

شرکت نوین آریاگوهر مرو ایرانیان

*Novin Aria Gohare MarvIranian Company*

*Manufacturer of air diffusion and control equipment*

*Address: Mashhad, Resalat St., Imam Reza St., Alley 3. No. 9*

*Management: Mohammad Kazem Marvi*

*Mobile: 09155136947-09155977853*

## *About Marvi technical institute*

*Novin Aria Gohar Marv Iranian Company is known in Iran as the leading manufacturer of air-movement and control equipment. Its flagship ventilation products are typically found behind walls, in ductwork or on the roofs of hospitals, office buildings, hotels, shopping malls, restaurants, schools, industrial plants and other commercial buildings. Their function, basically, is to move air in, out and around a building - making life inside a lot more pleasant.*

*The company's products are in the field of various types of air regulation valves, inspection doors, fan coils, shooting systems, air transfer ducts, industrial dampers, thermal insulation and roof air vents, etc.*

*Marvi Industrial Group, by gathering the most experienced people in this field and with the aim of industrializing and making this industry scientific, always tries to take an effective step in the comfort of our dear compatriots by using the most modern tools in the world.*

## History

*Novin Aria Gohar Marv Iranian Company has a proud history in the development, manufacture and sale of Air conditioning components. Mr. Mohammad Kazem Marvi Laid the founding stone in 2005 for a company which is still based on his original idea today, that, make their business grow, never imagined how large their enterprise would someday become. Currently, NAGMI<sup>1</sup> company operates in the field of air conditioning equipment inside and outside the country.*

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*1. Novin Aria Gohar Marv Iranian*

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*ACCESS DOORS*

## Drywall & Ceiling Access panel

### Type:

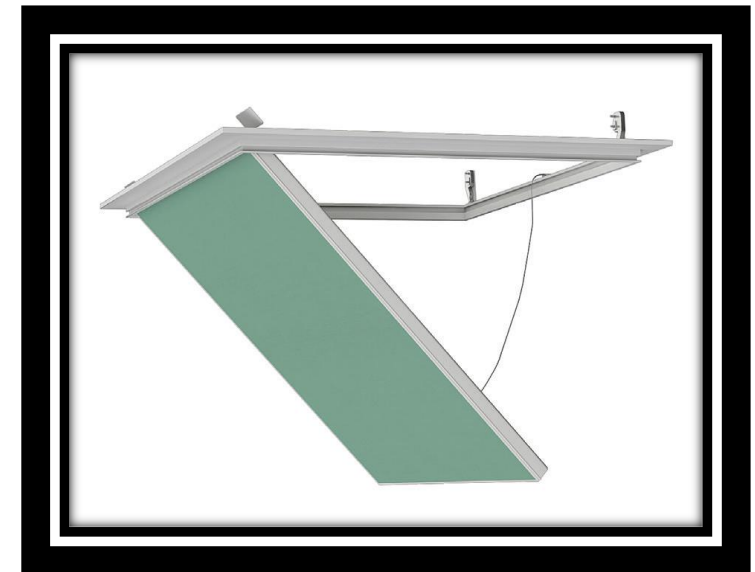
- Drywall & Ceiling Access panel (Model: ACKN)
- Drywall & Ceiling Access panel - Multi Door (Model: ACKN-MD)
- Drywall & Ceiling Access panel With Aluminium Grille (Model: ACKN-GR)
- Drywall & Ceiling Access panel - MDF Panel (Model: ACKN-MDF)

### Applications:

- Drywall & ceiling Access panels are designed to allow easy access for inspection and maintenance of services located behind them.
- Suitable for all commercial public areas such as offices, retail centres, schools, hospitals, conference halls and hospitality spaces.
- Suitable for installation within drywall partitions and ceilings
- Suitable for subsequent installation in finished walls ceilings.

### Properties:

- Production capability with variety of panels of (MR, FM, FR, RG, CEMENT BOARD, MDF, PVC).
- Appearance hidden in the ceiling and the wall.
- Ability to match color with your surroundings.
- Self-activating pressured spring locks
- Safety latch secured on the inner side of frame
- Ready for direct tiling on-site
- Available in various sizes
- Configured for installation in 12.5 mm thick clad constructions



**Types:**

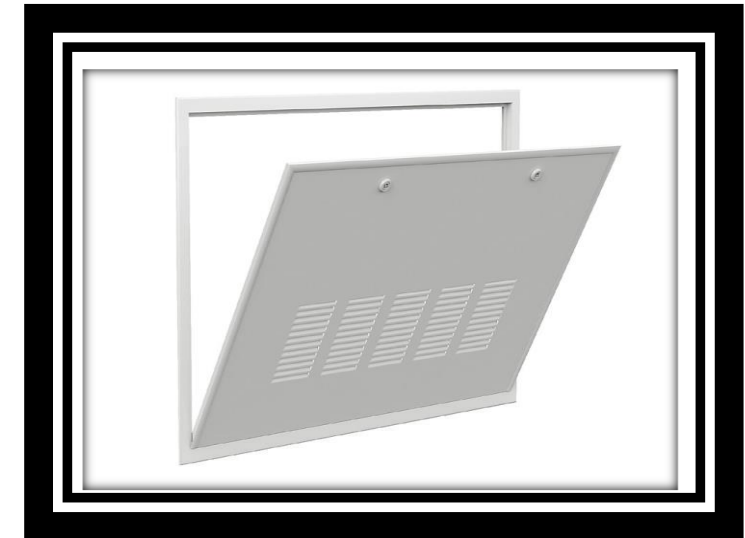
- *Hinged fan-coil access door with inside grille (Model: FACHDRGA3)*
- *Hinged fan-coil access door with return linear grille (Model: FACHDRGA4)*
- *Hinged fan-coil access door with return egg crate grille (Model: FACHDRGA2)*
- *Hinged fan-coil access door with return one return slot (Model: FACHDRGA10)*
- *Removable fan-coil access door with one return slot (Model: FACHDRGA10)*
- *Removable fan-coil access door with two return slot (Model: FACHDRGA6)*

**Applications:**

- *Provides unobstructed access and easy serviceability to Fan-Coil Units*

**Properties:**

- *Material: aluminum or galvanized steel*
- *Creating the possibility for return air*
- *Possibility to install aluminum filter*
- *Possibility to insert filter for air purification*
- *Frame (Flange): The standard flanges width is 33 mm, but the use of 40 mm and 50 mm flanges is possible*





### *Types:*

- *Hinged access panel (Model: ACDR)*
- *Galvanized Duct Access Door (Model: ACDRG)*

