Pro-Duct
Industries

COMPANY PROFILE

(HVAC DUCTING SYSTEMS)

WWW.PRO-DUCTINDUSTRIES.COM

CONTENTS

SECTION 01

Company Information & Introduction to PRO-DUCT

Company Information

NAME OF COMPANY

Pro Duct Industries LLC

ADDRESS (U.A.E. BRANCH)

Warehouse No. 5 & 6,
Umm Al Thoub 1, Umm Al Quwain
TEL : +971 6 523 28 91

ADDRESS (K.S.A. BRANCH)

Building No.3843, Maqdan, Al Mishael Dist. , Riyadh
TEL : +966 11 450 9693

Pro-Duct
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Introduction To Pro-Duct

At PRO-DUCT INDUSTRIES, we specialize in the Manufacturing of premium Duct Work & Accessories for Commercial & Residential HVAC Applications.

We are established on the basic policy of serving the market with high-quality & reliable Products using the latest Technology & qualified staff.

Meeting and understanding the customer's requirements to achieve added value is one of our major goals. Through our sophisticated facilities, we intend to distribute and supply to AC suppliers, Contractors & Private Clients. Get our highest quality HVAC ductwork, Pre-Insulated Duct, and Aluminum Cladding at the most competitive rates.

Health, Safety & Environmental Management are integral & essential parts of the way we do our business & are considered an equal part of the wider system for our way of work.

With the vision and foresight of the management and a dynamic team of well-qualified professionals.

PRO-DUCT consistently delivers projects on time and achieves clients' absolute satisfaction.

PRO-DUCT has implemented a quality management system to demonstrate its ability to provide quality products and services that meet customers' and applicable statutory and regulatory requirements. Its reputation for excellence is based on the use of the latest techniques, a strong base of resources and an indomitable spirit and desire to deliver the best.

PRO-DUCT factory is ideally located centrally, in UAE - Umm Al Quwain City & in the KSA – Al RIYADH Industrial City. We also offer a deliver services throughout all of the UAE & KSA.

Alternatively you can arrange your own transport, as all orders can be collected from our factory
PRODUCT strength lies in the following areas:

- Outstanding reputation
- Ambitious management, technical experts, design and engineering experts, skillful operators.
- Factory equipment of high standard.
- Large stocks and large warehousing facility.
- Strong financial base, and financial strength and stability.
- Commitment to our quality system.

The company's mission statement and Quality Policy explicitly says it all.

The Air-conditioning Duct factory uses the latest technology CNC machines and employs technically qualified personnel with international experience to produce high quality sheet metal ducting as per various international standards such as DW 144, SMACNA, etc.

List of products covered under our manufacturing range is as follows:

1. Rectangular Ducts & Related Accessories.
2. Spiral Ducts & Related Accessories.

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SECTION 02

Mission Statement , Quality Policy , Our Values, & Goals

Pro-Duct Industries

Mission Statement

To consistently & effectively work towards achieving our clients' requirements by rendering quality workmanship & products under a healthy and safe work environment, employing competent resources.

Quality Policy

PRODUCT aims to emerge as market leader in air distribution systems in the Construction industry by consistently providing high quality operational systems & services that meets client's absolute satisfaction and desired requirements.

OBJECTIVES

To achieve total customer satisfaction, we shall ensure:

➢ Consistently deliver quality products, engineering and services
➢ Timely service delivery & quality workmanship.
➢ Use of competent personnel and train our work force Continuously for the improvement
➢ Healthy & safe work environment
➢ Complying with statutory, regulatory and other legal Requirements.

Our Values

- Our Values are the core of our business philosophy which we have pursued from the beginning of the Factory. All our employees are bounded by these values.
- The Values are not new, our employees live by them every day, and based on this values, they achieve the business success in dealing with customers and suppliers. The values are absolutely business success in dealing with customers, and suppliers. The values are absolutely business relevant - and we strongly believe that customer needs want to work with a company which is perceived as reliable, excellent and innovative!
- **Innovative**
  Being Innovative to create sustainable results
- **Excellent**
  Achieving high performance and excellent results
- **Responsible**
  Committed to ethical and responsible actions
- Our employees live these three values everyday, deal with them and learn from the experiences. Values make a person charismatic. One's enthusiasm and how values are integral part of what they do every day - makes it authentic, and therefore, reliable
- We answer the world's toughest questions
  Innovative, Excellent and **responsible**

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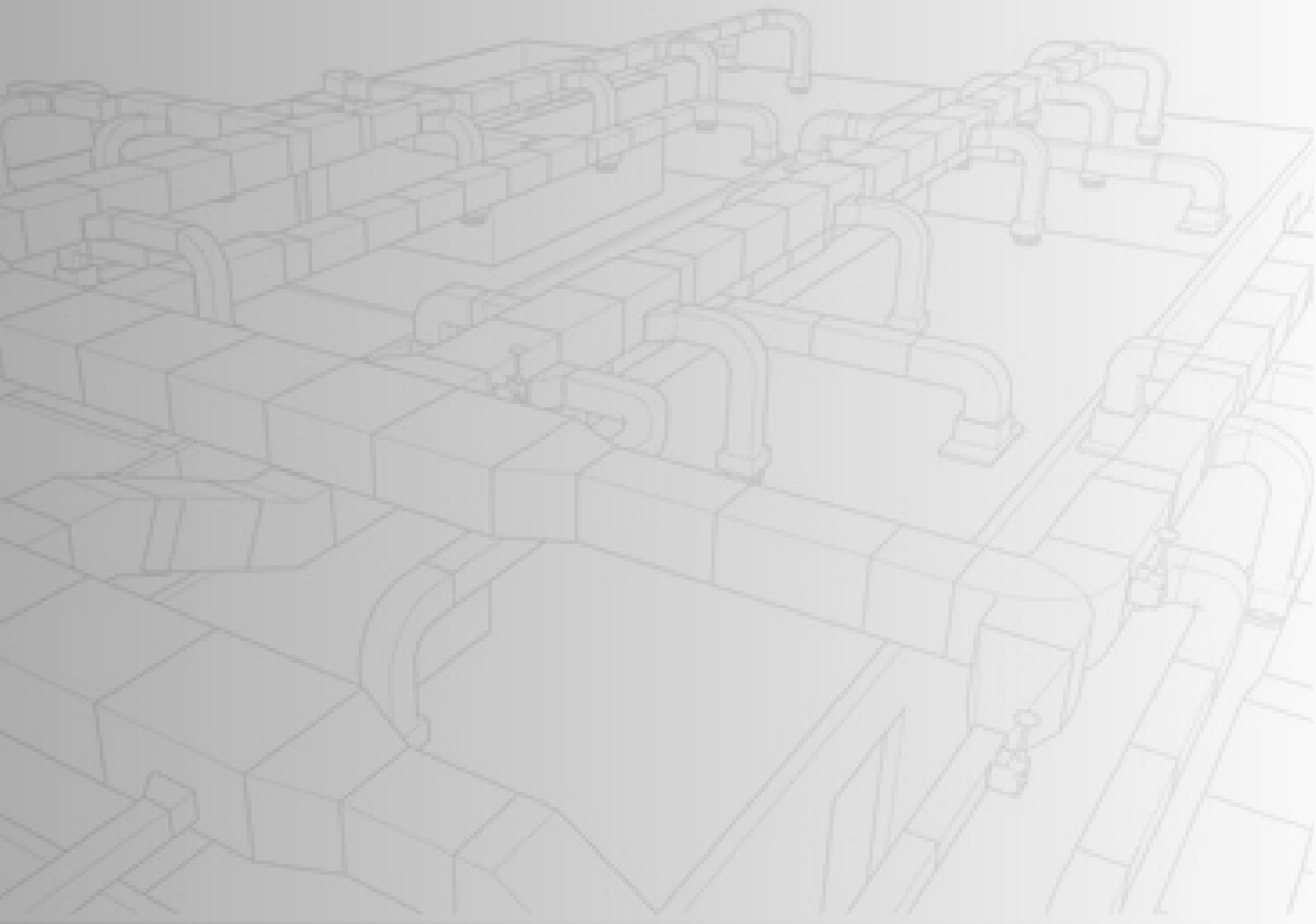
Our Aim & Goal

- To reach out to other clients and provide them with our expertise and dedicated services to meet and exceed expectations in a technically and a manufacturing field.



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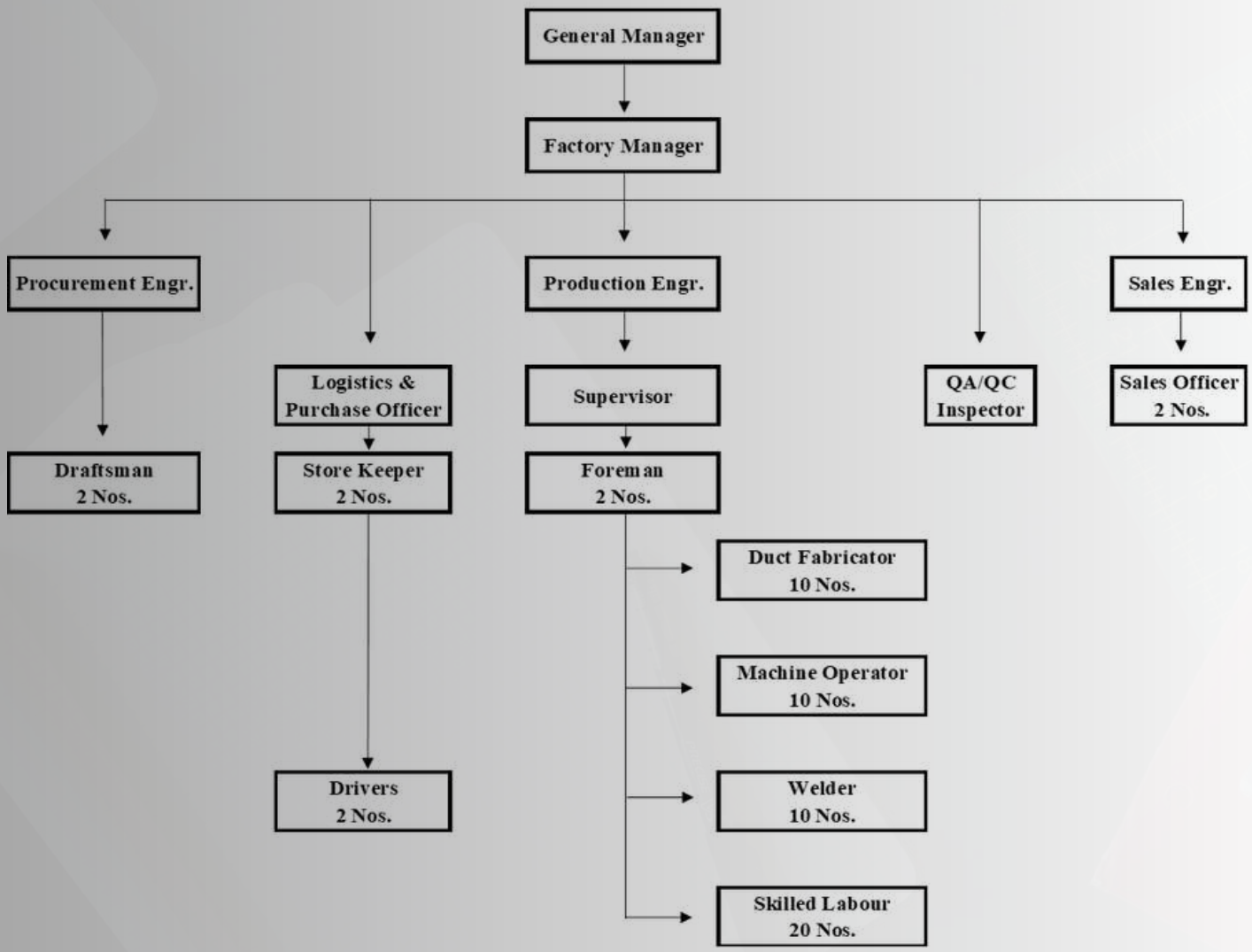
SECTION 03

Organization Chart & Man Power

Pro-Duct Industries

Organization Chart & Man Power

Organizational Chart



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SECTION 04

Machinery & Equipments

Pro-Duct Industries

Machinery & equipments

PRO-DUCT fully equipped factory allows us to manufacture any shape ductwork. Capable of covering all our clients' requirements.

S/N	DESCRIPTION	NO. OF UNITS
1	AUTOCOIL LINE	2
2	PLASMA CNC MACHINE	3
3	ZIPPER MACHINE	2
4	SPIRAL TUBE FORMING	1
5	HYDROLIC ELBOW MAKER	2
6	SHEARING MACHINE	2
7	LOCK FORMER	5
8	GROOVING MACHINE	1
9	ROTTARY MACHINE	2
10	SPOT WELDING MACHINE	5
11	WELDING MACHINE	8
12	STAND DRILL	4
13	POWER PRESS	2
14	ROLLING MACHINE	2
15	FORKLIFT	1
16	FOLDING MACHINE	2
17	SHEET CUTTER	1
18	C-CLEAT BENDER	2
19	FLANGER SAW	2

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Machinery & equipments






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SECTION 05

Method Statement Of Duct Fabrication

Method Statement Of Duct Fabrication

• G.I. Duct Fabrication:

1. On receiving the approved shop drawing and specifications of the materials a sample is prepared for the approval of the consultant.

2. Upon approval of the consultant detailed shop drawings are prepared by the project for the production department.

3. A duct fabrication list is prepared along with tagged drawings indicating the tag number of each duct piece with its specifications.

