

SAUDI
MADE



صناعة
سعودية

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



شركة مصنع جاما للصناعات المعدنية GAMMA FACTORY FOR METAL INDS.

MORE THAN **15** YEARS IN MANUFACTURING OF :

- Cabinets & Accessories
- IP... Outdoor Enclosures
- NEMA x Stainless Steel Enclosures
- Power Distribution Unit (PDU)



GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC) SINGLE DOOR



GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC)

◆ Standard Dimensions :

U-Height : 21U - 27U - 36U - 42U

Width : 700/800 mm

Depth : 800/1000 mm

◆ Standard Colour :

RAL 7035
Light Gray



Other colours available
on request



◆ Complying with International Standards:

- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP66 Protected
- MADE IN KSA



GAMMA NEW GENERATION SECURITY OUTDOOR CABINET – IP66 PROTECTION WITH AC

➤ Gamma Outdoor Features :

1- Security Cabinet: GAMMA Security Cabinets enable protecting your valuable and sensitive equipment's with its unique design. It is well protected against rain, snow, wind, sun radiation With its perfect resistance against to corrosion, protects your technological investments against environmental effects. Overall, between the inner and outer skin there is Aluminium foil to prevent skin heat to go inside cabinet

2- Cabinet Structure: Structure made from Galvanized steel material, with high corrosion resistance and polyester outdoor electrostatic Powder Coated painting through fully Automated 6 stages pretreatment Powder coating line with Robotic spraying Guns

3- Air Condition Unit : Standard High Cooling Capacity Unit **9000 BTU (2600 W)** with AC housing for IP rated **Special for Saudi Arabia and GCC Countries Summer Hot environments** The cabinet has a replaceable 2 filter housing and 2 Fans with Canopy, allowing fresh air entry to the cabinet. The left side of the cabinet is equipped with 1 or 2 fan with filters. The Single cycle fan system allows fresh air entry during winter time to reduce the running of the air condition in winter time ,

4- Rain Canopy at top of the cabinet for double protection from rain

5- Painting: Outdoor style polyester paint through fully Automated 6 stages pretreatment Powder coating line with Robotic spraying Guns applied to resist environmental corrosive effects. It also resists to sun radiation. Standard applied colour is RAL7035 Light Grey.

6- Front Door Structure and Lock System: Hidden 3 hinge, fixed on door and With the standard 3 Points locking system handle and gasket, the front and back door provides maximum safety and sealing when the door is closed.. It has a sealing gasket structure, provides excellent IP protection even cold / hot weather condition.

7- Mounting Plate : Pair of 19" Mounting Pillars are provided according to cabinet design

8- Isolated Skin Structure: Isolated double Skin protects the equipment's inside cabinet from external effects, and harsh environmental conditions.

9- Base Plinth : 50 mm base plinth for easy cable inlet from bottom

10- Cable Inlet : Cut out at back base with removable cover for cable inlet

Air Condition Unit Details :

Standard AC Cabinet equipped with High Cooling Capacity Unit **9000 BTU (2600 W)** **Special for Saudi Arabia and GCC Countries Summer Hot environments** with below details:

- **Cooling Capacity Standard:** 9000 BTU (2600 W) / **Option 12,000 BTU (3500 W)**
- **Max Input Power:** 900 W for (9000 BTU) 1100 W for (12,000 BTU)
- **Max. Current:** 4.6 Amps to 6.0 Amps
- **Noise Level:** 53 DbA
- **Weight:** 24 kg
- **Voltage / Frequency:** 220-240 V / 60Hz
- **Refrigeration Charge:** R410A / 0.55 KG
- **Airflow Volume:** 330 cum/hr



GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC)