### *Applications:*

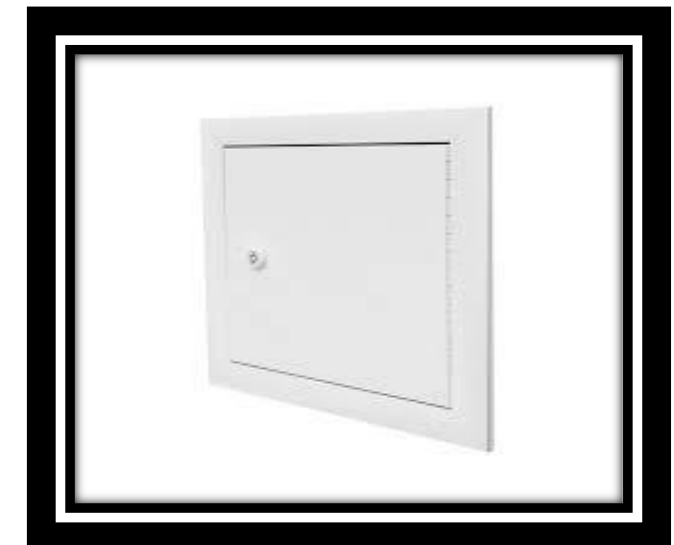
- *Access doors designed to provide convenient access to utilities contained within walls or ceilings.*

### *Installation:*

- *On wall , raises wall, ceiling or false ceiling*

### *Properties:*

- *Material: aluminum Provide convenient access to utilities such as valves*
- *Frame (Flange): The standard width of the flange is 33 mm, but the use of 40 mm and 50 mm flanges is possible*



# *GRILLES AND DIFFUSERS*

GRILLES AND DIFFUSERS

## Linear Slot Diffusers

### Types:

- 1 Slot up to 8 Slot Without Damper (Model: LS(1-8)WOD)
- 1 Slot up to 8 Slot With Damper (Model: LS(1-8)WD)

### Description:

- The height of each slot is 40 mm
- Frame (Flange): width of the flange is 25 mm

### Applications:

- Different Type of commercial and office Buildings and Luxury places
- Ceiling Height up to 5 meters
- Can be used as a linear or Curved openings

### Installation:

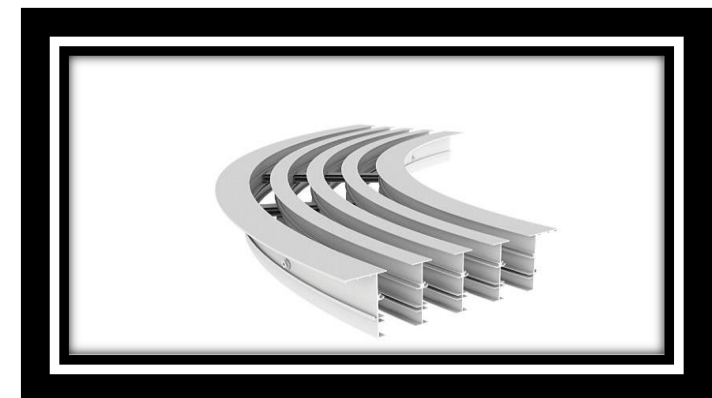
- Wall, ceiling or False ceiling fronts

### Properties:

- Air distribution with selectable orientation as a diffuser
- Material: Aluminum Profile,
- maximum Seamlessly length: 3 meters
- Suitable for distributing supplied air from fan coils
- Suitable for decorative use on the ceiling on the wall

### Optional Accessory:

- Damper for airflow adjustment



**Types:**

1- 30°, Single deflection (Model: LB301) 2- 30°, Double deflection (Model: LB302) 3- 15°, Single deflection (Model: LB151) 4- 15°, Double deflection (Model: LB152) 5- 0°, Single deflection (Model: LB0)

**Description:**

- This Grilles are with fixed horizontal blades that are fixed at the rear side of the frame by bushes
- Frame (Flange): The standard width of the flange is 33 mm, but the use of 18 mm and 40 mm and 50 mm flanges are available too

**Applications:**

- Types of commercial and office Buildings and Luxury places
- Ceiling Height up to 3.5 meters

**Installation:**

- Wall, ceiling or False ceiling fronts

**Properties:**

- Air distribution In the form of straight or on deflection or double deflection
- Material: Aluminum Profile, Iron Sheet, Stainless Steel or PVC
- maximum Seamless length: 3 meters
- with fixed horizontal blades That are fixed at the rear side of the frame by bushes
- Suitable for distributing supplied air from fan coils
- Deflection bars are fixed, Parallel to the long dimension

**Optional Accessory:**

- Galvanized Parallel Blade Damper for adjust airflow volume (Model: PD)
- Aluminum Opposed Blade Damper for airflow adjustment volume (Model: OD)



**Types:**

- Airfoil Grille - Double deflection (Model: SG2AFA)
- Airfoil Grille - Single deflection (Model: SG1AFA)
- One deflection Airfoil Register (Model: SR1AFAPD and SR1AFAOD)
- Airfoil Register - Double deflection (Model: SR2AFAPD & SR2AFAOD)

**Description:**

- This Grilles are with Airfoil and movable blades , One and Double Deflection
- Frame (Flange): The standard width of the flange is 33 mm, but the use of 40 mm and 50 mm flanges are available too.

**Applications:**

- Different Types of residential and office buildings
- Throw length: fairly long

**Installation:**

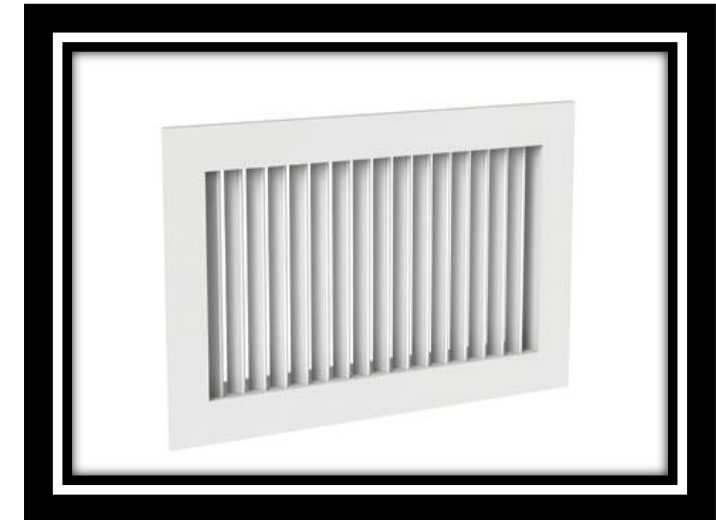
- on wall or False ceiling fronts

**Properties:**

- Ability to direct the flow of air through movable blades
- Aeration rate up to 2000 ft. / min

**Optional Accessory:**

- Galvanized Parallel Blade Damper for adjust airflow volume (Model: PD)
- Aluminum for airflow adjustment volume (Model: OD)



**Types:**

- Single Deflection airfoil grille with 40 degrees angle (Model: REGAFA)

**Description:**

- This Grilles are with fixed or movable horizontal Airfoil blades with a 40 ° angle
- Frame (Flange): The standard width of the flange is 33 mm, but the use of
- 40 mm and 50 mm flanges are available too.

**Applications:**

- Different Types of residential and office Buildings
- Since the blades of this grille are susceptible to impact, it must be installed in locations far from any impacts.

