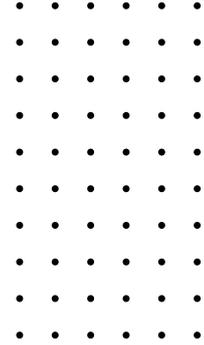




KAYAN SAFETY COMPANY



CONTACT US



+966580534444



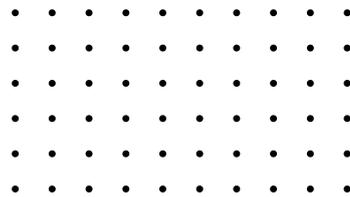
info@kayancomp.com



www.kayancomp.com



**Medina, Saudi Arabia
Al-Ehan District - Al-Hizam Road -
Hakeem Center**



ABOUT US

We specialize in certified fire and smoke curtain systems services for domestic, commercial and industrial use. We are proud to be one of the best national companies in the field of fire and smoke curtains with our clients ranging from high-level international organizations across multiple sectors to industry and local clients in the Kingdom of Saudi Arabia All our products are made to the highest quality, and we constantly work to achieve the highest possible standards with our systems complying with British and European regulations and standards.

من نحن

نحن متخصصون في خدمات أنظمة ستائر الحريق والدخان المعتمدة للاستخدام المنزلي والتجاري والصناعي .
نفخر بكوننا واحدة من أفضل الشركات الوطنية في مجال ستائر الحريق والدخان مع عملائنا بدءاً من المنظمات الدولية رفيعة المستوى عبر قطاعات متعددة إلى الصناعة والعملاء المحليين في المملكة العربية السعودية جميع منتجاتنا مصنوعة بأعلى مستويات الجودة ، ونحن نعمل باستمرار لتحقيق أعلى المعايير الممكنة مع امتثال أنظمتنا الانظمة والمعايير الامريكية والأوروبية.



KAYAN

شركة كيان للسلامة

Our Mission

is to ensure our clients receive the product manufactured to the highest quality, with reliable certifications and standards.

We are concerned about the safety of end users, which makes us responsible for committing in manufacturing life safety systems of world-class standards

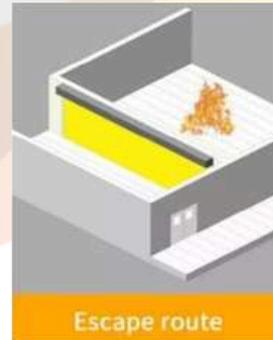
مهمتنا

هي ضمان حصول عملائنا على المنتج المصنَّع بأعلى مستويات الجودة، مع شهادات ومعايير موثوقة. نحن مهتمون بسلامة المستخدمين النهائيين، مما يجعلنا مسؤولين عن الالتزام في تصنيع أنظمة السلامة بمعايير عالمية.

APPLICATIONS

1- VOID EDGE SEPARATION

Escalators and stairs create gaps between floors. These gaps are critical points that need to be sealed off in the event of a fire to stop the spread of fire and smoke from lower to upper levels. By deploying on the upper level, fire curtains create a physical barrier against fire.



Escape route



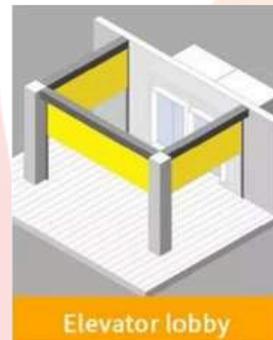
Elevator door

2- SMOKE RESERVOIRS

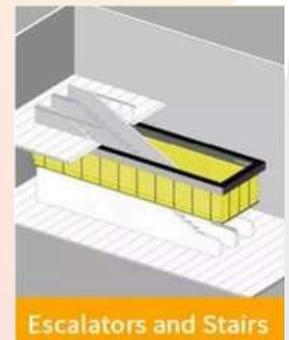
Escalators and stairs create gaps between floor compartments that need to be sealed off in the event of a fire to stop the spread of fire from lower to upper levels.

3- LIFT LOBBY & ELEVATOR SEPARATION

Elevator shafts are easy conduits for the spread of fire and smoke which can engulf an entire building in minutes. Elevator doors might be fire rated but cannot create a seal against the passage of smoke. Fire curtains with a smoke seal replace smoke stop lobbies in front of the elevator doors. While virtually invisible when retracted above the elevator frame, they create a seal that greatly reduces smoke leakage through elevator shafts and elevator doors



Elevator lobby



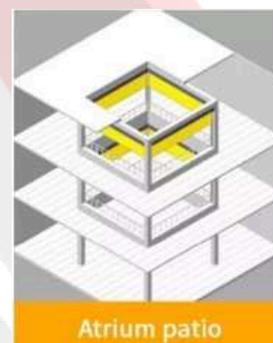
Escalators and Stairs

4- FIRE COMPARTMENTALIZATION

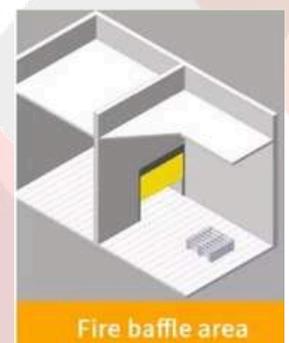
To prevent spread of fire from one zone to another, fire curtains are a vital element of a fire compartmentalization strategy. On deployment, they create a physical barrier against the spread of fire and control the spread of fire through a building.

5- FIRE & SMOKE STRATEGY KAYAN

Automatic Fire and Smoke Curtains are indispensable to a successful building fire strategy. Atria create large open spaces that can be quickly engulfed in fire and smoke as it spreads from lower to upper levels. Spread of fire can be limited by fire curtains and smoke curtains can channel smoke to chimneys or extraction fans



Atrium patio



Fire baffle area



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KAYAN fire & smoke curtain make up of fiberglass fabric inside stainless steel wire, with double-sided silicone coating material. Smoke curtain can be applied in escape route, elevator door, elevator lobby, escalators and stairs, Atrium Chimney ,etc.

