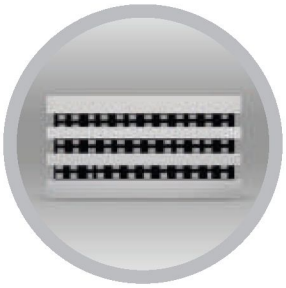
مجموعة الجنيد الصناعية

Al Junaid Indust. Group



صناعة أنظمة تكييف الهواء المركزي

AIRCONDITIONING INDUSTRIES

INTRODUCTION

- Al Junaid Industrial Group is one of the leading manufacturers for the HVAC Industry in the region. The group was established in the year 2008 with dedicated technicians using high- performance machinery Engineering service CNC Technology and to give high- quality Standards
- Al Junaid Industrial Group located in the city of Sharjah in the United Arab Emirates which gives us the advantage to be in the center of the Country for the fast distribution of our products.
- Our product offer includes Grilles & Registers, Linear bar grilles Square diffusers, Slot Diffusers, Round diffusers, Perforated diffusers, Air Louvers, Exhaust Valves, Door grilles, Nonreturn Dampers, Sand Trap Louvers, Jet diffusers, Volume control Dampers, Fire Dampers, Sound attenuators, Plenum Boxes, Access doors, G1 duct, and Pre Insulated Panel.
- Our services also includes, Installations and Maintenance work of all air conditioning units.
- Al Junaid maintains a dedicated engineering and sales support staff waiting to assist you with technical and product information and provide valuable air solutions for your project.

Mission

Guided by our vision we shall deliver high - quality, cost effective works on schedule and enhance our client's satisfaction through continuous improvement of our business practices in terms of safety, quality, services, delivery, as well as environmental protection.

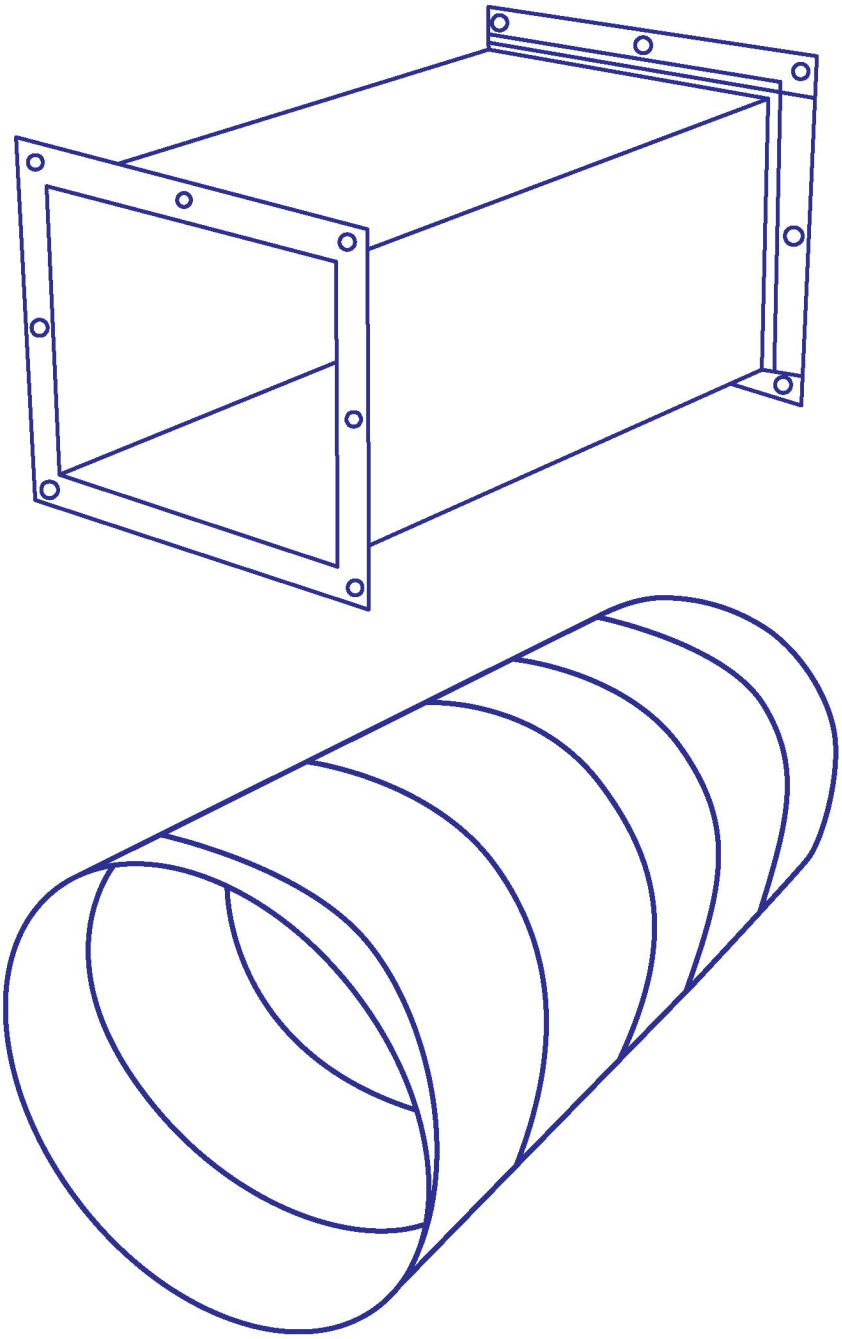
vision

To be the Leading Manufacturing of HVAC Products and Air Conditioning Industry.

