



AL SAFA CO.
CENTRAL AIR CONDITIONING SUPPLIES

COMPANY PROFILE

— 2023-2024 —

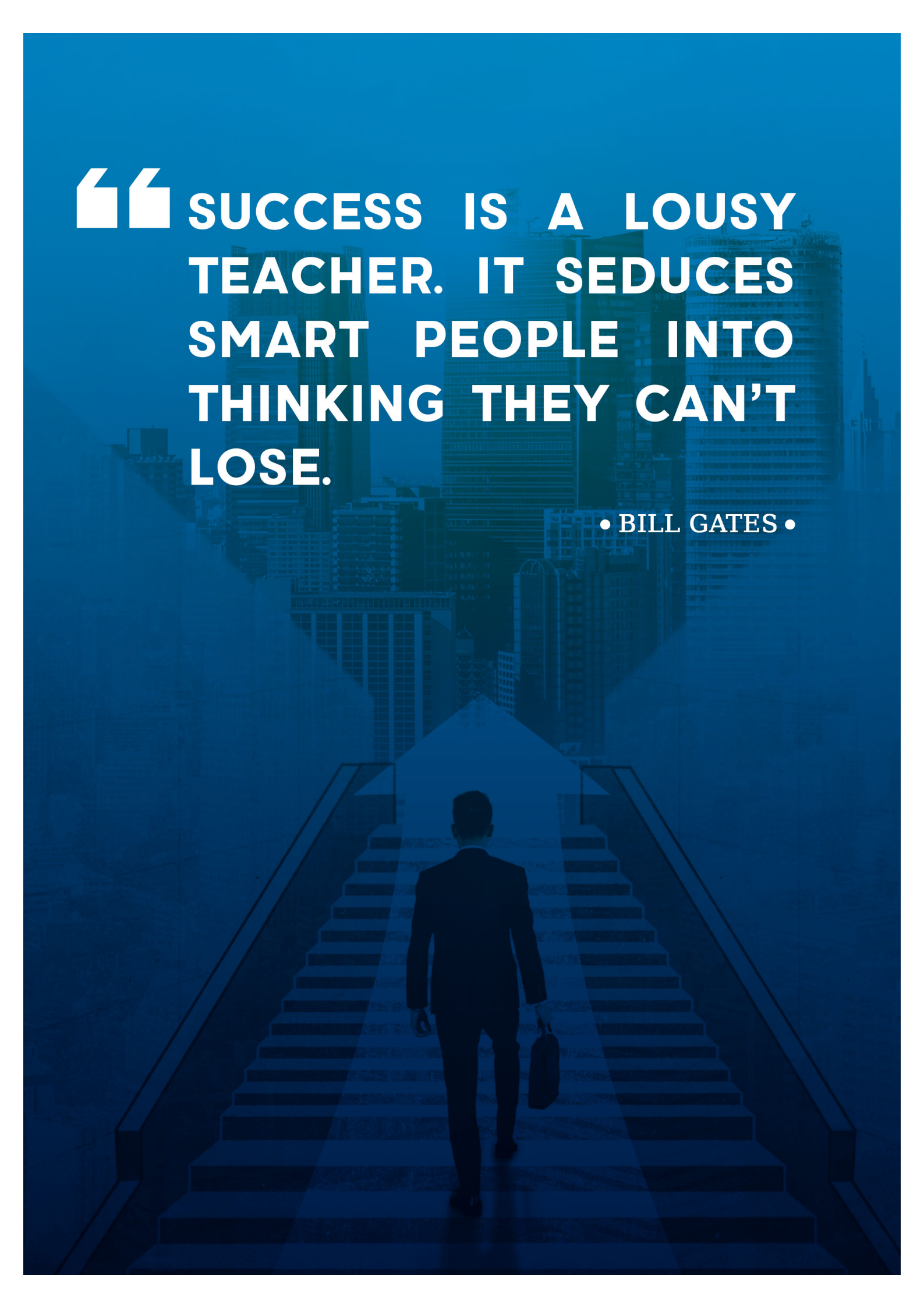


 **PHONE:**

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 **ADDRESS:**

Pasous Road – AL qanater Al khayriyyah



**“SUCCESS IS A LOUSY
TEACHER. IT SEDUCES
SMART PEOPLE INTO
THINKING THEY CAN'T
LOSE.**

• BILL GATES •

WELCOME TO ELSAFA CO.

