

CLIENT: DUBAI ELECTRICITY AND WATER AUTHORITY

HASHEMI & RAHIMI CONT.CO. LLC.  
PO BOX 30143, DUBAI

### DRAWING APPROVAL FORM

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**  
**PO Number:3761400029**

TYPE OF WORK

CIVIL  F/FIGHTING  AIR CONDITIONING   
PLUMBING  ELECTRICAL

SUBMITTAL NO: L2

FROM : HASHEMI & RAHIMI CONT. CO. LLC. DATE:11/07/2015  
TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : 1200MM LONG -2 X 18w LED TUBELIGHT  
Material proposed : ELMARK-9BM218LEDCW  
Supplier : MASONS FZCO

Submitted by (contractor)  date 11/07/2015

Received by \_\_\_\_\_ date \_\_\_\_\_

Signature

Signature



DEWA:

Approved   
Approved with comments:   
Not approved-Returned for modification

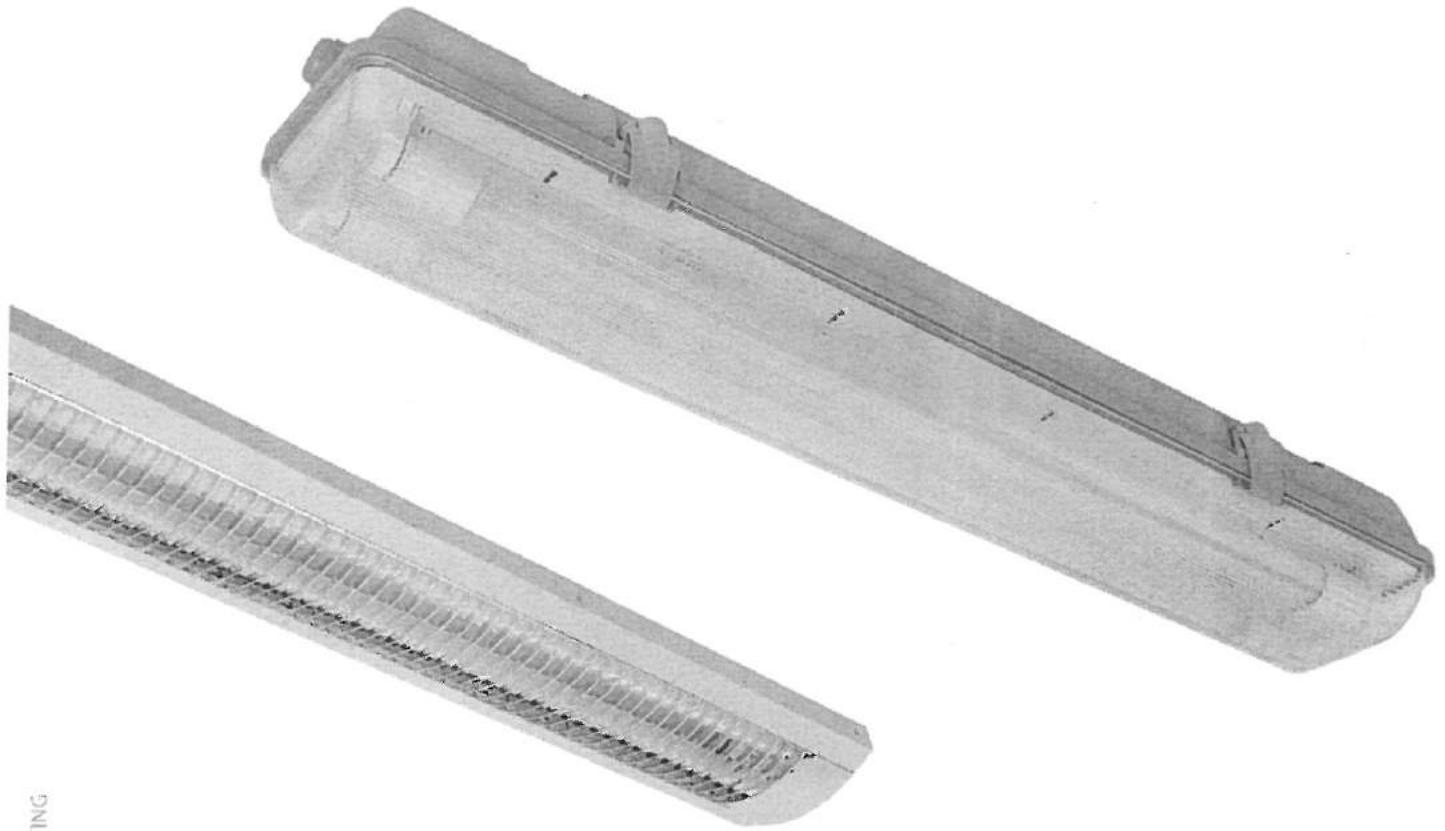
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

COMMEMNTS:

Approved Subject to provide 3 years unconditional  
replacement warranty.