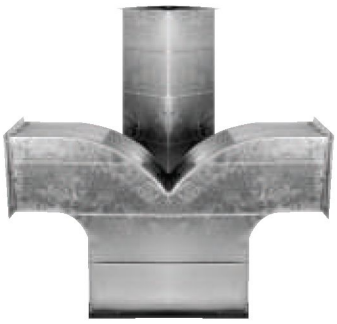
value

To provide our clients manufactured units in accordance with strict quality control standard.

Galvanized Duct



Rectangular Ductwork



Rectangular ducts are manufactured to meet the most stringent HVAC/Industrial specifications and quality standards. Rectangular GI Ducts are fabricated out of hot dipped galvanized steel sheet of lock forming quality as standard duct material. All types of duct accessories including flanges, raw ends and airtight

- Duct construction as per DW144 /SMACNA / ASHRAE standards provides superior strength, low leakage rate and vibration free products.
- Duct is fully equipped to provide customized ductwork with various materials like galvanized steel, stainless steel, aluminum and carbon steel to suit specific project requirements.
- Ducts willl be tailor-made in size as per the requirement of the project. No limitation on duct size. Any size of duct can be constructed (3Mtr and above ducts are constructed in multi panels).
- Fully Welded Industrial Grade Heavy Gauge Ductwork for Commercial Kitchens, Marine and Oil & Gas Applications with various anti corrosion, abrasive handling coatings are also available.
- Welded systems in Carbon Steel and Stainless Steel in various thicknesses and specifications are available to meet various

Spiral & Round Seamed Ductwork

Round ductwork where used has advantages of faster installation, lower costs, lower leakages, lower pressure drops and better operations. Spiral wound ductwork and fittings made to known industry standards are exceeding used on large scale projects for their particularly low leakages and self-sealing mechanisms. Round and spiral ductwork are manufactured in standard Lock forming quality Galvanized steel for ventilation ductwork and Aluminum and Stainless Steel ductwork are also available for

- Duct construction as per DW144 / SMACNA / ASHRAE standards provides superior strength, low leakage rate and vibration free products
- Spiral duct diameter varies from min of 125mm to max of 3000mm
- Individual pipe lengths available upon request and also available in aluminum and stainless steel
- Seamed pipes are made in standard lengths of 1220mm and Spiral
- pipes can be produced in up to 6000mm of lengths
  Pipes can be made in up to 12g Aluminum, 14g Galvanized Steel

Subject: Galvanized Rectangular Ductworks

RECTANGULAR DUCTWORKS CONSTRUCTION SCHEDULE

Based on SMACNA 2"WG / 500 PA Pressure Duct classification duct standard

Duct longer size mm	Thickness	Coating	Longitudinal Joint	Transverse Joint	Intermediate Reinforcement	Hole Pitch
Up to 700	0.56mm 26GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	Hemmed S Slip & Drive Cleats	None	None
701- 1000	0.70mm 24GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 20mm with corners and cleats.	None	None
1001-1200	0.90mm 22GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 20mm with corners and cleats.	None	None
1201-1400	0.90mm 22GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 20mm with corners and cleats.	20mm flanges @ 600mm centers	None
1401-2000	0.90mm 22GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 30mm with corners and cleats.	30mm flanges @ 600mm centers	None
2001-2400	1.00mm 20GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 40mm with corners and cleats.	40mm flange @ 600mm centers	None
2401-Above	1.20mm 18GA.	Z-275	Grooved corner Seam/Pittsburgh lock seam	GI Slip on flange 40mm with corners and cleats.	40mm flanges @ 600mm centers	Size 10mm dia. @150mm spacing

GALVANIZED HOT DIPPED SHEET STEEL SHALL BE AS PER ASTM A 653 (SUPERSEDES ASTM A 525/ A 527) LOCK-FORMING QUALITY- G90 (Z275- 275 gm/m²) ZINC COATING (0.90 oz/sqft nominal) ***(Jindal, India)***

Notes:

1- Above material are made of galvanized steel.

2- Transverse duct connectors are based on max. 1220mm spacing.

3- Panel stiffening shall be done by means of Z-profile Pleatings.

4- Companion angle and Duct Intermediate Reinforcement are made of galvanized steel.

5- Above ductworks are supplied in Mill finished only.

6- Duct size above 2501mm and above will supply in L-Shape (Knockdown) Form and assembled at site by others.