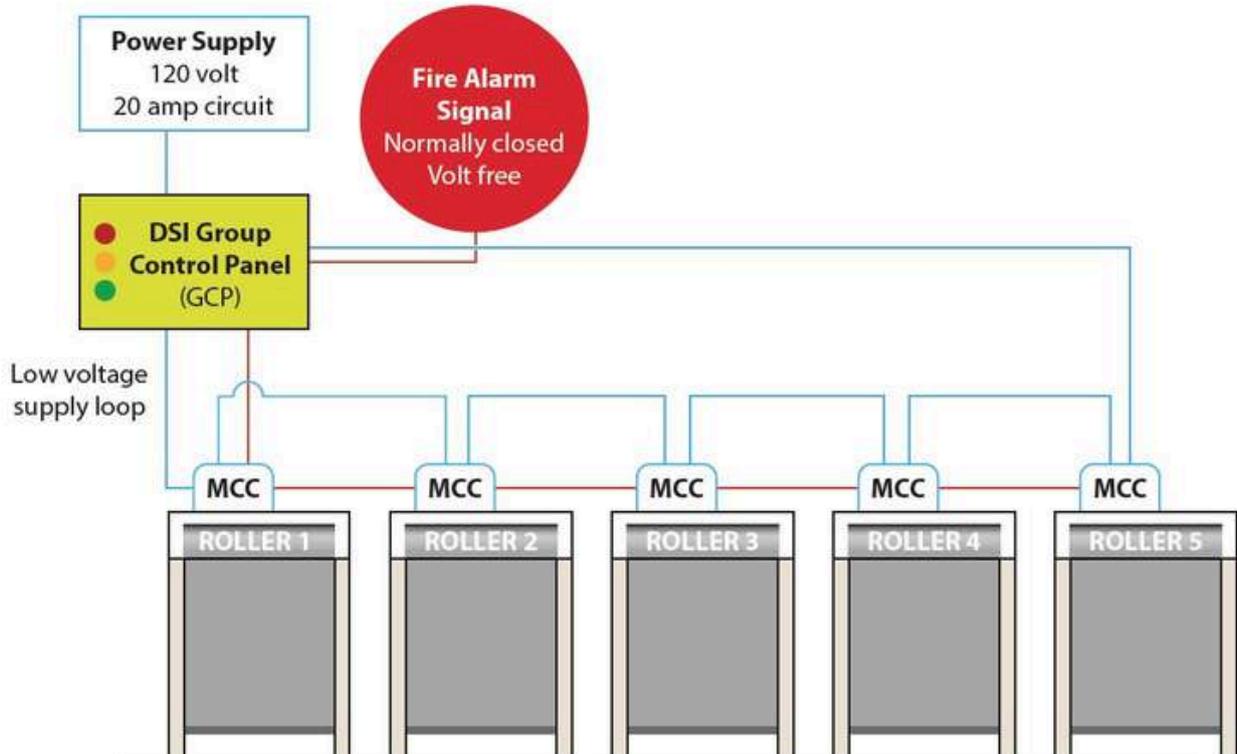


KAYAN CONTROL SYSTEM

The KAYAN Tubular Motor is a permanent magnet DC electrical motor. When the curtains are retracted, the KAYAN Motor Controller (KMC) routes a low voltage supply to the motor which keeps it in the retracted position. When the fire alarm signal is triggered, the low voltage supply to the KMC is removed which in turn deploys the curtains to their fire operational position under the power of gravity.

المحرك الأنبوبي كيان هو محرك كهربائي بمغناطيس دائم يعمل بالتيار المستمر .

عندما يتم سحب الستائر تقوم وحدة التحكم (KMC) كيان بتوجيه مصدر جهد منخفض إلى المحرك مما يبقيه في وضع التراجع. عندما يتم تشغيل إشارة إنذار الحريق، تتم إزالة مصدر الجهد المنخفض إلى لوحة التحكم كيان والذي بدوره ينشر الستائر إلى موقعها تحت قوة الجاذبية .



IN CASE OF FIRE ALARM

The KAYAN Group Controller (KGC) is powered by a 230v AC power supply. A pair of normally-closed, volt-free fire alarm contacts supplies the fire alarm signal when commanded by the Building Management System. In its stored position within the headbox, the curtains remains retracted and held in place by a low voltage supply (24v DC) to the curtain motors. Upon receipt of a fire alarm signal, the supply to the motor controller is removed , which releases the curtains. Using Kent's Guaranteed Gravity Fail Safe System, the curtains deploy to the operational position at a controlled rate under the force of gravity. No power source is required for curtain deployment

في حالة استلام إشارة إنذار الحريق

يتم تشغيل وحدة التحكم كيان بمصدر طاقة تيار متردد 220 فولت.

في حالة انقطاع التيار الكهربائي، يتم تزويد كل مجموعة تحكم بنظام احتياطي بطارية يوفر ما يصل الي 60 دقيقة من الطاقة لمحركات الستائر. عند إستنفاد البطارية الاحتياطية ، ستنزل الستارة بأمان تحت الجاذبية.



CURTAIN FBRICS

An important component of a fire and smoke curtain system is the fabric.

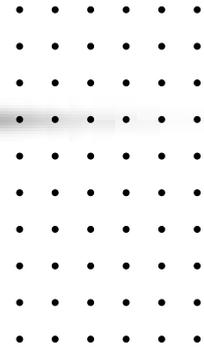
The fabric is designed to withstand heat, smoke, fire, including high temperatures.

The finished product is sewn with stainless steel thread at hem and seam locations formulated light weight fiberglass fabric, coated with aluminum pigmented polyurethane on both sides of the fabric which creates a reflective heat shield and enhances durability and flexibility of the fabric.

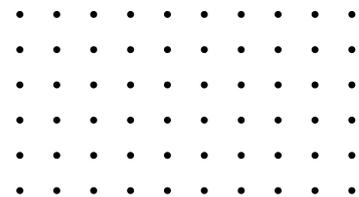
يعد القماش أحد العناصر المهمة في نظام ستائر الحريق والدخان .
تم تصميم القماش ليتحمل الحرارة والدخان والنار ، بما في ذلك درجات الحرارة المرتفعة.

تتم خياطة المنتج النهائي بخيط من الفولاذ المقاوم للصدأ في مواقع الحاشية والدرزات، وهو مصنوع من نسيج من الألياف الزجاجية خفيف الوزن، ومغطى بمادة البولي يوريثين المصبوغة بالألمنيوم على جانبي القماش مما يخلق درعاً حرارياً عاكساً ويعزز متانة ومرونة القماش





KAYAN FIRE & SMOKE CURTAIN CUTSHEET





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KAYAN AUTOMATIC FIRE CURTAIN

CUTSHEET

CURTAIN DROP	SINGLE ROLLER BOX - TYPE 1	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	190mm	210mm
3m TO 7m	210mm	230mm
7m TO 12m	280mm	300mm

CURTAIN DROP	MULTIPLE ROLLER BOX - TYPE 2	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	190mm	370mm
3m TO 7m	210mm	410mm
7m TO 12m	280mm	520mm

CURTAIN DROP	MULTIPLE ROLLER BOX - TYPE3	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	320mm	210mm
3m TO 7m	370mm	230mm
7m TO 12m	480mm	300mm

CURTAIN DROP	SINGLE ROLLER BOX - TYPE 1	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	190mm	210mm
3m TO 7m	210mm	230mm
7m TO 12m	280mm	300mm

CURTAIN DROP	MULTIPLE ROLLER BOX - TYPE 2	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	190mm	370mm
3m TO 7m	210mm	410mm
7m TO 12m	280mm	520mm

CURTAIN DROP	MULTIPLE ROLLER BOX - TYPE3	
	WIDTH(BW)	HEIGHT(BH)
UPTO 3m	320mm	210mm
3m TO 7m	370mm	230mm
7m TO 12m	480mm	300mm

KAYAN AUTOMATIC FIRE CURTAIN - EGRESS

CUTSHEET

KAYAN Egress Curtain



DESCRIPTION

KAYAN Automatic Egress Curtains provide cross corridor fire separation without inhibiting the passage of occupants evacuating the building by utilizing an egress door that allows people to pass without retracting the curtain. It is used as a secondary means of escape. KAYAN Egress curtains are used in elevator lobbies, cross corridors, staircase, and emergency exits. The curtain descends at a controlled speed upon receipt of a signal from a fire alarm using kayan's Guaranteed Gravity Fail-Safe System.