LED INTERIOR LIGHTING

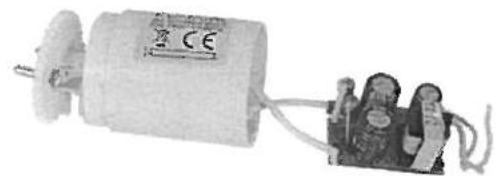
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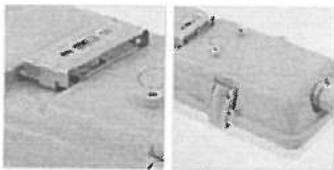
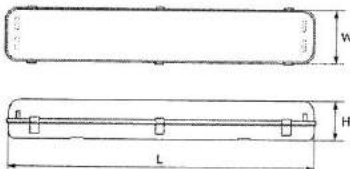
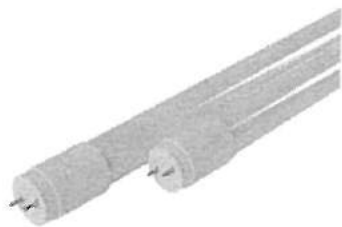
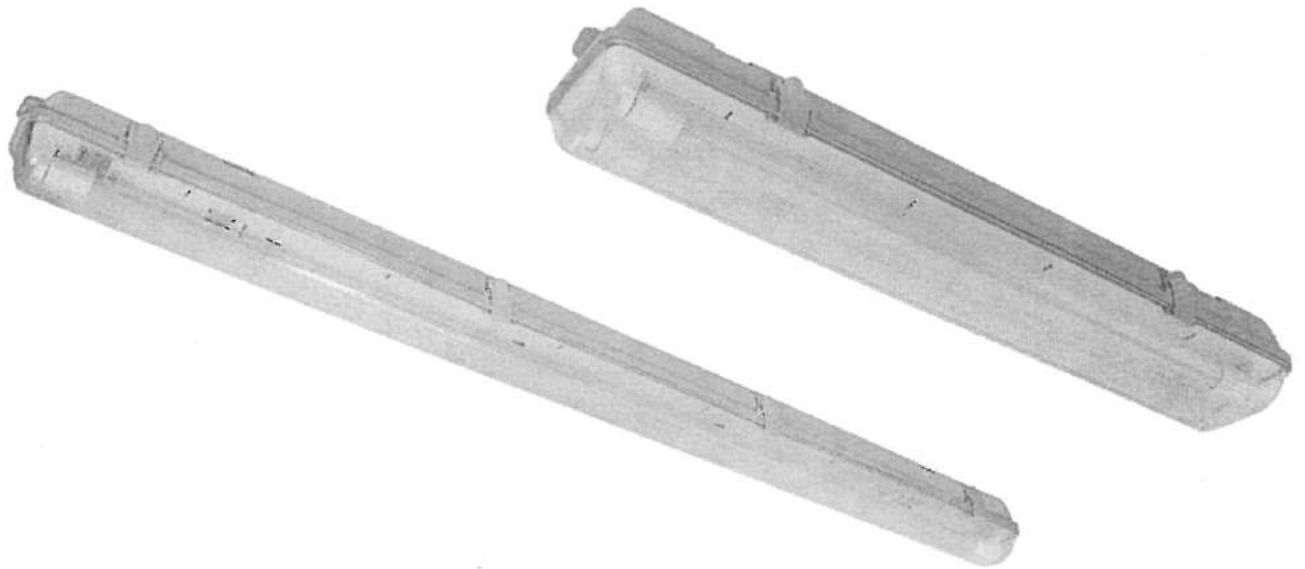
## LED FIXTURES

LED fixtures

**Drivers features:**

- Low consumption
- Compliance to worldwide safety regulations for lighting
- Certificate: CE, ROHS, EMC, LVD
- Type: constant current (CC/IC)
- Structure: non isolated
- Natural air cooled
- 100% full-load aged
- Working temperature up to 65°C
- High efficiency
- Long life span
- High reliability