Client / Consultant Approval:

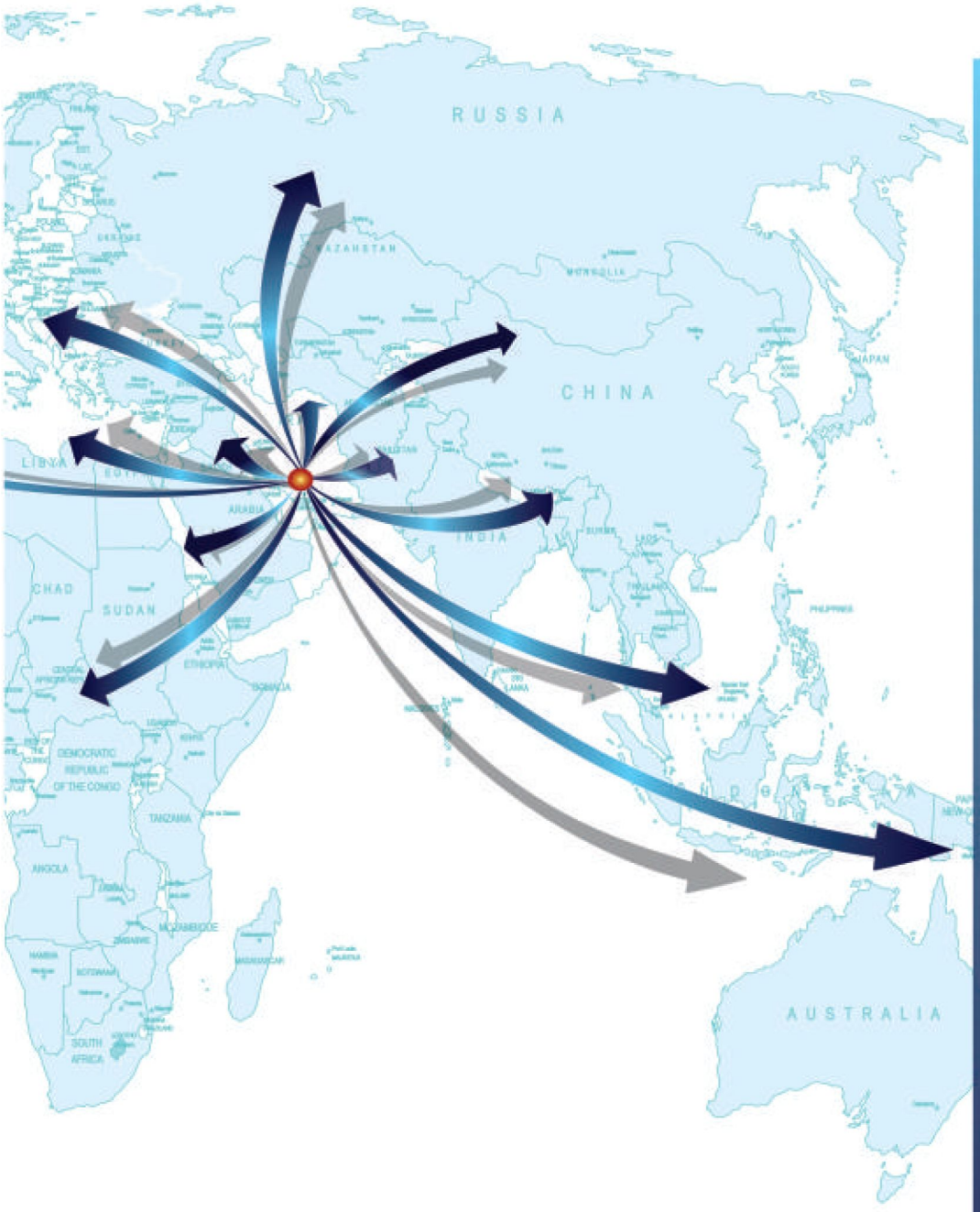
Signature: _____

Date: _____

AGIS

Al Ghurair Iron & Steel LLC

الغرير للحديد والاءستيل(ذ.م.م.)



ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification

AGIS

Al Ghurair Iron & Steel LLC (AGIS) is the first & only Flat Steel Cold Rolling & Galvanising complex in the United Arab Emirates and one of the largest producers of Galvanised Steel in the Middle East & North Africa region. It is a joint venture of the Saif Al Ghurair Group, one of the largest and well diversified business houses of UAE and Nippon Steel & Sumitomo Metal Corporation (NSSMC), Japan's largest & one of the biggest steelmakers in the world. Located in the capital city of Abu Dhabi, the 400,000TPA facility caters to the requirement of the construction, steel fabrication & other non-automotive industries primarily in the MENA region.

AGIS produces 400,000 MT per annum of Hot Dip Galvanised Coils with a thickness range of 0.20 to 2.50 mm and width upto 1250mm from its two Continuous Galvanising Lines. The production lines have been engineered & designed to cater to the requirement of the end-users in the region. Sheets and slitted coils are also offered as per customer requirement. All grades of GI – CQ, LFQ, SQ & HSLA for a wide variety of applications are produced in AGIS. It also offers Skin Passed GI and Oiled GI for some special applications.

Being located close to the seaports of Abu Dhabi & Jebel Ali makes it logistically convenient to access all parts of the world – both in containers and by break bulk. AGIS also uses the road network and systematic transport facilities to cater to the GCC markets. Consumers have the ease of getting the material delivered at their doorstep straight from the Mill, on time, every time.