Smoke and Fire Curtain Egress Feature

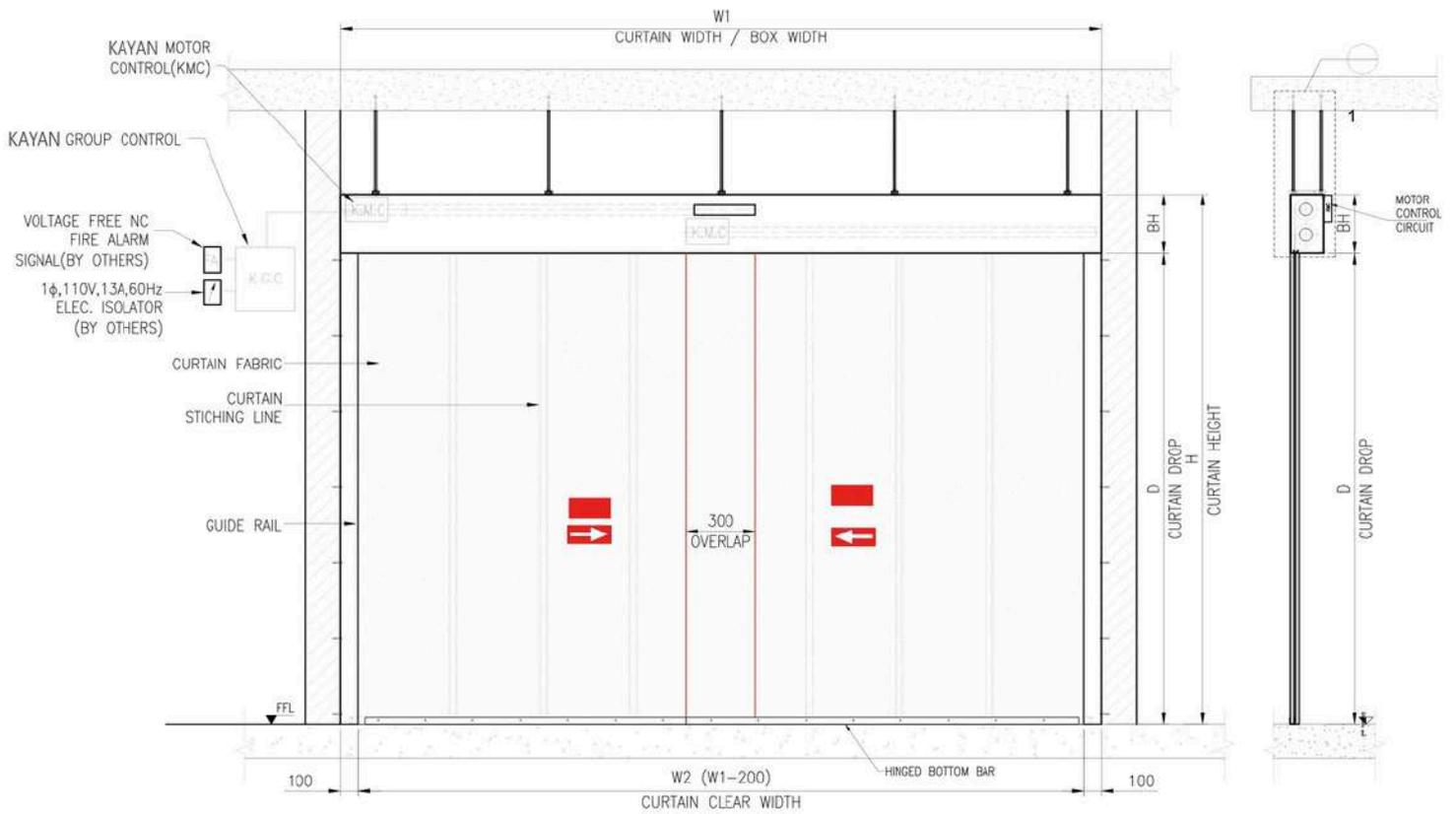




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KAYAN AUTOMATIC FIRE CURTAIN - EGRESS



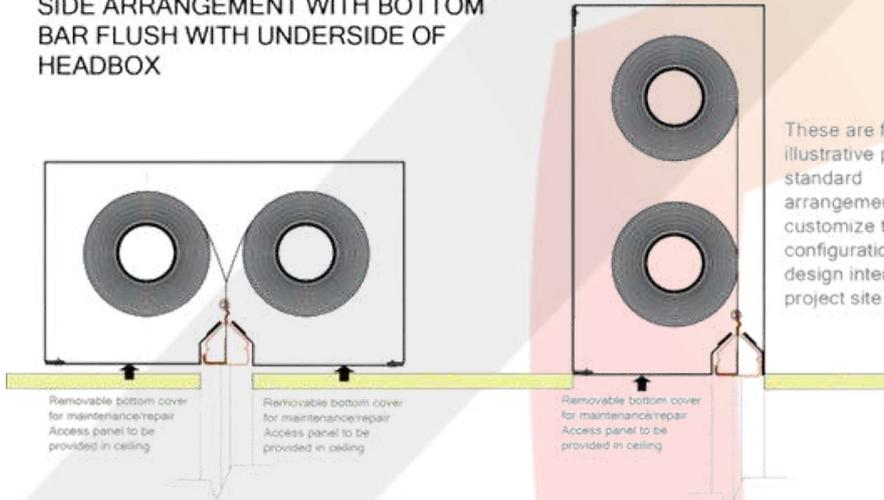


KAYAN

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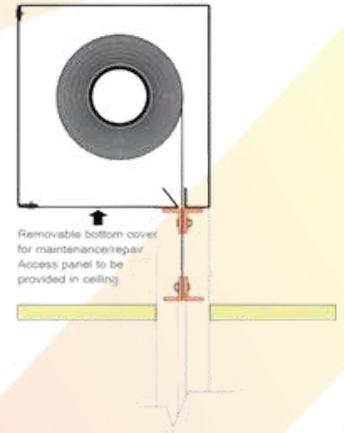
HEADBOX

**MULTIPLE ROLLER ASSEMBLIES
SHOWING OVER-UNDER AND SIDE BY
SIDE ARRANGEMENT WITH BOTTOM
BAR FLUSH WITH UNDERSIDE OF
HEADBOX**

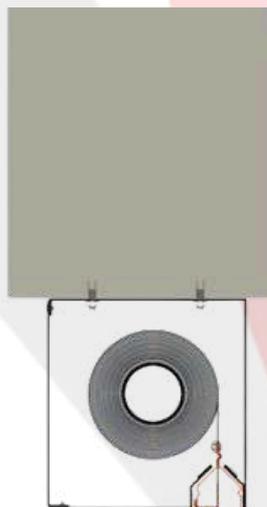


These are for illustrative purposes of standard arrangements. We can customize the configuration to suit design intent and project site conditions.