**Installation:**

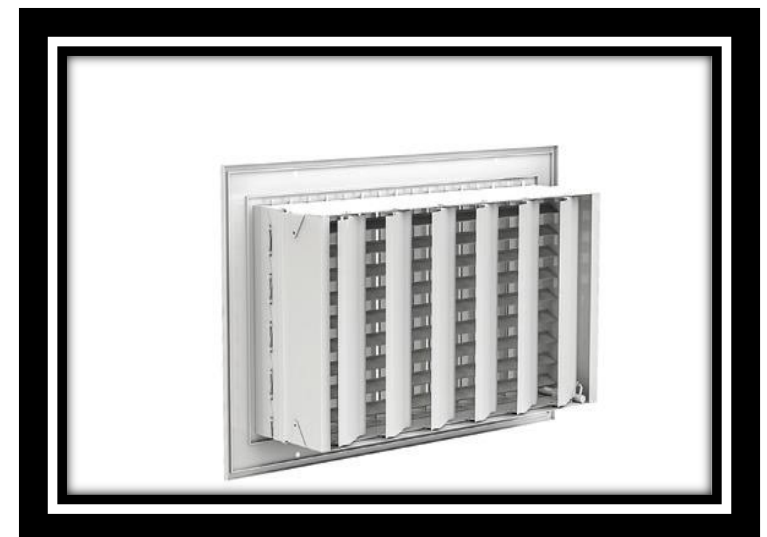
- On wall or False ceiling fronts

**Properties:**

- Constructed as a one deflection fixed or movable
- Material: Aluminum Profile Or Iron Sheet Or Stainless Steel
- No inside visibility

**Optional Accessory:**

- Galvanized Parallel Blade Damper for adjust airflow volume (Model: PD)
- Aluminum Opposed Blade Damper for airflow adjustment volume (Model: OD)



**Types:**

- Single Deflection (Model: REGZA)

**Description:**

- This Grilles are with fixed horizontal Z blades
- Frame (Flange): The standard width of the flange is 33 mm, but the use of 40 mm and 50 mm flanges are available too.

**Applications:**

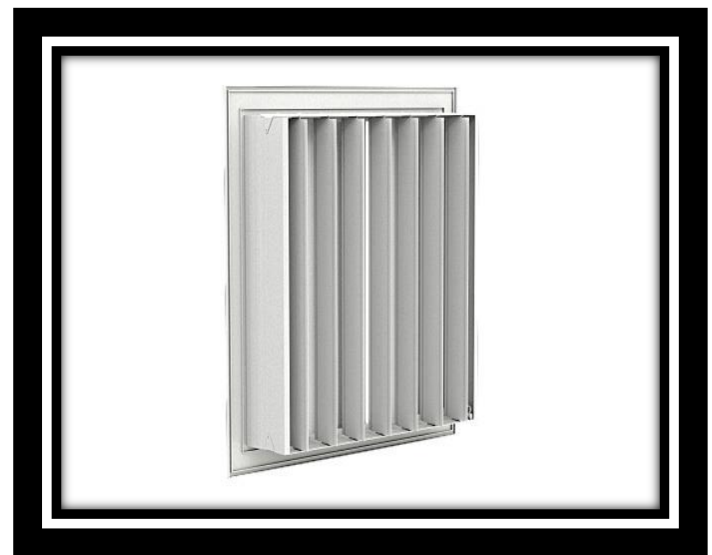
- Different Types of residential and office and Industrial Buildings
- Because of the strength of the structure, can be installed at low height and Close to floor level

**Installation:**

- Wall, ceiling or False ceiling fronts

**Properties:**

- With Z Shape Blades
- Very low Pressure drop due to blades shape
- No Inside visibility
- Designed for return and exhaust air
- Ability of install mesh to prevent entry of bird, insects...
- **Optional Accessory:**
  - Galvanized Parallel Blade Damper for adjust airflow volume (Model: PD)
  - Aluminum Opposed Blade Damper for airflow adjustment volume (Model: OD)



**Types:**

- Square egg crate grille with 0° blade angle (Model: SQEC0)
- Square egg crate grille with 45° blade angle (Model: SQEC45)
- Round egg crate grille with 0° blade angle (Model: ROEC0)
- Round egg crate grille with 45° blade angle (Model: ROEC45)

**Description:**

- This Grilles are with fixed egg crate grille blades
- Flange frame for square models: The standard width of the flange is 33 mm, but the use of 40 mm and 50 mm flanges are available too.
- Flange frame for round models: 33 mm

**Applications:**

- Return and Exhaust air for various buildings

**Installation:**

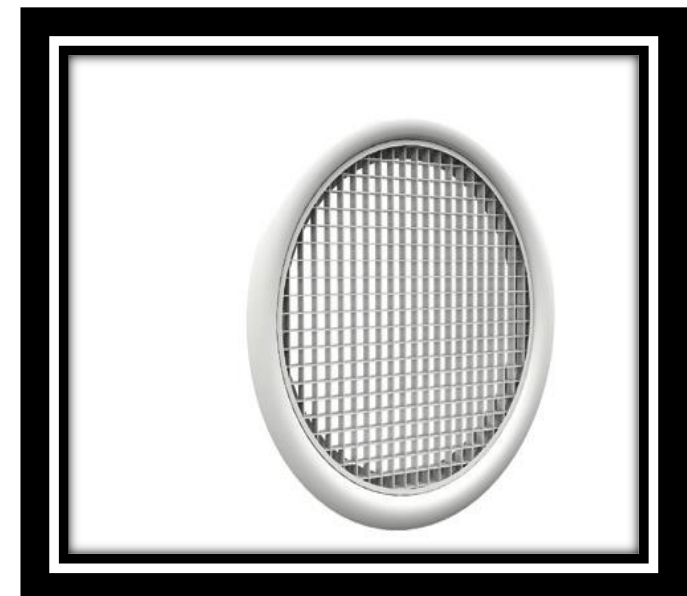
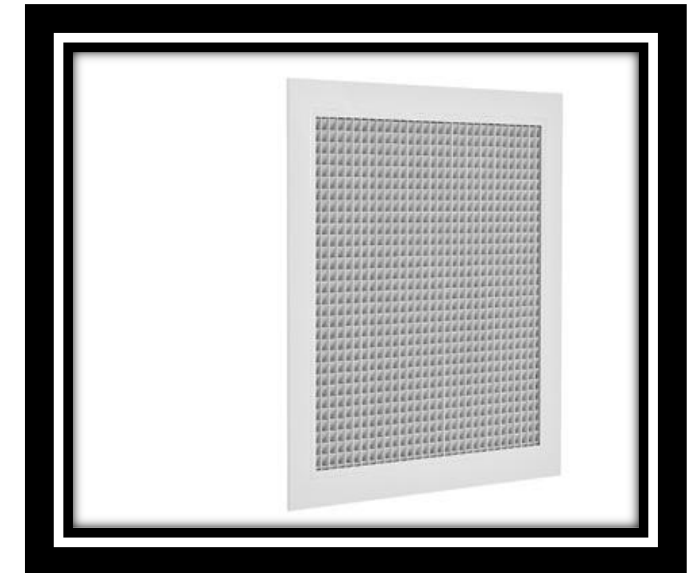
- Wall, ceiling or False ceiling fronts
- On Building exterior as air outlet

**Properties:**

- Very low pressure drop for exhaust air
- With straight and 45 ° blades
- Aeration capability In the form of one, two, three 4 way