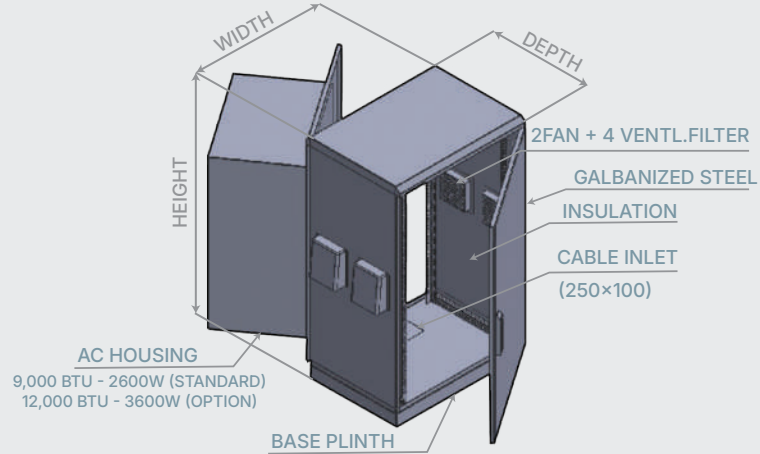
Part Number	Standard Description (W X H X D) mm	Cooling Capacity BTU (W)
GMC-OD-21U-78-AC	21U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 700X800 IP 66 with 2 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 50 mm , Front door With Casket & 3 point Handle Lock , Back Door with AC unit , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-27U-88-AC	27U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 800X800 IP 66 with 2 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 50 mm , Front door With Casket & 3 point Handle Lock , Back Door with AC unit , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-36U-88-AC	36U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 800X800 IP 66 with 2 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 50 mm , Front door With Casket & 3 point Handle Lock , Back Door with AC unit , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-42U-88-AC	42U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 800X800 IP 66 with 2 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 50 mm , Front door With Casket & 3 point Handle Lock , Back Door with AC unit , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-42U-810-AC	42U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 800X1000 IP 66 with 2 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 50 mm , Front door With Casket & 3 point Handle Lock , Back Door with AC unit , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)

OTHER SIZES AVAILABLE ON REQUEST

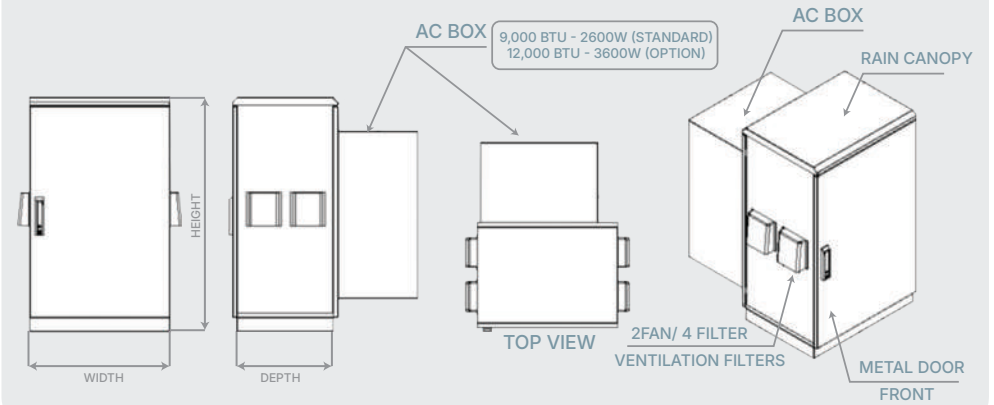


GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC)