INTRODUCTION

EL SAFA Co. is one of the top leaders in HVAC system instruments fabrication, established in 2000.

Along our successful & progressive journey, we strive to be the integrated service provider of HVAC system equipment in the Middle East by supplying (AHUs, FCU, Condensing units, package DX units, air outlets, air ducts, and air curtains ... etc.)

And we will continue, with full commitment to providing customer focused and professional services

We are primed & ready for growth over the next 50 years!



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OUR TARGET

Fabrication and installation of central air conditioning supplies according to codes, international standards, and technical specifications professionally and accurately.

OUR VISION

Our Distinct future vision is based on our teamwork goals and the target that we are focusing on to become the Number 1 Manufacturer within the fee coming years, and to reach the summit on 2023. To achieve our vision, we intend to expand the range of our products that all are made in Egypt to serve the industrial sector with the most competitive quality, price, and execution.



OUR PRODUCTS

- ✓ SQUARE CEILING DIFFUSER
- ✓ ROUND CEILING DIFFUSER
- ✓ SWIRL DIFFUSER
- ✓ PERFORATED CEILING DIFFUSER
- ✓ LINEAR SLOT DIFFUSERS
- ✓ LINEAR CEILING DIFFUSERS
- ✓ LINEAR BAR GRILLES
- ✓ REGISTER
- ✓ FLOOR&PERFORATED-FLOOR-GRILL
- ✓ TRANSFER GIRLL
- ✓ ACCESS PANEL
- ✓ LOUVER
- ✓ SAND TRAP LOUVER
- ✓ JET NOZZLE
- ✓ BALL JET NOZZLE
- ✓ DISC VALVES
- ✓ NON RETURN DAMPERS
- ✓ VOLUME DAMPER
- ✓ FIRE DAMPER
- ✓ SMOKE DAMPER
- ✓ DUCT ACCESS DOOR
- ✓ DUCT WORK

OUR PRODUCTS



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SQUARE CEILING DIFFUSER

INTRODUCTION

The diffusers are designed for ceiling applications.

They can be used for supply or extract air, together with the accessories required for various demands.

PROPERTIES

The diffusers have fixed and straight blades.

For supply air purposes, they are characteristically suitable for horizontal air throws. Where "Coanda effect" is required, they should be installed close to the ceiling. These diffusers are recommended for use with ceiling heights up to 4 m., with a supply air temperature difference of (+/-) 100C. The diffuser is made of a frame and a central blade block. The blade block is fixed to the frame by the aid of spring pins and can easily be removed / installed. The standard sizes start from 150 x 150 mm, and go up to 600 x 600 mm with increments of 75 mm. One, two, three and four way throwing types are available



ROUND CEILING DIFFUSER

INTRODUCTION

The diffuser can be used for ceiling or exposed duct mounting and has a fixed horizontal air pattern.

MATERIAL

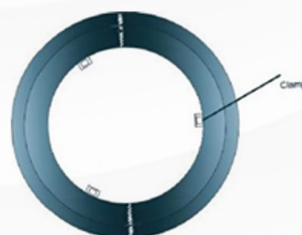
Frame and inner cones are high quality die drawing aluminum.

Blade support: Aluminum bar linkage to support inner cones together.

clamp: Spring clamp to fix inner cones to the frame by hinge bar.

FINISH

Aluminium construction with white powder coated finish (RAL 9010) any color upon request.



TRANSFER GIRLL

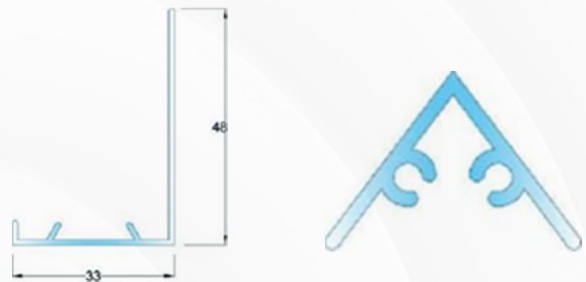
INTRODUCTION

it is a rectangular aluminium door transfer grille with fixed deflectors and can be used in commercial and industrial premises. The grille is intended for free passage of air through doors. The grille can have pre punched beveled holes for mounting with screws.