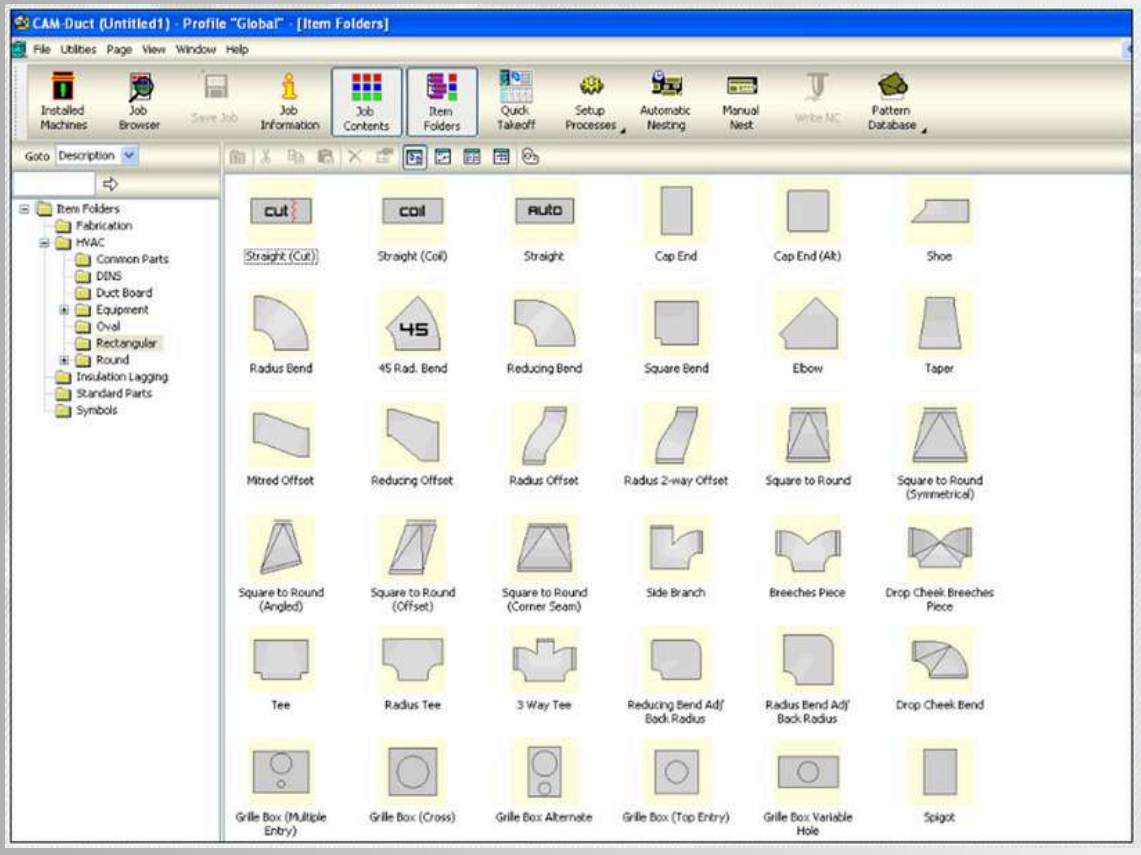
4. The tag fabrication list is submitted to the project management for final approval, and for indicating delivery schedule.

The approved tag list with delivery schedule will be given to the production engineer who will assign the work to the shift supervisor.

The schedule of rectangular duct production will be as follows:

The rectangular ducts will be produced on CNC operated Auto line folding machine. The finished duct will be inspected for quality by the senior engineer who will indicate his approval by signing the production tag confirming the inspection. The production tags contains the details of each duct specifying the Project, Customer, Consultant, Equipment Reference, Duct Tag Number, Size, etc.

The duct fittings will be manufactured on CNC operated plasma Arc Cutting machines. Each element of the fittings cut on the plasma machine will have a unique label indicating the details of element number, duct number and project details. This will assist the identification during the assembly process. All the elements produced by the plasma Arc Cutting machine will be assembled by the skilled fabricators. Fixing of the transverse joints and vanes will be done at the same time.



All the assembled fittings will be checked by QA/QC engineer on the shop floor. His approval will clear the fittings for delivery. He will check that there was strict adherence to the specifications entered for production.

The completed consignment of the assembled straight ducts and fitting will be handed over to the stores control.

The stores control will ensure that proper documentation is prepared for the delivery of the duct to site

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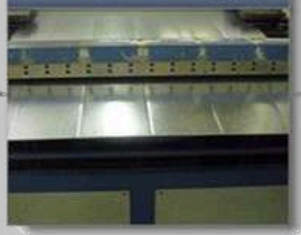
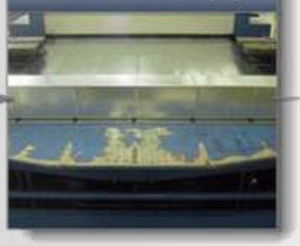
Feed Duct Dimension (1)

Beading & Notching (1)

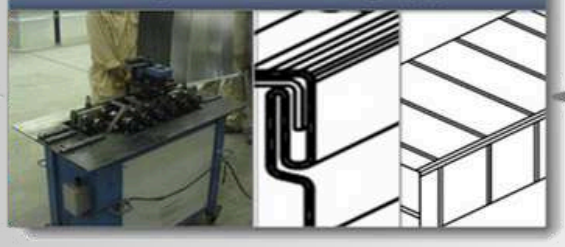


Fold & Shear (1)



Seam Lock (3)

Longitudinal Pittsburgh (2)



Double Corner Seam (2)

Straight Duct

Straight Duct Manufacturing Instructions

1- Feed the duct measurements to the auto line keyboard & specify the G.I. coils that will be used based on the duct gauges, then the sheet pass throw the rolls to make the beading each 210 mm, then its go to notching stage, folding and shearing.
2- After finish from the auto line we send the duct to roll forming machine to produce longitudinal Pittsburgh seam or to duct zipper RSA machine to produce double corner seam.
3- If we produce longitudinal Pittsburgh we close the duct manually or by using seam locker machine.

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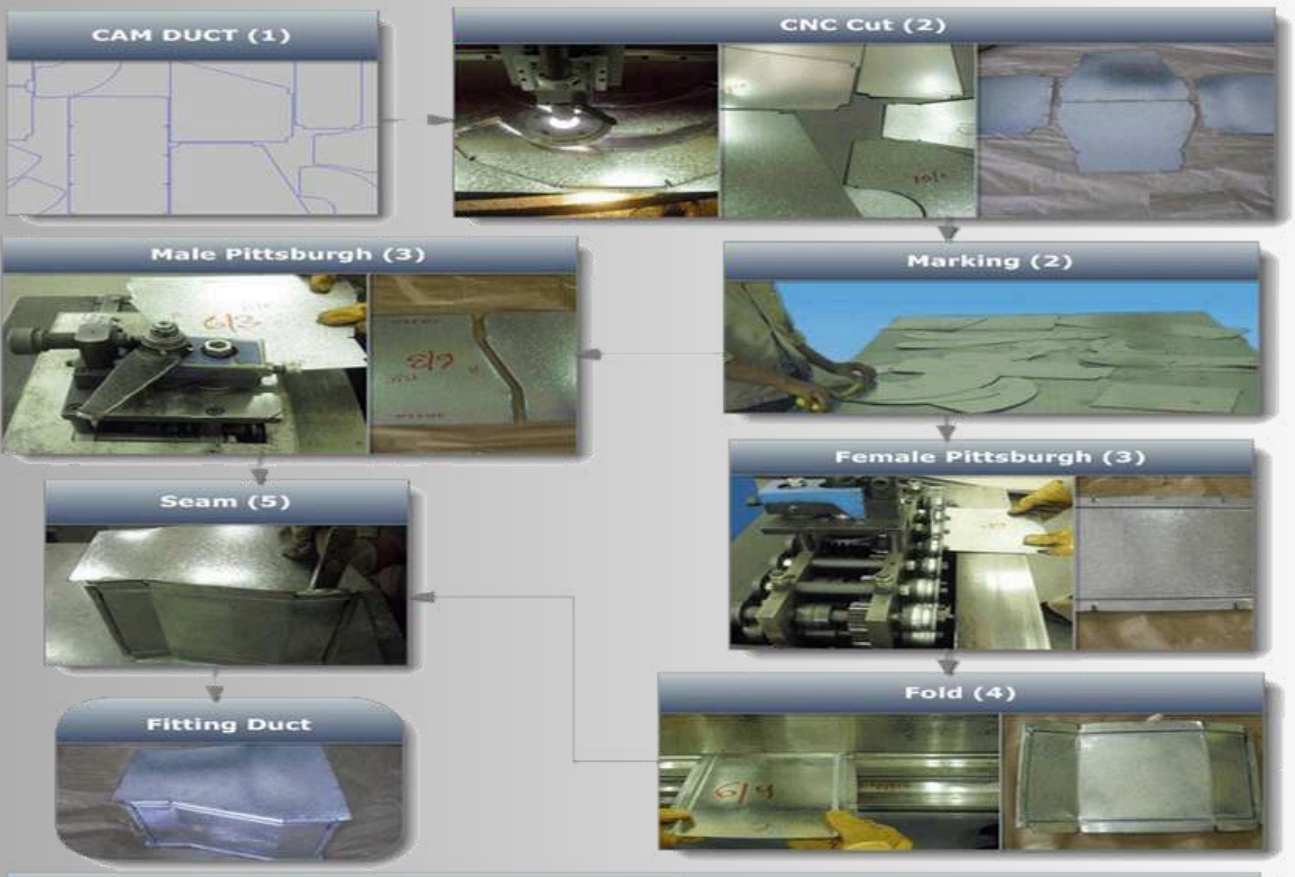

Fitting Duct Manufacturing Instructions

1- Feed the duct dimensions and specifications to CAM DUCT software then the software perform the nesting process to arrange the duct pieces into the G.I. sheet with appropriate distribution.
2- The CNC Plasma Cutting Machine start cut the pieces with required notches then the machine operator start writing the numbers and related information on the internal face of cut pieces then he collect the all sides for the same duct piece together.
3- After cutting and marking we send cut pieces to roll forming machine to make longitudinal Pittsburgh.
4- Then the we start bend the parts by folding machines
5- Finally we perform the seaming process to close the duct and this operation will be done manually.

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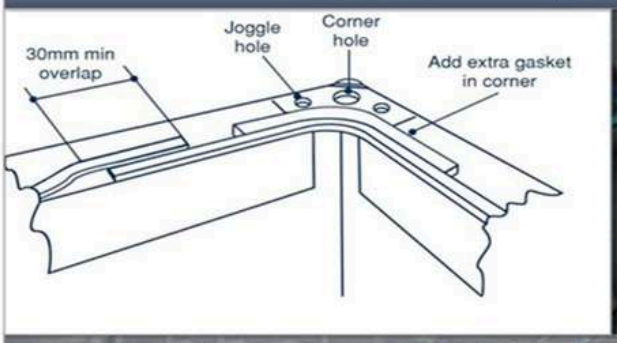
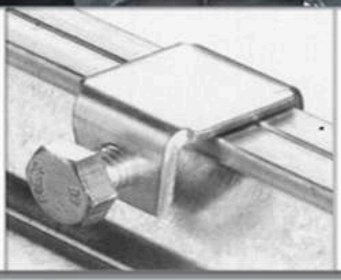
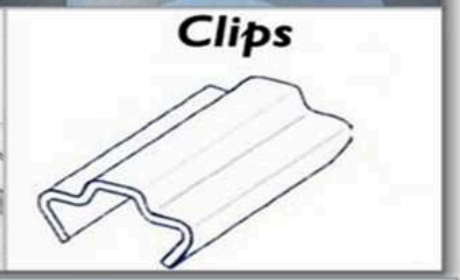
G.I Duct with flange Site Installation







G.I Duct with flange Site Installation

- ✓ Fit gasket (9 mm* 4.5 mm) as one continuous length, To complete the seal there should be a minimum overlap of 30 mm, for high pressure of 1000 PA & above additional gasket should be applied to the four corners.
- ✓ Fit the clamps or cleats within 50 mm of the corner. Fixing should not exceed 400 mm centers.
- ✓ Assemble the ductwork by nuts & set screws fitted into the corner holes. for flange 20 mm use set screw M8*25 mm, for flange 30 mm use set screw M10*25 mm, for flange 40 mm use set screw M12*25 mm.

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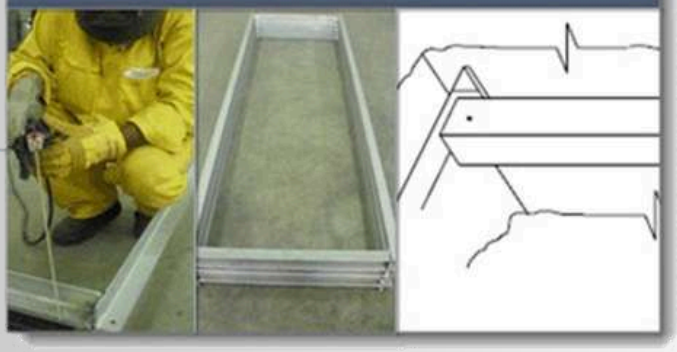
Cut RSA (1)

Drill RSA (2)

Welding (3)



Riveting & Frame Fixing (4)

Duct with RSA

Rolled Steel Angle (RSA) Manufacturing Instructions

1- Cut the RSA by circular saw machine according to the duct sizes.
2- Drill a holes in RSA each 150 mm. by Stand drill machine.
3- Make the RSA Frame by welding the frame corner using arc welding technique.
4- Fix the RSA frame into the duct by using stainless steel rivets.