PRODUCT SPECIFICATIONS

Specification	Hot Rolled Pickled & Oiled	Hot Dip Galvanised
	(HRPO)	(HDGP)
Form	Coils - Full & Slit	Coils/Strips/Sheets
Thickness (mm)	1.20 - 4.50	0.20 - 2.50
Width (mm)	800 -1300	35 -1250
Coil ID (mm)	610	508 / 610
Max. Coil Weight (MT)	25	25
Zn Coating (GSM)		90-350
Type	Stretch Leveled / Non Stretch Leveled	Tension Leveled/ Non Tension Leveled
Surface Finish		Regular / Minimized / Skin pass ed
		Regular Spangle / Minimized spangle (skin passed) /Suppressed spangle
Surface Treatment	Oiled	Cr+6/Cr+3 Passivation & Oiled/Unoiled
Applicable Standards	ASTM/JIS/EN	ASTM/JIS/EN

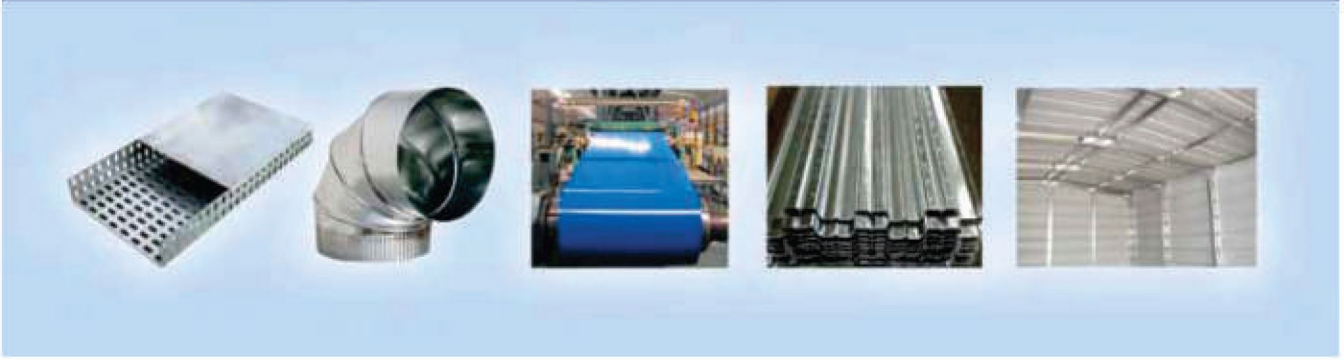
AGIS is committed to maintaining the health and safety of its employees, customers, contractors and other stakeholders, as well as to preserving the integrity of our environment. The Environment, Health and Safety Management System of AGIS has been approved by Zones Corp and also certified to ISO:14001 and OHSAS 18001 by Bureau Veritas. The Quality Management Systems of the company are also certified ISO 9001:2015 compliant by BSI. The GI Coils produced by AGIS have been EQM Certified by the Emirates Authority for Standardisation & Metrology.

HOT- DIP GALVANIZED (HDG) FLAT STEEL (Coil/Strip/Sheet)

❑ Thickness Range	• 0.20 - 2.50 mm
Width Range	• 900 - 1250 mm (Coils) • 35 - 1250 mm (Strips) • 650 - 1250 x 1200 - 4000 mm (sheets)
❑ Specifications	• ASTM A 653 / A 653 M - 15 * CS Type A, B, C *FS Type A, B * DDS Type A, B * SS Grade 33, 37, 40, 50, 55, 80 • DIN EN 10327 - 2004 / DIN EN 10346 - 2015 * DX51D, DX52D, DX53D • DIN EN 10326 - 2004 / DIN EN 10346 - 2015 * S220GD, S250GD, S280GD, S320GD, S350GD, S550GD • JIS G 3302 - 2010 * SGCC, SGCD1, SGCD2, SGC 340, SGC 400, SGC 440, SGC 490, SGC 570
❑ Type	• Tension Leveled / Non Tension Leveled
*❑ Standard Coating	• Z90 (G30), Z120 (G40), Z180 (G60), Z275 (G 90), Z350 (G115)
❑ Surface Finish	• Regular Spangle / Minimized spangle (skin passed) / Suppressed spangle
❑ Surface Treatment	• Cr+6 / Cr+3 Passivated/Non Passivated, Oiled / Unoiled

*other intermediate coatings within the range are supplied after mutual agreement

End Applications



AGIS

Milestones

2006 : AGIS Company formation
2008 : Start of Commercial Production
2009 : Structural grade of GI developed
2010 : ISO 9001 : 2008 Certification
2011 : EHSMS Certified by Zones Corp
2012 : Equity participation by Nippon Steel Corporation
2013 : EPC awarded by UAE Ministry of Enviroment & Water
2014 : ISO 14001 & OHSAS I8001 Certification
2015 : Skin pass Mill commissioned, EQM Certification
2016 : ISO 9001 : 2015 Certified
CGL 2 Commissioned

AGIS
Al Ghurair Iron & Steel LLC
الغرير للحديد والاءستيل(ذ.م.م.)