**Optional Accessory:**

- Galvanized Parallel Blade Damper for airflow adjustment volume for square models (Model: PD)
- Aluminum Opposed Blade Damper for airflow adjustment volume for square models (Model: OD)
- Butterfly Damper for airflow adjustment - for round models (Model:BF)
- Round half plate Damper for airflow adjustment - for round models (Model: RHD)





**Types:**

- Wide frame type with 1 way blade (Model: SQCW1A)
- Wide frame type with 2 way blade (Model: SQCW2A)
- Wide frame type with 3 way blade (Model: SQCW3A)
- Wide frame type with 4 way blade (Model: SQCW4A)
- L Type with 1 way blade (Model: SQCO1A)
- L Type with 2 way blade (Model: SQCO2A)
- L Type with 3 way blade (Model: SQCO3A)
- L Type with 4 way blade (Model: SQCO4A)

**Description:**

- Square ceiling diffusers are two models ( L type and Wide frame type)
- In L type model, the blade has been fixed to the frame but in Wide frame model ,The blade has the ability to detach from the frame

**Applications:**

- Residential and office Buildings , Restaurants , hotels and Hospitals
- Usually it is used for supply air, but it can be used in some cases for return air
- Ceiling Height up to 4 meters

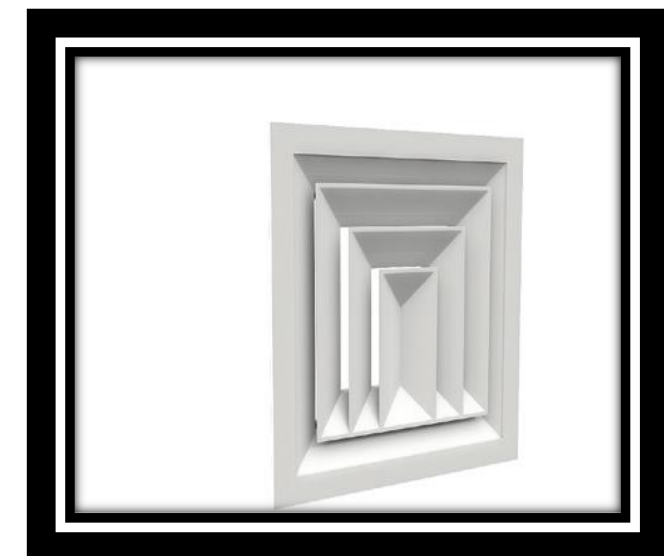
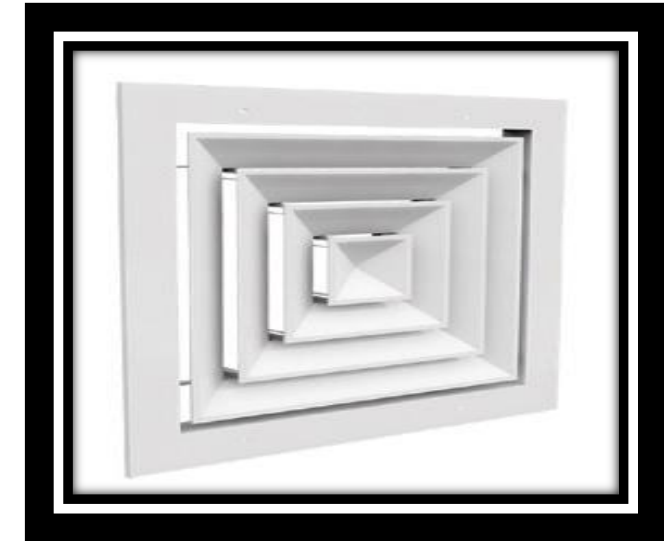
**Installation:** On ceiling

**Properties:**

- The ceiling diffuser is one of the most popular diffusers, which distributes the uniform flow of air horizontally through the concentric Consecutive blades
- Ability to build with 1 way and 2 way and 3 way and 4 way blades

**Optional Accessory:**

- Galvanized Parallel Blade Damper for adjust airflow volume (Model:PD)
- Aluminum Opposed Blade Damper for airflow adjustment volume (Model:OD)



**Description:**

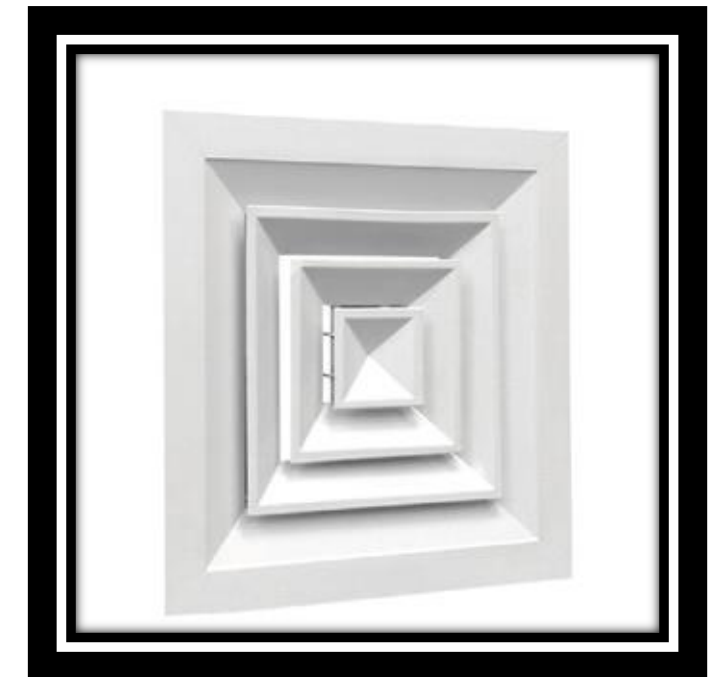
*The construction of ceiling square diffusers has traditionally been done using aluminum profile joints. But with the new design of this institute for the first time in Iran, these diffusers have been made seamlessly with aluminum press, which is a major step in the production of these diffusers.*

*In this method, due to the use of press machines for cutting and shaping parts and the use of hydraulic machines for drilling, the installation of pin and springs automatically minimizes the possibility of any errors in the assembly of all parts, and the product has higher quality.*

*these product can be produced only in five sizes and in four-way form.*

**Optional Accessory:**

- Galvanized Parallel Blade Damper for adjust airflow volume (Model: PD)*
- Aluminum Opposed Blade Damper for adjust airflow volume (Model: OD)*



**Types:**

- Round ceiling flat diffuser (Model: ROCFLA)
- Round ceiling step down diffuser (Model: ROCSD)

