

ANFAL **CEILING SYSTEM**



ANFAL COMPANY

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kingdom of Saudi Arabia

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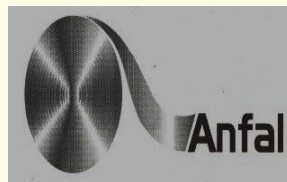
www.saudianfal.com



INTRODUCTION:

Anfal Company for automatic doors and systems was established in 1987. We have grown from a single product company (i.e., Automatic doors) into a multi-products company catering to the global construction industry. The factory is having advanced high-tech computerized numerically controlled manufacturing equipment's. The most important factories are:

1. Anfal Hollow Metal Doors.
2. Anfal Hardware Section.
3. Anfal Ceiling System.
4. Sandwich Panel.
5. Anfal Engineering Products.
6. Anfal Automatic Doors.
7. Coil Coating Line.



Saudi Anfal Industrial Complex

Quality policy

ANFAL industrial complex is one of the largest manufacturers of variable engineering products in the Kingdom of Saudi Arabia and it manufactures: (hollow metal doors, fire rated doors, road block, ceiling system, sandwich panels, aluminum, plastic, windows, springs and many other products)

ANFAL policy is to provide customers with the highest quality of steel and steel related products and professional services that fully satisfies their needs. We will strive to achieve through a structured quality management system to comply with ISO 9001:2008 standards requirements by continually improving our process that ensures the enhancement of customer satisfaction.

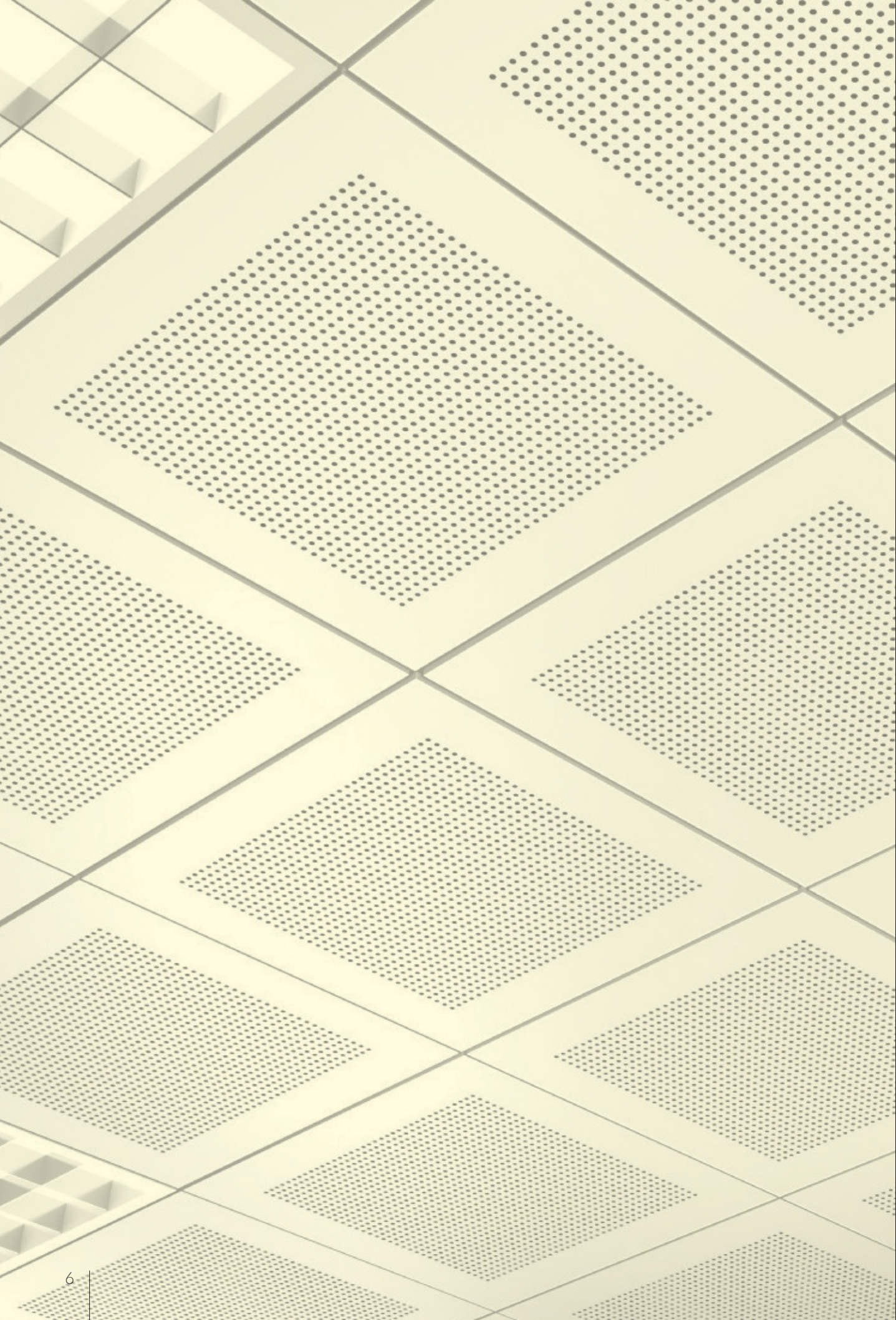
This policy is discussed with all workers, published in all working area. And updated regularly during the managements review meetings.

Quality manager

General Manager

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OUR VISION

To be the key player in manufacturing the most advanced and innovative products for construction projects in the Middle East and North Africa.

OUR MISSION

- ▶ To provide top quality products complying to the most stringent international standards.
- ▶ To serve our customer to the best professional and ethical practise to obtain their satisfaction.
- ▶ To motivate our employees and satisfy our shareholders.
- ▶ To care for our environmental responsibilities in the most effective way.

Why Choose Us

- ▶ We have years of experience in our industry.
- ▶ We are committed to excellence and believe in our products and services.
- ▶ Large enough to perform demanding project in the best possible way.
- ▶ Small enough to respond fast, flexible.