FUNCTION

The grille fixed deflectors have pitch of 1"(25mm) and this space allows the air to pass freely between both sides of the grille.

Because of the specially arranged deflectors it is not possible for light to pass through.



JET NOZZLE

INTRODUCTION

Jet nozzle designed for handling large Air volume and long throw also, suitable for horizontal and vertical discharge application such as entrance ways, gymnasiums, swimming pools, airports.... Etc

For use in heating or cooling applications

INNER CORE

Drawing die high quality aluminum sheet forming

FACE BOARD PLATE

face board plate which holding the jet nozzle diffuser in order to install it. consist of galvanized sheet metal plate.



SWIRL DIFFUSER

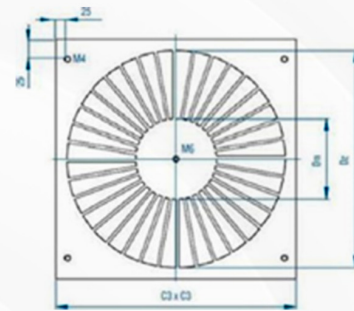
INTRODUCTION

The swirl diffuser with fixed radially arranged air control blades. This unique type of slots provide high induction "vortex" air flow projecting horizontally from the face of diffuser.

This swirling air flow produce a diffuse air distribution, with no stationary air jet resulting excellent uniformity of temperature in air conditioned space.

Swirl diffuser is suitable in area of high heat load where large quantities of cool air must be rapidly mixed with room air; areas which require high air change in a short time.

The Swirl diffuser can also be used as a return and exhaust type device.



PERFORATED CEILING DIFFUSER

INTRODUCTION

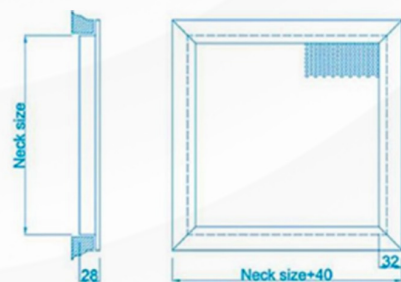
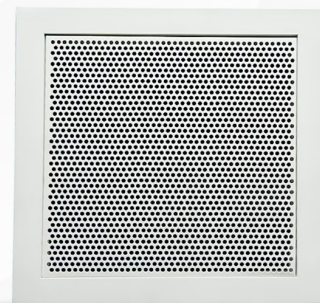
The Perforated Air Grille combines a inner core of perforated aluminium or stainless steel sheet surround with a frame of 30 mm wide . This grille has a free area of approximately (16% : 50%) which makes it extremely effective in all air function.

FRAME

Standard outer frames from best quality extruded aluminium alloy 6063 profile.

FACE BOARD PLATE

Perforated faces from Galvanised steel ,or stainless steel (316)pr aluminum sheet upon request.



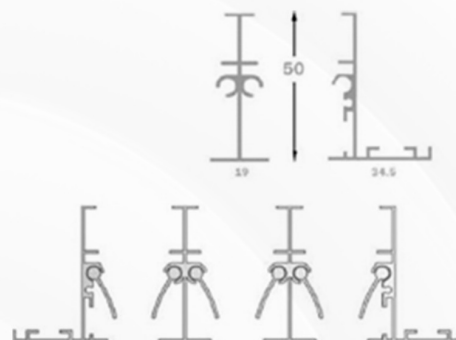
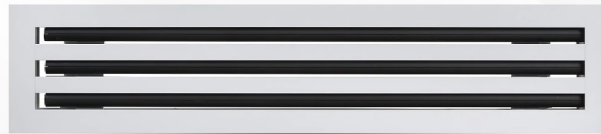
LINEAR SLOT DIFFUSERS

INTRODUCTION

The And 002 Model Slot is designed to combine a high air change rate capacity with maximum flexibility in air pattern and volume control, suitable for either ceiling or sidewall applications.

Linear slot diffusers offer unobtrusive good looks together with functional efficiency.