A Joint Venture of **AL GHURAIR GROUP** *and* **NIPPON STEEL & SUMITOMO METAL CORPORATION**

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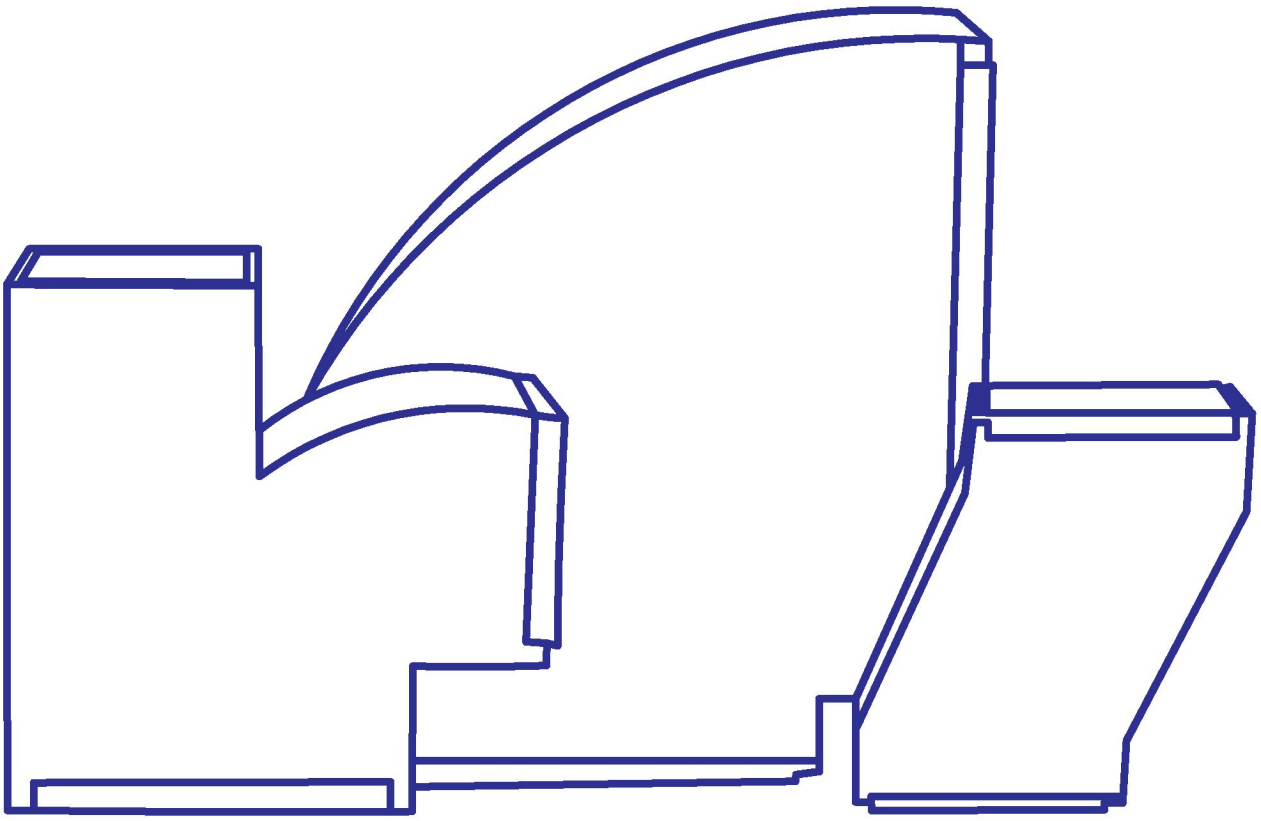
Web: *www.agis.ae*

Phenolic Duct & UL listed



Phenolic Duct

Description:

- Phenolic Pre Insulated panel shall comprise a 65 kg/m³ ± 5 nominal density and CFC/ HCFC-free, autohesively bonded on both sides to a 80 micron low vapour permeability aluminum foil facing.
- Phenolic Pre Insulated panels are available in the below mentioned thicknesses to suit different performance specifications:

- *Phenolic Pre Insulated panel coated with pure embossed aluminium foil.*

There are two types of panels :
- 20/65 ± 5 : 20mm thickness
- 30/65 ± 5 : 30mm thickness
For constuction of air ducting in heating, ventilation and air-conditioning systens (HVAC)

PANELS CHARACTERISTIC

		Dimensions	Panel Thickeness	Foam Density	Aluminium Foil Thickness	Aluminium Type
	20/65	4000/1200 mm	20 mm	65 kg/m³ ± 5	80/80 microns	Embossed
	30/65	4000/1200 mm	30 mm	65 kg/m³ ± 5	80/80 microns	Embossed

Specifications	*Value*	*Standards*
Density	*65 kg/m³ ± 5*	*ASTM D1622:03 / BS EN 1602 : 1997*
Thermal Conductivity	*0.030 w/m.K*	*ASTM C518: 2004*
Compressing Strength	*300 kpa – 350 kpa*	*ASTM C 165 : 2007*
Combustibility Property	*Non Combustible Class "0"*	*BS 476 Part 6 & 7*
Water Absorption	*0.25%*	*ASTM C 209:1998*
Maximum Smoke Density	*≤ 15*	*ASTM E84/UL723*
Dimension Stability	*0.3%*	*ASTM D 2126-09*
Working temperature	*-20⁰ C to 110⁰ C*	

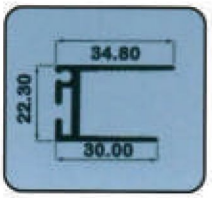
20 mm PANEL (INTERNAL USE)