Everything From One Single Source

1. Flexible production.
2. Fast response to request for quotation.
3. All parts compatible.
4. Fast execution and Delivery.

Modern Machinery

1. Precision.
2. Optimum quality.
3. High accuracy.
4. Fast production.

Innovation Staff Team

1. High performance and efficiency.
2. New idea and approaches to solving problem.
3. receptive to new approaches.



Ongoing Products Development

1. Products with modern designs.
2. Environmentally-friendly materials.
3. Constant products improvements.

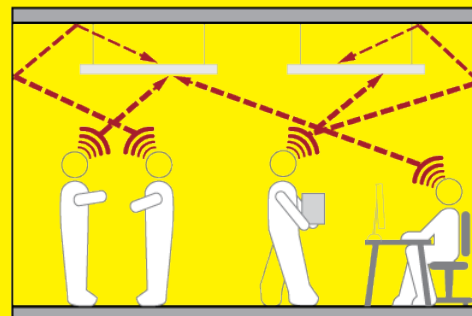
Technical Customer Service

1. Highly trained customer service officers to respond to all your product queries.



ALUMINUM Ceiling System

Aluminum ceiling is an environmentally friendly, fireproof, anti-humidity, and specific product for absorption, such as acoustic tiles and anti-bacteria tiles. Also, among our standard product range, it is easy for installation, cleaning and maintenance free. It has various designs and color combinations which are suitable for any architectural design.



3. CONCEALED/CLIP IN SYSTEM



3.1. System Description

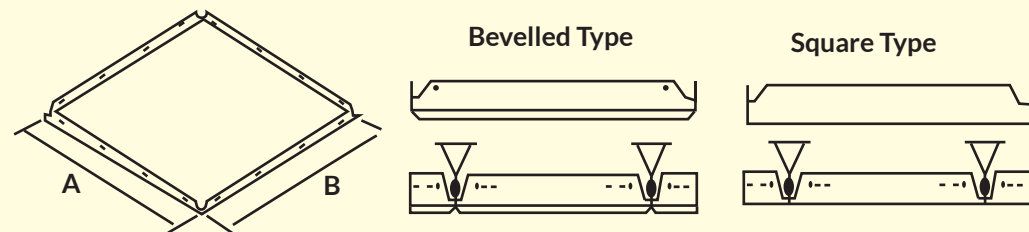
A system where the grid is not visible specifically designed for metal tiles. The system.

Comprises a "spring T" or 'A spring" that supports the tiles.

This system is fixed to and below a primary grid, usually a galvanized channel section.

(Direct suspension of the tile carrying component is possible, but not common).

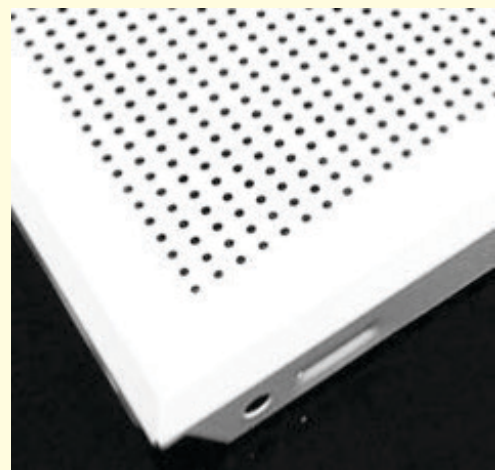
3.2 Tile Description



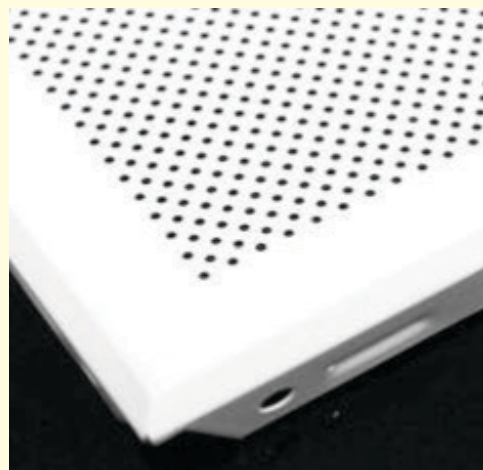
Item Code	Dimension (mm)		Material Aluminum	Thickness (mm)	Hole Diameter	Shape of hole	Height (mm)	Tile Face
	A	B						
AN - CI 1.8	600	600	3005 \ H26 3105 \ H26	0.5 - 0.6 - 0.7	1.8	Straight Staggered	20	Plain \ Perforated
AN - CI 2.3	600	600	3005 \ H26 3105 \ H26	0.5 - 0.6 - 0.7	2.3	Straight	20	

Tiles are manufactured from aluminum with square or beveled edges. The tiles are usually painted (pre-coated or powder coated) and the face maybe plain,

perforated or decorative. the holes of specified diameter can be in straight rows, on a diagonal pitch (staggered) or with different designs.