Linear slot diffusers are particularly suited to large open plan offices, where changing occupancy layouts demand an air distribution system that includes built in adaptability to suit the relocation of internal partitioning. Other applications include restaurants, meeting / conference rooms, atriums etc



LINEAR CEILING DIFFUSERS

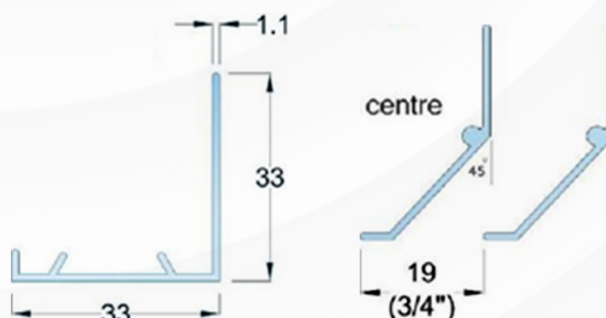
INTRODUCTION

The linear ceiling diffusers with one or two-sided discharge are especially suitable for air supply through ceilings. They distribute the air along the ceiling and can be used in very low rooms height. The linear ceiling diffusers feature excellent induction.

Mixing of the air jets with the room air and thus the heat exchange begin in the immediate neighbourhood of the diffuser. Therefore, warmer and particularly colder air can be supplied without draft effects.

MATERIAL

Extruded aluminium throughout



LINEAR BAR GRILLES

MATERIAL

Extruded aluminium throughout.

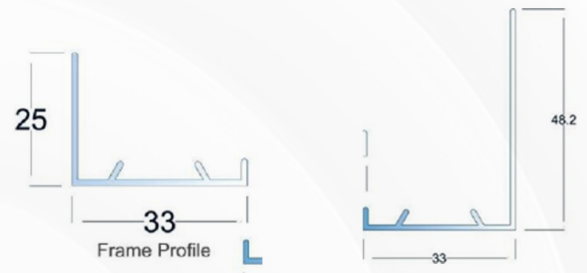
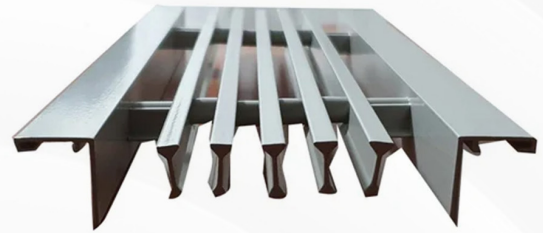
SIZES

Maximum single unit length 1800mm. Above this size linear runs are supplied in multiple units for butt joining, flange alignment strips are supplied to ensure continuous line appearance.

FINISH

Standard: White RAL 9010, or Silver RAL 9006 stove enamel.

Optional: See Ordering Information section for details.



REGISTER

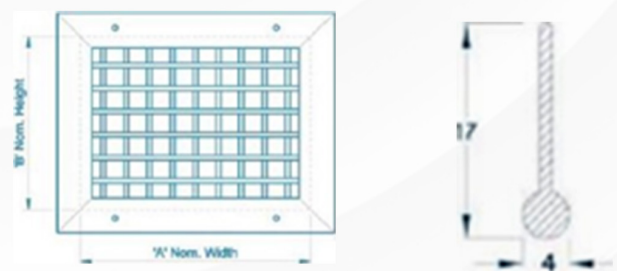
DEFLECTION REGISTER

A fully adjustable register suitable for supply or extract application.

Single deflection register have one bank of fully adjustable blades, which are held in place by high tensile spring wire. With maximum free area of around air dynamic tear drop shaped blades.

Single deflection registers are effective extract register creating minimum noise and pressure drop.

For supply, aim the blade in one direction for a target throw or spread then for a wide, gentle diffusion. It's suitable for high side wall, soffit or duct mounting.



MATERIAL

Extruded aluminum

FLOOR&PERFORATED FLOOR GRILL

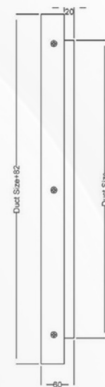
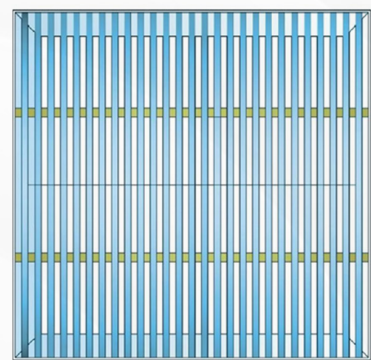
APPLICATIONS

Floor fixed bar aluminium grilles are used for air supply and exhaust in all kinds of low pressure air handling.