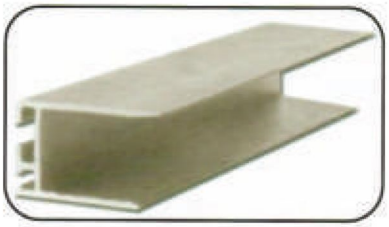
To produce 1,000m2 of • Phenolic Ducting System, the following is a list of material and accessories for a standard construction requirement:

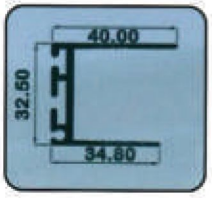
Sr. No.	DESCRIPTION	UOM	APPROX. QTY
1	Panel 4000 x1200mm	m2	1000
2	Aluminium Invisible Profile	mtrs	960
3	H Bayonet in Polymer	mtrs	480
4	PVC cover in Polymer	nos	1760
5	GI Corner Plate	nos	3000
6	Aluminium U Profile	mtrs	110
7	Aluminium Chair Profile	mtrs	108
8	Aluminium F Profile	mtrs	100
9	Duct Adhesive (1 drum = 15 ltrs)	drum	9
10	Aluminium Tape (1 box x 24 rolls)	box	11
11	Silicon Sealant (1 box x 24 tubes)	box	11
12	Profile Glue	nos	17

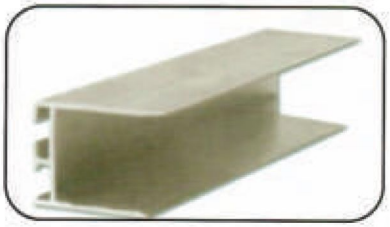
Panel Accessories

Aluminium Invisible Profile
PVC Invisible Profile



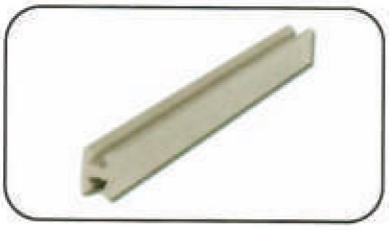






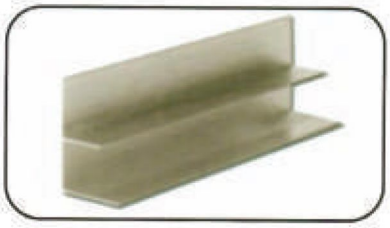
Length:	4mt / 5.8mtr
Thickness:	20mm, 30mm
Code:	20mm, ALUPR 014
	30mm, ALUPR 005
(PVC profile)	20mm, ALUPR 006

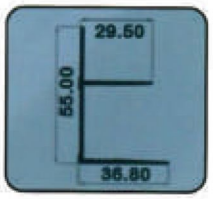
PVC Sliding Channel

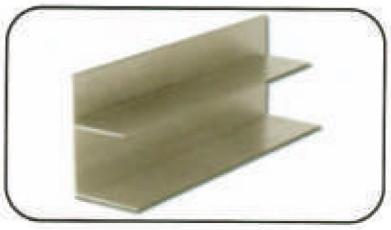


Length:	4mt / 5.8mtr
Code:	ALUPR 007

Aluminium F Profile



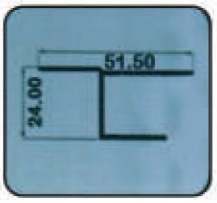


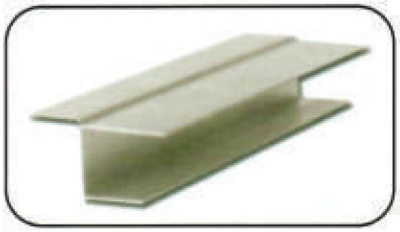


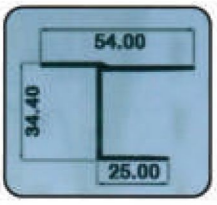
Length:	4mt / 5.8mtr
Thickness:	20mm, 30mm
Code:	20mm, ALUPR 001
	30mm, ALUPR 009

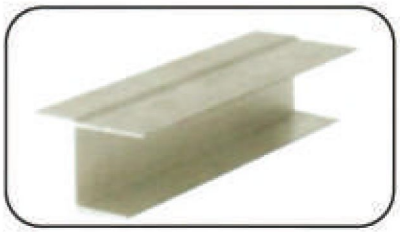
Panel Accessories

Aluminium 'h' profile



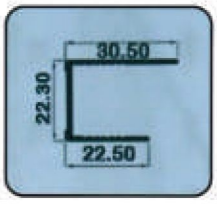


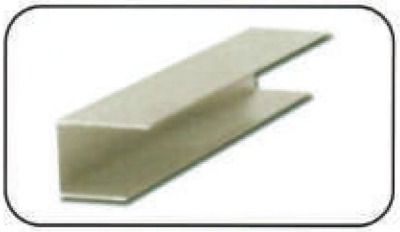


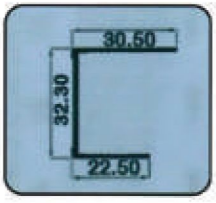


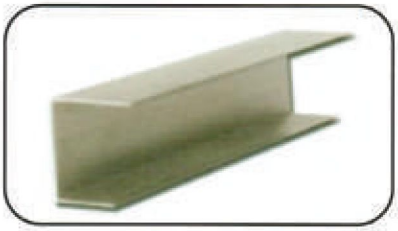
Length: 4mt / 5.8mtr
Thickness: 20mm, 30mm
Code: 20mm, ALUPR 013
30mm, ALUPR 011