Pro-Duct Industries

DUCT WORK CONSTRUCTION SCHEDULE

2'' W.G = 500PA, AS PER SMACNA 1995 2ND EDITION

MAX. DUCT DIMENSION	U.S. GAUGE	LONGITUDINAL CONNECTION	INTERMEDIATE REINFORCEMENT	TRANSVERSE CONNECTION	SPACING
0 - 300	26	PITTSBURGH (LOCK SEAM) / DOUBLE CORNER SEAM	NOT REQUIRED	HEMMED S-SLIP (GA.24) C-DRIVE (GA.24)	1200
325 - 450	24	PITTSBURGH (LOCK SEAM) / DOUBLE CORNER SEAM	NOT REQUIRED	HEMMED S-SLIP (GA.24) C-DRIVE (GA.24)	1200
451 - 750		PITTSBURGH (LOCK SEAM) / DOUBLE CORNER SEAM	NOT REQUIRED	HEMMED S-SLIP (GA.24) C-DRIVE (GA.24)	1200
751 – 1065	22	PITTSBURGH (LOCK SEAM) / DOUBLE CORNER SEAM	NOT REQUIRED	DUCTMATE TDC 35	1200
1066 – 1370		PITTSBURGH (LOCK SEAM) / DOUBLE CORNER SEAM	NOT REQUIRED	DUCTMATE TDC 35	1200
1371 – 1500	20	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
1501 – 2130		PITTSBURGH (LOCK SEAM)	NOT REQUIRED	GALV. COMPANION ANGLE 40x40x4MM	1200
2131 - 2440	18	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	GALV. COMPANION ANGLE 50x50x5MM	1200
2441 - 3050	18	PITTSBURGH (LOCK SEAM)	GALV. COMPANION ANGLE 50x50x5MM	GALV. COMPANION ANGLE 50x50x5MM	1200

Pro-Duct Industries

DUCT WORK CONSTRUCTION SCHEDULE

3'' W.G = 750PA, AS PER SMACNA 1995 2ND EDITION

MAX. DUCT DIMENSION	U.S. GAUGE	LONGITUDINAL CONNECTION	INTERMEDIATE REINFORCEMENT	TRANSVERSE CONNECTION	SPACING
0 – 457	24	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
458 – 762	24	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
763 - 914	24	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
915 - 1067	22	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
1068 – 1219	20	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
1220 - 1524	18	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	GALV. COMPANION ANGLE 50x50x5MM	1200
1525-2133	18	PITTSBURGH (LOCK SEAM)	GALV. COMPANION ANGLE 50x50x5MM	GALV. COMPANION ANGLE 50x50x5MM	1200
2134-2438	18	PITTSBURGH (LOCK SEAM)	GALV. COMPANION ANGLE 50x50x5MM	GALV. COMPANION ANGLE 50x50x5MM	1200

Pro-Duct Industries

DUCT WORK CONSTRUCTION SCHEDULE

4'' W.G = 1000PA, AS PER SMACNA 1995 2ND EDITION

MAX. DUCT DIMENSION	U.S. GAUGE	LONGITUDINAL CONNECTION	INTERMEDIATE REINFORCEMENT	TRANSVERSE CONNECTION	SPACING
0 – 406	24	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
407 – 762	24	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
763 - 914	22	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	DUCTMATE TDC 35	1200
915 - 1067	20	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	GALV. COMPANION ANGLE 30x30x3MM	1200
1068 – 1372	18	PITTSBURGH (LOCK SEAM)	NOT REQUIRED	GALV. COMPANION ANGLE 30x30x3MM	1200
1373 - 1829	18	PITTSBURGH (LOCK SEAM)	GALV. COMPANION ANGLE 50x50x5MM	GALV. COMPANION ANGLE 50x50x5MM	1200
1830-2438	18	PITTSBURGH (LOCK SEAM)	GALV. COMPANION ANGLE 50x50x5MM	GALV. COMPANION ANGLE 50x50x5MM	1200

Pro-Duct Industries

DUCT WORK CONSTRUCTION SCHEDULE- DOUBLE WALL

2'' W.G = 500PA, AS PER SMACNA 1995 2ND EDITION

Max. Duct Dimensions	INNER Thickness (ga. USS)	OUTER Thickness (ga.	Max. Joint Length (mm)	Joint Type	Intermediate Reinforcement
UP TO 457	24	24	1500	DUCTMATE TDC 35MM	NONE
458-914	22	24	1500	DUCTMATE TDC 35MM	NONE
915-1524	20	24	600	DUCTMATE TDC 35MM	COMPANION ANGLE 40X40X4MM
OVER 1524	18	24	600	DUCTMATE TDC 35MM	COMPANION ANGLE 40X40X4MM

NOTES:

1.Galvanized Steel Confirm to ASTM A 653, G90 Coating Lock forming Quality

1.Double Wall Thermal Ducts (AS PER ABOVE SCHEDULE & GAGE 24 FOR OUTER DUCT)

1.Solid galvanized steel outer shell and inner shell with insulation sandwiched between.

2.Insulation of 25MM THK. 56 KG/M3 density for indoor ducts

3.Insulation of 50MM THK. 56 KG/M3 density for outdoor ducts.

1.Ductworks will be supplied fully assembled with factory applied sealant.

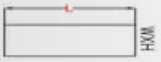
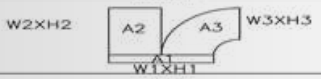
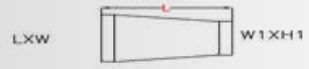
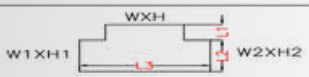
1.Every piece of ductwork will be identified with cross reference tag

DUCT WORK CONSTRUCTION SCHEDULE- Spiral Round Duct & Fittings

Duct Diameter in mm (inches)				500 Pa, (2'' W.G.) Positive Pressure			1000 Pa, (4'' W.G.) Positive Pressure		2500 Pa, (10'' W.G.) Positive Pressure	
mm	Inches	inches	mm	Spiral Seam Gauge		Longitudinal	Spiral Seam	Longitudinal	Spiral Seam	Longitudinal
75	(3)	Thru	(8)	200	26	26	26	26	26	24
201	(9)	Thru	(14)	350	26	26	26	26	26	24
351	(15)	Thru	(26)	650	26	26	26	26	26	22
651	(27)	Thru	(36)	900	24	22	22	20	22	20
901	(37)	Thru	(50)	1250	22	20	20	20	20	20
1251	(51)	Thru	(60)	1500	20	18	18	18	18	18
1501	(61)	Thru	(84)	2100	18	16	18	16	18	16
2101	(85)	Thru	(98)	2500	18	16	16	14	16	14

Pro-Duct Industries

METHOD OF CALCULATION FOR RECTANGULAR DUCTWORKS

STRAIGHT DUCT	2X(W+H+0.04)XL	
ELBOW	A=2(W+H+0.08)(L1+L2) IF MIN. W=>300 ADD CALC. FOR TURNING VANE	
OFFSET	A=2(W+H+0.08)(L1+L2) L2=W+O	
WYE FITTING	A=A1+A2+A3	
R-FITTING	A=A1+A2+A3	
REDUCER	A=2(W+H+0.08)L1	
TRANSITION	A=2(W+H+0.08)L1	
ELBOW 45	A=(W+H+0.08)(L1+L2)	
TAKE OFF	A=2(W+0.18+H)L1	
ST DUCT W/E CAP	A=2(W+H+0.04)L1 +(W+0.1)(H+0.1)	
TEE FITTING	A=2(W+H+0.04)L1 +2(W1+H1+0.04)L2 +2(W2+H2+0.04)L3	

All Kg Calculations will be as follows:-

GI Sheet Metal Thickness	Weight Kg/M2
26 Guage (0.6mm)	4.86 Kg/M2
24 Guage (0.7mm)	5.67 Kg/M2
22 Guage (0.8mm)	6.48 Kg/M2
20 Guage (1.0mm)	8.10 Kg/M2
18 Guage (1.2mm)	9.72 Kg/M2

Pro-Duct
Industries

SECTION 06

Product Range

Pro-Duct
Industries

HVAC DUCTING SYSTEMS

WWW.PRO-DUCTINDUSTRIES.COM

Products Catalog

UNITED ARAB EMIRATES (U.A.E.)
TEL : +971 6 523 2891
EMAIL : INFO@PRO-DUCTINDUSTRIES.COM

SAUDI ARABIA (KSA)
TEL : +966 11 450 9693
EMAIL : INFO.SA@PRO-DUCTINDUSTRIES.COM

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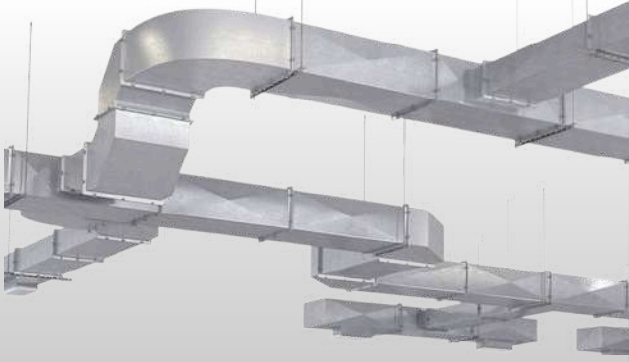

WELCOME TO OUR COMPANY

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Pro-Duct
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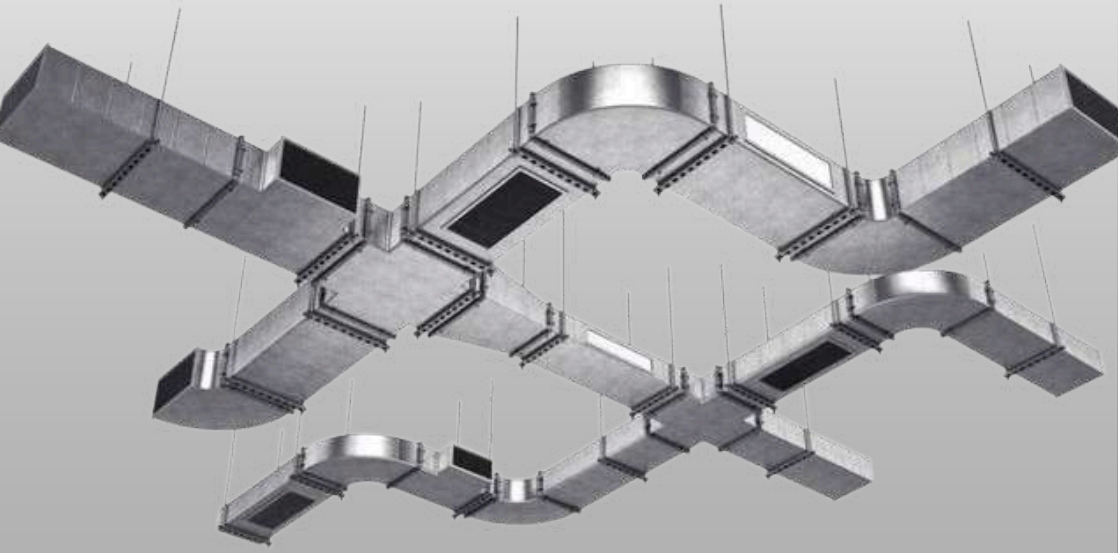


RECTANGULAR DUCT & FITTINGS

Pro-Duct Industries

STRAIGHT DUCT

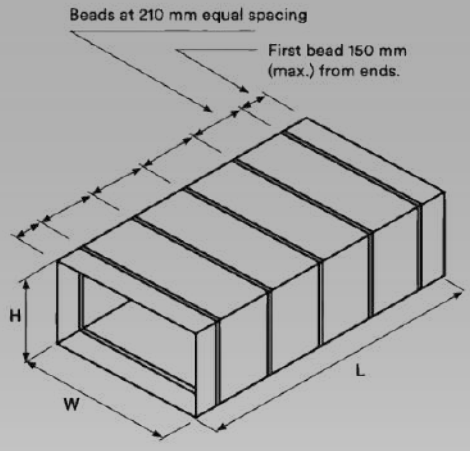
Description

Pro-Duct's single-wall rectangular duct and fittings are factory fabricated and supplied with factory-applied sealant on all longitudinal joints for S & Drive slip ducts and additionally on transverse joints for all flanged end ducts and fittings.

Pro-Duct's rectangular ducts can be supplied in either fully assembled form or knocked down form for straight ducts (minimum requirement for assembly of straight ducts on site), while fittings will be delivered fully assembled with factory-applied sealant

Dimensions

All straight ducts are beaded or cross broken (except if ducts are double wall, internally lined, or gauge 18 and heavier). All fittings are cross broken from size 483 mm and above, or beaded on all sizes.



Beaded Duct

Pro-Duct Industries

ASSEMBLY INSTRUCTIONS

Description

Pro-Duct's Rectangular Duct and Fittings must be assembled according to these instructions:

Before Assembly

The duct must be free from dirt.

Assembly of Instructions:

- Only use undamaged Pro-Duct rectangular duct and fittings.
- Apply a continuous gasket to effectively seal flanges and corners.
- Fasten the duct and fitting together with bolts and nuts at four corners.
- Mating flanges shall be locked together by duct clamps spaced at centers not exceeding 200mm.

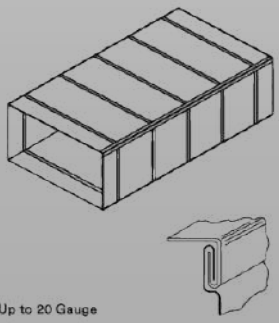
The following number of duct clamps is recommended for the respective dimensions:

Duct Dimension mm	Number
0-200	0
250-400	1
450-600	2
650-800	3
850-1000	4
1500-1200	5
1250-1400	6
1450-1600	7
1650-1800	8
1850-2000	9
2050-2200	10

Pro-Duct
Industries

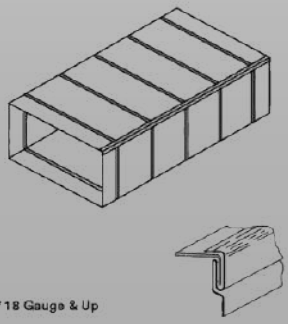
LONGITUDINAL SEAMS

Double Corner Seam



* Up to 20 Gauge

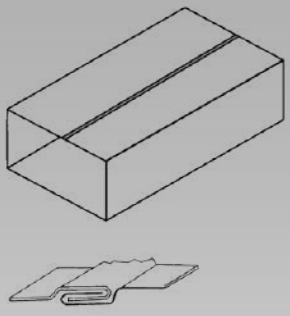
Pittsburgh Lock



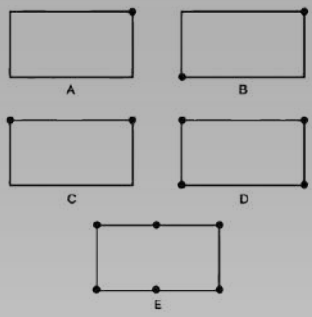
*18 Gauge & Up

Grooved Seam

For Ducts Length L > 1200 mm



Seam Location

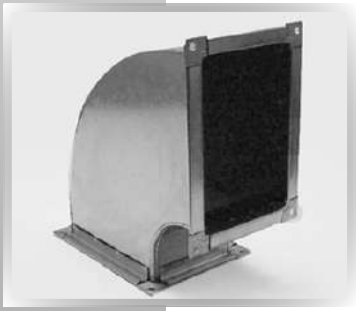


Seam Location

* Seam numbers and locations vary according to joint type and size.

Pro-Duct Industries

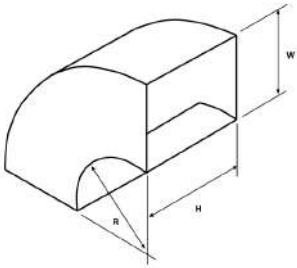
RECTANGULAR FITTINGS



RADIUS BEND

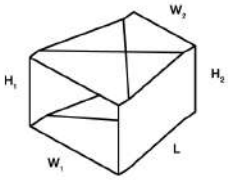
RADIUS BEND WITHOUT SPLITTER VANES

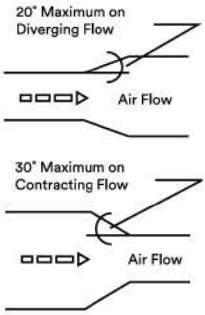
WHERE THE THROAT RADIUS IS EQUAL TO WIDTH (R = W).