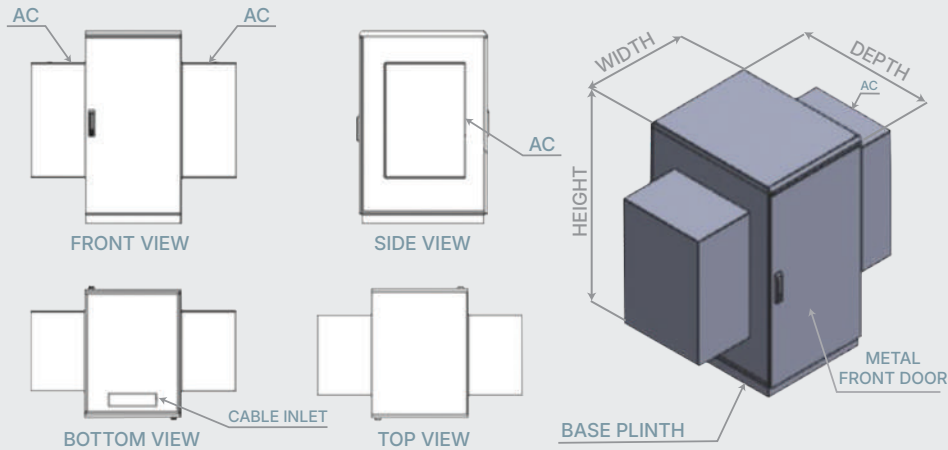
GAMMA OUTDOOR CABINET ASSEMBLY



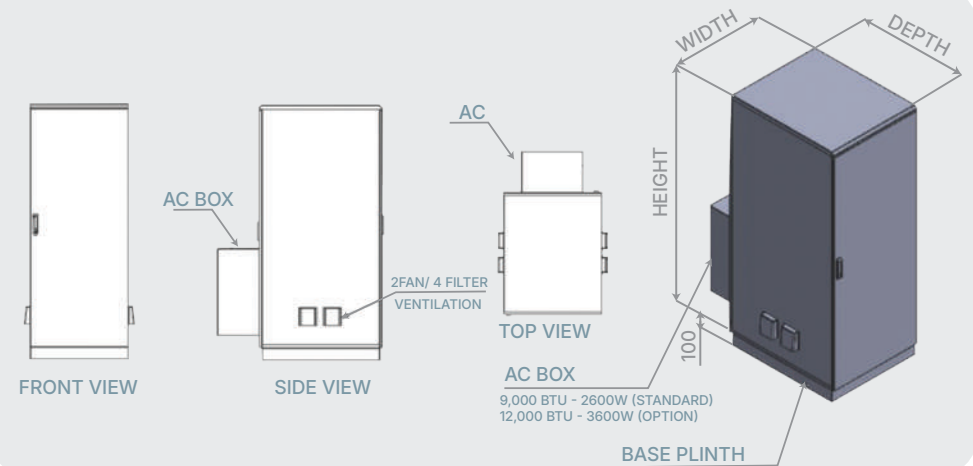
GAMMA OUTDOOR CABINET WITH AC



GAMMA OUTDOOR AV CABINET



GAMMA OUTDOOR AC CABINET - IP66



**GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC)
DOUBLE FRONT AND BACK DOORS**





GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (AC) DOUBLE FRONT AND BACK DOORS

◆ Standard Dimensions :

U-Height : 21U /27U

Width : 1300 mm

Depth : 800 mm

◆ Standard Colour :

RAL 7035
Light Gray



Other colours available
on request



◆ Complying with International Standards:

- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP66 Protected
- MADE IN KSA

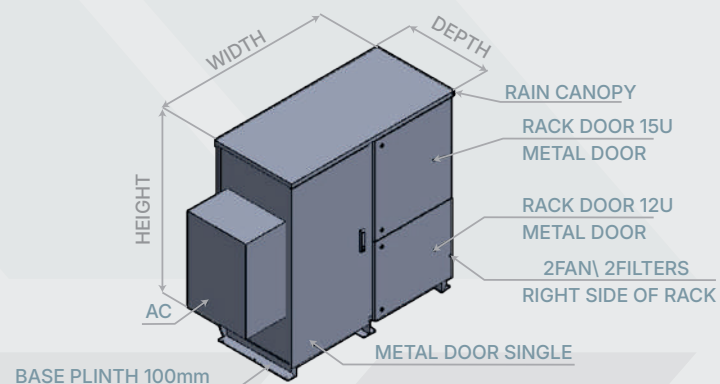


GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (1 Unit AC) DOUBLE FRONT AND BACK DOORS