**Applications:**

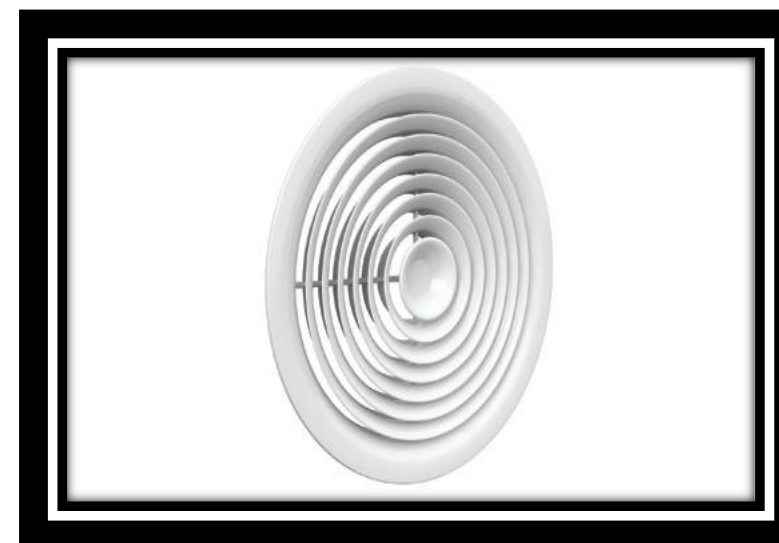
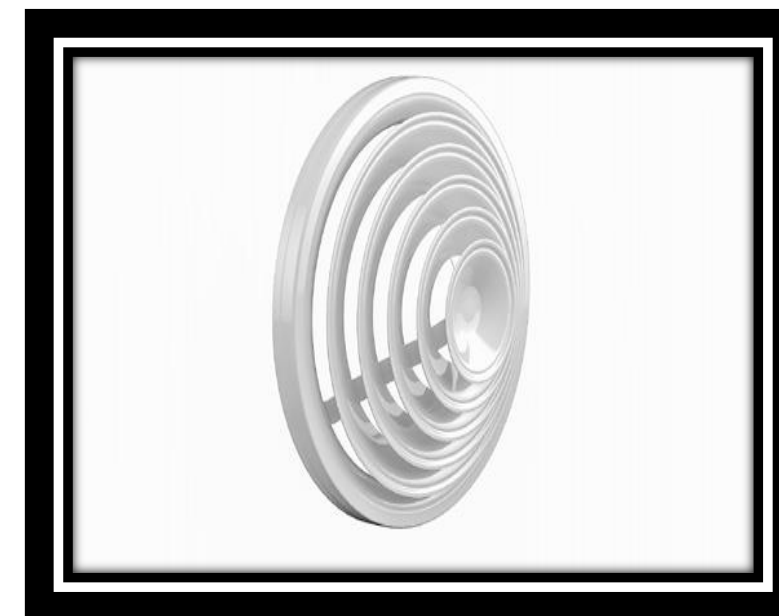
- Different Type of office Buildings and residential and
- Ceiling Height up to 4 meters

**Installation:**

- On ceiling or False ceiling fronts

**Optional Accessory:**

- Butterfly Damper for airflow adjustment - for round models (Model: BF)
- Round half plate Damper for airflow adjustment - for round models (Model: RHD)



**Types:**

- Jet Nozzle (Model: JN 250)
- Net Nozzle 1 Ellement (Model: JN 250-1)
- Net Nozzle 2 Ellements (Model: JN 250-2)
- Net Nozzle 3 Ellements (Model: JN 250-3)
- Net Nozzle 4 Ellements (Model: JN 250-4)

**Description:**

- This type of nozzles are designed for halls with high ceiling

**Applications:**

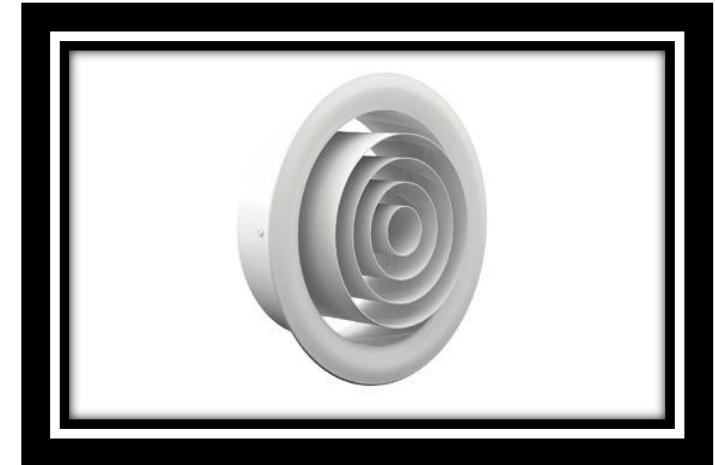
- Industrial environments, halls , salons stadiums
- Ceiling Height more than 7 meters

**Installation:**

- On ceiling or wall or exposed ducts

**Properties:**

- Air distribution In the form of centralized with ability to adjustment
- Customized arrangement in box In one and two and three and four elements.
- Aeration capability up to 8000 ft. per minute
- Material: Aluminum
- With square and round frame



### Types:

- Square fresh air grille (Model: FAFRA)
- Round rain barrier fresh air - grille Shape (Model: RB AF1)
- Round rain barrier fresh air - Egg Crate Shape (Model: RB AF2)
- ABS rain barrier fresh air grille (Model: C SMART)
- ABS weight louver (Model: L SMART)

### Applications:

- At the end of the ventilation path
- At the end of the pipe of kitchen hood at the begining of the fresh air suction routes.

### Properties:

- Low pressure drop to get the highest flow rate.
- Rain barrier.
- Prevent the infiltrate of insects and birds.
- Rustproof ABS rain barrier fresh air grille
- Color variation.
- Aesthetics in new design.
- The best design for supply air and exhaust air of ventilation.
- Easy and functional installation for wall and air duct.
- Produced from ABS plastic.
- Easy maintenance.
- Suitable for outdoor space and air circulation. ABS weight louver
- Color variation.
- Aesthetics in new design.
- The best design for supply air and exhaust air of ventilation.
- Easy and functional installation for wall and air duct.
- Produced from ABS plastic.
- Easy maintenance.
- Balancing damper to provide proper airflow at appropriate pressure level.
- Provides One-way air flow from the inside building to out building.



*LOUVERS*  
TOONEN

### Description:

*louver is a ventilation product that allows air to pass through it while keeping out unwanted elements such as water, dirt, and debris.*

*numbers of fixed blades (that do not close) mounted in a frame can provide this functionality.*

### Applications:

*- Fresh air intake for spaces where equipment such as air ducts or diesel generators works.*

### Properties:

- These Louvers are with fixed horizontal Z blades*
- Material: Aluminium Profile and Sheet Or Iron Sheet Or Stainless Steel*
- Preventing rain snow penetration into the building*
- Possibility to install a bird screen*
- High strength Due to the shape of the blades the high thickness of the sheet Intake and Exhaust Acoustic Louver*

### Description:

*Acoustical louvers utilize louver blades with a sound absorbent material to reduce infiltrating or escaping noise levels. These louvers are made of aluminum or steel and come in a variety of size.*

*They are commonly seen in office buildings, condominiums, and public buildings and can are sometimes specified when sound attenuators cannot be installed.*

### Applications :

- In places where transfer air is accompanied by unauthorized sounds*
- Ability to installed in intake and exhaust route*
- Best option for fresh air entrance in fan rooms and diesel generators*
- Possibility to reduce of sound in different frequency up to 20 dB*

### Advantages :

- The use of rockwool insulation without the possibility of fungus and decay*
- Cover fabric to prevent the release of airborne particles*
- Heat resistant to 250 ° C for one hour*
- High and suitable free area*
- Aerodynamic shape suitable for passing air Installation : on the wall, door or window of the building*