**SINGLE ROLLER ASSEMBLY WITH
ALTERNATE BOTTOM BAR
DROPPED TO CEILING**



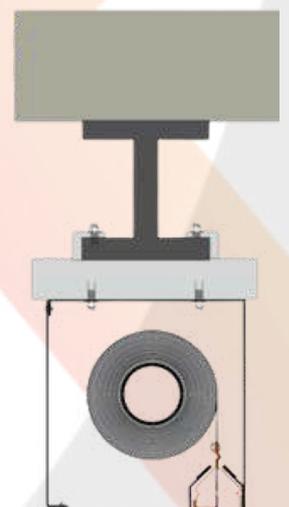
FACE FIXED
Fixed directly to the lintel above an opening.



SOFFIT FIXED
Fixed directly to the underside of the soffit slab.



SOFFIT SUSPENDED
Suspended from soffit via unistruts and drop rods



I-BEAM
Clamped to a steel beam



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SINGLE ROLLER ASSEMBLY



1. HEADBOX

The steel headbox houses the roller, fabric and motor within the casing creating a small compact package that remains virtually invisible above the ceiling.

2. ROLLER AND TUBULAR MOTOR

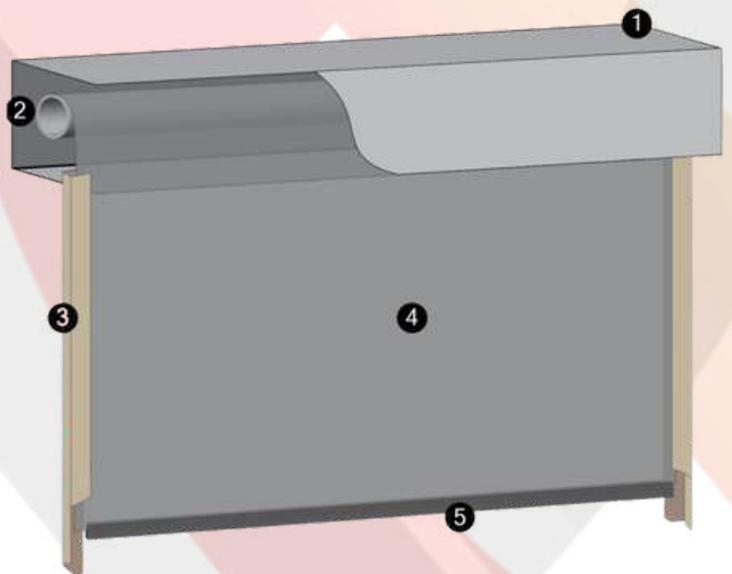
A tubular motor drives a steel roller tube to retract and deploy the fabric from normal position in the headbox to its operational position.

3. GUIDE RAIL

During deployment, slim steel side guides prevent derailment of the fabric during operation ensuring integrity of the system when faced by positive or negative pressures of a real fire.

4. FABRIC CURTAIN

Woven fiberglass wire reinforced fabric with individual panels stitched and hemmed using stainless steel thread.



SINGLE ROLLER ASSEMBLY

Smaller widths can be spanned by a single roller assembly.

MULTIPLE ROLLER ASSEMBLY



5 STEEL BOTTOM BAR

The KAYAN profile bottom bar provides weight and stability to the system ensuring a gravity fail safe deployment.

6 OVER-UNDER ROLLER ARRANGEMENT

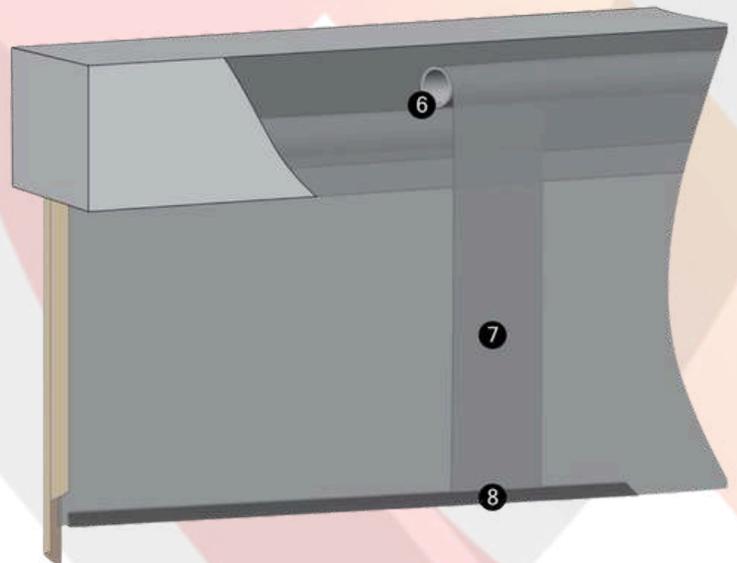
An over-under or side by side arrangement of the barrels (to suit the project requirements) allows multiple rollers to be enclosed in a single compact headbox.

7.FABRIC OVERLAP

Multiple rollers utilize the use of a 500mm overlap arrangement which removes the need for intermediate side guides and minimizes the potential for roller bounce.

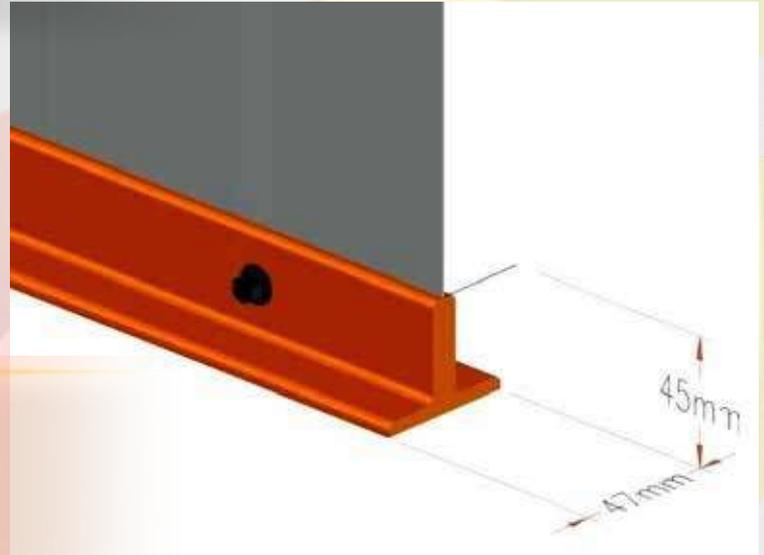
8.CONJOINED BOTTOM BAR

A conjoined bottom bar runs the entire width of the curtain.