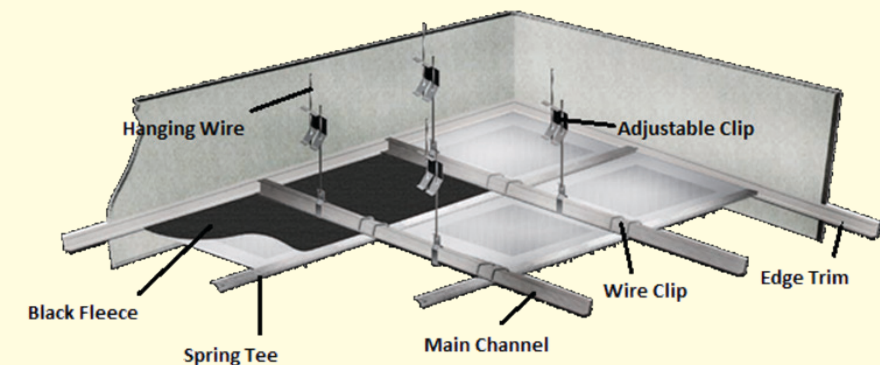


Straight

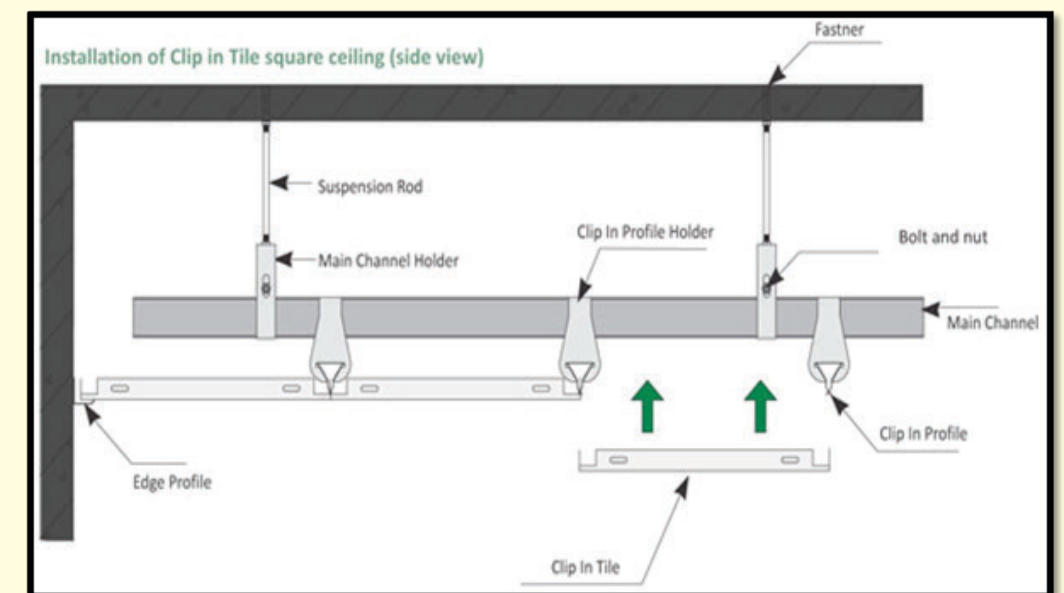


Staggered

3.3 Installation Guide Line

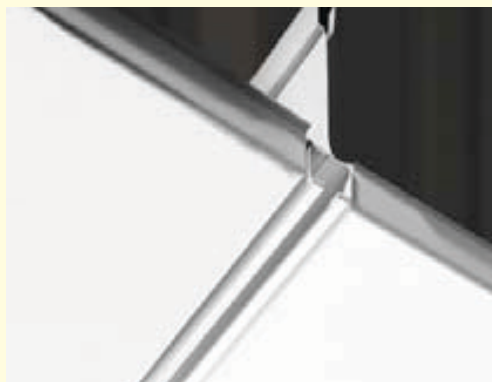
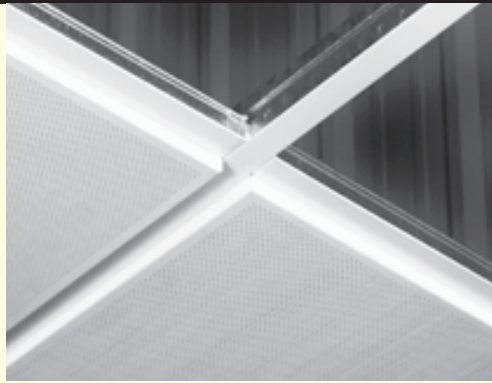


1. Level marking on wall using water level method or laser method.
2. Fix aluminum edge trim (U shape) or W angle with screws and nails.
3. Fix hanging wires 3 mm / 4 mm.
4. Use adjustable spring clips for ceiling adjustment of the hanger clip hole or channel clamp in case of threaded rod use.
5. Installation of main channel at every 1200mm and spring tee at every 600 mm connected together by steel wire clip.
6. Fix aluminum tiles in proper way taking into consideration the ceiling level & design pattern.
7. Cut apertures for lights and other services where required. cut trim for access opening for equipment if required.





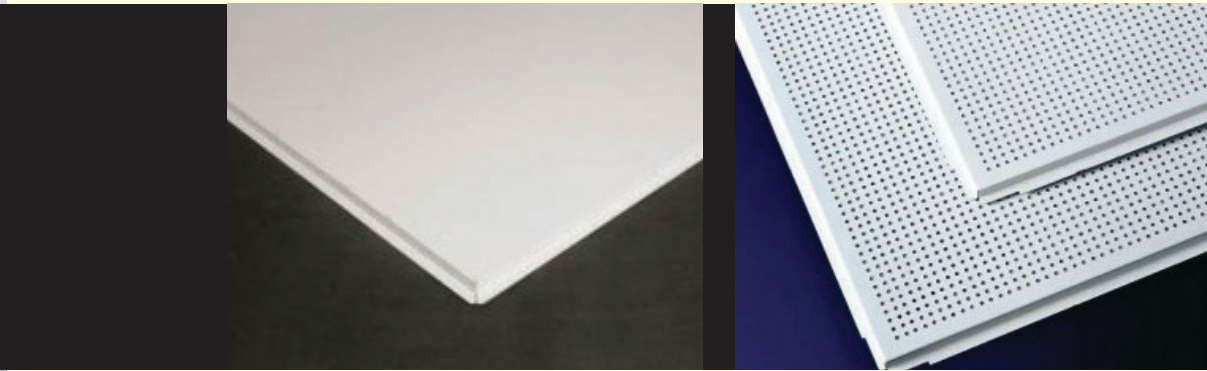
4. CONCEALED / LAY-IN SYSTEMS



4.1 Sytem Description

A system where the grid is visible in one direction only. The exposed grid sections would generally be a 24mm Teeas described under 'Exposed Grid'.