### Properties :

- Material: Aluminium Profile & Sheet Or Iron Sheet Or Stainless Steel*
- Preventing rain and snow penetration into the building*
- Possibility to install a bird screen*
- High strength Due to the shape of the blades and the high thickness of the sheet.*



**Description:**

*This louvers are used for connecting between two places in order to provide the possibility of air flow from one places to another.*

*In some cases that fresh air is not injected into a place and the negative pressure caused by the exhaust or return of the air must be compensated by intake air from the surrounding rooms, using these grilles on doors, partitions or barrier walls between two places , Door louvers work based on the pressure differential between the two places and the air flows from a place with higher pressure to lower pressure.*

**Applications:**

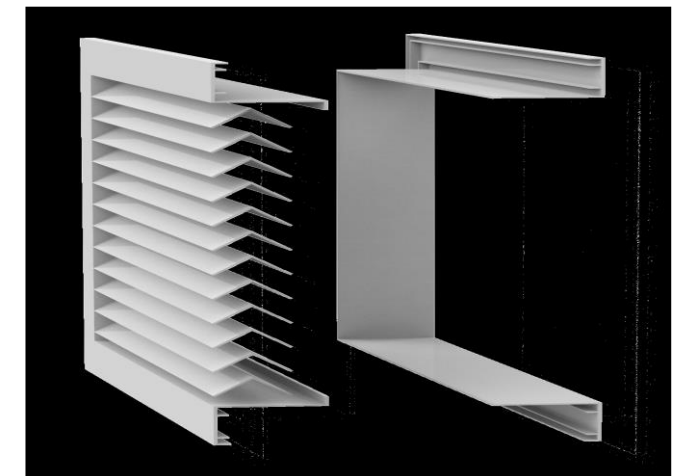
*- Door Louvers with sight-proof chevron blades are easy to install, attractive in design and are suitable for plastic laminated, wood and hollow metal doors.*

**Installation:**

*- On the door of the place used*

**Properties:**

- With an extra frame for uniformed view of the grille on both sides*
- Adjustable depth from 3.5 to 5 cm*
- Low Pressure drop due to blades shape*
- No visibility Inside the installation place*
- Material: Aluminium profile or stainless steel*





# *VOLUME CONTROL DAMPERS*

**Description:**

Volume control dampers are designed for regulation of airflow pressure in ventilation ducts in two types of manual and motorized.

The shape of these products is such that they have to be made for resists against corrosion rusting.

**Applications :**

Construction, industrial, power plant, oil gas petrochemicals, transit tunnels and metro, hospital , clean room and etc.

**Properties:**

- Material: galvanized sheet and aluminum and carbon steel and stainless steel
- Available with thicknesses of sheets from 0.5 to 10 mm
- Available in two types of manual and motorized
- Available with Parallel and opposed action blade
- Available without limits in different sizes (For dimensions length of greater than 150 cm or height greater than 250 cm are made in two section)
- Frame (Flange): The standard width of the flange is 40 mm
- Ability to build with Requested flange width

**Manual Models:**

- With Parallel blade (MASQPDTV)
- With opposed blade (MASQODTV)

**Motorized Models:**

- With Parallel blade (MOSQPDTV)
- With opposed blade (MOSQODTV)



## Volume Control Dampers

### Types :

- Square Volume Control Damper With Triple V Blade
- Round Volume Control Damper

### Description :

Volume control dampers are designed for regulation of airflow pressure in ventilation ducts in two types of manual and motorized. these products are designed to resist against corrosion and rusting.

### Applications :

Construction, industrial, power plant, oil gas petrochemicals, rail metro transport, hospital, clean room and...

Square Volume Control Damper With Triple V Blade

### Properties :

- Material : galvanized sheet and aluminium and carbon steel and stainless steel
- Available with thicknesses of sheets from 0.5 to 10 mm
- Available in two types of manual or motorized type
- Available with Parallel and opposed blade
- Available without any limits in sizes (For dimensions length of greater than 150 cm or height greater than 250 cm are made in two section)
- Flange Frame: The standard width of the flange is 40 mm
- Available with Requested flange width

### Manual Models :

- With Parallel blade (MASQPDTV) - With opposed blade (MASQODTV)

### Motorized Models :

- With Parallel blade (MOSQPDTV)
- With opposed blade (MOSQODTV)

Round Volume Control Dampers

### Properties :

- Material : galvanized sheet and carbon steel and stainless steel
- Round volume Control Damper Models Ability to build in two types of single blade and multi blades
- Flange Frame: The standard width of the flange is 30 mm
- Ability to build with Requested flange width

Manual Model (MARODID)

Motorized Model (MORODID)



## Aluminum Volume Control Dampers (Gear Type)

### *Types:*

- *Manual (MASQOBAP)*
- *Motorized (MOSQOBAP)*

### *Advantages:*

*Superior design coordinated with need of air conditioning industry*

*PVC connection without Rust or Corrosion*

*With sealing rubber for creation of maximum sealing*

*Lightweight, durable, Taking advantage of 2 mm thickness aluminum profiles*

*Best option for in stallation on air handling unit and air washer in supply or return air*

### *Properties:*

- *Material: Aluminum profile*
- *Gear type*
- *With opposed blades action*
- *Suitable for all types of ducting systems, especially in cases of high humidity, needing complete sealing such as air washer and air handling unit*
- *high profile thickness for further strength*
- *Ability to install of sealing Strip for minimum leakage*
- *Smoath operation due to gear mechanism*
- *Available in two types of manual motorized*



### Types:

- Fusible fire damper (FUFDTV)
- Fusible fire damper with Springs and Ball Bearing (FUSFD)
- Motorized fire damper (MOFITV)
- Curtain fire damper (SHUFD)

### Description :

Fire dampers are devices designed to impede the spread of fire through ducts , walls, floors and partitions

#### Applications:

- When needed to run a fire scenario for separate operation Smoke and fire dampers
- When connecting fire damper to control room's fire control boards

### Advantages :

- Motor control on the air ducts between two zones of fire
- Special sealing
- fire resistance to 250 degree of centigrade in three ranges of 45 minutes , 1.5 , 3 h
- Fire status declaration and Damper closure in three position

1- Electric command from central command board

2- Electrical command from thermal element installed in duct, based on internal air temperature of duct reaching 70 degrees centigrade

3- breaking off the main electricity flow of electrical actuator due to any reason (such as Burning power cables) and Damper closure by mechanical spring return

### Properties :

- Material : galvanized sheet and carbon steel and stainless steel
- Available in two types of single skin blade and double skin airfoil blade
- Available with thermal fuse Made by US ELSIE company with UL certificate
- Available accordance to UL555 & UL555S standard
- Available with round collar
- Flange Frame: The standard width of the flange is 40 mm
- Available with Requested flange width