SIZES

Available as standard in 600 x 600 mm tile replacement but can be manufactured in any size from 300 x 300 mm to 750 x 750. The grille is manufactured from extruded aluminium (6063)

The core is mounted transversely on deep flat section aluminium alloy support bars welded to the heavy section main frame.



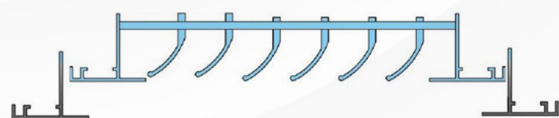
ACCESS PANEL

INTRODUCTION

Access panels are built-in accessories for ceiling. They are planted in various areas of the suspended ceiling, shaft walls or drywall partitions that requires access for constant adjustments, inspections and revisions.

Ventilation ducts, electrical control outlets.

This panel is designed to fit into the structural membrane of jointless plasterboard ceiling systems, it is supplied with a beaded frame to allow for tape and jointing on site and comes complete with a fully removable flush door. It is inserted directly into a pre-cut hole through.



LOUVER

INTRODUCTION

The external louver protects the external supply and exhaust openings of ventilation devices against moisture penetration, and direct ingress of rain, leaves and birds.

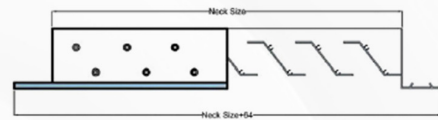
It prevents direct views into the protected area. It is applied for improving the aesthetic impression of the exterior, which is increased by the surface finishing and the shape of blades.

MATERIAL

Louvers are made from extruded aluminum profiles for blade and frame.

FINISH

Standard finish for aluminum mill or powder coated.



SAND TRAP LOUVER

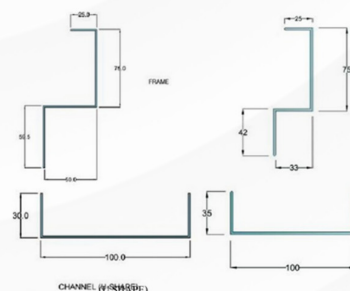
Sand trap Louver is normally used as prefilter for fresh air intake of Air Handling Unit (AHU), Package Air Conditioning Units (PACU) and Roof Top Fresh Air Units (RTFAU).

Also for air conditioning systems and air intake in manufacturing plants

It has a degree of separation of sand and large dust particles, even in cases of high dust concentration. The sand trap louver is designed to separate large 1 particles at low air velocities, thus avoiding excessive dust loading on conventional plant filters.

The vertically arranged sections and holes for sand drainage ensure the sand trap louver is self-cleaning and maintenance-free.

It is not intended as a substitute for conventional



BALL JET NOZZLE

INTRODUCTION

Ball Jet nozzles are used for Air conditioning system in large rooms, in general ball jet nozzles are arranged in the side wall areas.

This is the case in large rooms (halls, assembly rooms etc.) particularly when the distribution of air via ceiling diffusers is not possible or not practical, as that it is better to choose ball jet nozzles.

Ball Jet nozzles are arranged in the side wall areas to supply air.

When the temperature difference between the supply air and the room air changes as the season changes, making the supply air stream deflected upwards (cold air) or downwards (warm air) to mix the air stream symmetrical and fast.



DISC VALVES

INTRODUCTION

Round ceiling diffuser provides excellent performance in variable air volume systems and provides a clean, smooth look for exposed duct or hard ceiling applications. Additionally, it has a center thread bar adjustable positions.

APPLICATIONS

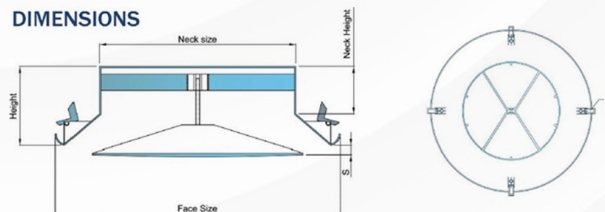
For supply and exhaust ventilation Air conditioning and heating.

Mounting in false ceiling or wall.

Used to arrange correct air circulation in premises.



DIMENSIONS



NON RETURN DAMPERS

INTRODUCTION

The gravity air shutter is a wall mounted device. It is composed of a set of horizontally mounted blades; they are normally closed and are free to rotate about the horizontal axis to equalize the pressure across it.