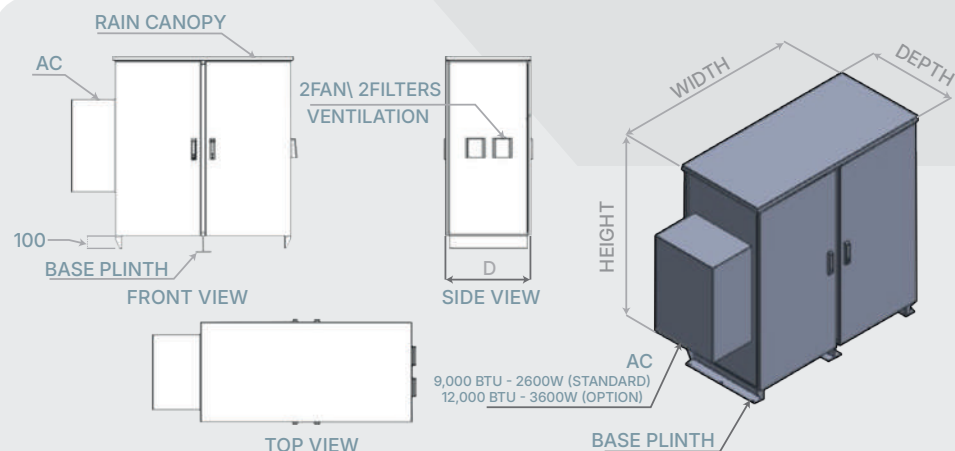
Part Number	Standard Description (W X H X D) mm	Cooling Capacity BTU (W)
GMC-OD-21U-138-1xAC	21U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 21U - 1300 (W)X 800 (D) IP 66 with 4 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 100 mm , Front & Back Double door With Casket & 3-point Handle Lock , Back Door with 1 x AC unit at side , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-27U-138-1xAC	27U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 27U - 1300 (W)X 800 (D) IP 66 with 4 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 100 mm , Front & Back Double door With Casket & 3-point Handle Lock , Back Door with 1 x AC unit at side , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)

OTHER SIZES AVAILABLE ON REQUEST

GAMMA OUTDOOR METAL ENCLOSURES CABINETS



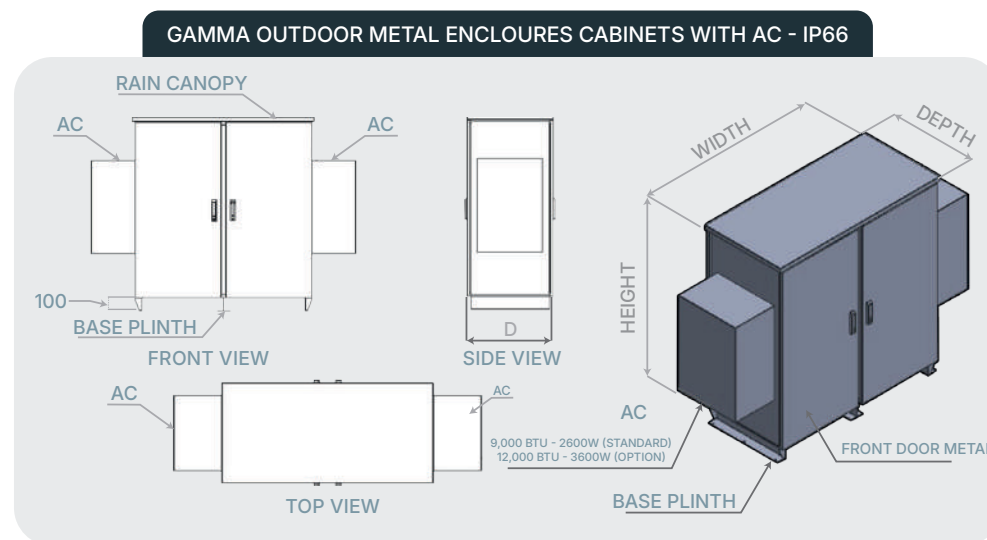
GAMMA OUTDOOR METAL ENCLOSURES CABINETS WITH AC - IP66