Aluminium U profile



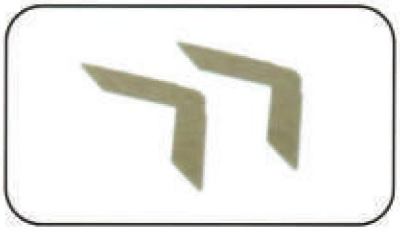






Length: 4mt / 5.8mtr
Thickness: 20mm, 30mm
Code: 20mm, ALUPR 002
30mm, ALUPR 010

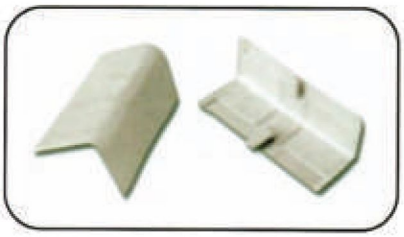
GI corner

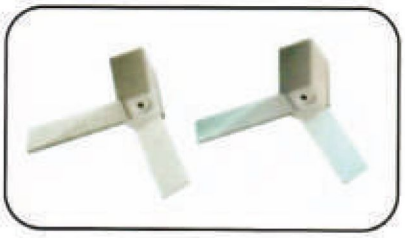


Thickness: 20mm
Code: VCDOTR 022

Panel Accessories

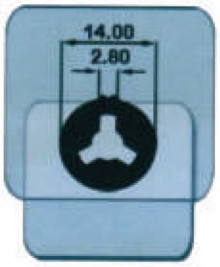
PVC Corner Cover
PVC Corner

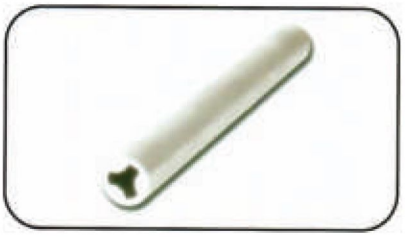




Thickness:	20mm
Code:	CONSM 025
Thickness:	20mm
Code:	CONSM 006

Reinforcement Bar Aluminium



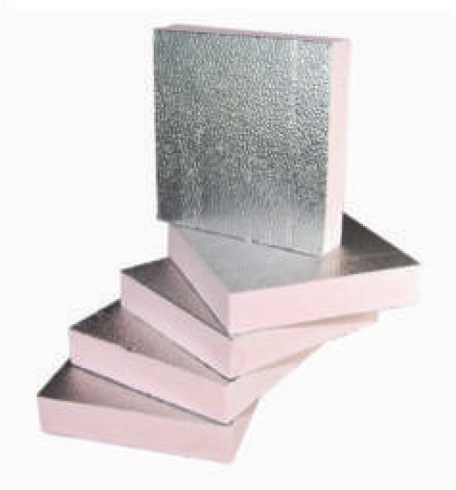


Length:	4mt / 5.8mtr
Thickness:	14mm
Code:	ALUPR 013

Reinforcement Disc

Code:	VCDOTR 021

Technical Data Sheet of Phenolic Foam Air Duct Panel



ITEM	UNIT	SPECIFICATION
Density	kg/m3	60-70
Double side Aluminum thickness	mm	0.08
Total thickness	mm	20
Thermal Conductivity	w/m.k	0.02
Flexural Strength	Mpa	1
combustion property	~	Class "0"(BS 476 part 6&7)
Water Absorption Rate	%	1.9
Max Smoke Density	%	2
Dimension Change Rate	%	0.3
Compressive Strength	Mpa	0.25
Service Temperature	℃	-25 to150
Standard Size	mm	4000*1200*20

Technical Data Sheet of WT UL listed Phenolic Air Duct Panel

ITEM	UNIT	SPECIFICATION
UL certificate no.		20180830-MH62656
Density	kg/m3	60-70
Double side Aluminum thickness	mm	0.08
Total reinforced facing	mm	0.2
Total thickness	mm	20
Thermal Conductivity	w/m.k	0.025
Flexural Strength	Mpa	1
combustion property	~	UL181
Water Absorption Rate	%	1.9
Max Smoke Density	%	2
Dimension Change Rate	%	0.3
Compressive Strength	Mpa	0.25
Service Temperature	℃	-25 to150
Standard Size	mm	4000*1200*20

حكومة دبي
GOVERNMENT OF DUBAI

بلدية دبي
DUBAI MUNICIPALITY

CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality
hereby attests that the product(s)

Insulation Materials

(Details as per the attached Scope of Certification)

manufactured by:

JIANGYIN W.T. THERMAL INSULATION MATERIAL CO. LTD.