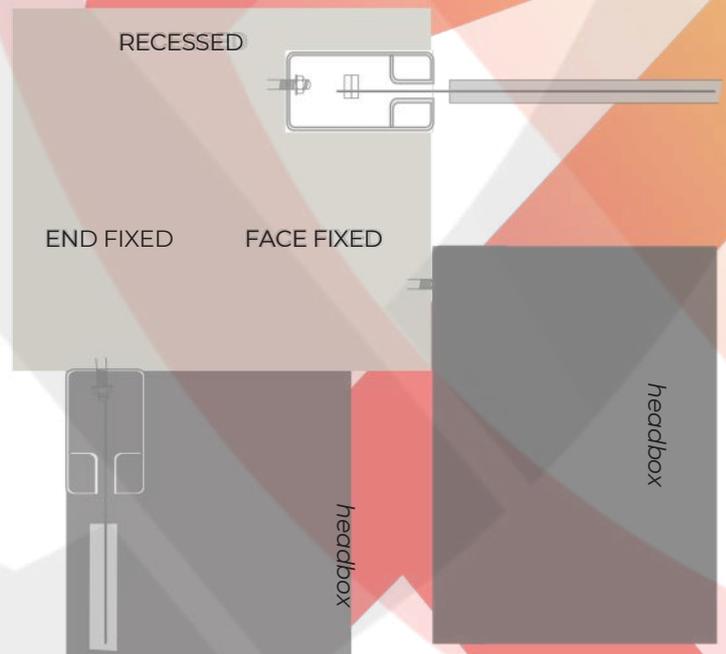
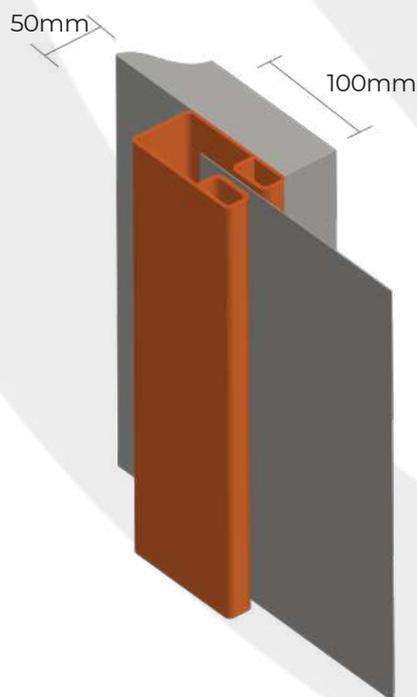
BOTTOM BAR

Our bottom bar profile is designed to provide the necessary weight to draw the curtain down during a gravity safe deployment and to stabilize the curtain during descent. Rolled from galvanized steel, we can powdercoat the bottom bar to match



SIDE GUIDES

Our fire curtain steel side guides can be powdercoated to blend in with the surround wall. In a real fire, these guides help the curtains withstand positive and negative pressures. The stitched fabric inserted into the guide rail is provided with retainer tabs for added strength. Designed to be slim and as unobtrusive as possible, the side guides can be fixed to the building structure in 3 ways illustrated above. Our side guides are provided with capped holes that allow for bolting the guides to the wall without the need for visible fixing angles, further reducing the guide footprint.

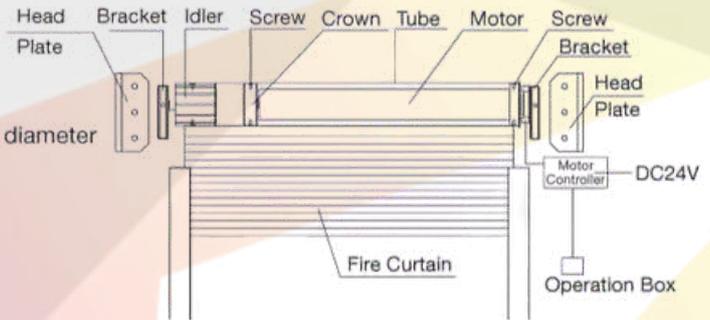


INSTRUCTION

Reading carefully before installation to avoid damaged.

I. Tech-data

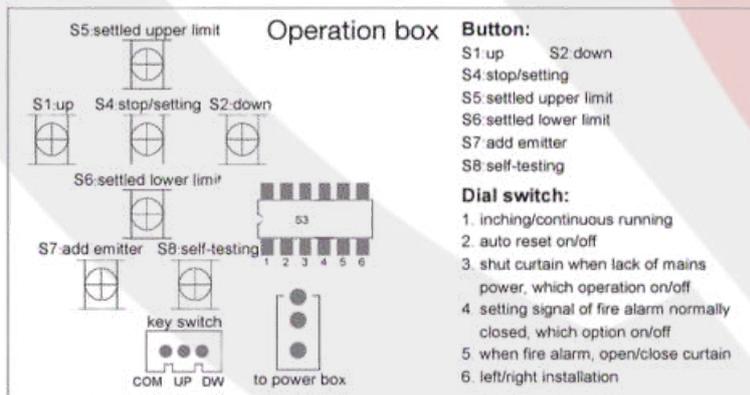
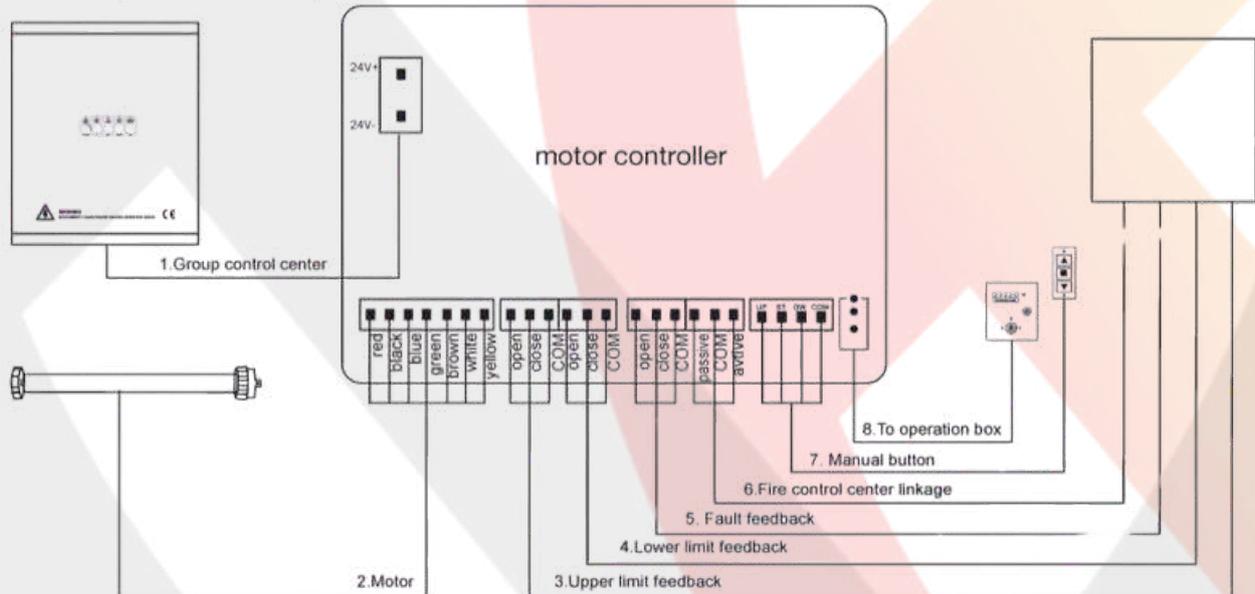
- State power: 220-240V/50Hz
- Motor voltage: DC 24V
- Motor diameter: 59mm
- Adaptive external barrel: any tube of 82.5mm inner diameter
- Current: 8A Input power: 192W
- Output power: 58W Torque: 30N.m
- Lift 15kg – 70kg with 80mm barrel
- Speed: 18rpm Level of protection: IP44
- Continuous running time S2: 10min
- Standby time of batteries back-up while suspending curtain: 2 hours