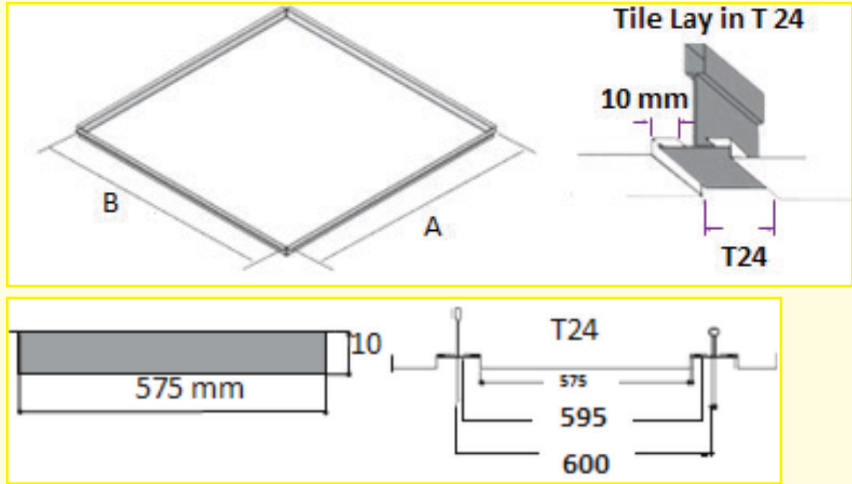
4.2 Tile Description



Tiles are manufactured from aluminum with square or beveled edges. the tiles are usually painted (Pre-coated and/or powder coated) and the face may be plain, perforated or decorative. The holes of specified diameter can be in straight rows or on a diagonal pitch (skewed) or with different designs. All these T-sections are with colored capping face (Standard colors RAL 9016 White and RAL 9010 Off-White). This system is designed to support 'planks' – tiles that are 600 x 600 mm.

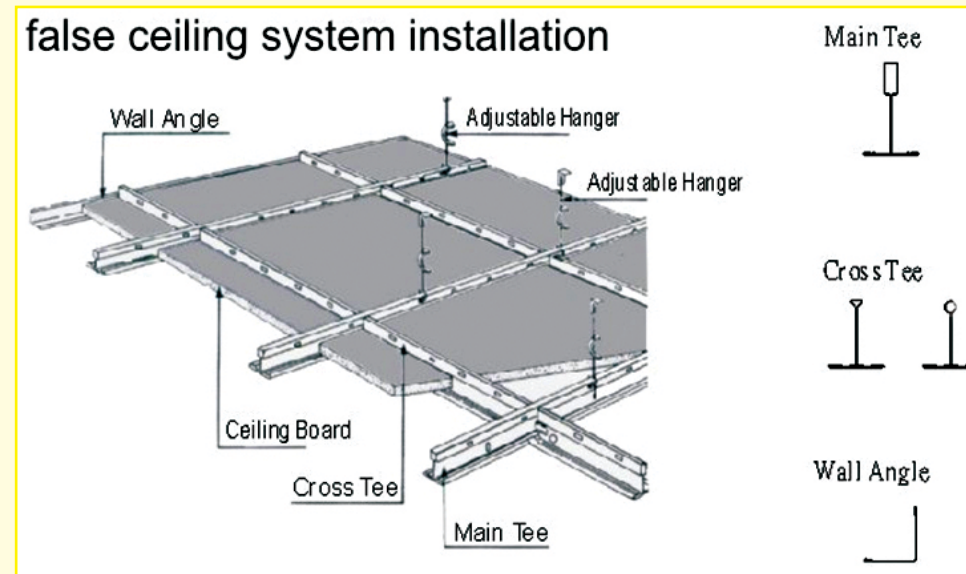
Item Code	Dimension (mm)		Material	Thickness (mm)	Hole Diameter (mm)	Height (mm)
	A	B				
AN - LI - FP	595	595	AL	0.5 - 0.6 - 0.7	(1.8 - 2.3 - 6)	10 mm
AN - LI - P	595	595	AL	0.5 - 0.6 - 0.7		15 mm
AN - LI - HP	595	595	AL	0.5 - 0.6 - 0.7		

- FP Full perforated
- PP Plain
- HP Half perforated



4.3 Installation Guide Line

1. Level marking on wall using water level method or Laser method.
2. Fix wall angle with screws and nails.
3. Mark out & commence fixing of grid suspension system using Main Tee, Cross Tee's according to the approved layout to make 600 x 600mm grid.
4. Fix suspension system with 3mm / 4mm wires.
5. Instal Lay-In 600 x 600mm tiles in a proper way taking into consideration the ceiling level and design pattern.
6. Cut apertures for lights and other services where required.

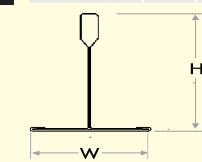


4.4 Suspension System

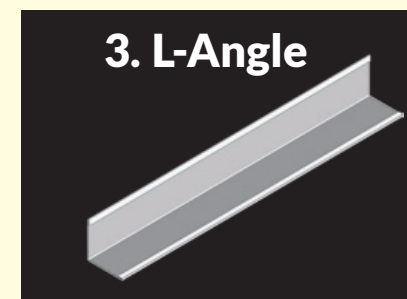
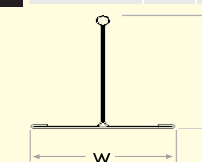
4.4.1 Exposed Ceiling System



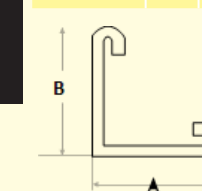
Item Code	Dimension (mm)			Length (mm)		Material
	H	W	T	Metric	Imp	
AN-MT	38	24	0.3	3600	3660	PPGI/GI
AN-MT	32	24	0.3	3600	3660	PPGI/GI



Item Code	Dimension (mm)			Length (mm)		Material
	H	W	T	Metric	Imp	
AN-CT 120	26	24	0.3	1200	1220	PPGI/GI
AN-CT 60	26	24	0.3	600	620	PPGI/GI