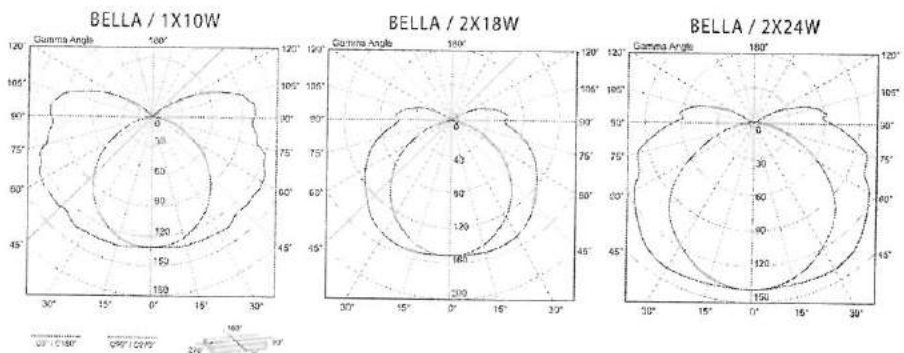
**BELLA Luminaire with LED Tubes** A+ A\*\* A IP 65 RoHS EMC

Watt	Colour temp. (K)	Colour body	Size (mm)			Catalogue number	Packing (pcs)
			Length	Width	Height		
1X10W	6400	grey	670	86	100	<b>9BM110LEDCW</b>	12
1X10W	4000	grey	670	86	100	<b>9BM110LED</b>	12
2X10W	6400	grey	670	131	100	<b>9BM210LEDCW</b>	9
2X10W	4000	grey	670	131	100	<b>9BM210LED</b>	9
1X18W	6400	grey	1270	86	100	<b>9BM118LEDCW</b>	9
1X18W	4000	grey	1270	86	100	<b>9BM118LED</b>	9
2X18W	6400	grey	1270	131	100	<b>9BM218LEDCW</b>	6
2X18W	4000	grey	1270	131	100	<b>9BM218LED</b>	6
1X24W	6400	grey	1570	106	110	<b>9BM124LEDCW</b>	6
1X24W	4000	grey	1570	106	110	<b>9BM124LED</b>	6
2X24W	6400	grey	1570	166	110	<b>9BM224LEDCW</b>	4
2X24W	4000	grey	1570	166	110	<b>9BM224LED</b>	4

**Body:** polycarbonate (PC) | **Diffuser:** polycarbonate (PC) | **Reflector:** steel white | **Clips:** polycarbonate | Cable gland, metal clips for wall fixing. | Lumens of the LED tubes (lm): 10W - 850lm; 18W - 1700lm; 24W - 2100lm | **Light source:** LED tubes



**3** YEAR WARRANTY



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PO BOX 30143, DUBAI

**DRAWING APPROVAL FORM**

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**

**PO Number:3761400029**

TYPE OF WORK

CIVIL

F/FIGHTING

AIR CONDITIONING

PLUMBING

ELECTRICAL

SUBMITTAL NO: L4

FROM : HASHEMI & RAHIMI CONT. CO. LLC.

DATE:11/07/2015

TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : LED FLOOD LIGHT  
Material proposed : ELMARK-99DS302  
Supplier : MASONS FZCO

Submitted by (contractor):

date 11/07/2015

Received by

date

Signature

Signature



DEWA:

Approved

Approved with comments:

Not approved-Returned for modification

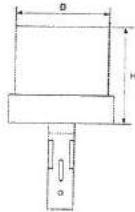
Signature:

Date:

COMMEMNTS:

*Data sheet of proposed not found  
Resubmit.*

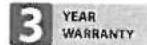




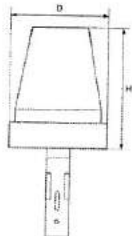
**LIGHT-CONTROL SENSOR ST303**



Type	Rated current	Colour body	Size (mm)			Catalogue number	Packing (pcs)
			Height	Diameter			
ST303	25A	white	70,5	78,3		99DS300	50



Ambient light: <5 - 50lux (adjustable) IP44



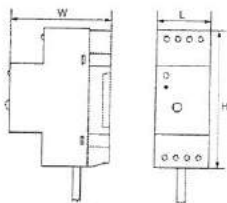
**LIGHT-CONTROL SENSOR ST302**



Type	Rated current	Colour body	Size (mm)		Catalogue number	Packing (pcs)
			Height	Diameter		
ST302	10A	white	76,7	63	99DS301	100



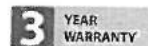
Ambient light: <5 - 50lux (adjustable) IP44



**LIGHT-CONTROL SENSOR ST308**



Type	Rated current	Colour body	Size (mm)			Catalogue number	Packing (pcs)
			Length	Width	Height		
ST308	20A	white	35	66	90	99DS302	100



Ambient light: <2 - 100lux (adjustable) IP65



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### DRAWING APPROVAL FORM

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**

**PO Number:3761400029**

TYPE OF WORK

CIVIL

F/FIGHTING

AIR CONDITIONING

PLUMBING

ELECTRICAL

SUBMITTAL NO: L3

FROM : HASHEMI & RAHIMI CONT. CO. LLC.