REDUCER

REDUCER

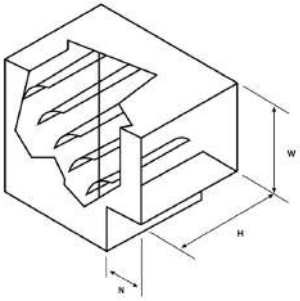




SQUARE THROAT BEND WITH TURNING VANES

SQUARE THROAT WITH TURNING VANES

STANDARD SQUARE THROAT LENGTH (N): 100 MM



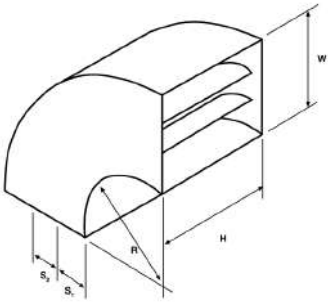
Pro-Duct Industries

RECTANGULAR FITTINGS

RADIUS BEND WITH SPLITTER VANES

RADIUS BEND WITH SPLITTER VANES

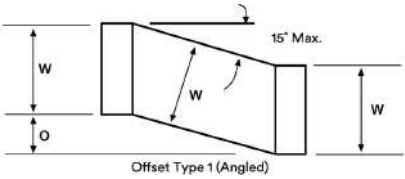
WHERE THE THROAT RADIUS IS LESS THAN THE WIDTH (R < W)



OFFSET

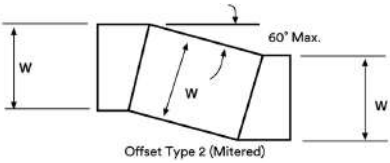
OFFSET

Type 1



Offset Type 1 (Angled)

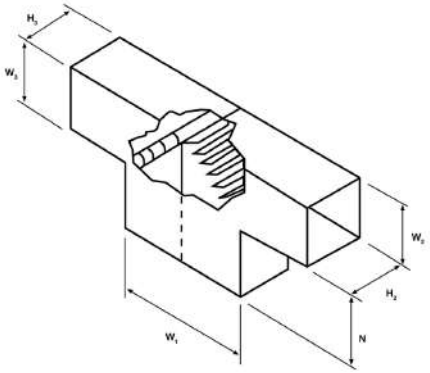
type 2



Offset Type 2 (Mitered)

TEE

TEE

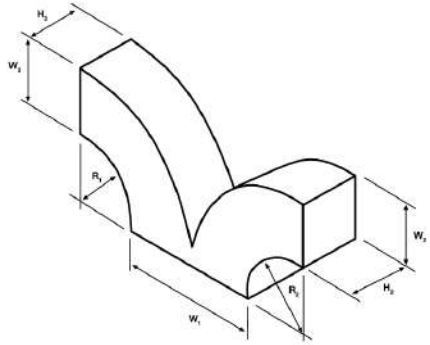


Pro-Duct Industries

RECTANGULAR FITTINGS

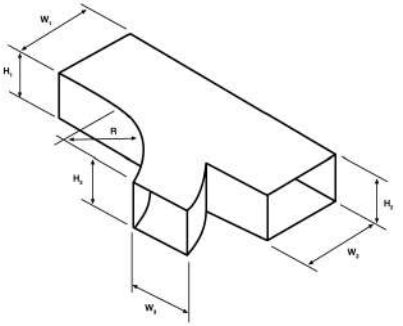
SPLIT BEND

SPLIT BEND



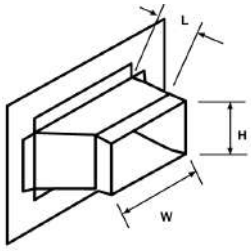
R–FITTING

R–FITTING OR PARALLEL FLOW BRANCHES

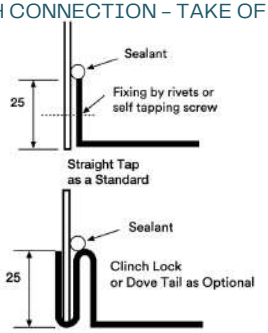


BRANCH CONNECTION – TAKE OFF

45° RECTANGULAR BRANCH CONNECTION – TAKE OF



L = 1/4 W, Min. 100 mm

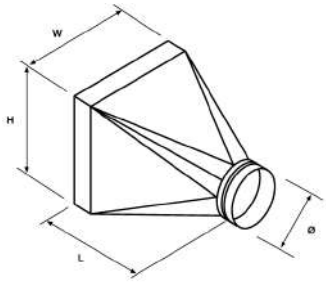


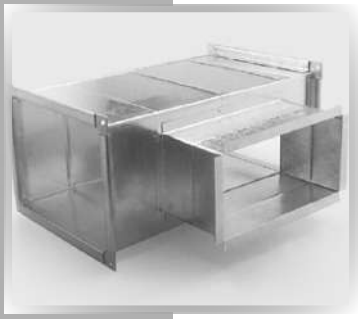
Pro-Duct Industries

RECTANGULAR FITTINGS

RECTANGULAR TO ROUND TRANSITION

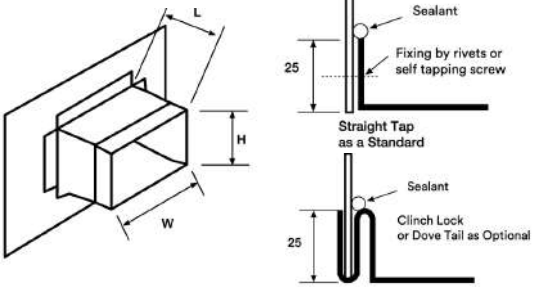
RECTANGULAR TO ROUND TRANSITION

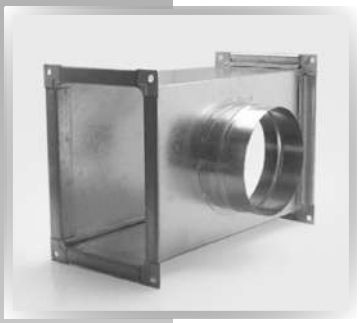




BRANCH CONNECTION – TAKE OFF

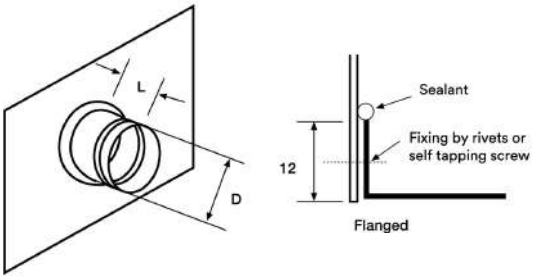
90° ROUND BRANCH CONNECTION – TAKE OFF





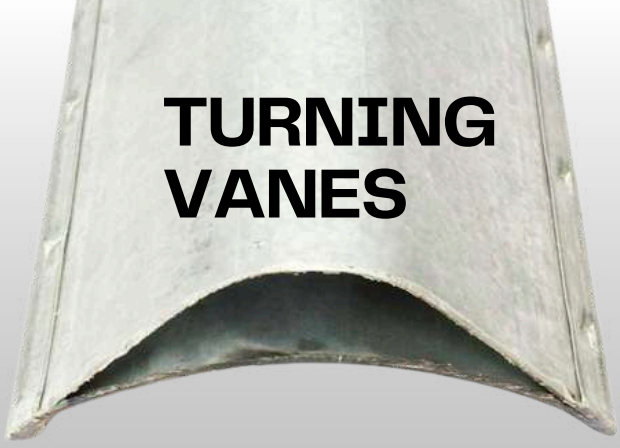
BRANCH CONNECTION – TAKE OFF

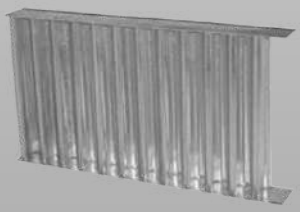
90° ROUND BRANCH CONNECTION – TAKE OFF [FLANGED]

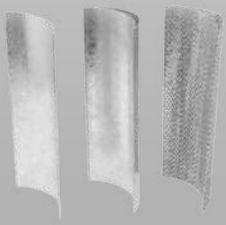


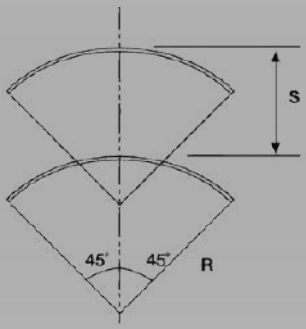
Pro-Duct Industries

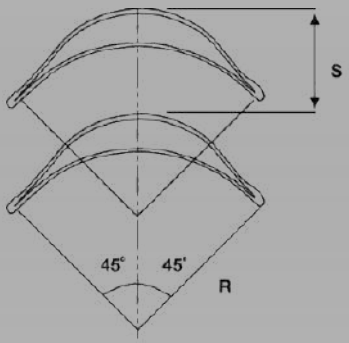
TURNING VANES











Duct Size	Single Vane Schedule			
	Type	R	S	Ga
900-0	Small	50	38	24
900 Up	Large	115	83	22

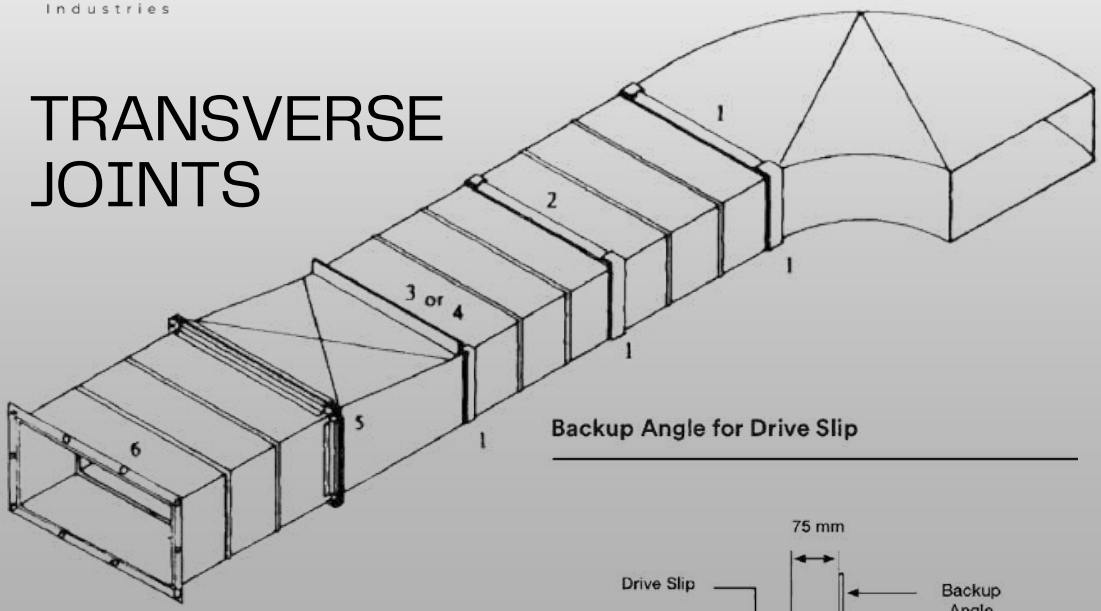
* 1500 Up Segmented

Duct Size	Double Vane Schedule			
	Type	R	S	Ga
1000-0	Small	50	54	26
1000 Up	Large	115	83	24

* 1500 Up Segmented

Pro-Duct
Industries

TRANSVERSE JOINTS

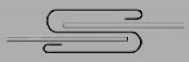


Backup Angle for Drive Slip

Drive Slip & Hemmed "S" Slip

Drive Slip

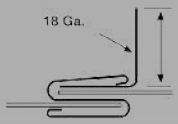
1



Hemmed "S" Slip

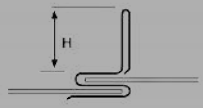
2

Reinforced "S" Slip & Standing S



Reinforced "S" Slip

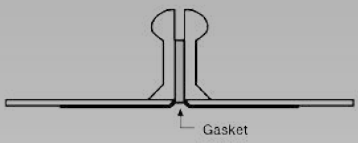
3



Standing S

4

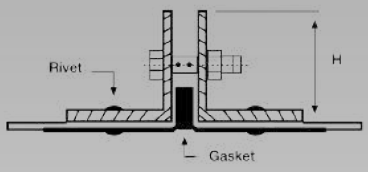
Slide on Flange: SAF - 30



Flange - SAF - 30

5

Companion Angles



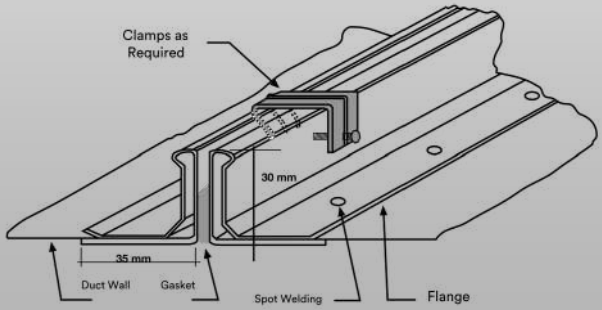
Companion Angles

6

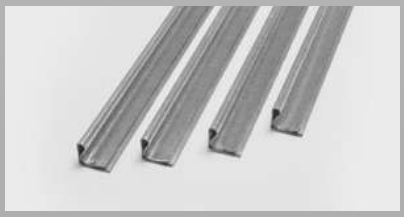
Pro-Duct
Industries

DUCTWORK CONSTRUCTION SCHEDULE

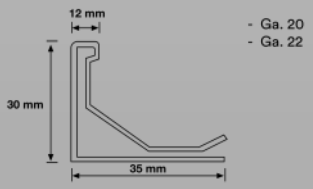
Flange Joint System



Slide on Flange

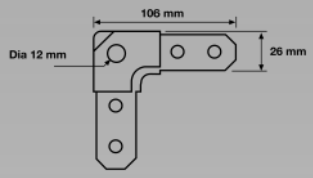


Dimensions



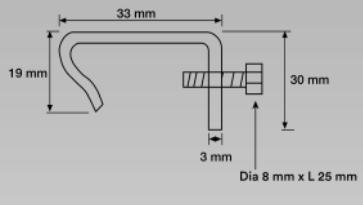
Corner Piece

Dimensions



Clamp

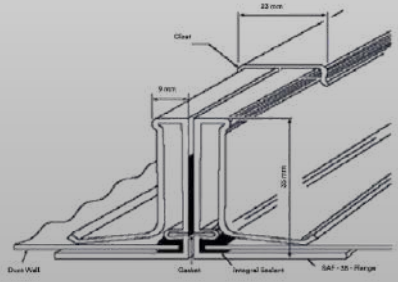
Dimensions



Pro-Duct
Industries

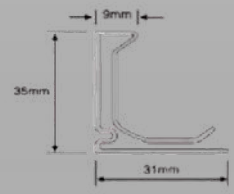
DUCTWORK CONSTRUCTION SCHEDULE

Flange Joint System



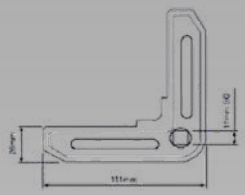
Slide on Flange

Dimensions



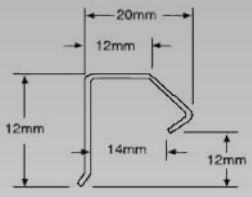
Corner Piece: SACP - 35

Dimensions



Cleat

Dimensions



Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 1-1: 2” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 457	26	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 914	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1219	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1524	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1525 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