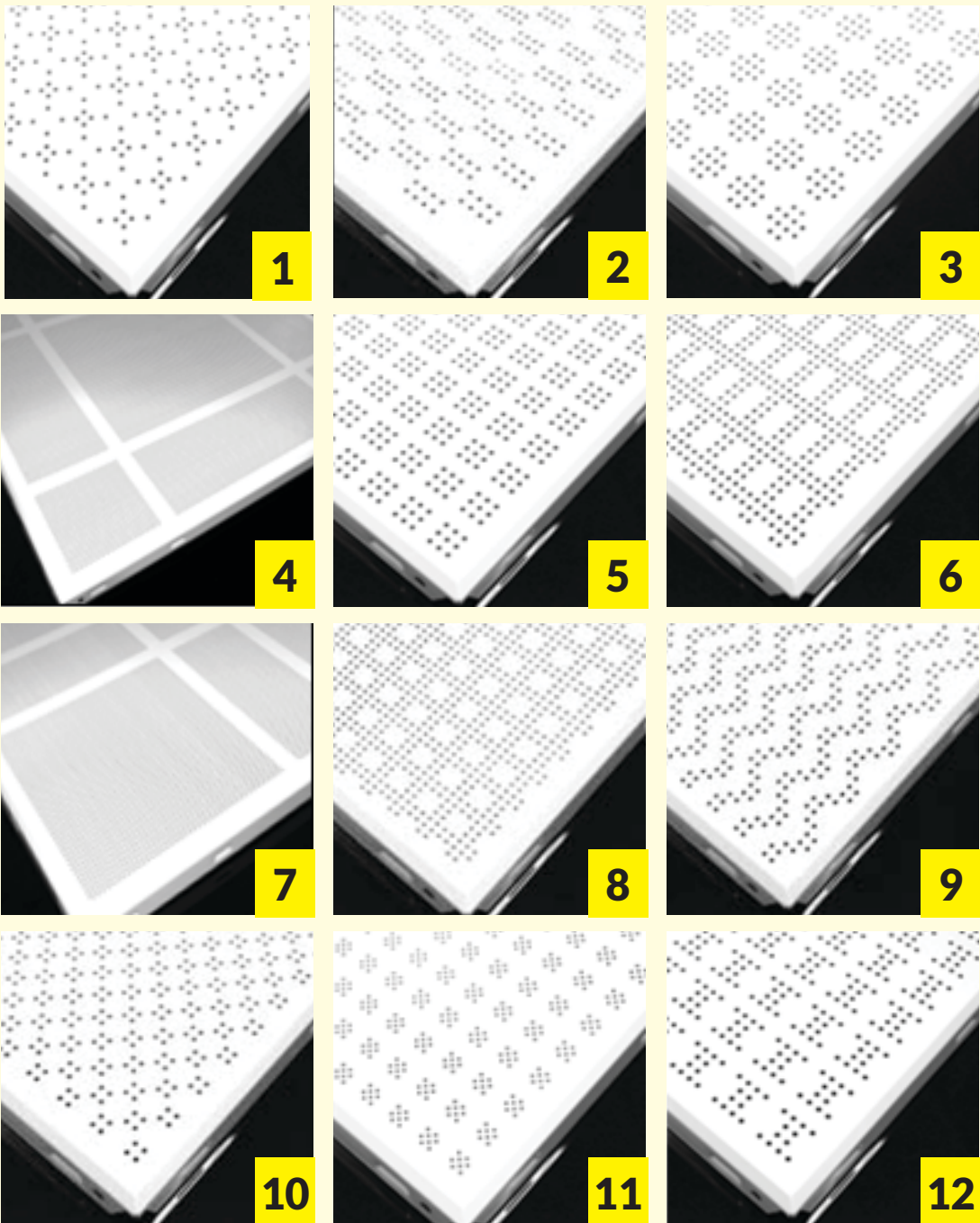
Item Code	Dimension (mm)			Length (mm)	Material
	A	B	T		
AN-LA	24	24	0.4	3600	PPGI/GI



AN-MT: maintee runner
AN-CT: crosstee runner
AN-LA: L angle

PPGI: pre painted galvanized
GI: galvanized

5. TYPE OF CEILING TILES



6. C-STRIP SYSTEM



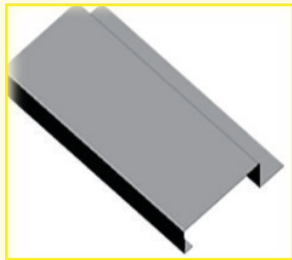
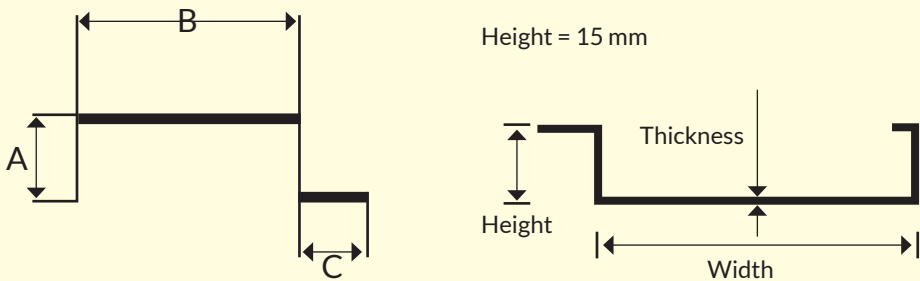
6.1 System Discription

It is the best ideal choice for material decorations in airport, subway, shopping mall, advanced office building and household kitchen.

Linear ceiling system can be divided into different types according to the strip panel design.

The strip panel can be supplied on any site measurement which provides the perfect flexibility.

The Strip panel posses many colors that will provide designers limitless space of imagination.