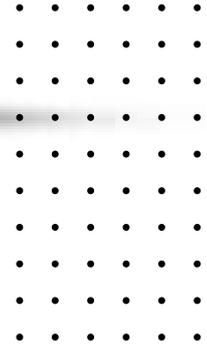


II. Wiring diagram

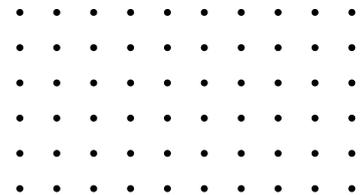
Wiring JX5 which mark "to power box" of operation box to JX12 of motor controller which means "to operation box" to complete panel connection.

According to colors wiring the cable of motor to JX4 to complete motor connection.





PROJECTS





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Maysan Rehab Al-Misk Hotel
Plot No. 3126, Central District



KAYAN

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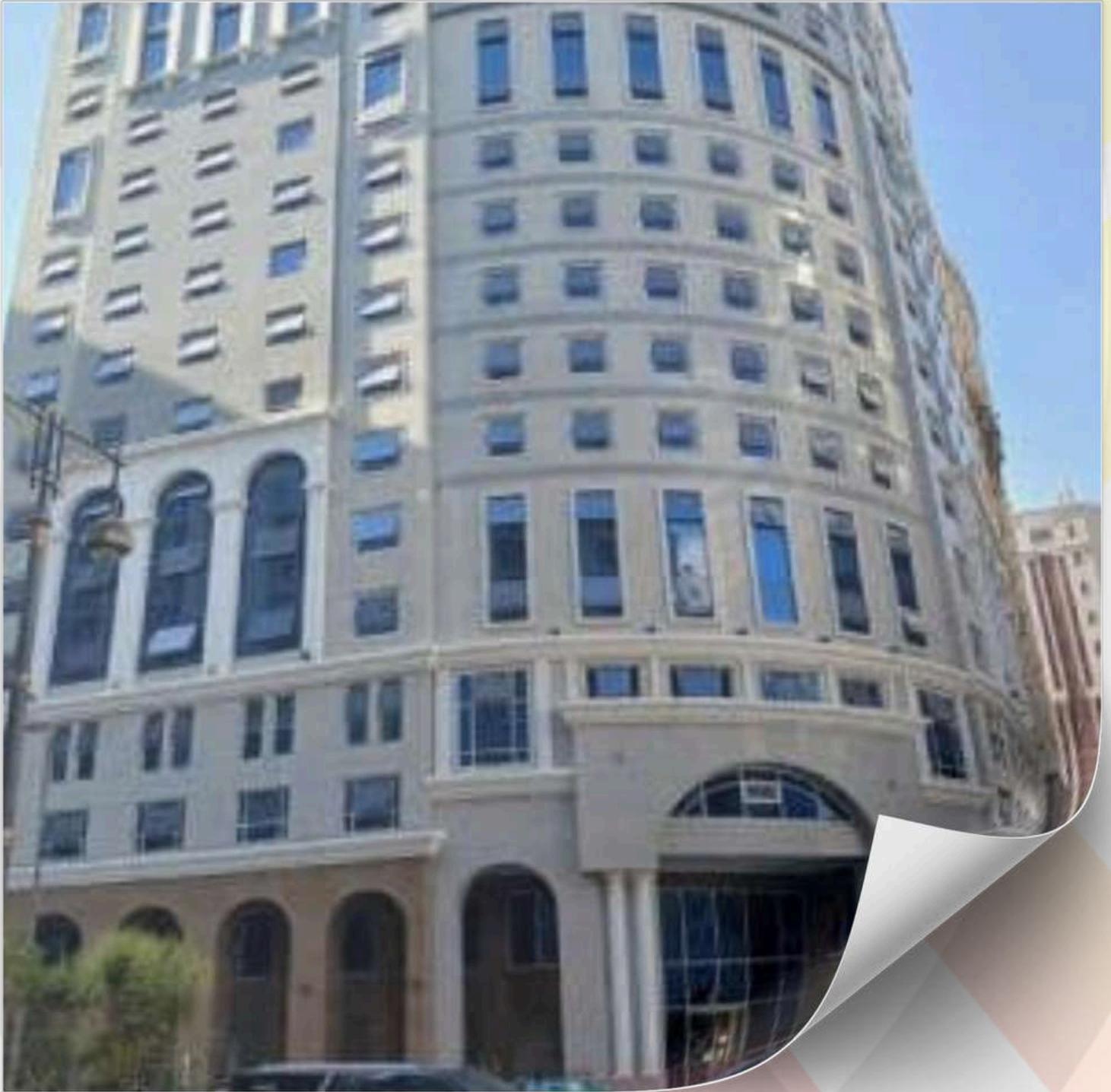