DATE:11/07/2015

TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : 48 W LED PANEL LIGHT  
Material proposed : ELMARK-92PANEL014P  
Supplier : MASONS FZCO

Submitted by (contractor)  date 11/07//2015

Received by \_\_\_\_\_ date \_\_\_\_\_

Signature

Signature



DEWA:

Approved

Approved with comments:

Not approved-Returned for modification

Signature: \_\_\_\_\_

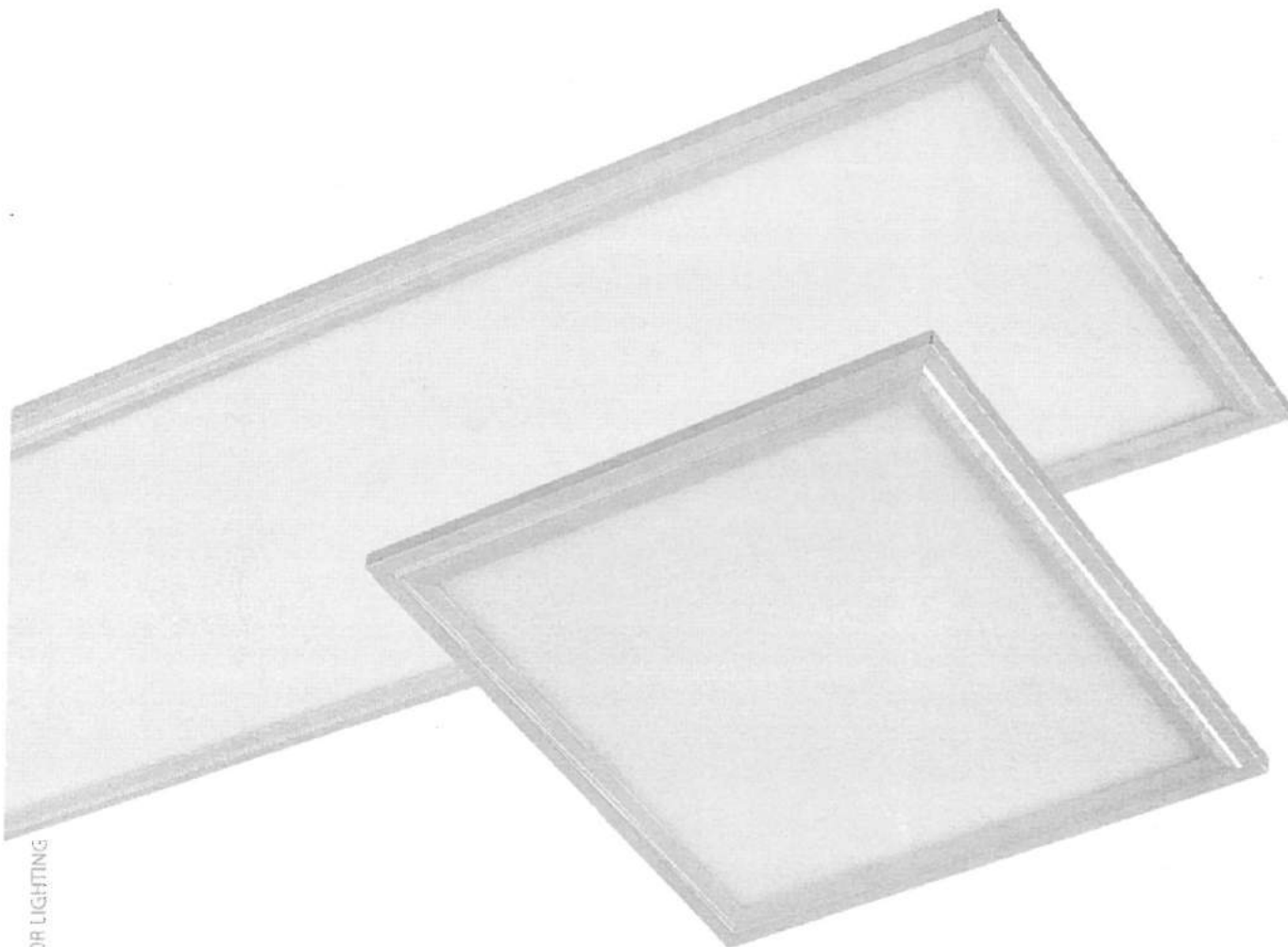
Date: \_\_\_\_\_

COMMEMNTS:

*Approved subject to providing 3 years  
Unconditional replacement warranty.*

*[Signature]*





LED INTERIOR LIGHTING

256

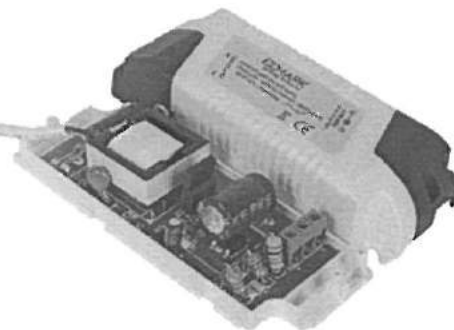
## LED PANELS

LED Panels

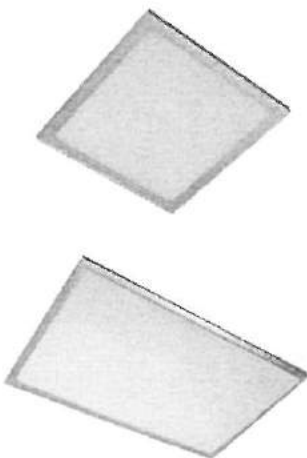
**Drivers features:**

- Easy installation
- Low consumption
- Strong compatibility
- Compliance to worldwide safety regulations for lighting
- Certificate: CE, ROHS, EMC, LVD
- Type: constant current (CC/IC)
- Structure: isolated

- International broad voltage AC input
- Protection: electric shock
- Natural air cooled
- 100% full-load aged
- Working temperature up to 65°C
- High efficiency, long life span, and high reliability



\* Driver for LED round panel



### LED PANEL



Watt	LED chip (lumens (lm)/ LED (pcs)	Whole fixture lumens (lm)	Colour temp. (K)	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					Length	Width	Height		
24W	25/120	1900	4000-4300	aluminium	295	295	11	<b>92PANEL012</b>	5
36W	25/180	2880	4000-4300	aluminium	595	295	11	<b>92PANEL013</b>	5
48W	25/240	4000	4000-4300	aluminium	595	595	11	<b>92PANEL014</b>	5
48W	25/240	4000	4000-4300	aluminium	1195	295	11	<b>92PANEL015</b>	5

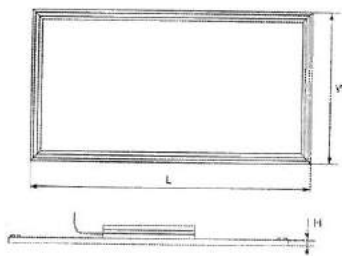
Suitable for mounting in suspended ceiling Armstrong type (in grid ceilings)

Body: aluminium | Light source: Epistar SMD4014 | Starting time: <0.5s | Power factor:  $\lambda > 0.9$

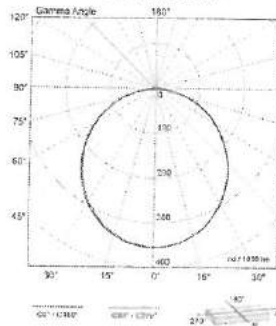
LED panels can be dimmed using a suitable dimmable driver and remote control.



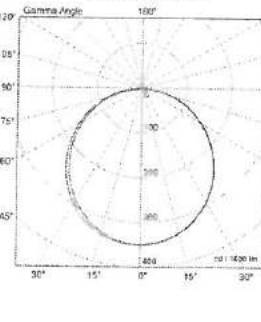
**5** YEAR WARRANTY



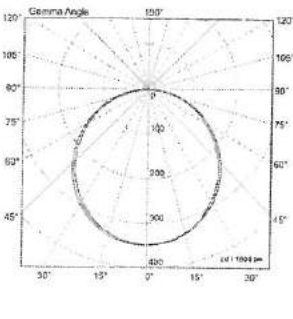
LED PANEL 24W



LED PANEL 36W



LED PANEL 48W



#### INSTALLATION ACCESSORIES FOR LED PANELS

Suspension wire for suspended mounting 4pcs/pack  
Catalogue number: **99ACC18**  
Packing (pcs): 1pack



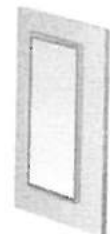
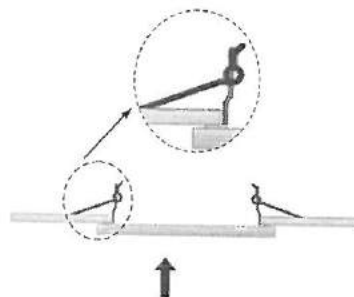
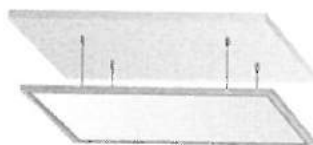
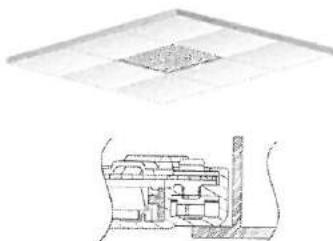
#### INSTALLATION ACCESSORIES FOR LED PANELS