Item Code	Dimension (mm)			Length (meter)	Material
	A	B	C		
AN-CS 100	15	80	25	1 - 12	PPAL
AN-CS 200	15	180	25	1 - 12	PPAL
AN-CS 300	15	280	25	1 - 12	PPAL

6.2 System Accessories

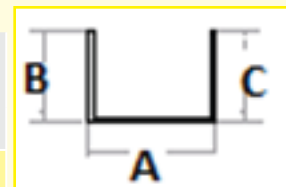


6.2.1 C-Strip Carrier

The mounting rail is made of GI galvanized steel thickness 0.6 mm and with maximum length 4000 mm.

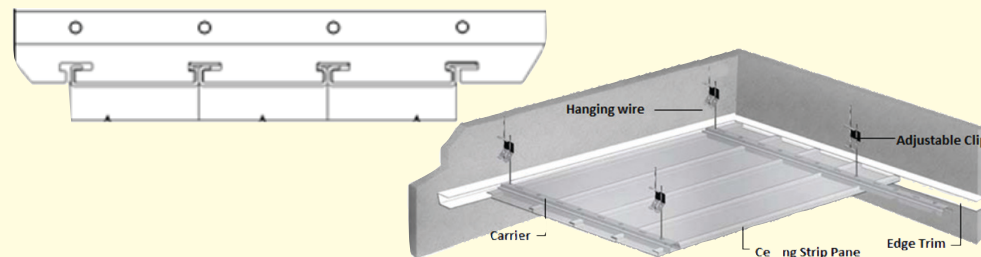
6.2.2 Aluminum Edge Trim

Item Code	Dimension (mm)			thickness (mm)	Length (mm)	Material
	A	B	C			
U-Shape	20	15	15	0.38	4000	PPAL



It is made of aluminum thickness 0.38 mm and available in all colors and with maximum length 4000 mm.

6.3. Installation Guide Line



1. Level marking on wall using water level or laser method.
2. Fix on the wall an edge cover U shaped (aluminum edge trim 20 x 15 x 15mm) same color of strip panel with screws and nails
3. Fix hanging wires 3mm / 4mm, or channel support either threaded rod from soffit of slab with ceiling clip and cartridge or screws or dbz anchor.
4. Use adjustable spring clips for ceiling adjustment or channel clamp in case of threaded rod use.
5. Installation of main carrier at every 1000mm or 1200mm.
6. Fix strip ceiling in proper way taking into consideration the ceiling level and strip form (with groove or without) and the width of the strip.
7. Cut apertures for lights and other services where required. cut trim for access opening for equipment's, if required.

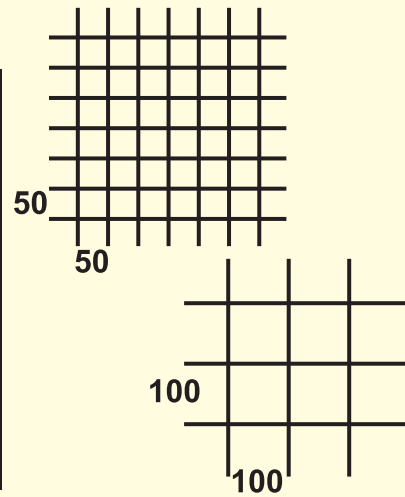
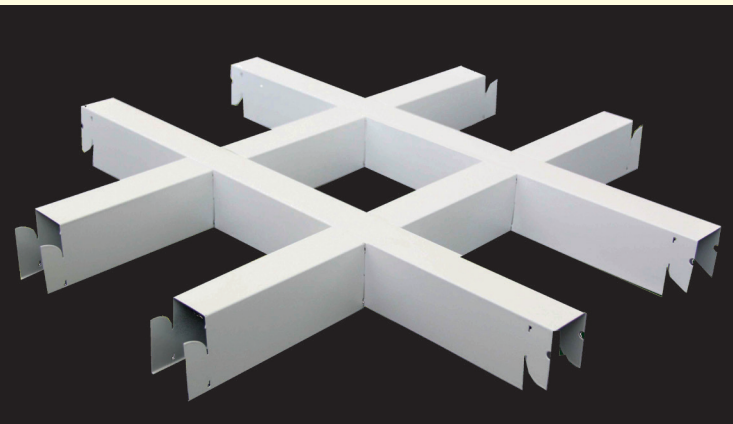


7. OPEN CELL

This system is used for decorative and functional purposes. it also enhances the use of wide variety of lighting systems because of its high flexibility to add or remove any part of it without affecting the overall system.

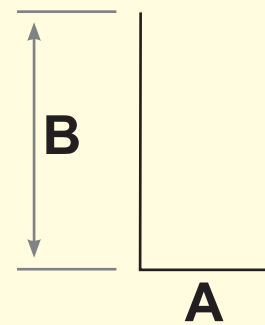
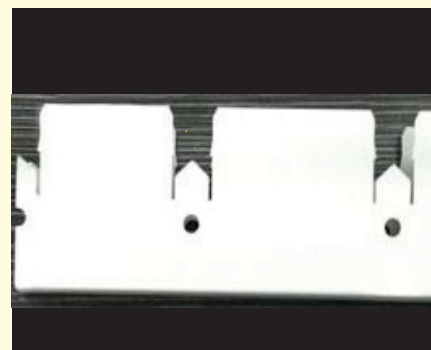
The aluminum profile U-shape blades, can be assembled in different methods to give different cell sizes.