# *Projects*





Pars Hotel, Iransazeh Company, Mashhad



Sharin Tower (Sama Hotel) Mashhad





Mashhad White Tower

Arman Mashhad Commercial Complex







Shahid Hasheminejad Hospital, Mashhad



Mashhad Center Future Office Commercial Project





Aban Hotel in Mashhad

Mashhad University of Medical Sciences





Mashhad Armitage Residential Tower



Mehr Hospital of Mashhad





Emperor Hotel of Mashhad





Qasr Hotel (1) Mashhad

Ferdowsi Passage (2) Mashhad







Mehr Golbahar Housing Khorasan Razavi



Gonabad University of Medical Sciences





Bojnourd Hospital



Pardisan Hotel in Mashhad





Minoo Hotel Mashhad



Abadgaran Iran Tourism Complex, Mashhad





Omid Commercial Complex (Northeast Housing)



Imam Ali Hotel, Najaf Ashraf





Sepehr Koohsangi Complex



Charity of Dr. Khatib, Mashhad



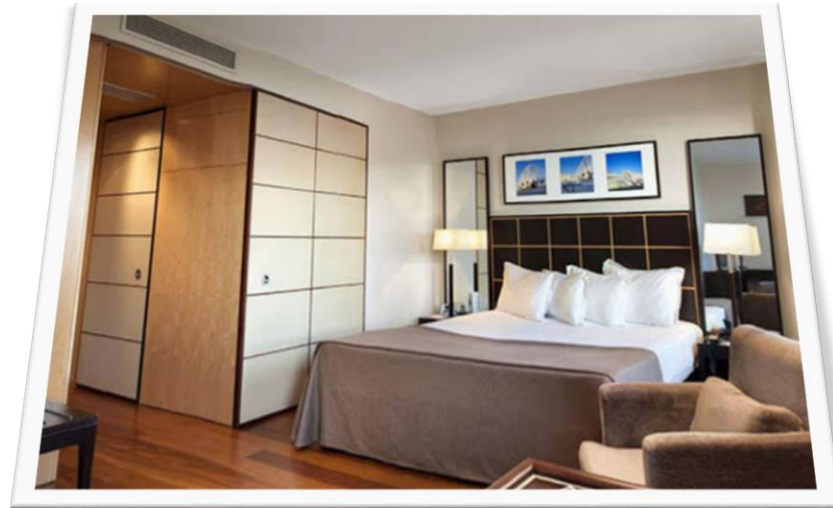
Shahid Hasheminejad International Airport

# Other projects:



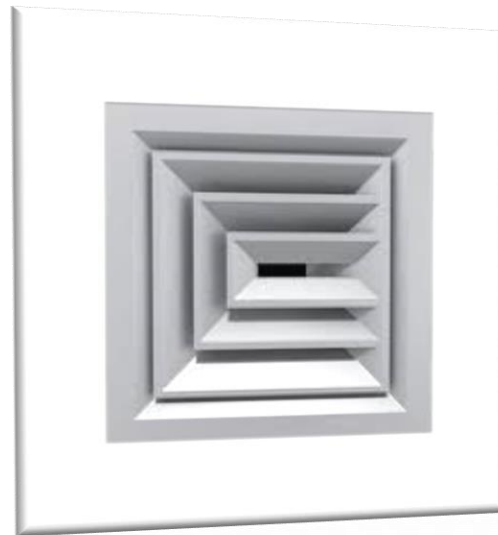


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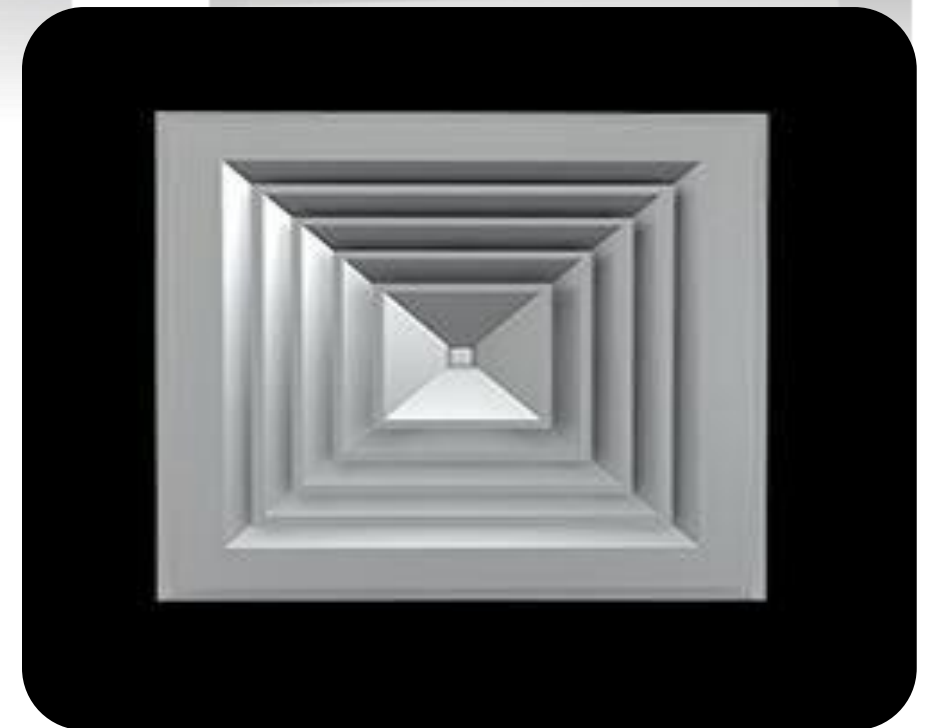
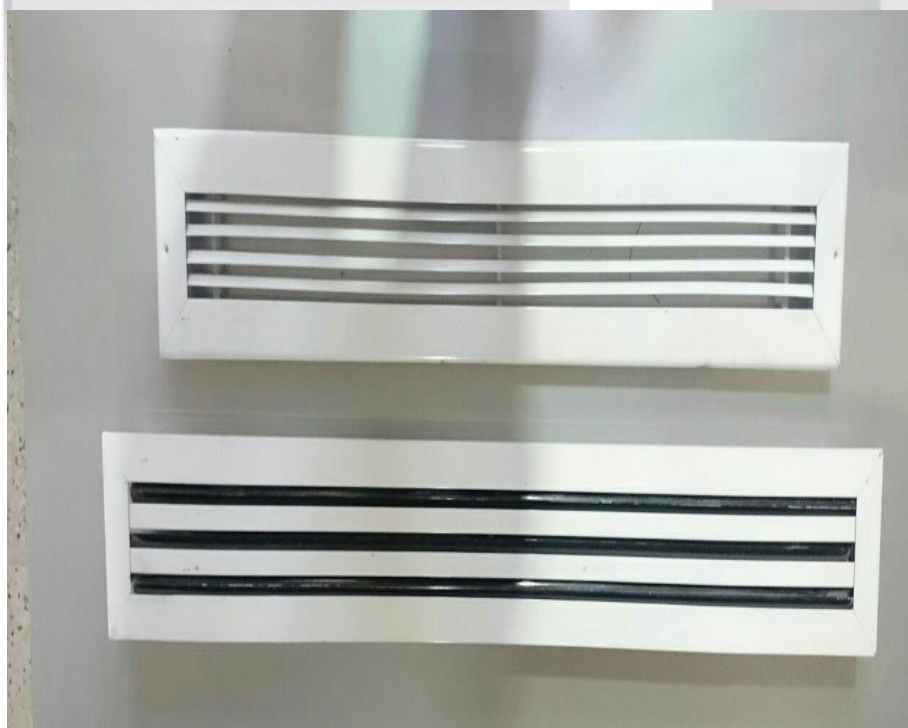
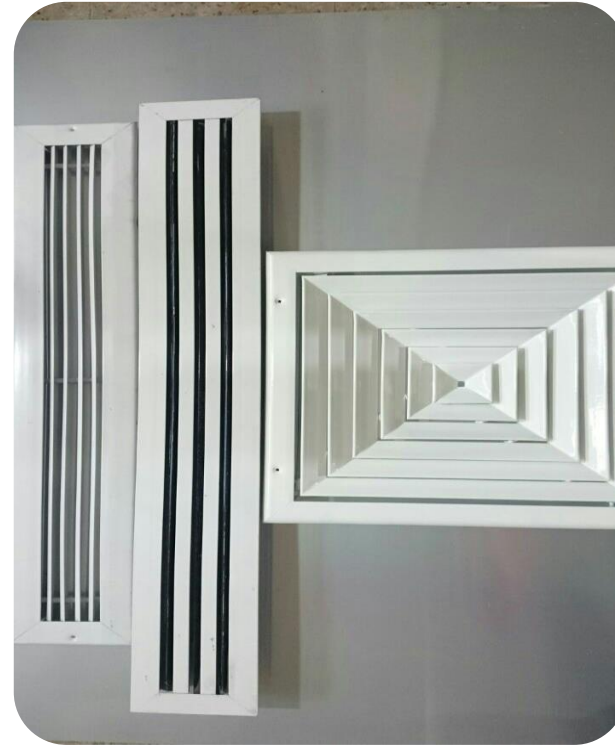
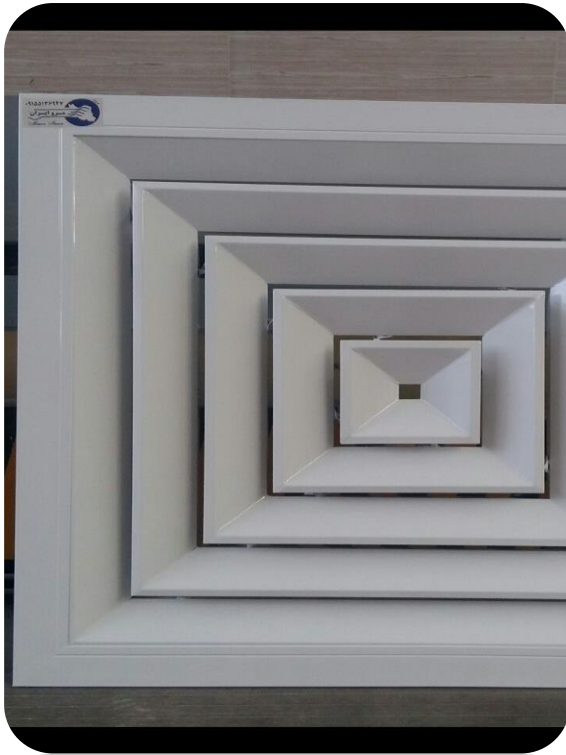