GAMMA 19" OUTDOOR IP66 CABINETS WITH AIRCONDITION (2 Unit AC) DOUBLE FRONT AND BACK DOORS

Part Number	Standard Description (W X H X D) mm	Cooling Capacity BTU (W)
GMC-OD-21U-138-2xAC	21U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 21U - 1300 (W)X 800 (D) IP 66 with 4 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 100 mm , Front & Back Double door With Casket & 3-point Handle Lock , Back Door with 2 x AC unit at side , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)
GMC-OD-27U-138-2xAC	27U Outdoor Floor Stand Laser Welded Structure Galvanized Steel Outdoor Cabinet size 27U - 1300 (W)X 800 (D) IP 66 with 4 pair of 19 inch Pillars Double Skin with Insulation , 2 Fan , Base Plinth 100 mm , Front & Back Double door With Casket & 3-point Handle Lock , Back Door with 2 x AC unit at side , Colour Gray RAL 7035 , Saudi Made	9000 BTU (2600 W) Option 12000 BTU (3500 W)

OTHER SIZES AVAILABLE ON REQUEST



GAMMA CABINETS MANUFACTURED ACCORDING EIA-310 E , ETSI SPECIFICATIONS

Gamma Data Cabinets Fit all 19" Equipments

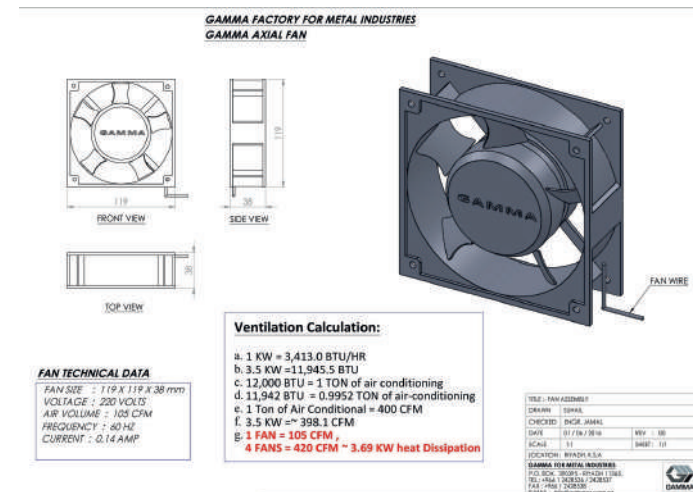
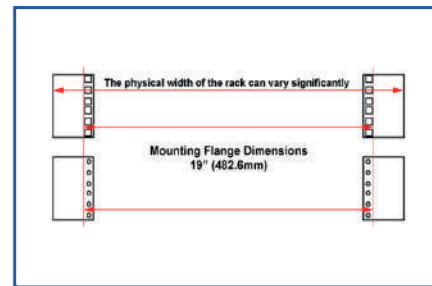
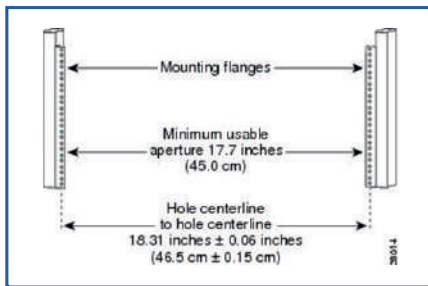
GAMMA NET AXIAL FAN DATA SHEET

GAMMA Ventilation Fan Calculation:

GAMMA Ventilation Calculation as below clarifications:

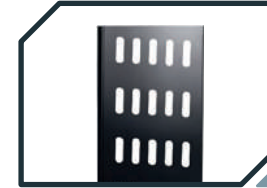
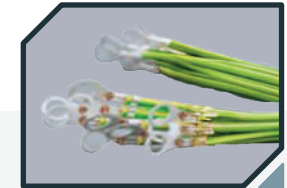
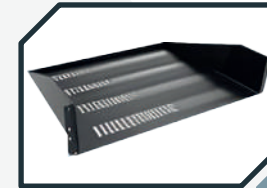
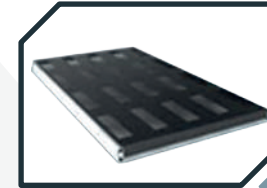
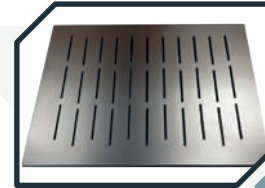
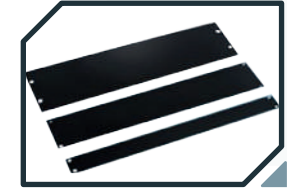
- a. 1 KW = 3,413.0 BTU/HR
- b. 3.5 KW = 11,945.5 BTU
- c. 12,000 BTU = 1 TON of air conditioning
- d. 11,942 BTU = 0.9952 TON of air-conditioning
- e. 1 Ton of Air Conditional = 400 CFM
- f. 3.5 KW = ~398.1 CFM
- g. 1 FAN = 105 CFM, 4 FANS = 420 CFM ~ 3.69 KW heat Dissipation