Huangtang Development Zone, Xuxiake Town, Jiangyin City, Jiangsu, China

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

2018 UAE Fire and Life Safety Code of Practice

Accordingly, DCLD hereby authorizes the above manufacturer
to affix the DCL Product Conformity Mark on the above-mentioned product(s).

for / ENGR. AMIN AHMED AMIN
Director, Dubai Central Laboratory Department
Dubai Municipality

Certificate No: CL19020687
Valid Until: 26/06/2021

DCL PRODUCT CONFORMITY

Current Issue Date: 27/06/2020
Original Issue Date: 27/06/2019

The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.
This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

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GOVERNMENT OF DUBAI

بلدية دبي
DUBAI MUNICIPALITY

DUBAI CENTRAL LABORATORY DEPARTMENT

DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION
FOR CERTIFICATE NO. CL19020687

Certificate Issued To: **JIANGYIN W.T. THERMAL INSULATION MATERIAL CO. LTD.**
Huangtang Development Zone, Xuxiake Town, Jiangyin City, Jiangsu Province, China

Applicable Standard Specification: 2018 UAE Fire & Life Safety Code of Practice

Applicable Specific Rules: DM-DCLD-RD-DP21-2210 (IC) - Specific Rules for Factory Assessment (FA) Certification of Insulation Materials for Compliance to the requirements of 2018 UAE Fire & Life Safety Code of Practice

S/N	PRODUCT DESCRIPTION	BRAND NAME	PRODUCT DETAILS
1.	DUCT INSULATION MATERIALS Phenolic Foam Insulation Panel	WT	DUCT INSULATION MATERIALS Phenolic Foam Insulation Panel Manufactured with either embossed reinforced aluminum foil facing or aluminum foil facing on both sides Phenolic Foam Insulation Panel Manufactured with plain aluminum foil facing on both sides Panel dimensions: Length = 3900 to 4000 mm Width = 1200 mm Thickness = 20 mm - 30 mm Minimum Density of 55 kg/m3 for 20 mm & Minimum Density of 50 kg/m3 for 30 mm Fire Properties complies with the FSI = 25 max & SDI = 50 max when tested as per ASTM E84 in compliance with Table 10.1 clause 3.1.iii of 2018 UAE Fire and Life Safety Code *(see Note 3)*

GOVERNMENT OF DUBAI

DUBAI MUNICIPALITY

DUBAI CENTRAL LABORATORY DEPARTMENT

DCL PRODUCT CONFORMITY CERTIFICATION SCHEME

SCOPE OF CERTIFICATION

FOR CERTIFICATE NO. CL19020687

Note 1: This document forms part of the Certificate of Product Conformity bearing the same certificate number.

Note 2: The above products shall bear the DCL Conformity Mark.

Note 3: The fire safety test results meet the requirements of the 2018 UAE Fire and Life Safety Code of Practice as an insulation material.

Original Issue Date:	*27 June 2019*
Current Issue Date:	*27 June 2020*
Valid Until:	*26 June 2021*

ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department

CERTIFICATE OF COMPLIANCE

Certificate Number 20180830-MH62656
Report Reference MH62656-20180828
Issue Date 2018-AUGUST-30

Issued to: Jiangyin W.T Thermal Insulation Material Co Ltd
No.5,North Waihuan Road,Huangtang Development Zone,Xuxiake Town
Jiangyin, Jiangsu 214407 CHINA

This is to certify that representative samples of AIR DUCTS
Phenolic foam rigid duct board consisting of a flat board of phenolic foam core with aluminum facer on both sides. Heat from forming the foam core attaches the 2 facers to the core. Adhesive has been used between Al facer, glass fiber Fabric and foam core.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 181, Factory Made Air Ducts and Air Connectors
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

File MH62656
Project 4788311856

August 28, 2018

REPORT

on

Air Ducts

Jiangyin W.T Thermal Insulation Material Co Ltd
Jiangyin, China

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File MH62656 Page 1 Issued: 2018-08-28

DESCRIPTION

PRODUCT COVERED:

The product covered by this Report is a Class 1 rigid air duct. The product is designated as "Pre-insulated Phenolic Foam Duct".

INTENDED USE:

The air duct is intended to be used in air conditioning and warm air heating systems in accordance with the International Mechanical Code (IMC), International Residential Code (IRC), and Uniform Mechanical Code (UMC), Standards of the National Fire Protection Association for the Installation of Air-Conditioning and Ventilating Systems, NFPA No. 90A, and the Installation of Warm Air Heating and Air-Conditioning Systems, NFPA No. 90B.

The air duct covered by this Report is intended for use as a building material as authorized by the authorities having jurisdiction.

CONSTRUCTION MATERIALS:

A detailed description of the specific construction, the composition and the specifications of the materials used are on File at UL LLC.

MARKING:

Each piece of the air duct is marked with the following.

1. Manufacturer's name.
2. Maximum recommended air velocity.
3. Maximum rated negative and positive pressure.
4. Maximum hanger spacing.
5. Maximum supply duct dimension without reinforcement.
6. Minimum return duct dimension without reinforcement.
7. Class rating.

Product Range

- HVAC Products
- Grilles
- Diffusers
- PI & GI Ducting
- VCD (Volume Control Damper)
- Sound Attenuators
- FDBG (Fire Damper)
- Motorised Damper
- VAV Boxes

Services

- Supply & Installation of all
- Air Conditioning Systems
- CHILD WATER Systems
- DX Systems
- VRF Systems

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