FRAME

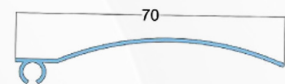
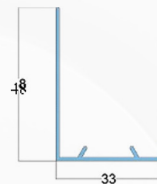
Extruded aluminum section frame.

SEAL

Sealing foam strips on the blades where they overlap to ensure a good seal and to reduce noise

FINISH

Standard mill finish or powder coated.



VOLUME DAMPER

The Volume Control Damper has been specially designed to control air flow in HVAC system where high/medium/low pressure are experienced.

These dampers are designed to operate from one control point.

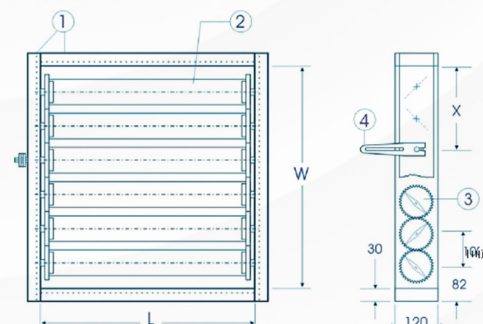
The damper's blade opening is controlled by hand locking quadrant or motor.

MATERIAL

Extruded Aluminum or galvanized steel.

CASING

Extruded Aluminum or galvanized steel for upper and side frames with different case depth

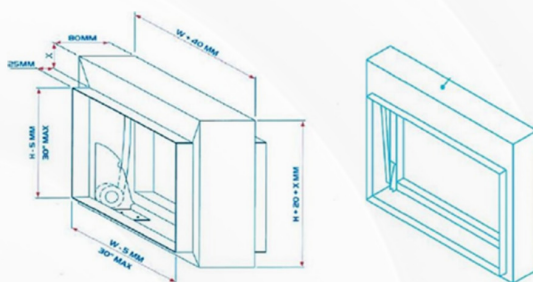


FIRE DAMPER

INTRODUCTION

Fire dampers are installed in an air-distribution system, and are designed to close automatically upon detection of heat, to interrupt migratory air flow, and to restrict the passage of flame. They are required in order to maintain the required integrity of a fire resistance assembly when ducts penetrate fire-rated walls, partitions, or floors.

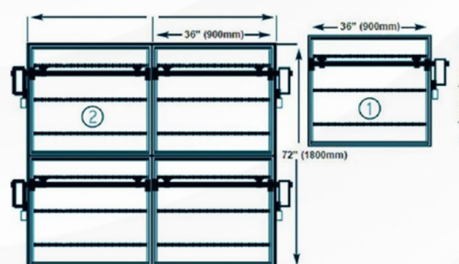
Fire dampers are required by either the model building or mechanical codes or National Fire Protection Association (NFPA) 90A, Standard for the Installation of Air Conditioning and Ventilating Systems.



SMOKE DAMPER

Smoke Dampers can be used in two different applications, where they simply close and prevent the circulation of air and smoke through duct or a ventilation opening in a smoke barrier.

Or they may be designed to control the spread of smoke using walls and floors as barriers and using the building's HVAC system and or dedicated fans to create pressure differences. Higher pressures surround the fire area and prevent the spread of smoke from the fire zone into other areas of the building. Smoke Dampers are motorized with electric actuator. They may be controlled by a smoke or heat detector signal, a fire alarm signal, or in a variety of ways by the building control system to accomplish the intent of the design.



DUCT ACCESS DOOR

INTRODUCTION

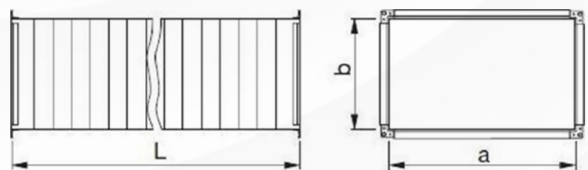
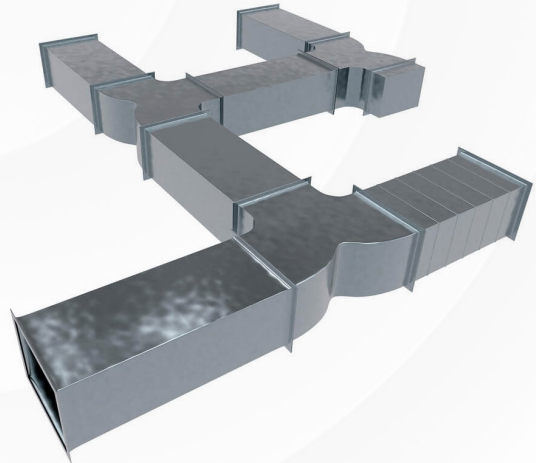
Fire dampers need inspecting and testing, coils need cleaning and controls need adjusting.