4 Fans will be enough for 3.5 KW heat.



GAMMA NET RACK CABINETS OPTIONS

Part Number	Description
GMC-SDP-F	Single Door Perforated Front
GMC-SDP-B	Single Door Perforated back
GMC-DDP-F	Double Door Perforated Front 800
GMC-DDP-B	Double Door Perforated Back 800
GMC-DDP-F-60	Double Door Perforated Front 600
GMC-DDP-B-60	Double Door Perforated Back 600
GMC-VCM	Vertical Cable Management for 800 W
GMC-EBB	Earthing Bus Bar – 19" rack mounted
GMC-TH-M	Thermostat for Fans -Mechanical
GMC-EK	Earthing Kit – 10 pcs/set
GMC-HCO	Horizontal Cable Organizer – 19" Mount
GMC-PS	Perforated Side Doors
GMC-GN	Gauge Nut – 20 pcs/set
GMC-FR	Fixed Shelves
GMC-SLS	Sliding Shelf
GMC-7035	Colour Light Gray RAL 7035
GMC-CT	Vertical Cable Tray (2 pcs)
GMC-BP-1U	1U Blank Panel
GMC-BP-2U	2U Blank Panel
GMC-GP	Gland Plate for base covering
GMC-PDU-6W-UK13A	PDU 6 Way UK type 13 Amps
GMC-PDU-UK-6W-16A	PDU 6 Way UK type 16 Amps
GMC-C13-C19-16A	Vertical PDU C13 X 20 , C19 X 4 , 16 A
GMC-C13-C19-32A	Vertical PDU C13 X 20 , C19 X 4 , 32 A