7.1. Open Cell Panel



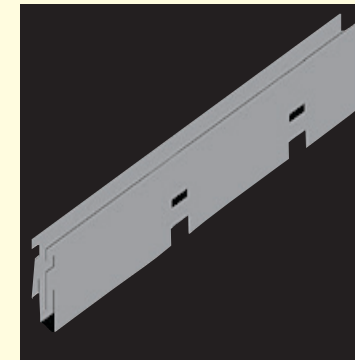
Item Code	Panel Size (mm)	Cell size (mm)	Thickness (mm)	Material
AN-OCO-10-50	600X600	50X50	0.4	PPAI
AN-OCE-10-50	600X1200			
AN-OCO-10-100	600X600	100X100	0.4	PPAI
AN-OCE-10-100	600X1200			
AN-OCO-24-50	600X600	50X50	0.4	PPAI
AN-OCE-24-50	600X1200			
AN-OCO-24-100	600X600	100X100	0.4	PPAI
AN-OCE-24-100	600X1200			

7.2. Open Cell Suspension

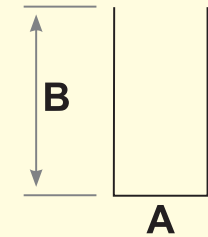


Item Code	Dimension (mm)		Thickness (mm)	Length (mm)	Material
	A	B			
AN-OCS-CT-0.6-10	10	40	0.4	600	PPAL
AN-OCS-CT-1.2-10	10	40	0.4	1200	PPAL
AN-OCS-MT-1.8-10	10	40	0.4	1800	PPAL

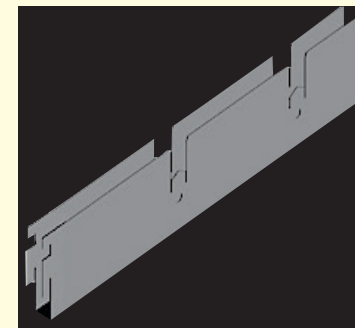
7.2.1. Open Cell Blade Female



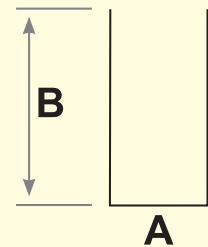
Item Code	Dimension (mm)		Thickness (mm)	Length (mm)	Material
	A	B			
AN-OC-BF-10	10	40	0.4	600	PPAL
AN-OC-BF-24	24	40	0.4	600	PPAL



7.2.2. Open Cell Blade Male



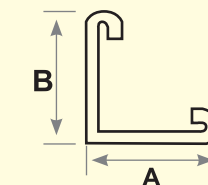
Item Code	Dimension (mm)		Thickness (mm)	Length (mm)	Material
	A	B			
AN-OC-BM 0.6-10	10	40	0.4	600	PPAL
AN-OC-BM 1.2-10	10	40	0.4	1200	PPAL
AN-OC-BM 1.8-10	10	40	0.4	1800	PPAL



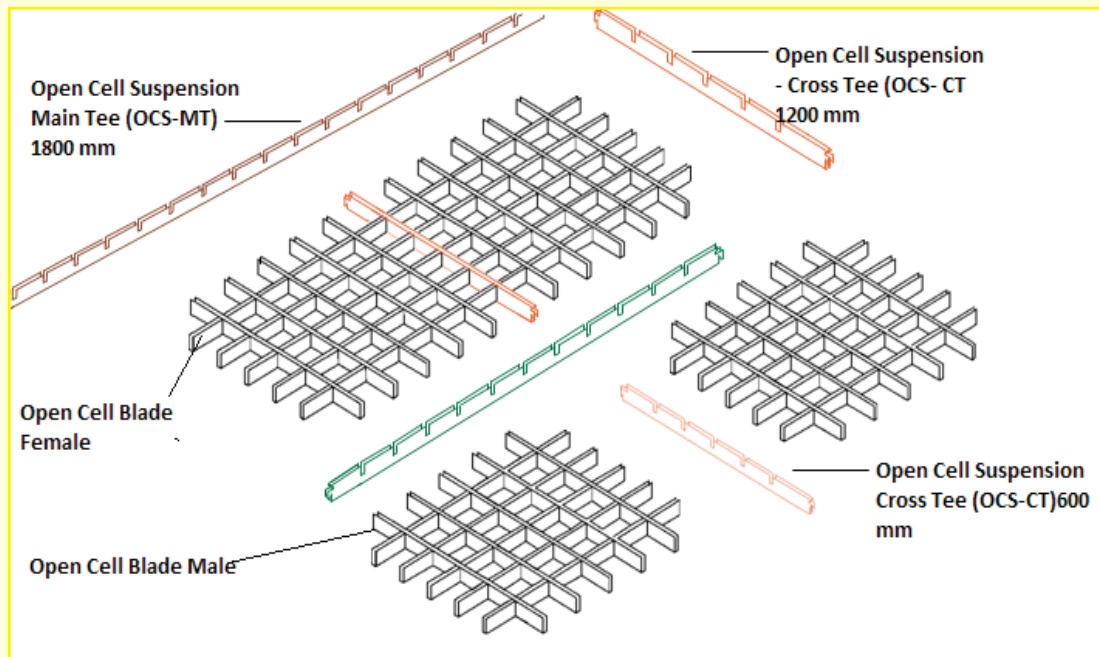
7.2.3. Open Cell Angle



Item Code	Dimension (mm)		Thickness (mm)	Length (mm)	Material
	A	B			
OCA 1.8-10	24	24	0.4	3000	PPGI



7.3. Installation Guide Line

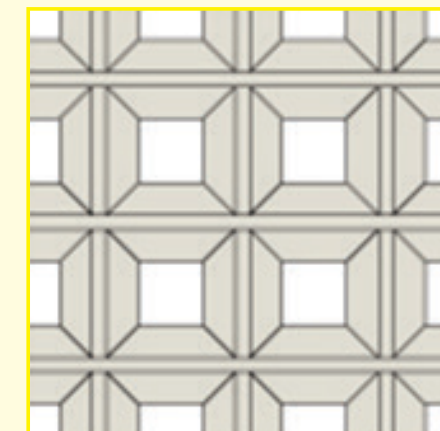


1. Level marking on walls using water level or laser method.
2. Fix wall angle with screws and nails.
3. Mark out & commence fixing of grid suspension system using:
 - ▶ OCS 1800 mm to be installed at 1200 mm distance between each other.
 - ▶ OCS 1200 mm to cross the OCS 1800 on 600mm distance.
 - ▶ OCS 600mm to cross the OCS 1200 on 600mm distance.
4. Fixing of suspension system with 3mm / 4mm wires.
5. Installation of the blade M (Male Type) on 100 mm distance or 50mm with the intersection of the same installation distance of the Blade F (Female Type) in order to create the cell size form.