SMACNA

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 1-2: 2” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	26	Double Corner Seam	Not Required	Hemmed “S” Slip Drive Slip (24 Ga.)
306 - 457	26	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 914	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1219	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1524	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1525 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744-3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 1-3: 2” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	26	Double Corner Seam	Not Required	Hemmed “S” Slip Drive Slip (24 Ga.)
306 - 457	26	Double Corner Seam	Not Required	Reinforced “S” Slip with 25x25x16 Ga. Drive Slip (24 Ga.)
458 - 914	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1219	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1524	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1525 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744-3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 1-4: 2” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 457	26	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
458 - 914	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
915 - 1067	22	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
1068 - 1219	22	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
1220 - 1524	20	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
1525 - 2134	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
2135 - 2438	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 2-1: 3” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763 - 1067	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1219	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

SMACNA

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 2-2: 3” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Hemmed “S” Slip Drive Slip (24 Ga.)
306 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763 - 1067	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1219	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 2-3: 3" W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Hemmed "S" Slip Drive Slip (24 Ga.)
306 - 457	24	Double Corner Seam	Not Required	Reinforced "S" Slip with 25x25x16 Ga. Drive Slip (24 Ga.)
458 -762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763 - 1067	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1219	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1220 - 1829	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1830 - 2438	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744-3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 2-4: 3” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
306 - 762	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
763 - 914	22	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
915 - 1067	22	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
1068 - 1219	20	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
1220 - 1829	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
1830 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm

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DUCTWORK CONSTRUCTION SCHEDULE

Table 3-1: 4” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763- 914	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1067	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1524	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1525 - 2134	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2135 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2744-3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 3-2: 4" W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 203	24	Double Corner Seam	Not Required	Hemmed "S" Slip Drive Slip (24 Ga.)
204 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763 - 914	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1067	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1524	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1525 - 2134	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2135 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 3-3: 4" W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Reinforced "S" Slip with 25x25x16 Ga. Drive Slip (24 Ga.)
306 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	24	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763 - 914	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1067	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
1068 - 1524	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1525 - 2134	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
2135 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2744 - 3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 3-4: 4” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 406	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
407 - 762	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
763- 914	22	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
915 - 1067	20	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
1068 - 1524	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
1525 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2744-3048	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod

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Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 4-1: 6” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 457	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
458 - 762	22	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
763- 914	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
915 - 1219	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1220 - 1829	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
1830 - 2134	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2135 - 2438	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2439 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 TIE Rod
2744 - 3048	18	Pittsburgh Lock Seam	60x60x6 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 60x60x6 mm + 1 Tie Rod

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 4-2: 6” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 559	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
560 - 660	22	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
661 - 762	22	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
763 - 914	20	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
915 - 1219	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
1220 - 1524	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
1525 - 2134	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
2135 - 2743	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2744 - 3048	18	Pittsburgh Lock Seam	60x60x6 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 60x60x6 mm + 1 Tie Rod

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Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 5-1: 10” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
306 - 356	22	Double Corner Seam	Not Required	Slide on Flange (SAF-20/25/30/35)
357 - 457	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
458 - 660	20	Double Corner Seam	Not Required	Slide on Flange (SAF-30/35)
661 - 711	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-30/35)
712 - 1067	18	Pittsburgh Lock Seam	Not Required	Slide on Flange (SAF-40/45)
1068 - 1372	18	Pittsburgh Lock Seam	40x40x4 mm Angle @ 600 mm max. c-c	Slide on Flange (SAF-40/45)
1373 - 1524	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
1525 - 2134	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2135 - 2743	16	Pittsburgh Lock Seam	60x60x6 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 60x60x6 mm + 1 Tie Rod
2744 - 3048	16	Pittsburgh Lock Seam	60x60x6 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 60x60x6 mm + 1 Tie Rod

Pro-Duct Industries

DUCTWORK CONSTRUCTION SCHEDULE

Table 5-2: 10” W.G. Pressure Class as per SMACNA 2005 Third Edition

Maximum Duct Dimension	U.S. Gauge	Longitudinal Seams	Intermediate Reinforcement	Transverse Connections
0 - 305	24	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
306 - 356	22	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
357 - 508	20	Double Corner Seam	Not Required	Companion Angle 30x30x3 mm
509 - 660	20	Double Corner Seam	Not Required	Companion Angle 40x40x4 mm
661 - 711	18	Pittsburgh Lock Seam	Not Required	Companion Angle 40x40x4 mm
712 - 1067	18	Pittsburgh Lock Seam	Not Required	Companion Angle 50x50x5 mm
1068 - 1524	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c	Companion Angle 50x50x5 mm
1525 - 2134	18	Pittsburgh Lock Seam	50x50x5 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 50x50x5 mm + 1 Tie Rod
2135 - 3048	16	Pittsburgh Lock Seam	60x60x6 mm Angle @ 600 mm max. c-c + 1 Tie Rod	Companion Angle 60x60x6 mm + 1 Tie Rod

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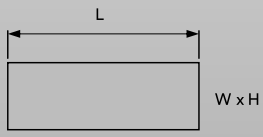
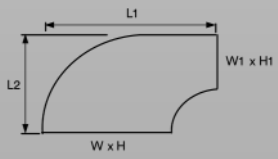
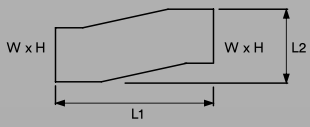
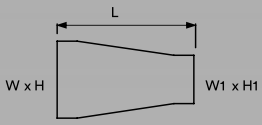
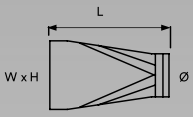
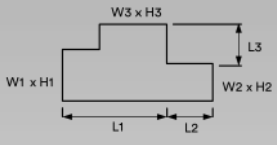
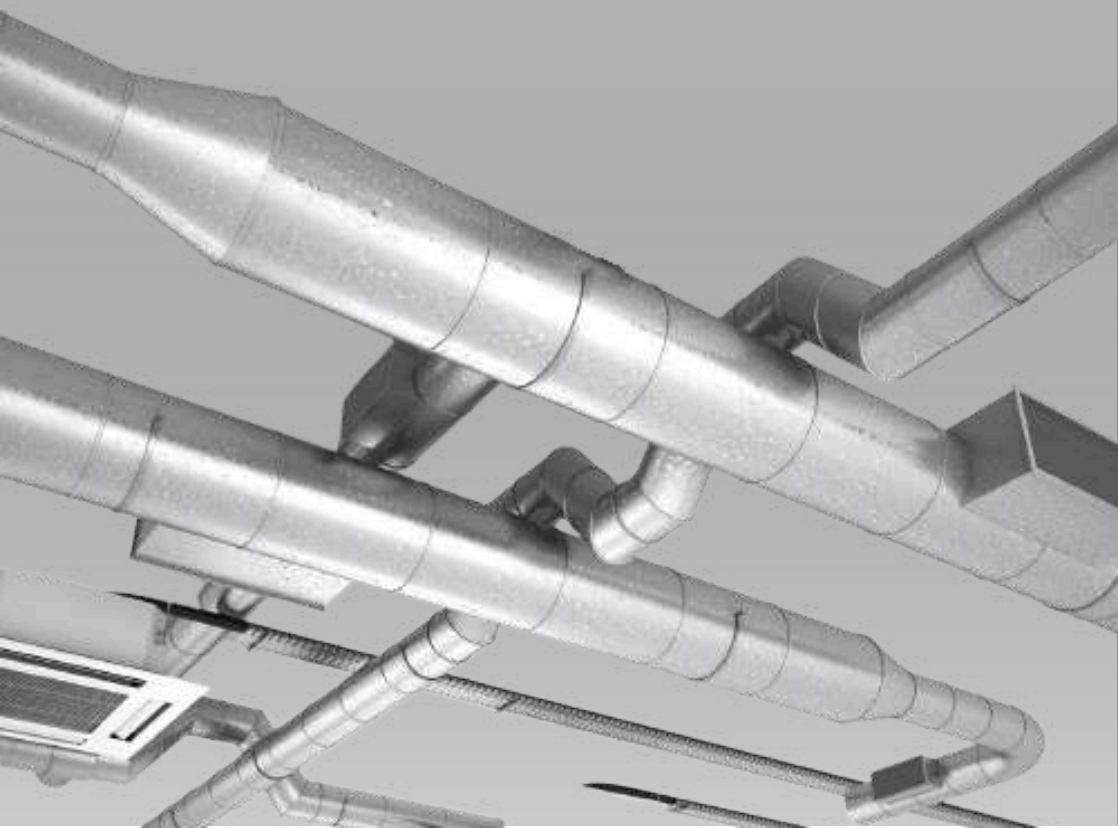
Pro-Duct Industries

METHOD OF SURFACE AREA CALCULATION

Description	Formula	Detail
Straight Duct	A = 2 (W+H) L	
Elbow	A = 2 (W+H)(L1+L2)	
Offset	A = 2 (W+H)(L1+L2)	
Reducer	A = 2 (W+H) L	
Transition	A = 2 (W+H) L	
Tee	A = 2 (W1+H1) L1 +2 (W2+H2) L2 +2 (W3 + H3) L3	

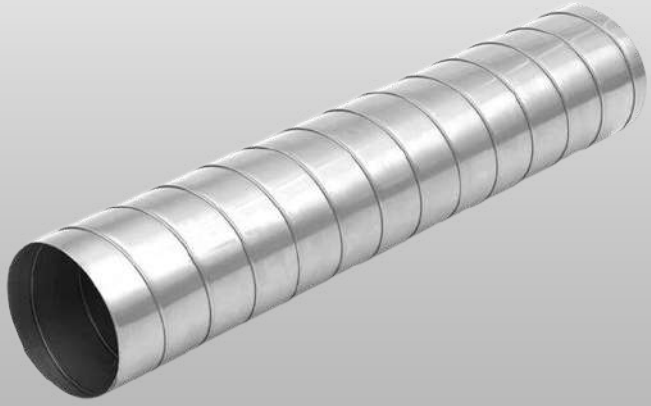
Pro-Duct
Industries

ROUND DUCT & FITTINGS



Pro-Duct
Industries

SPIRAL DUCT



Description

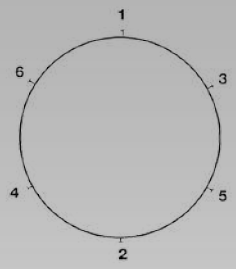
Pro-Duct must be assembled according to these instructions:
Before Assembly
The duct must be free from dirt.
Shortening Ducts Ducts must be cut at right angles and carefully deburred. Assembly of Fittings

- Check that ducts and fittings are undamaged.
- Push the fittings into the duct right to the stop. Turning the fitting a little makes insertion easier.
- Fasten the fittings to the duct with self-tapping screws or pop rivets.

The following numbers and dimensions of steel screws and pop rivets are recommended:

Ød mm	Min. Diameter mm	Number
63 - 125	3.2	2
140 - 250	3.2	3
280 - 630	3.2	4
710 - 1250	4.0	6
1400 - 1600	4.8	12

Distribute the screws or pop rivets evenly around the circumference. In the event of incorrect assembly, holes caused by screws or pop rivets must be sealed



Pro-Duct Industries

CONSTRUCTION STANDARDS

Table 1-1: Spiral Duct Wall Thickness Schedule (Positive Pressure)

Duct Diameter (mm)	+500 Pa (2" W.G.) Positive Pressure			Duct Diameter (mm)	+1000 Pa (4" W.G.) Positive Pressure			Duct Diameter (mm)	+2500 Pa (10" W.G.) Positive Pressure			Transverse Joints
	Spiral Seam		Longitudinal Seam Gauge		Spiral Seam		Longitudinal Seam Gauge		Spiral Seam		Longitudinal Seam Gauge	
	Gauge	Profile			Gauge	Profile			Gauge	Profile		
051 - 497	26	KG	24	051 - 497	26	KG	24	051 - 497	26	KG	24	Coupling
500 - 608	26	PKG	24	500 - 608	26	PKG	24	500 - 608	26	PKG	24	Coupling
623 - 900	24	PKG	22	623 - 900	24	PKG	22	623 - 900	24	PKG	22	Coupling
936 - 1000	24	PKG	20	936 - 1000	24	PKG	20	936 - 1000	24	PKG	20	Coupling
1020 - 1062	24	PKG	20	1020 - 1062	24	PKG	20	1020 - 1062	24	PKG	20	Flange @ 6m
1100 - 1250	22	PKG	20	1100 - 1250	22	PKG	20	1100 - 1250	22	PKG	20	Flange @ 6m
1300 - 1700	22	PKG	18	1300 - 1700	22	PKG	18	1300 - 1700	22	PKG	18	Flange @ 6m
1750 - 2500	18	TR	18	1750 - 2500	18	TR	18	1750 - 2500	18	TR	18	Flange @ 3m

- Round fittings shall have a wall thickness not less than specified for longitudinal seam ducts in above Table 1-1.
- Longitudinal seam ducts are continuously welded and supplied in 1 meter as standard length.
- The standard size of flange for ducts in Table 1-1 is 50x50x50mm angles.
- The above schedule meets the requirements of SMACNA HVAC Duct Construction Standards, Metal and Flexible, Third Edition 2005.