Rose Hotel
Plots 4061 and 4062, Central District



KAYAN

شركة كيان للسلامة



Future Vision Company Hotel
Plot No. 192, Central District



KAYAN

شركة كيان للسلامة



Commercial/Administrative Facility
Riyadh, Saudi Arabia



KAYAN

شركة كيان للسلامة



Valley Al Madinah Hotel
Plot No. 4060 – Central District



KAYAN

شركة كيان للسلامة

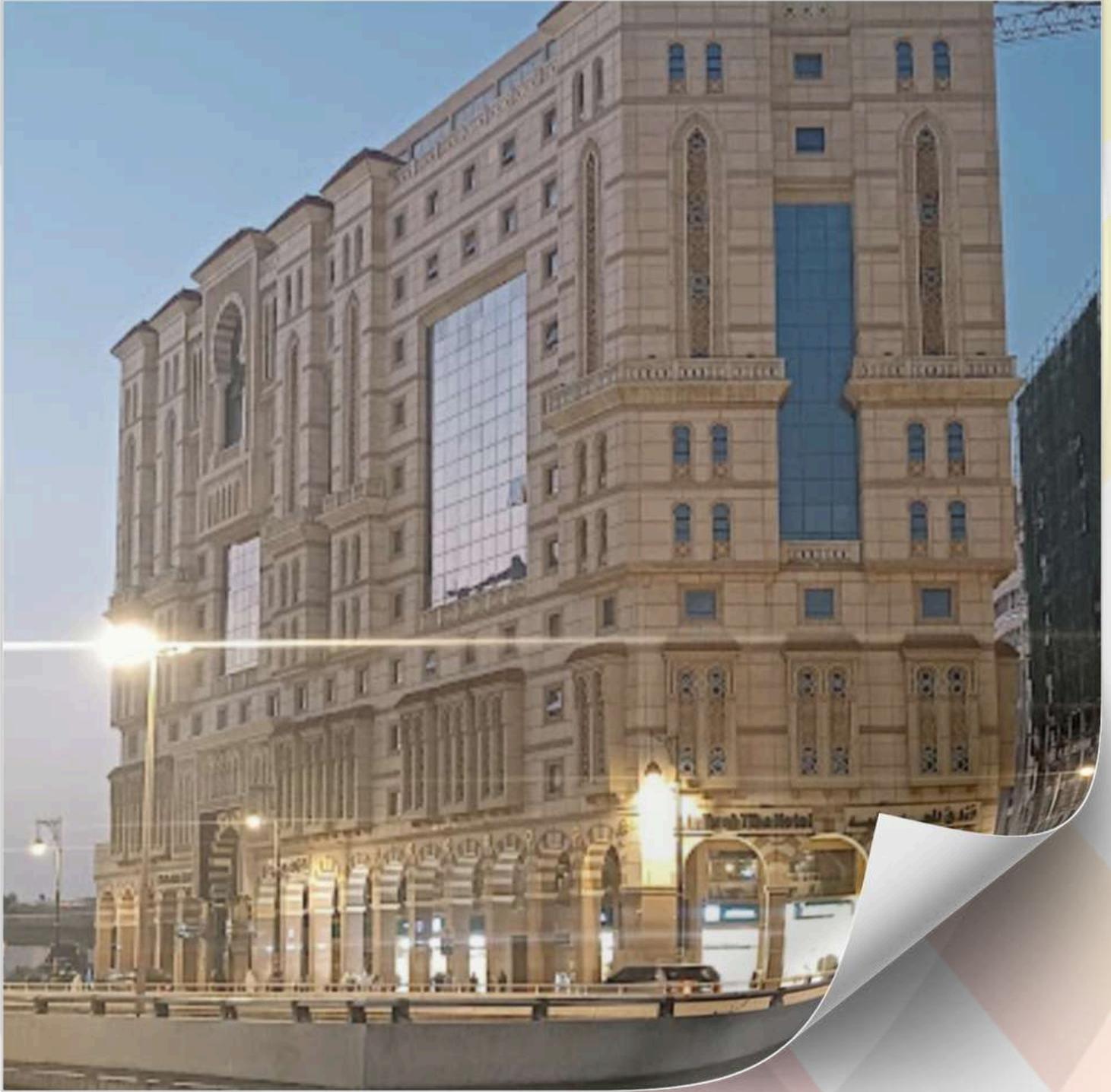


Maa'en Taibah Hotel
Plot No. 4060, Central District



KAYAN

شركة كيان للسلامة



Mihrab Taibah Hotel
Plot No. 3139, Central District



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Al-Rass Regional Courts Complex



KAYAN

شركة كيان للسلامة



Castle Hotel
Plot No. 3127, Central District



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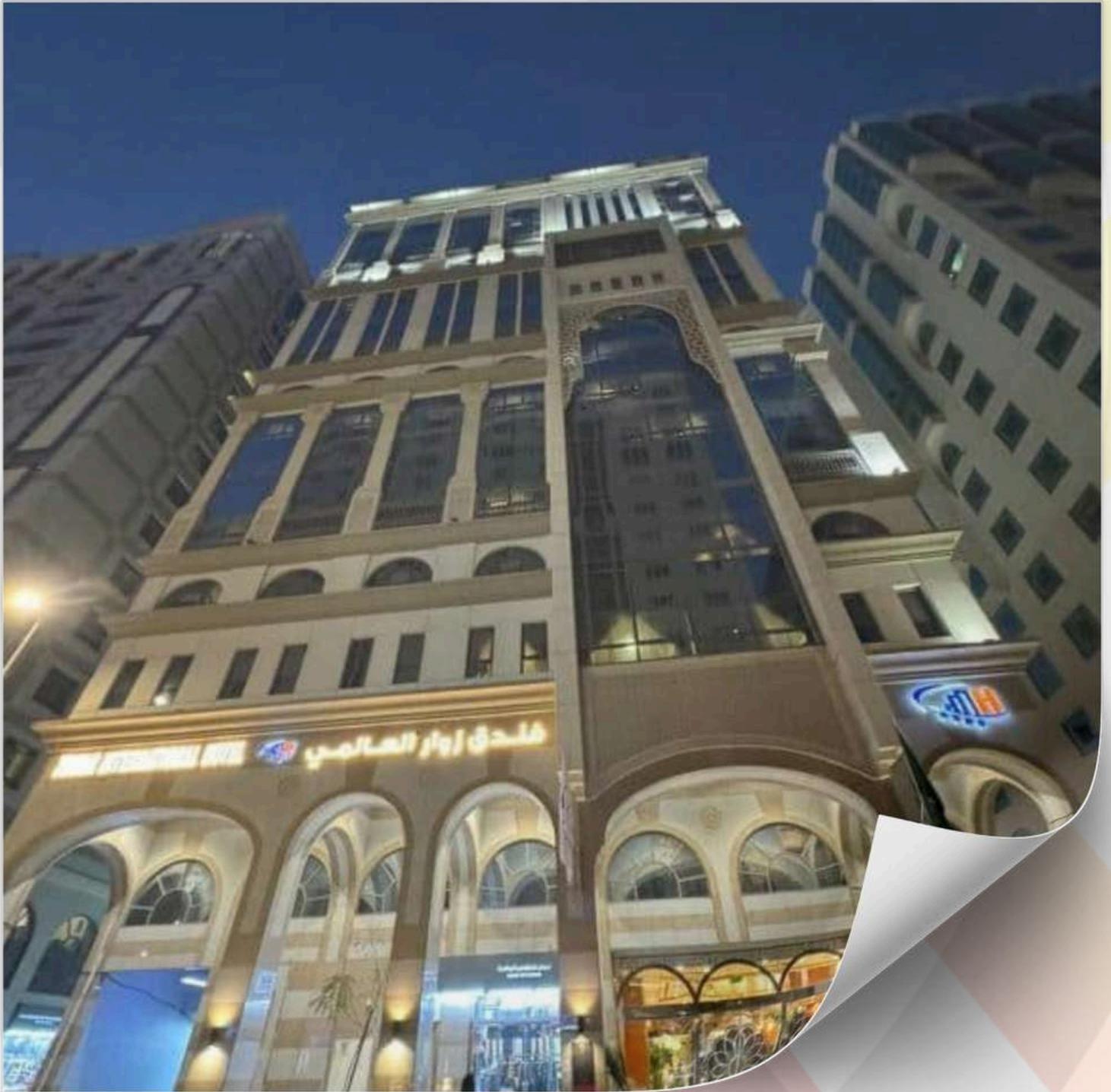


