Majan Engineering Consultants

**Contractor**



**LARSEN & TOUBRO**



**Approval**

 Larsen & Toubro (Oman) LLC P.O. Box No. 598, P.C. No. 112, Ruwi, Sultanate of Oman Tel: +968 24797445 & 24797466 Fax: +968 24797524	<b>MATERIAL APPROVAL SUBMITTAL</b> Project: Construction of Building for the Ministry of Manpower at Airport Heights, Muscat.	<b>To: Huckle &amp; Partners LLC</b> Chartered Architects and Planners P.O. Box 1379, Ruwi, Post Code 112 Sultanate of Oman Tel: +968 6211088 & 621258 Fax: +968 621065 E-Mail: hamp@hpa.net.om
---	---	---

Kind Attn: Mr. Herbert Krause - Senior Architect

CONTRACTOR: Larsen & Toubro (Oman) LLC

MAS NUMBER: EL-27

Date: 29/03/2011

MATERIAL DESCRIPTION: BUS DUCTS

SPECIFICATION REF: Section 4-6.3 Page 46/2 to 46/3

BOQ REF: B8 - 10

NOTICE OF COST VARIATION:

NIL

	AS SPECIFIED	AS PROPOSED
MANUFACTURER	NIL	Make: LECTRO, EGYPT
SUPPLIER	NIL	Supplier: TECHNICAL SUPPLIES
CAT. REF. NO.	NIL	As per Catalogue
SECTION CAPACITY OR DUTY	NIL	As per BOQ & SLD
FRESH COLOUR	NIL	As per Catalogue
ENCLOSURES/ ADDITIONAL INFORMATION	NIL	Sample Enclosed

We confirm that the material/fabric submitted is suitable for the conditions of use and conforms with the Contract Specifications and all applicable Codes, Standards and Statutory Requirements. We confirm that no variation to the Contract Specification is implied or claimed by this submittal sheet. Acceptance of this material submittal does not alter in any way whatsoever our contractual or common obligations and responsibilities.

Signed: as the authorized representative for Larsen & Toubro (Oman) LLC

Date: 29/3/11



Accepted as  
complying with  
Contract



Accepted but  
with comments as  
noted below



Rejected as  
noted below,  
new submittal required

**Project Description  
Governmental**

198m 5000A,  
321m 4000A,  
188m 3500/3900A  
25m 3200A,  
77m 2500A,  
139m 2000A,  
6m 1000A,  
74m 800A,  
4m 630A,  
49m 400A



# SEA WATER REVERSE OSMOSIS PLANT SOHAR- OMAN



**Project Description**  
**5000A**  
**4000A 3200A 2500A**  
**2000A 1600A**



## *Bahrain Projects*

## **Additional Block Girls Primary School @ MUHARRAQ BAHRAIN**



### **Project Description**

**800A**

### **Contractor**

### **Consultant**





**EWA**  
هيئة الكهرباء والماء  
Electricity & Water Authority  
Kingdom of Bahrain



وزارة التربية والتعليم  
Ministry of Education

# ADDITIONAL ACADEMIC BLOCK FOR GIRTS INTERMEDIATE SCHOOL @ WEST RIFFA BAHRAIN



## Project Description

800A

## Contractor



زيدون للمقاولات  
ZAEDON BUILDING CONSTRUCTION  
CA 11001 P.O. Box 3002 No 110754 No 30747



أسكون كونترول ذ م م  
ASCON CONTROL W.L.L.

## Consultant



وزارة الأشغال وشؤون البلديات والتخطيط العمراني  
Ministry of Works, Municipalities Affairs  
and Urban Planning



EWA  
هيئة الكهرباء والماء  
Electricity & Water Authority  
Kingdom of Bahrain



## AL TIJARIA MULTI STORY BUILDING@HOORA(G+46)



### Contractor



أسكون كونترول ذ م م  
ASCON CONTROL W.L.L

### Project Description

2250A, 2500A3200A

### Consultant



المعماريون العرب  
Arab Architects  
Architects & Engineers



المؤيد للتكييف  
Almoayyed Air Conditioning





# **Additional Academic Block & Sports Hall For Girls Primary School @ West Riffa BAHRAIN**



## **Project Description**

**700A**

## **Contractor**

## **Consultant**