So we offer a range of duct and plenum access doors that have been designed to allow easy and convenient access to such equipment within HVAC ductwork, without compromising safety or ventilation, to meet different duct styles and application needs. Some models feature quality double skin construction that meets SMACNA requirements, with quick simple installation and low leakage flat oval series provides premium quality that optimizes access area and ease of installation.



DUCT WORK

A duct system is a network of round or rectangular tubes—generally constructed of sheet metal, fiberglass board, or a flexible plastic and wire composite—located within the walls, floors, and ceilings. Usually, you can see only the outlet, which is a register covered with grillwork. The purpose of a duct system is to transmit air from the central air source to the air diffusers located in the building control zones. Figure below shows a central heating furnace connected to supply and return air ductwork. The furnace is connected to the air plenum at the starting point. Furnace fan/s draw air in through grilles called returns and force air through the plenum and into the conditioned space through supply registers





OUR PARTNERS



OUR CLIENTS



معهد بحوث الإلكترونيات



المنصة الرئيسية للكلية الحربية



مسرح الجلاء للقوات المسلحة



مستشفى الزقازيق العسكري



مستشفى الباطنة - بالقصر العيني



قاعات امتحانات طب عين شمس



مستشفى أمظاة العسكري



قصر الضيافة بصلاح سالم



قاعات الاحتفالات بالاشغال العسكرية



مبنى الكلى الجديد بالمعادي العسكري