Clips for mounting on plasterboard 4pcs/pack  
Catalogue number: **99ACC21**  
Packing (pcs): 1pack



#### INSTALLATION ACCESSORIES FOR LED PANELS

Fasteners for surface mounting 4pcs/pack  
Catalogue number: **99ACC22**  
Packing (pcs): 1pack





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PO BOX 30143, DUBAI

**DRAWING APPROVAL FORM**

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**

**PO Number:3761400029**

TYPE OF WORK

CIVIL

F/FIGHTING

AIR CONDITIONING

PLUMBING

ELECTRICAL

SUBMITTAL NO: L5

FROM : HASHEMI & RAHIMI CONT. CO. LLC.

DATE:11/07/2015

TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : OCCUPANCY SENSORS

Material proposed : ELMARK-99DS107

Supplier : MASONS FZCO

Submitted by (contractor) date 11/07//2015

Received by date

Signature

Signature

DEWA:

Approved

Approved with comments:

Not approved-Returned for modification

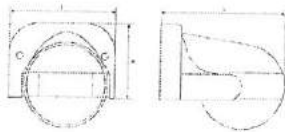
Signature:

Date:

COMMEMNTS:

Approved Subject to installation as recommended by the Manufacturer. 3 years Warranty Certificate to be provided.  
SR





**INFRARED MOTION SENSOR ST09**



Type	Detection range	Rated load	Detection distance	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					Length	Width	Height		
ST09	180°	ESL - 300W IL - 1200W	max.12m	white	86,4	100	60,4	<b>99DS105</b>	50
ST09	180°	ESL - 300W IL - 1200W	max.12m	black	86,4	100	60,4	<b>99DS106</b>	50



**Time-Delay:** 10sec ± 3sec to 7min ± 2min (adjustable)  
**Ambient light:** <3 - 2000lux (adjustable)  
**Detection motion speed:** 0.6 - 1.5m/s  
**Installation height:** 2.2 - 4m IP44

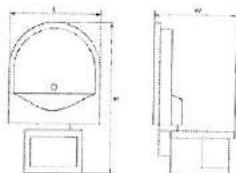
**INFRARED MOTION SENSOR ST10A**



Type	Detection range	Rated load	Detection distance	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					Length	Width	Height		
ST10A	180°	ESL - 300W IL - 1200W	5-12m	white	87,4	120	144	<b>99DS107</b>	50



**Time-Delay:** 10sec ± 3sec to 7min ± 2min (adjustable)  
**Ambient light:** <3 - 2000lux (adjustable)  
**Detection motion speed:** 0.6 - 1.5m/s  
**Installation height:** 2.2 - 4m IP44



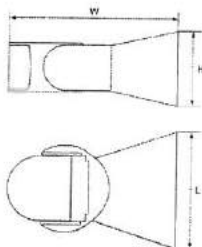
**INFRARED MOTION SENSOR ST15**



Type	Detection range	Rated load	Detection distance	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					Length	Width	Height		
ST15	180°	ESL - 300W IL - 1200W	max.12m	white	80	117,2	31,5	<b>99DS108</b>	50



**Time-Delay:** 10sec ± 3sec to 7min ± 2min (adjustable)  
**Ambient light:** <3 - 2000lux (adjustable)  
**Detection motion speed:** 0.6 - 1.5m/s  
**Installation height:** 2.2 - 4m IP65



CLIENT: DUBAI ELECTRICITY AND WATER AUTHORITY

HASHEMI & RAHIMI CONT.CO. LLC.  
PO BOX 30143, DUBAI

**DRAWING APPROVAL FORM**

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**

**PO Number:3761400029**

TYPE OF WORK

CIVIL

F/FIGHTING

AIR CONDITIONING

PLUMBING

ELECTRICAL

SUBMITTAL NO: W1

FROM : HASHEMI & RAHIMI CONT. CO. LLC.