Pro-Duct Industries

CONSTRUCTION STANDARDS

TABLE 1-2: SPIRAL DUCT WALL THICKNESS SCHEDULE (NEGATIVE PRESSURE)

Duct Diameter (mm)	-500 Pa (2" W.G.) Negative Pressure			Duct Diameter (mm)	-1000 Pa (4" W.G.) Negative Pressure			Duct Diameter (mm)	-2500 Pa (10" W.G.) Negative Pressure			Transverse Joints
	Spiral Seam		Longitudinal Seam Gauge		Spiral Seam		Longitudinal Seam Gauge		Spiral Seam		Longitudinal Seam Gauge	
	Gauge	Profile			Gauge	Profile			Gauge	Profile		
051 - 305	26	KG	24	051 - 305	26	KG	24	051 - 180	26	KG	24	COUPLING
315 - 403	26	KG	24	315 - 403	24	KG	22	200 - 250	26	KG	24	COUPLING
418 - 497	24	KG	22	404 - 497	22	KG	20	280 - 305	24	KG	22	COUPLING
500 - 550	24	PKG	22	500 - 508	22	PKG	20	315 - 355	22	KG	20	COUPLING
552 - 900	24	PKG	22	518 - 1000	22	PKG	20	372 - 750	22	PKG	20	FLANGE @ 6M
936 - 1062	24	PKG	20	1020 - 1250	22	PKG	20	770 - 1000	20	PKG	20	FLANGE @ 6M
1100 - 1250	22	PKG	20	1300 - 1500	22	PKG	18	1020 - 1200	20	PKG	20	FLANGE @ 6M
1300 - 1700	22	PKG	18	1550 - 1700	20	PKG	18	1250 - 1700	20	PKG	18	FLANGE @ 6M
1750 - 1800	18	TRG	18	1750 - 1800	18	TRG	18	1750 - 1800	18	PKG	18	FLANGE @ 3M
1850 - 1900	18	TRG	18	1850 - 1900	18	TRG	18	1850 - 1900	18	TRG	18	FLANGE @ 3M
2000 - 2500	18	TRG	18	2000 - 2500	18	TRG	18	2000 - 2500	18	TRG	16	FLANGE @ 3M +1 REINF FOR 10"W.G.

- Round fittings shall have a wall thickness not less than specified for longitudinal seam ducts in above Table 1-2.
- Longitudinal seam ducts are continuously welded and supplied in 1 meter length.
- The above Schedule meets the requirements of SMACNA HVAC Duct Construction Standards Metal and Flexible, Third Edition 2005.

Consult SAFID for more details of flange transverse joints construction of ducts in above Table 1-2.

Pro-Duct Industries

CONSTRUCTION STANDARDS

Table 1-3: Spiral Duct Wall Thickness Schedule (as per DW 144)

Maximum Diameter (mm)	Spiral Duct	Longitudinal Seam Low+ Medium Pressure	Longitudinal Seam High Pressure	Fittings
205	0.6 mm	0.6 mm	0.8 mm	0.7 mm
206 - 510	0.8 mm	0.8 mm	0.8 mm	0.7 mm
511 - 630	0.8 mm	0.8 mm	1.0 mm	0.8 mm
631 - 762	0.8 mm	0.8 mm	1.0 mm	1.0 mm
763 - 913	0.8 mm	0.8 mm	1.2 mm	1.0 mm
914 - 1020	1.0 mm	1.0 mm*	1.2 mm*	1.0 mm
1021 - 1525	1.2 mm*	1.2 mm*	1.2 mm*	1.2 mm*

• Longitudinal seam ducts are continuously welded and supplied in 1 meter length.
• The above schedule meets all requirements of DW/144 specifications for sheet metal ductworks.

*Spiral Ducts should be helically beaded (corrugated). Longitudinal ducts and fittings must be reinforced with angles. For more details on constructions schedule consult SAFID.

Table 1-4: Spiral Duct Wall Thickness Schedule (Eurovent)

Diameter (mm)	Operating Pressure	
	160 mm W.G. Max	250 mm W.G.Max
63 - 125	0.60	0.75
180 - 259	0.75	0.88
280 - 500	0.88	1.00
560 - 1000	1.00	1.13
1120 - 1400	1.13	1.25
1600 - 2000	1.13	-

• Circular fittings shall be one gauge heavier than the spiral ducts gauge in above Table 1-4.
• Corrugated ducts are not reflected in the above schedule.
• Longitudinal seam ducts should be one gauge heavier than spiral duct gauge and shall be continuously welded and supplied in 1 meter length.

Pro-Duct Industries

DIMENSIONS

Duct Diameter

SRG-A

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
80	3	6	0.251	0.005
100	3	6	0.314	0.008
125	3	6	0.393	0.012
150	3	6	0.471	0.018
180	3	6	0.566	0.025
200	3	6	0.628	0.005
225	3	6	0.707	0.025
250	3	6	0.786	0.031
315	3	6	0.990	0.078
350	3	6	1100	0.096
400	3	6	1.257	0.126
450	3	6	1.414	0.159
500	3	6	1.571	0.196
550	3	6	1.728	0.238
600	3	6	1.885	0.283
630	3	6	1.979	0.312
650	3	6	2.042	0.332
700	3	6	2.199	0.385
750	3	6	2.356	0.442
800	3	6	2.513	0.503
850	3	6	2.670	0.567
900	3	6	2.828	0.636

Duct Diameter

SRG-A

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
950	3	6	2.985	0.709
1000	3	6	3.142	0.785
1100	3	6	3.456	0.950
1150	3	6	3.613	1.039
1200	3	6	3.770	1.131
1250	3	6	3.927	1.227
1300	3	6	4.084	1.327
1350	3	6	4.241	1.432
1400	3	6	4.398	1.540
1450	3	6	4.555	1.652
1500	3	6	4.712	1.767
1600	3	6	5.027	2.011
1700	3	6	5.3414	2.270
1800	3	6	5.655	2.545
1900	3	6	5.969	2.836
2000	3	6	6.284	3.142
2100	3	6	6.598	3.464
2200	3	6	6.912	3.464
2300	3	6	7.227	3.802
2400	3	6	7.541	4.524
2500	3	6	7.855	4.909

Pro-Duct Industries

DIMENSIONS

Duct Diameter

SRG-B

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
200	3	6	0.628	0.005
225	3	6	0.707	0.025
250	3	6	0.786	0.031
315	3	6	0.990	0.078
350	3	6	1.100	0.096
400	3	6	1.257	0.126
450	3	6	1.414	0.159
500	3	6	1.571	0.196
550	3	6	1.728	0.238
600	3	6	1.885	0.283
630	3	6	1.979	0.312
650	3	6	2.042	0.332
700	3	6	2.199	0.389
750	3	6	2.356	0.442
800	3	6	2.513	0.503
850	3	6	2.670	0.567
900	3	6	2.828	0.636
950	3	6	2.985	0.709
1000	3	6	3.142	0.785

Duct Diameter

SRG-B

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
1100	3	6	3.456	0.950
1150	3	6	3.613	1.039
1200	3	6	3.770	1.131
1250	3	6	3.927	1.227
1300	3	6	4.084	1.327
1350	3	6	4.241	1.431
1400	3	6	4.389	1.539
1450	3	6	4.555	1.651
1500	3	6	4.712	1.767
1600	3	6	5.027	2.011
1700	3	6	5.341	2.270
1800	3	6	5.655	2.545
1900	3	6	5.969	2.836
2000	3	6	6.284	3.142
2100	3	6	6.598	3.464
2200	3	6	6.912	3.464
2300	3	6	7.227	3.802
2400	3	6	7.541	4.524
2500	3	6	7.855	4.909

Pro-Duct Industries

DIMENSIONS

Duct Diameter

SRG-C

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
315	3	6	0.990	0.078
350	3	6	1.100	0.096
400	3	6	1.257	0.126
450	3	6	1.414	0.159
500	3	6	1.571	0.196
550	3	6	1.728	0.238
600	3	6	1.885	0.283
630	3	6	1.979	0.312
650	3	6	2.042	0.332
700	3	6	2.199	0.385
750	3	6	2.356	0.442
800	3	6	2.513	0.503
850	3	6	2.670	0.567
900	3	6	2.828	0.636
950	3	6	2.985	0.709
1000	3	6	3.142	0.785
1100	3	6	3.456	0.950

Duct Diameter

SRG-C

Ød mm	L1 m	Std/L2/M	Circumference πd / m	Area πr²/ m²
1150	3	6	3.613	1.039
1200	3	6	3.770	1.131
1250	3	6	3.927	1.227
1300	3	6	4.088	1.327
1350	3	6	4.241	1.431
1400	3	6	4.398	1.539
1500	3	6	4.712	1.767
1600	3	6	5.027	2.011
1700	3	6	5.3414	2.270
1800	3	6	5.655	2.545
1900	3	6	5.969	2.836
2000	3	6	6.284	3.142
2100	3	6	6.598	3.464
2200	3	6	6.912	3.464
2300	3	6	7.227	3.802
2400	3	6	7.541	4.524
2500	3	6	7.855	4.909

Pro-Duct Industries

WEIGHTS (KG/M)

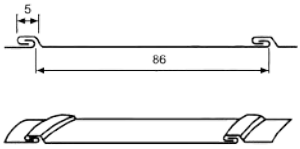
Thickness Dia (mm) \ Gauge	SRG-A, SRG-B, SRG-C				
	26	24	22	20	18
63	1.0				
80	1.3				
100	1.6	2.0			
112	1.8	2.3			
125	2.0	2.5			
140	2.2	2.8	3.4		
160	2.5	3.2	3.9		
180	2.8	3.7	4.4		
200	3.2	4.1	4.9	5.8	
224	3.5	4.5	5.5	6.5	
250	4.0	5.1	6.1	7.2	9.4
280	4.4	5.7	6.9	8.1	10.6
315	5.0	6.4	7.7	9.1	11.9
355	5.6	7.2	8.7	10.3	13.4
400	6.3	8.1	9.8	11.6	15.1
450	7.1	9.1	11.0	13.0	17.0
500	7.9	10.1	12.3	14.5	18.8
550	8.7	11.1	13.5	15.9	20.7
630	10.0	12.7	15.4	18.2	23.7
710			17.4	20.5	26.8
800			19.7	23.1	30.1
900			22.1	26.0	33.9
1000				28.9	37.7
1120				32.4	42.2
1250				36.2	47.1
1400					52.7
1600					60.3

Pro-Duct Industries

SPIRAL STRAIGHT DUCT

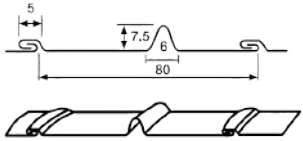
SPIRAL DUCT

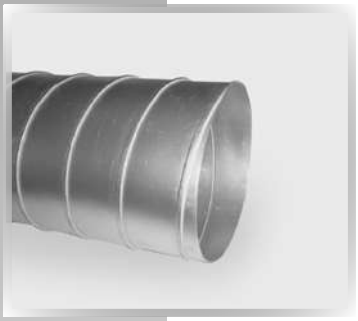
- SPIRALLY WOUND ROUND DUCT
- DIAMETER RANGE: 51 – 1600 MM
- THICKNESS RANGE: 26 – 18 GAUGE



SPIRAL DUCT

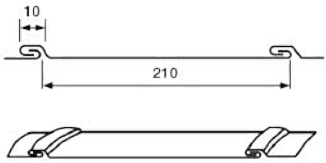
- SPIRALLY WOUND CORRUGATED ROUND DUCT
- DIAMETER RANGE: 160 – 1600 MM
- THICKNESS RANGE: 26 – 18 GAUGE





SPIRAL DUCT

- SPIRALLY WOUND HEAVY DUTY ROUND DUCT
- DIAMETER RANGE: 315 – 3150 MM
- THICKNESS RANGE: 20 – 12 GAUGE

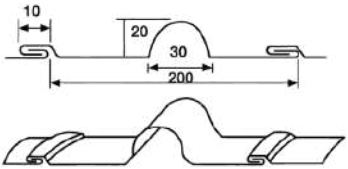


Pro-Duct Industries

SPIRAL STRAIGHT DUCT

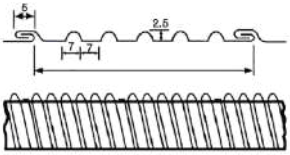
SPIRAL DUCT

- SPIRALLY WOUND CORRUGATED HEAVY DUTY ROUND DUCT
- DIAMETER RANGE: 315 – 3150 MM
- THICKNESS RANGE: 20 – 12 GAUGE



SPIRAL DUCT

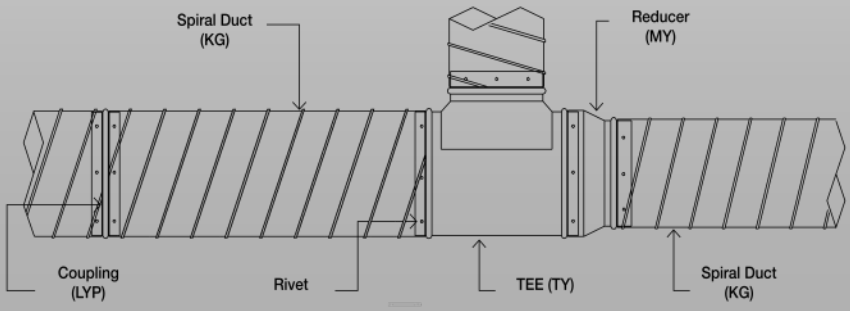
- SPIRALLY WOUND MULTI-CORRUGATED ROUND DUCT
- DIAMETER RANGE: 63 – 152 MM
- THICKNESS RANGE: 26 – 24 GAUGE

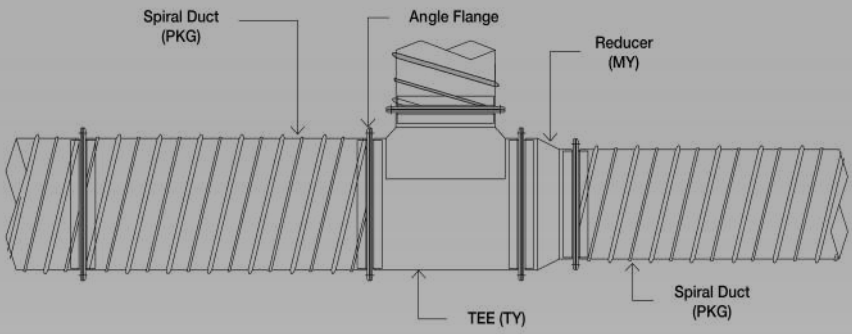


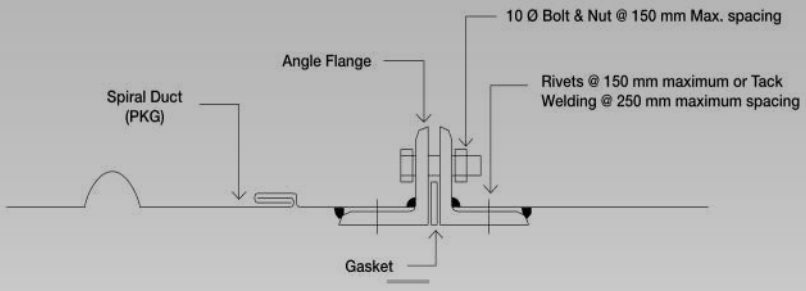
Pro-Duct Industries

TRANSVERSE CONNECTIONS

Table 1-6: Typical Transverse Joints







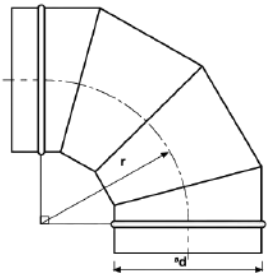
Pro-Duct Industries

ROUND FITTINGS

BEND 90° (r = d)

- R = D
- 4 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.