مبنى الكلى القديم بالمعادي العسكري



رفع كفاءة معهد القلب بالعجوزة



المعرض الرئاسي بمدينة الجلالة



المجمع الطبي العسكري بالجلاء



مركز شباب الجزيرة بـ ٦ أكتوبر



مركز شباب الجزيرة بالزمالك



مجموعة فنادق ترافكو مرسى علم



مبنى الأورام بالمجمع الطبى العسكري



مركز البحوث الطبية والطب التجديدى



قطاع سلامة عبد الرؤوف بالدويقة



شركة اكسيد - القرية الذكية



دار البنك الاهلى



مجموعة فنادق ترافكو سفاجا



مجموعة فنادق ترافكو الغردقة



هيئة الاستثمار - صلاح سالم



المدرسة الفرنسية - المعادى



مجمع الاستشاريين - القرية الذكية



مكاتب حازم حسن - القرية الذكية



فروع ابوشقرة



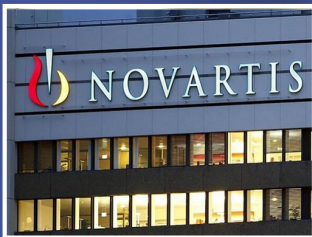
داون تاون - التجمع



فروع كارفور



مستشفى كليوباترا - روكسى



نوفارتس لادوية - السواح



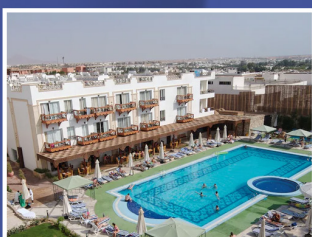
يونيفارما لادوية - العبور



بورتو كايروميديكال - التجمع الاول



نادى بلاتينيوم - التجمع الخامس



فنادق المنصوري- شرم الشيخ



مستشفى جامعة جنوب الوادى - قنا



صالة ٣ - ارض المعارض



مكتب وزير قطر بالسودان



مبنى فاليو الفرنسية - القرية الزكية



مبنى ACG - القرية الزكية



توكيل اسكودا



توكيل بورش



فروع مطعم ماكدونالدز



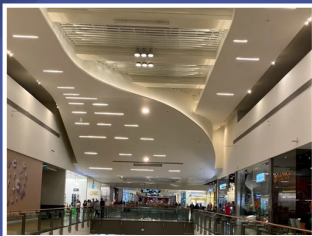
ميس الضباط بالكيان العسكري



مصنع الكارتون - العاشر من رمضان



مبنى ٢١ و ٢٢ - بالعاصمة الإدارية



سي تي سنتر ألاماظة



واتر واي التجمع الخامس



مول بوينت ٩٠ بالتجمع الخامس



نادي الصيد ب ٦ أكتوبر



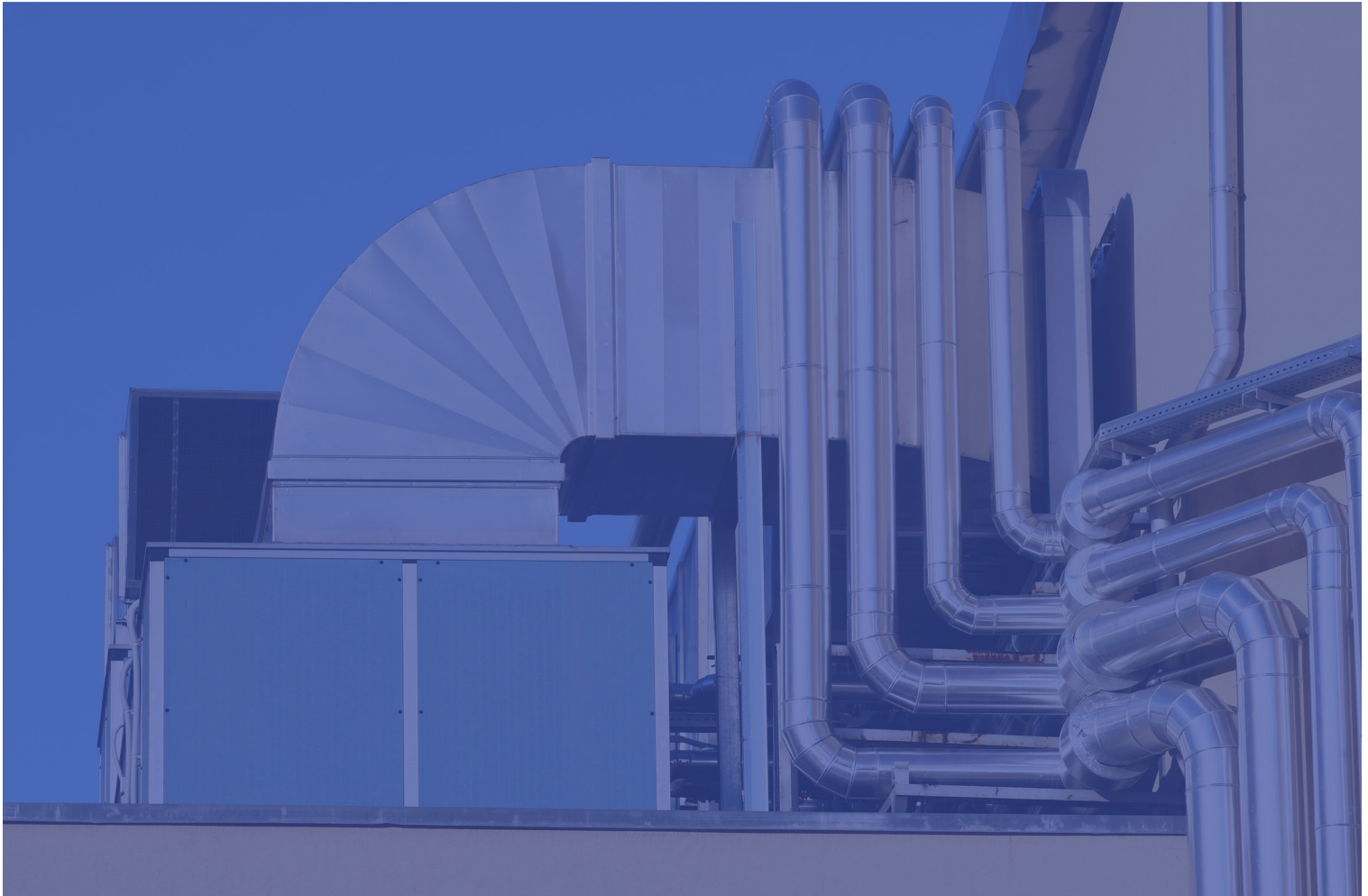
نادي الشمس الرياضي

“
GREAT VISION
WITHOUT
GREAT PEOPLE IS
IRRELEVANT





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