DATE:11/07/2015

TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : Exhaust fan  
Material proposed : KDK, 12' - MODEL NO-30GSC  
Supplier : Prakash trading  
Origin : Japan  
Manufacturer : KDK

Submitted by (contractor)  date 11/07/2015

Received by \_\_\_\_\_ date \_\_\_\_\_

Signature

Signature



DEWA:

Approved

Approved with comments:

Not approved-Returned for modification

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

Signature:

Date:

COMMEMNTS:

*Fans shall be provided with Gravity Operated Shutters.*





Rsk/BS

CLIENT: DUBAI ELECTRICITY AND WATER AUTHORITY  
HASHEMI & RAHIMI CONT.CO. LLC.  
PO BOX 30143, DUBAI

**APPROVAL FORM**


**Project:**  
**Extension and modification of Faqaa 33KV substation at Al Faqaa, Dubai**  
**PO Number:3761400006**

TYPE OF WORK  
CIVIL  F/FIGHTING  AIR CONDITIONING   
PLUMBING  ELECTRICAL

SUBMITTAL NO: E5  
FROM : HASHEMI & RAHIMI CONT. CO. LLC. DATE:17/01/2015  
TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We Request you approval for incorporation of the material in the works.

Description : Exhaust fan  
Material proposed : KDK, 12'  
Supplier : Prakash trading  
Origin : Japan  
Manufacturer : KDK

Submitted by (contractor) :  date (17/1/2015)  
Received by : \_\_\_\_\_ date \_\_\_\_\_  
Signature : \_\_\_\_\_ Signature \_\_\_\_\_



DEWA:  
Approved   
Approved with comments:   
Not approved-Returned for modification   
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

COMMEMNTS: KDK Make, model no: 306SC is approved.  
(RA) Number of fans shall be as per approved shop drawings. Installation as per Manufacturer recommendations. Fans shall have gravity operated shutters.

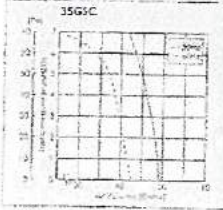
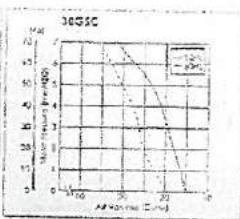
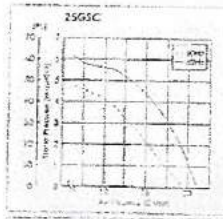
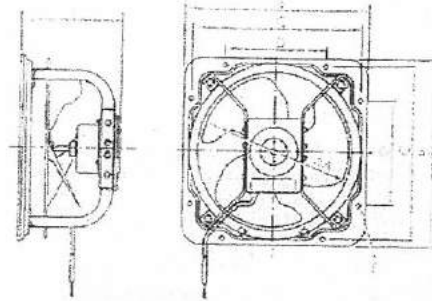
2nos



## 25GSC / 30GSC / 35GSC (Single Phase Reversible Type) (نوع قابل انعكاسي طور واحد)



- \* Reversible
- \* Single phase
- طراز انعكاسي
- طور احادي (1) فاز



Model No.	A	B	C	D	E	F
25GSC	250	327	298	365	371	10
30GSC	300	378	349	210	200	10
35GSC	350	467	434	250	236	12

\* Dimension (mm)

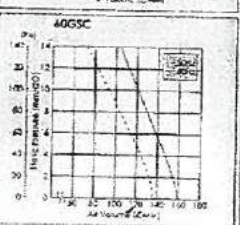
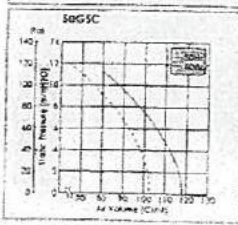
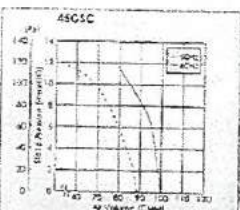
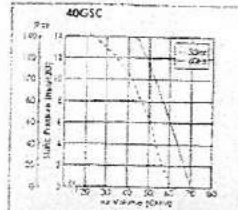
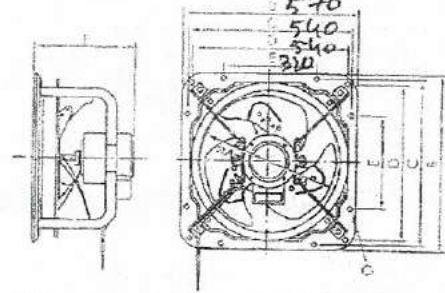
Hz	Watt	R.P.M	Air Volume CMH(CFM)	Noise dB(A)	Weight (kg)
50	39	1,360	1,150 (676)	34	3.4
60	47	1,560	1,250 (735)	39	
50	59	1,360	1,820 (1,071)	38	6.1
60	80	1,560	2,080 (1,224)	42	
50	88	1,420	2,580 (1,506)	44	10.5
60	127	1,660	2,940 (1,730)	48	

All values in the specification tables are at 220V, 50/60 Hz.