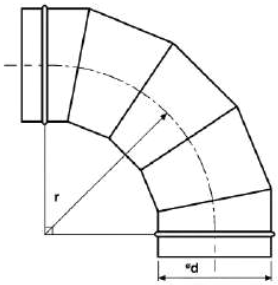
Dimensions



BEND 90° (r = 1.5 d)

- R = 1.5 D
- 5 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.

Dimensions

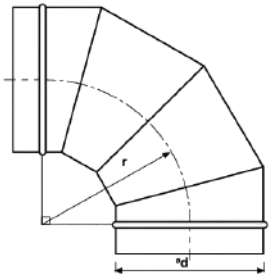


ROUND FITTINGS

BEND 45°

- R = 1.5 D
- 3 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.

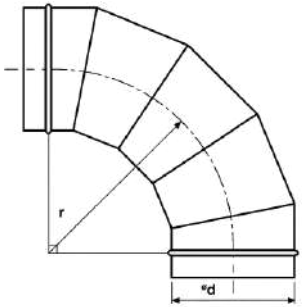
Dimensions



BEND 60°

- R = 1.5 D
- 4 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.

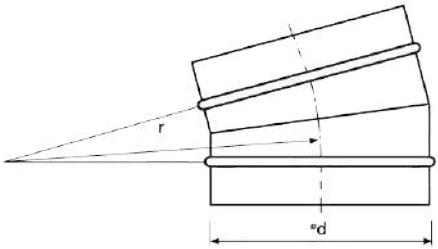
Dimensions



ROUND FITTINGS

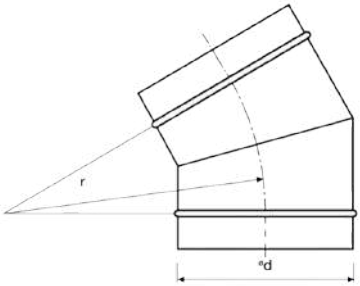
BEND 15°

- R = 1.5 D
- 2 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING



BEND 30°

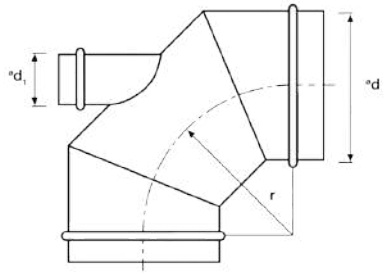
- R = 1.5 D
- 2 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

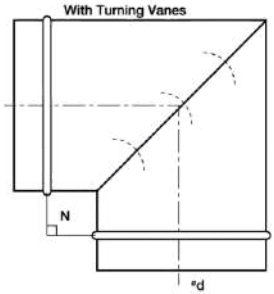
HEEL TAPPED BEND 90°

- R = D
- 3 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING



MITERED BEND 90°

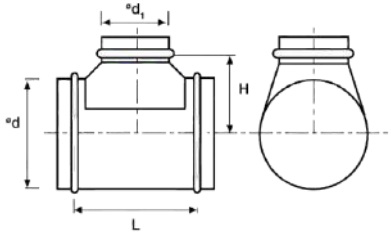
- N=100
- 2 – GORE BEND (SEGMENTED) AS A STANDARD
- WITH TURNING VANES
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

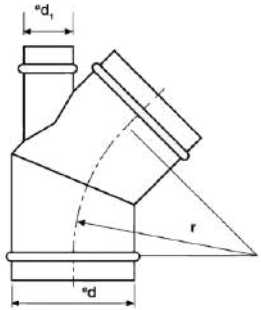
TEE

- EQUAL TEE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



HEEL TAPPED BEND 45°

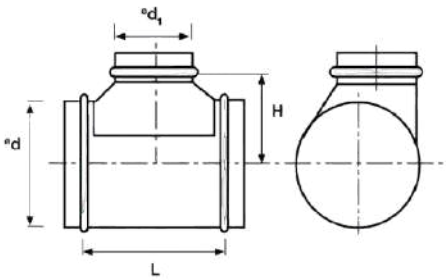
- R = D
- 2 – GORE BEND (SEGMENTED) AS A STANDARD
- FABRICATED WITH EITHER STANDING SEAM, CONTINUOUS SEAM OR STITCH WELDING



ROUND FITTINGS

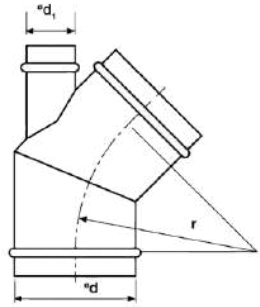
ECCENTRIC TEE

- ECCENTRIC TEE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



REDUCING TEE

- REDUCING TEE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.

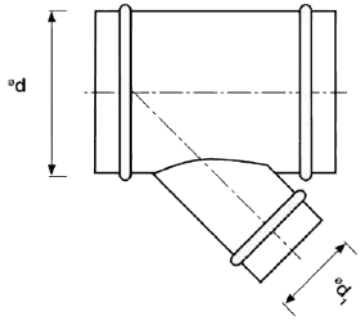


Pro-Duct Industries

ROUND FITTINGS

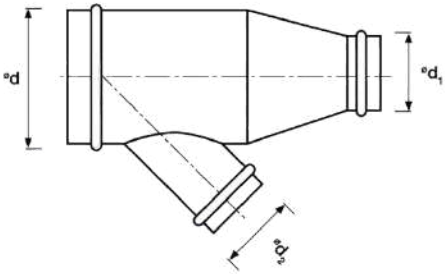
LATERAL TEE

- 45° LATERAL TEE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



REDUCING LATERAL TEE

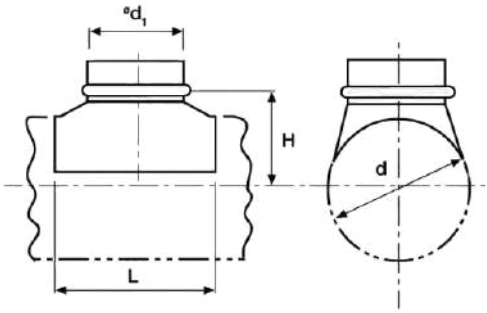
- 45° REDUCING LATERAL TEE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

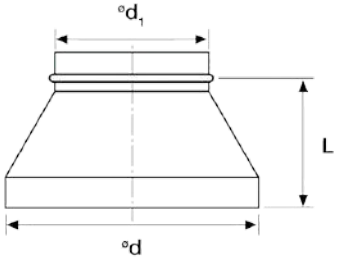
COLLAR SADDLE

- COLLAR SADDLE
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



REDUCER

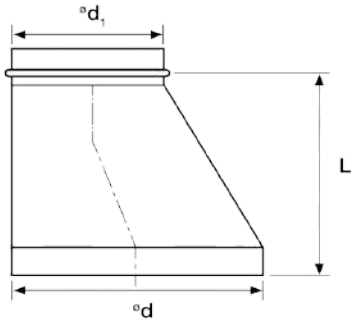
- REDUCER CENTRIC = FEMALE / MALE
- ØD1 – CONNECTED STRAIGHT TO SPIRAL DUCT
- ØD – CONNECTED STRAIGHT TO FITTINGS
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

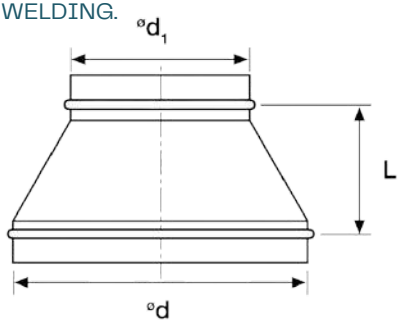
REDUCER

• REDUCER ECCENTRIC = FEMALE / MALE
• ØD1 – CONNECTED STRAIGHT TO SPIRAL DUCT
• ØD – CONNECTED STRAIGHT TO FITTINGS
• FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



REDUCER

• REDUCER CENTRIC = MALE / MALE
• ØD1 – CONNECTED STRAIGHT TO SPIRAL DUCT
• ØD – CONNECTED STRAIGHT TO SPIRAL DUCTS
• FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.

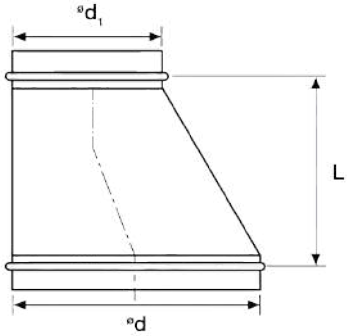


Pro-Duct Industries

ROUND FITTINGS

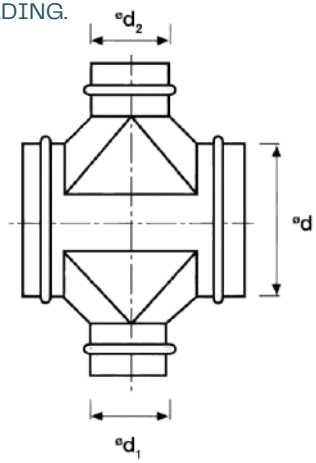
REDUCER

• REDUCER ECCENTRIC = MALE / MALE
• ØD1 – CONNECTED STRAIGHT TO SPIRAL DUCT • ØD – CONNECTED STRAIGHT TO SPIRAL DUCT • FABRICATED WITH CONTINOUS SEAM OR STITCH WELDING.



CROSS

• CROSS
• FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.

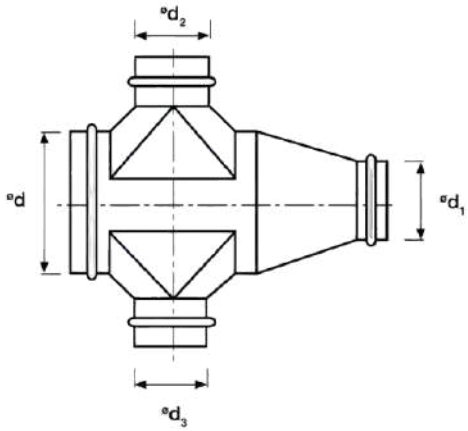


Pro-Duct Industries

ROUND FITTINGS

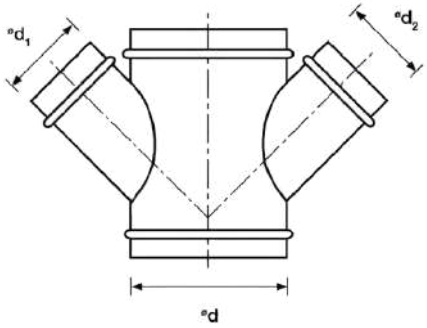
REDUCING CROSS

- REDUCING CROSS
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



LATERAL CROSS

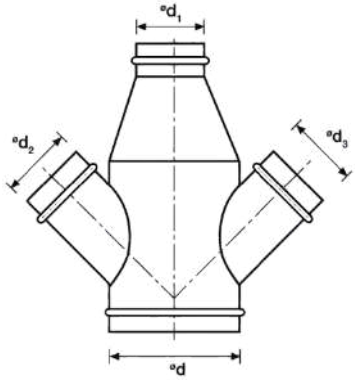
- 45° LATERAL CROSS
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

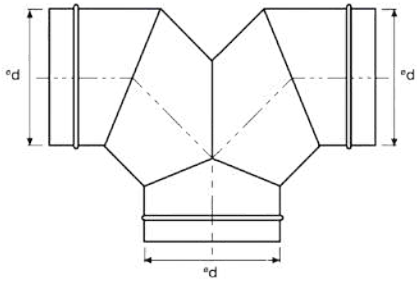
LATERAL REDUCING CROSS

- 45° LATERAL REDUCING CROSS
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



TWINBEND

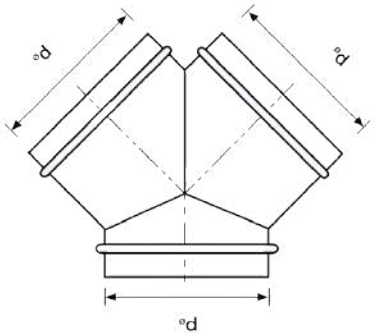
- 90° TWIN BEND
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

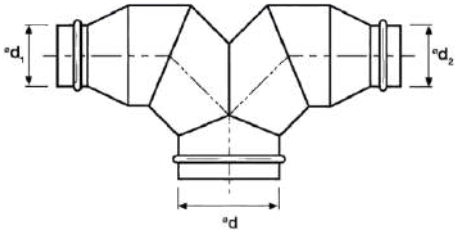
TWINBEND

- 45° TWINBEND
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



REDUCING TWINBEND

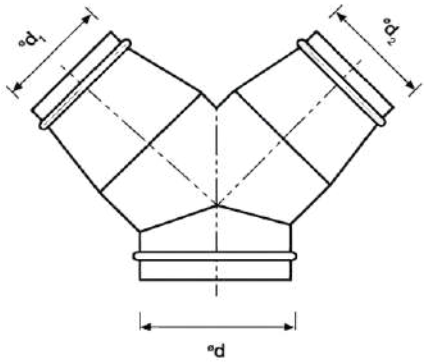
- 90° REDUCING TWINBEND
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

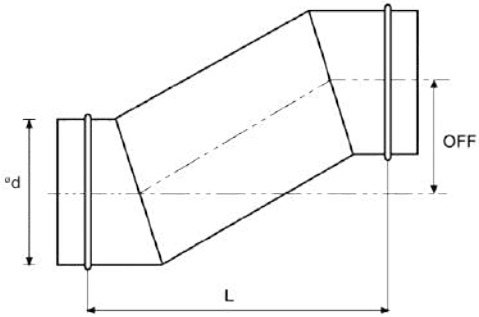
REDUCING TWINBEND

- 45° REDUCING TWINBEND
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



OFFSET

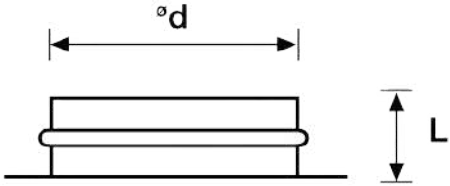
- OFFSET
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

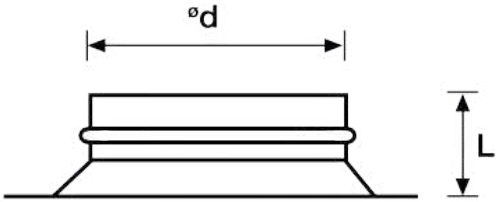
TAKE OFF

- TAKE OFF
- TO BE FIXED ON RECTANGULAR DUCT.
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING



TAKE OFF

- TAKE OFF
- WITH RADIUS.
- TO BE FIXED ON RECTANGULAR DUCT.
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.