7.3.1. Open cell pyramid :



Item Code	Panel Size (mm)	Cell size (mm)	Thickness (mm)	Material
AN-OC-P 10-50	600X600 600X1200	50X50	0.4	PPAI
AN-OC-P 10-100	600X600 600X1200	100X100	0.4	PPAI
AN-OC-P 24-50	600X600 600X1200	50X50	0.4	PPAI
AN-OC-P 24-100	600X600 600X1200	100X100	0.4	PPAI



8. MATERIAL SPECIFICATION

Substrate Material Description (GI)	
Substrate Material	GI
Coating Designation (g\m2)	HDGI - G40
Yield Strength (MPA)	205 - 410
ASTM Reference Standards	ASTM A653
Thickness (mm)	0.3 up to 0.6(±5 %) mm

Substrate material description (AL)	
Substrate Material	aluminum
Alloy	3005 \ 3105
Temper	H26
ASTM Reference Standards	ASTM B209 M
Thickness (mm)	0.3 up to 0.6 (±5 %) mm

9. COATING SPECIFICATION

Pre- Painted Material Description	
top side paint type	polyester paint
bottom side paint type	primer paint

Pre- Painted Mechanical Properties			
Test Parameter	Unit	ASTM Ref. Standard	Range
T - bend	-	D 4145	0T - 3T
impact resistance	joules	D 2794	15
solvent resistance	double rub	D 5402	>100
pencil hardness	-	D 3363	2H
cross cut	% retention	D 3359	100 % retention
specular gloss (per color shade)	At 60°	D 523	10_20
color shade	ΔE max	D 2244	1
dry film thickness	microns	D 5796	primer(7-5), Top coat (15-12)
dry film thickness	microns	D 5796	chromate

10.AVAILABLE COLORS

► Standard available colors: (standard colors RAL 9016 White and RAL 9010 off white) – beige.

11.PRODUCT CERTIFICATE

1. Humidity resistance.
2. Light reflection.
3. Fire performance.
4. Sound absorption.



BeckryPol 1000 – Standard Polyester System

Date: 18/022016/

TO WHOMSOEVER IT MAY CONCERN

Sir,

We hereby confirm that M/S. Saudi Anfal Factory, P.O. Box. 87567 based in Riyadh, Kingdom of Saudi Arabia is approved applicator of BeckryPol 1000 - Polyester paint system supplied by Becker Industrial Coatings.

BeckryPol 1000 is a polyester top coat principally designated for cladding and roofing market. This quality ensures very good outdoor durability and an excellent surface hardness. Our BeckryPol1000 coating system is offering with Beckers recommended primer, a unique combination of corrosion resistance and outdoor performance.

BeckryPol 1000 Polyester RAL 9010 (2 coat systems) is in compliance with below specifications and properties:

- Humidity Resistance > 90%
- Light Reflectance > 90%
- Fire Performance Class Rating -1 as per BS 476.

Regards,

Mohammed Akhtar
Sales Manager - ME



BeckrySheild Polyester 300 – Anti Bacterial Paint System

Date: 17/022016

TO WHOMSOEVER IT MAY CONCERN

r,
e hereby confirm that M/S. Saudi Anfal Factory, P.O. Box. 87567 based in Riyadh, Kingdom of Saudi Arabia is approved applicator of PE Anti-Bacterial paint system supplied by Becker Industrial Coatings.

BeckrySheild Polyester 300 paint inherits the Anti-Bacterial properties and works against common bacteria.

Regards,

Mohammed Akhtar
Sales Manager - ME

12. ACOUSTICAL TILES

DECI-TEX™ P44FR & P44 Heat Reactive Adhesive Coated Spun-Bonded Acoustic Fabric for perforated tiles & panels

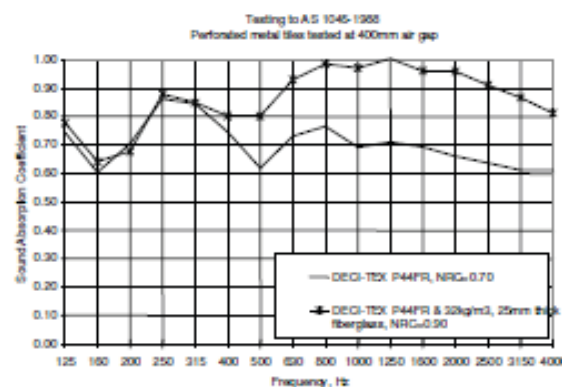
DECI-TEX P44FR is a Non-Woven Acoustic Textile coated with a heat reactive adhesive.

The non-woven fabric was selected to provide excellent mechanical strength, reduced translucency and good permeability.

It was predominantly designed for installation behind perforated panels to provide a good sound absorption, elegant appearance and to prevent fibre release from bulk materials like polyester blanket, Rockwool or fibreglass, which might be used for further boosting of the acoustic properties.

To achieve a good bond, preheating only to 80°C and gentle pressure are required. Therefore messy adhesive-spraying processes can be eliminated.

The material comes in black although grey or white colours can be available (subject to the ordered volume).



FEATURES

- NRC ≥ 0.70 for most commonly used perforated patterns
- Easy installation – heat reactive adhesive requires only 80°C (substrate also MUST be preheated)
- Low flammability and smoke index, tested to AS 1530.3 - 0, 0, 0, 3
- Flammability to BS 476, part 6 – Fire Propagation Index 5.9
- Flammability to BS 476 part 7 – Class 1
- Lightweight – 155gsm
- Excellent mechanical properties

BENEFITS

- Unique & adequate solution for most acoustic installations
- Very easy installation
- Clean, light and safe to handle
- Fixed in place not 'floating'

APPLICATIONS

- Behind perforated panels in
 - Suspended ceilings
 - Walls
- Acoustic panels lining

PREPARATION REQUIRED

- Required temperature to reactivate adhesive - 80°C
- Gentle pressure



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CR.: 1010121