## 40GSC / 45GSC / 50GSC / 60GSC (Single Phase Reversible Type) (نوع قابل انعكاسي طور واحد)



- \* Reversible
- \* Single-phase
- طراز انعكاسي
- طور احادي (1) فاز



Model No.	A	B	C	D	E	F	G
40GSC	400	518	485	460	280	274	12
45GSC	450	570	540	-	320	297	12
50GSC	500	659	620	560	355	315	15
60GSC	620	760	720	650	400	320	15

\* Dimension (mm)

Hz	Watt	R.P.M	Air Volume CMH (CFM)	Noise dB(A)	Weight (kg)
0	121	1,250	1,210 (717)	47	19.0
50	210	1,410	1,400 (805)	51	
50	227	1,410	5,200 (3,060)	51	19.0
60	325	1,630	5,970 (3,513)	54	
50	249	960	6,130 (3,608)	47	22.5
60	326	1,150	7,100 (4,179)	51	
50	245	970	8,040 (4,732)	50	34.0
60	361	1,150	9,410 (5,538)	54	

All values in the specification tables are at 220V, 50/60 Hz.



CLIENT: DUBAI ELECTRICITY AND WATER AUTHORITY

HASHEMI & RAHIMI CONT.CO. LLC.  
PO BOX 30143, DUBAI

**DRAWING APPROVAL FORM**

Project:

**Construction of 33KV substation at Al Lusaily, Dubai**

**PO Number:3761400029**

TYPE OF WORK

CIVIL

F/FIGHTING

AIR CONDITIONING

PLUMBING

ELECTRICAL

SUBMITTAL NO: W1

FROM : HASHEMI & RAHIMI CONT. CO. LLC.

DATE:11/07/2015

TO : DUBAI ELECTRICITY & WATER AUTHORITY

We confirm the following material conforms the requirements of specification, approved supplementary Specification and drawings approved of construction excepts as other wise stated. Material sources indicated have Been reviewed in detail and will supply the submittal items in conformity with the following and delivery on time. We

Request you approval for incorporation of the material in the works.

Description : 15 W LED down light

Material proposed : ELMARK-92DLC1527/WH

Supplier : MASONS FZCO

Submitted by (contractor) date 11/07/2015

Received by date

Signature



Signature

DEWA:

Approved

Approved with comments:

Not approved-Returned for modification

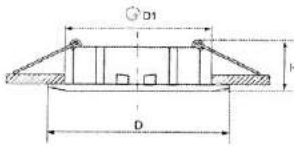
Signature:

Date:

COMMEMNTS:

Approved Subject to Providing 3 years  
Un Conditional replacement warranty.  
Ae





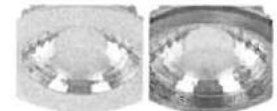
**Legend:**  
 D - Outer diameter  
 H - Height of the downlight  
 D1 - Diameter of the cut

### RDLCOB

A++ A IP 44 RoHS EMC F CE

Watt	LED chip lumens (lm)	Whole fixture lumens (lm)	Colour temp. (K)	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					D	H	D1		
10W	1100	800	4000-4300	white	128	45	113	92DLC1040/WH	30
10W	1100	800	2700-3000	white	128	45	113	92DLC1027/WH	30
10W	1100	800	4000-4300	satın nickel	128	45	113	92DLC1040/SN	30
10W	1100	800	2700-3000	satın nickel	128	45	113	92DLC1027/SN	30

**Body:** aluminium | **Diffuser:** glass | **Light source:** Epistar  
**Power factor:**  $\lambda > 0.9$  | **Starting time:**  $< 0.5s$  | LED recessed round downlight COB. Easy installation due to handy clips.



white satin nickel



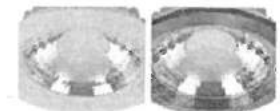
**5 YEAR WARRANTY**

### RDLCOB

A++ A IP 44 RoHS EMC F CE

Watt	LED chip lumens (lm)	Whole fixture lumens (lm)	Colour temp. (K)	Colour body	Size (mm)			Catalogue number	Packing (pcs)
					D	H	D1		
15W	1650	1200	4000-4300	white	165	50	150	92DLC1540/WH	30
15W	1650	1200	2700-3000	white	165	50	150	92DLC1527/WH	30
15W	1650	1200	4000-4300	satın nickel	165	50	150	92DLC1540/SN	30
15W	1650	1200	2700-3000	satın nickel	165	50	150	92DLC1527/SN	30

**Body:** aluminium | **Diffuser:** glass | **Light source:** Epistar  
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white satin nickel



**5 YEAR WARRANTY**