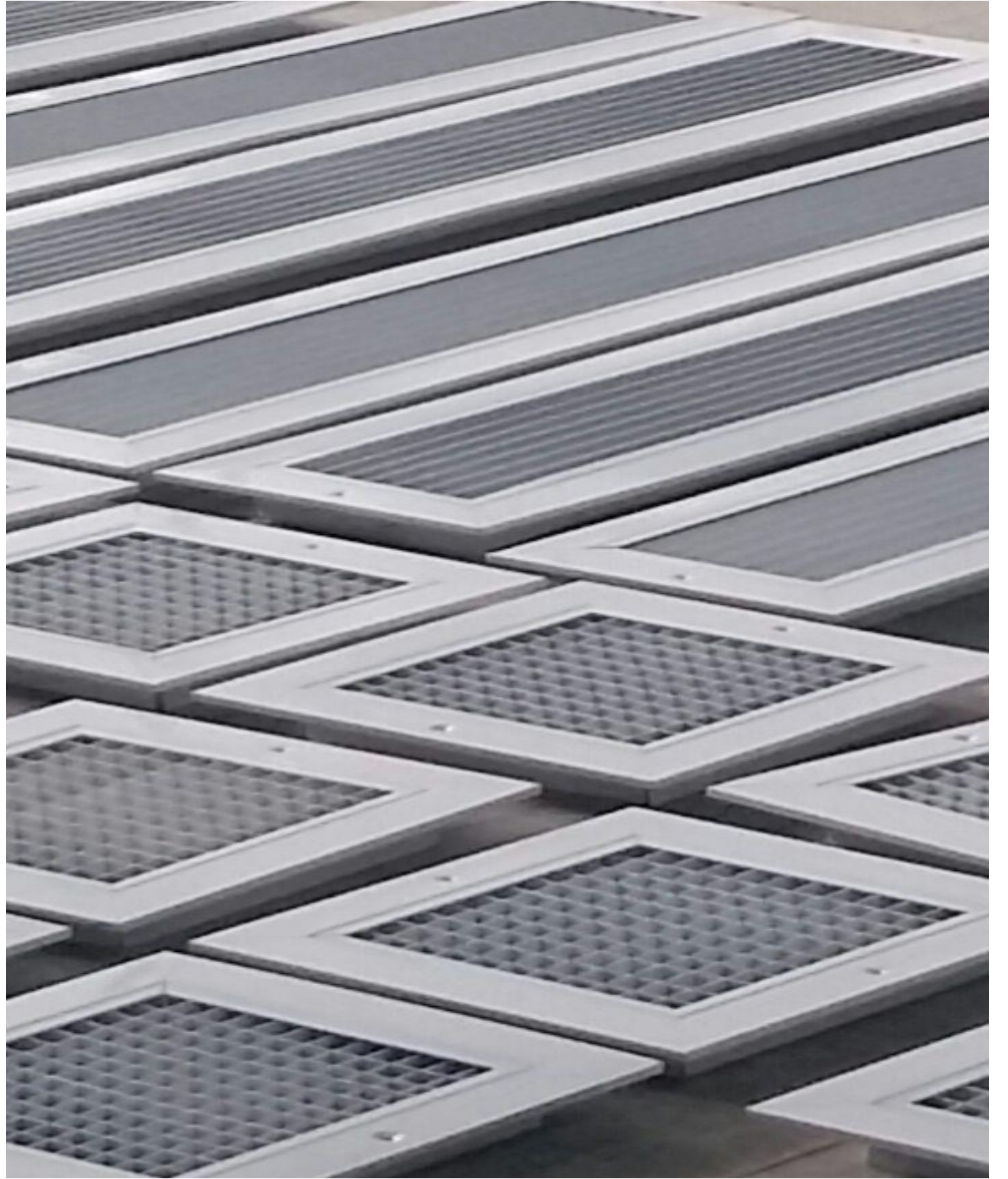
































Novin Aria Gohare MarvIranian Company

Address: Mashhad, Resalat St., Imam Reza St., Alley 3. No. 9

Management: Mohammad Kazem Marvi

Mobile: 09155136947- 09155977853