SOME OF CONSULTANTS AND MINISTRIES REFERENCE LIST



هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority



CERTIFICATES



REFERENCE LIST

PROJECT	المشروع	PROJECT	المشروع	PROJECT	المشروع	PROJECT	المشروع
The red sea development company	تطوير البحر الأحمر	General Directorate of investigation	المديرية العامة للمباحث	STC WI FI 3G Offloading Project - KASC Jeddah	مدينة الملك عبدالله الرياضية	Schools Infrastructure Development - wave 2	شركة تطوير للمباني TBC
King Abdullah security project KAP1	مركز الملك عبدالله للمقرات الأمنية	The Saudi Central Bank (SAMA)	البنك المركزي السعودي	Ministry of Health - MOH West - MOH ESTERN	وزارة الصحة - المراكز الطبية	Rotana Hotel	فندق روتانا
King Abdullah security project KAP2	مركز الملك عبدالله للمقرات الأمنية	NEOM Hospital	مستشفى نيوم	DIGITAL TRUNKED RADIO SYSTEM WOA	الهيئة السعودية للكهرباء	Plazza in Hotel	فندق بلازا ان
King Abdullah security project KAP2-B	مركز الملك عبدالله للمقرات الأمنية	New Boulevards	البوليفر - الهيئة العامة للترفيه	Qasem Hospital	مستشفى القصيم	Half Moon Beach Hotel	فندق هاف مون بيتش
King Abdullah security project KAP2-C	مركز الملك عبدالله للمقرات الأمنية	Winter Land	ونتر لاند - الهيئة العامة للترفيه	MOH - PHC	وزارة الصحة - الرعاية الصحية الأولى	Hyat Regency Hotel	فندق حياة ريجنسي
King Abdullah security project KAP4	مركز الملك عبدالله للمقرات الأمنية	City Walk Jeddah	سيني ووك جدة - الهيئة العامة للترفيه	Qasem University Hospital	مستشفى جامعة القصيم	Hilton Garden in Hotel	هيلتون جاردن
Royal Commission for Riyadh City (RCRC)	الهيئة الملكية لمدينة الرياض	Nuclear and Radiological Regulatory	هيئة الوقاية النووية والإشعاعية	Riyadh Metro	مترو الرياض	Park Inn - Jeddah	فندق بارك ان - جدة
Security Force Medical Center (SFMC)	المركز الطبي لقوات الأمن	ARAR AIRPORT	مطار عرعر	General Commission for Survey - Phase 3 & 2	الهيئة العامة للمساحة	Park Inn hotel - JRIYADH	فندق بارك ان - الرياض
200 BED HOSPITAL - TABUK	مستشفى ٢٠٠ سرير - تبوك	VSAT BACKUP HUB FOR SCECO	الهيئة السعودية للكهرباء	General Directorate for Health Affairs	المديرية العامة للشؤون الصحية	Narsis Buder Hotel	فندق ناريسيس بوديل
Hajj Command and HOLLY CAPITAL PROJECT	مشروع قيادة الحج	National Water Commission (NWC)	الهيئة الوطنية للمياه (NWC)	MOI CCTV Project	مشروع كاميرات المراقبة لوزارة الداخلية	Makan Hotel	فندق مكان
King Salman Hospital	مستشفى الملك سلمان	World Trade Center - WTC	مركز الملك عبدالله المالي	E - learning Project - Tatweer - School Project	مشروع التعليم الإلكتروني	MUNICIPALITY OF MEDINA	بلدية المدينة المنورة
Marriott Executive Apartment	فندق شقق الماريوت التنفيذية	ISLAMIC University	الجامعة الإسلامية	Royal Saudi Navy Force - RSNF	القوة البحرية الملكية السعودية	Tabuk Emirate	إمارة تبوك
South Border Guards Housing	إسكان الحدود الجنوبية	Samsung C&T	سامسونج - رابغ	Saudi Electronic University	الجامعة السعودية الإلكترونية	MUNICIPALITY OF TAIF	بلدية الطائف
AL SALAM PALACE	قصر السلام	AL ULA University	جامعة العلا - جامعة طبية	Royal Saudi Air Force - RSAF	القوات الجوية الملكية السعودية	Eastern Province Emirate	إمارة المنطقة الشرقية
King Abdulla Finance District - KAFC	مركز الملك عبدالله المالي	Imam Moh'd University	جامعة الإمام محمد	Strategic Missile Force - SMF	قوة الصواريخ الاستراتيجية	Security Development and Planning Agency	وكالة التطوير والتخطيط الأمني
Jeddah Islamic Port	ميناء جدة الإسلامي	Prince Satam University	جامعة الأمير سطام	SAIC - RSAF PROJECT - USA	مشروع القوات الجوية الملكية - الولايات المتحدة الأمريكية	Royal Private Affairs	قصور ملكية
Ministry of Municipal and Rural Affairs	وزارة الشؤون البلدية والقروية	Al - Jouf University	جامعة الجوف	King Abdul Aziz Center National Dialogue	مركز الملك عبد العزيز للحوار الوطني	VSAT -COGS	في سات
Building of Secretary of the GCC	مبنى الأمين العام لمجلس التعاون	Hafar Al-Batin University	جامعة حفر الباطن	National Center for Technology Electrical Energy Systems	المركز الوطني لتكنولوجيا أنظمة الطاقة الكهربائية	Technical and Vocational Training Corporation	المؤسسة العامة للتدريب التقني والمهني
Radusson Blue Hotel	فندق راديسون بلو	Taima & Hakel University	جامعة تيماء وحقل	Qassim Emirates	إمارة القصيم	MIFON Project Phase 3	المرحلة 3 MIFON مشروع
National Water Commission (NWC)	الهيئة الوطنية للمياه (NWC)	Hakel University	جامعة حائل	SOIETZ Saudi Organization for Industry	الهيئة السعودية للمدن الصناعية	King Abdullah University Hospital	مستشفى جامعة الملك عبد الله بن عبد العزيز





شركة مصنع جاما للصناعات المعدنية
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