Grand Plaza Hotel Central Area, Madinah



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شركة كيان للسلامة



Zowar International Hotel Central Area, Madinah



KAYAN

شركة كيان للسلامة



Courts Complex Madinah City



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شركة كيان للسلامة



The Prophetic Biography and Islamic Civilization Exhibition



KAYAN

شركة كيان للسلامة



National Housing Company Tabuk Governorate



KAYAN

شركة كيان للسلامة



Four Seasons Hotel Madinah



KAYAN

شركة كيان للسلامة

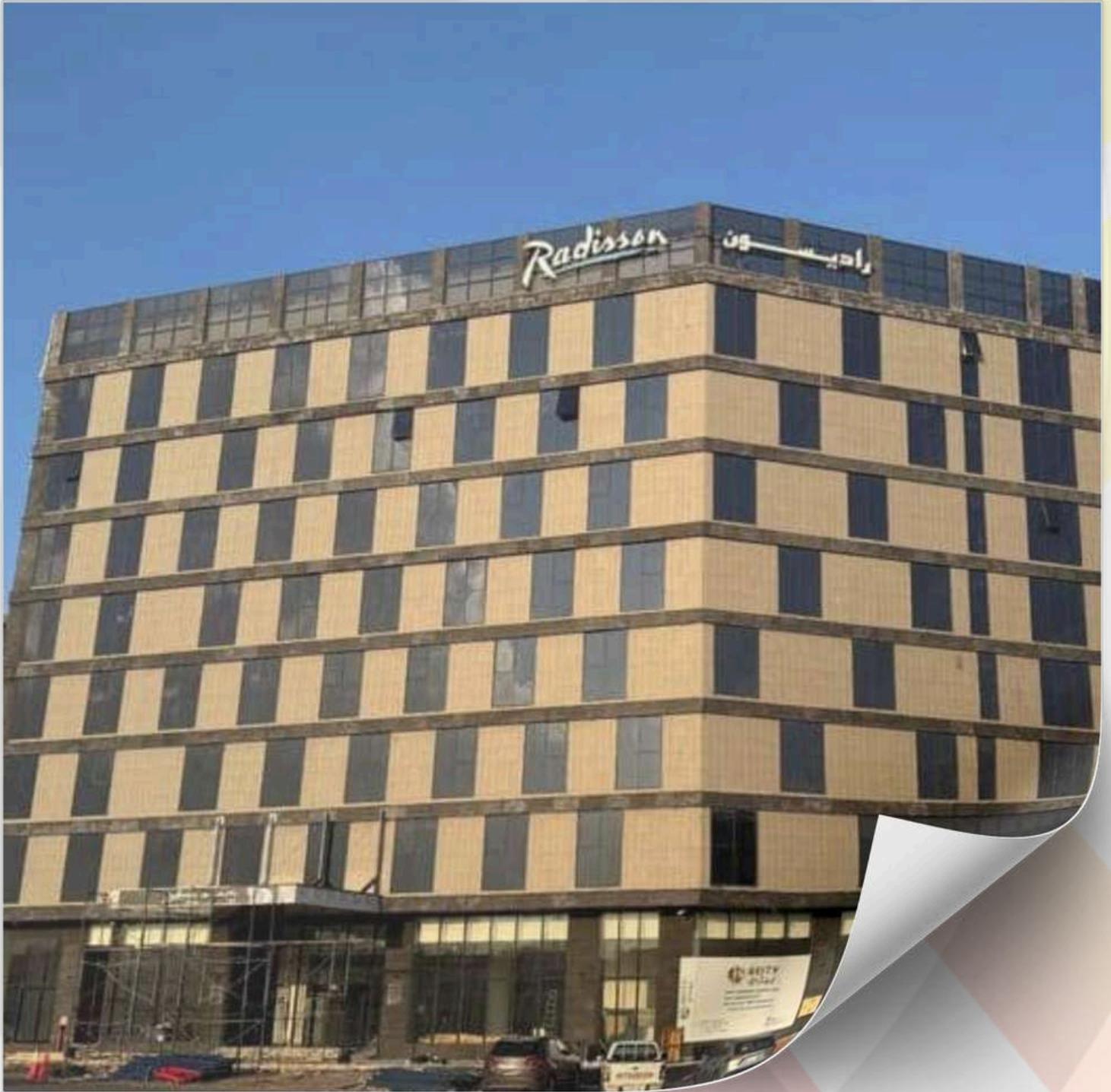


Al-Hudhaib Center Jeddah, Saudi Arabia



KAYAN

شركة كيان للسلامة



Radisson Hotel
Quba Road, Madinah



KAYAN

شركة كيان للسلامة



AlRashed Hotel
Omar bin Alkhattab Road , Madinah

CERTIFICATIONS AND APPROVALS



System tested in accordance with

SASO

Saudi Standards, Metrology and Quality Organization

L D-

Fire Tests of Fire-Protective Curtain Assemblies

L -

Air Leakage Tests of Door Assemblies and Other Opening Protectives

EN - A

Fire Resistance Test for Fire Curtains



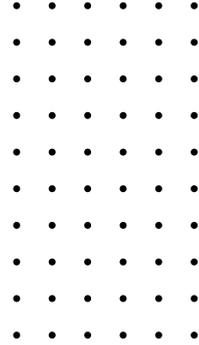
After 180 min (Unexposed Side)



After 180 min (Exposed Side)



KAYAN SAFETY COMPANY



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www.kayancomp.com



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Hakeem Center**