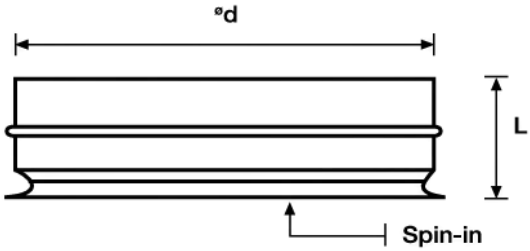


Pro-Duct Industries

ROUND FITTINGS

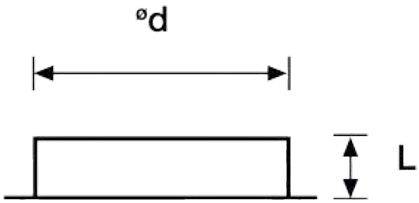
SPIN-IN FITTING

- SPIN-IN FITTING
- TO BE FIXED ON RECTANGULAR DUCT.
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



END CAP

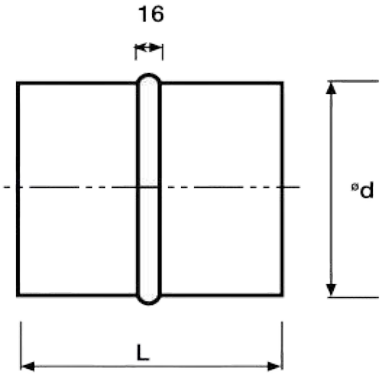
- END CAP
- TO BE FIXED ON SPIRAL DUCT.
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



ROUND FITTINGS

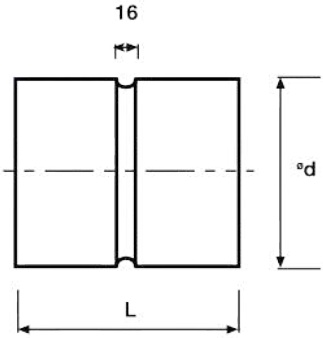
COUPLING

- COUPLING
- DUCT CONNECTOR
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING.



COUPLING

- COUPLING
- FITTING CONNECTOR
- FABRICATED WITH CONTINUOUS SEAM OR STITCH WELDING



Pro-Duct
Industries

PLENUM BOXES

Pro-Duct
Industries

PLENUM BOXES FOR SLOT DIFFUSERS

THE PLENUM BOX IS DESIGNED TO ENSURE EQUAL DISTRIBUTION OF AIR ACROSS THE SLOT DIFFUSERS. THE SUPPLY PLENUM BOX HAS ACOUSTIC LINING TO REDUCE NOISE GENERATED INSIDE THE DUCT DUE TO AIRFLOW TURBULENCE BEFORE REACHING THE DIFFUSER. THE BUILT-IN DAMPER CAN BE OPERATED FROM THE SPIGOT CONNECTION OR FROM FACE OF DIFFUSER.

Plenum Box:

BUILT OF GALVANIZED STEEL SHEET GAUGE 24, CONFORMING TO ASTM A653, LOCK FORMING QUALITY, G90 ZINC COATING.

Insulation:

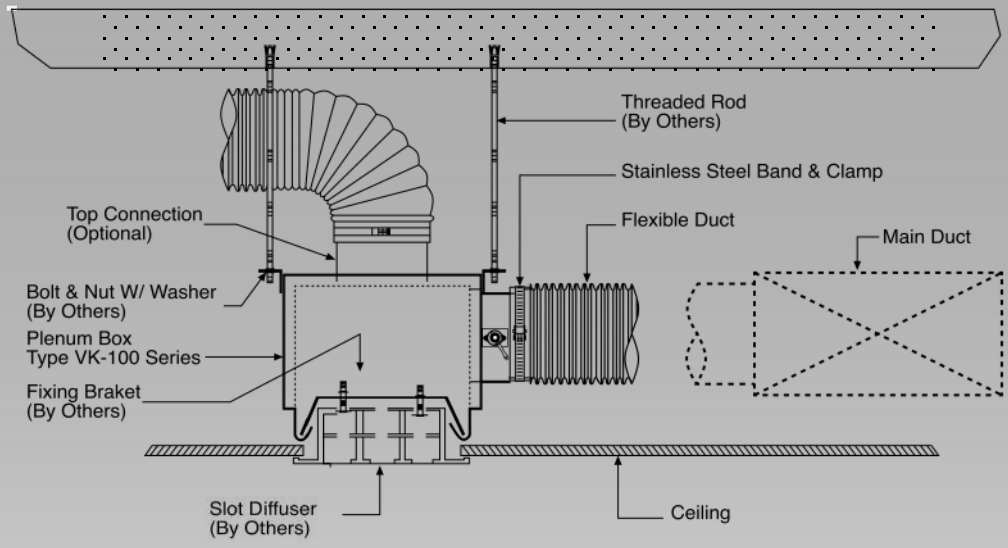
25 MM THICK ACOUSTIC LINING WITH BLACK GLASS TISSUE FACING, 48KG/M3 DENSITY. ACOUSTIC LINING IS FIXED INSIDE THE PLENUM BOX WITH NON-FLAMMABLE ADHESIVE AND MECHANICAL FASTENER (CUPPED HEAD PINS).OR BLACK RUBBER SOUND LINER 6MM FIXES WITH SPECIAL GLUE

Pro-Duct
Industries

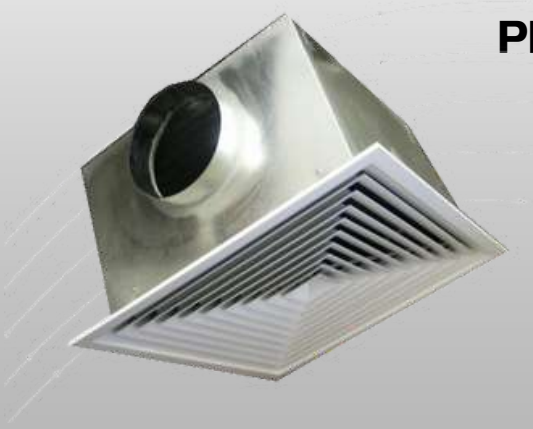
Sizes of Plenum Box

Diffuser No. of Slots	Diffuser Size A x L (mm)	Plenum Size B x L + 6 (mm)	Spigot Inlet dia (mm)
1	40 x L	60 x L + 6	100
2	78 x L	98 x L + 6	150
3	117 x L	137 x L + 6	200
4	155 x L	175 x L + 6	250
5	193 x L	213 x L + 6	300
6	232 x L	252 x L + 6	350
7	270 x L	290 x L + 6	400
8	309 x L	328 x L + 6	450

INSTALLATION DETAILS



Pro-Duct
Industries



PLENUM BOXES FOR SUPPLY DIFFUSERS

PLENUM BOX IS DESIGNED TO ENSURE EQUAL DISTRIBURION OF AIR ACROSS THE SUPPLY DIFFUSERS. THE SUPPLY PLENUM BOX HAS ACOUSTIC LINING TO REDUCE NOISE GENERATED INSIDE THE DUCT DUE TO AIRFLOW TURBULENCE BEFORE REACHING THE DIFFUSER. THE BUILT-IN DAMPER CAN BE OPERATED FROM THE SPIGOT CONNECTION OR FROM FACE OF DIFFUSER.

Plenum Box:

BUILT OF GALVANIZED STEEL SHEET GAUGE 24, CONFORM TO ASTM A653, LOCK FORMING QUALITY, G90 ZINC COATING.

Insulation:

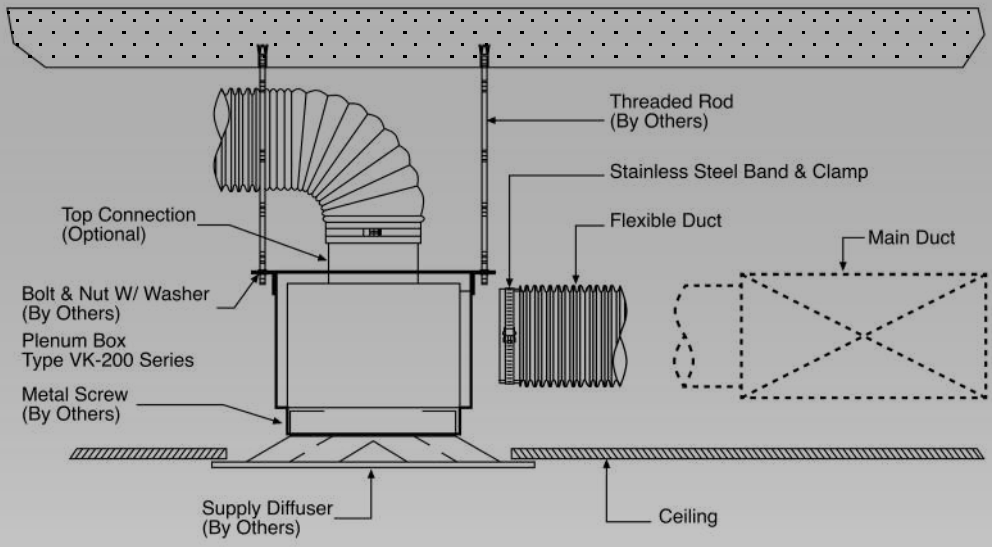
25 MM THICK ACOUSTIC LINING WITH BLACK GLASS TISSUE FACING, 48KG/M3 DENSITY. ACOUSTIC LINING IS FIXED INSIDE THE PLENUM BOX WITH NON-FLAMMABLE ADHESIVE AND MECHANICAL FASTENER (CUPPED HEAD PINS). OR BLACK RUBBER SOUND LINER 6MM FIXES WITH SPECIAL GLUE

Pro-Duct
Industries

Sizes of Plenum Box

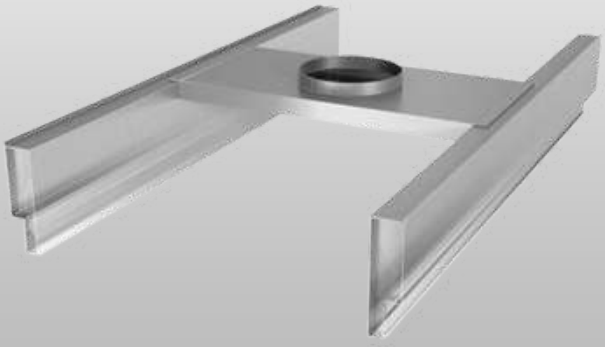
Item No.	Diffuser Size H x L (mm)	Plenum Size H+5 x L+5 (mm)	Spigot Inlet dia (mm)
1	150 x 150	155 x 155	100
2	225 x 225	230 x 230	150
3	300 x 300	305 x 305	200
4	375 x 375	380 x 380	250
5	450 x 450	455 x 455	300
6	525 x 525	530 x 530	350
7	600 x 600	605 x 605	400

INSTALLATION DETAILS



Pro-Duct
Industries

TROFFER DIFFUSERS



PRO-DUCT TROFFER DIFFUSERS ARE DESIGNED TO PROVIDE DOUBLE SIDE CONCEALED AIR DISTRIBUTION WHEN INSTALLED BEHIND THE AIR HANDLING LUMINAIRES (LIGHT FIXTURES). THE TROFFER DIFFUSERS ARE EQUIPPED WITH CONCEALED ADJUSTABLE AIR DEFLECTORS TO PROVIDE HORIZONTAL OR VERTICAL DISCHARGE AIR PATTERN.

PRO-DUCT TROFFER DIFFUSERS ARE COORDINATED WITH LUMINAIRE (LIGHT FIXTURE) MANUFACTURERS TO ENSURE OPTIMUM AIR DISTRIBUTION PERFORMANCE AND EASE OF INSTALLATION. VARIOUS SIZES OF SAFID TROFFER DIFFUSERS ARE AVAILABLE TO FIT WITH ANY MODEL OR STYLE OF LIGHT FIXTURE MANUFACTURERS.

PRO-DUCT TROFFER DIFFUSERS SHOULD BE LOCATED UNIFORMLY IN THE CEILING TOGETHER WITH THE LUMINAIRES IN ORDER TO HAVE A PROPER AIR DISTRIBUTION IN THE OCCUPIED AREA.

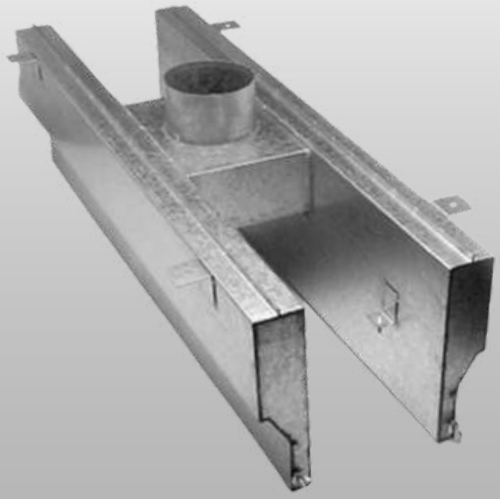
Casing:

BUILT OF GALVANIZED STEEL SHEET GAUGE 22, CONFORM TO ASTM A653, LOCK FORMING QUALITY, G90 ZINC COATING.

Insulation:

12.5MM THICK ACOUSTIC LINING WITH BLACK GLASS TISSUE FACING, 48KG/M3 DENSITY. ACOUSTIC LINING IS FIXED INSIDE THE TROFFER DIFFUSER WITH NON-FLAMMABLE ADHESIVE AND MECHANICAL FASTENER (CUPPED HEAD PINS). OR BLACK RUBBER SOUND LINER 6MM FIXES WITH SPECIAL GLUE

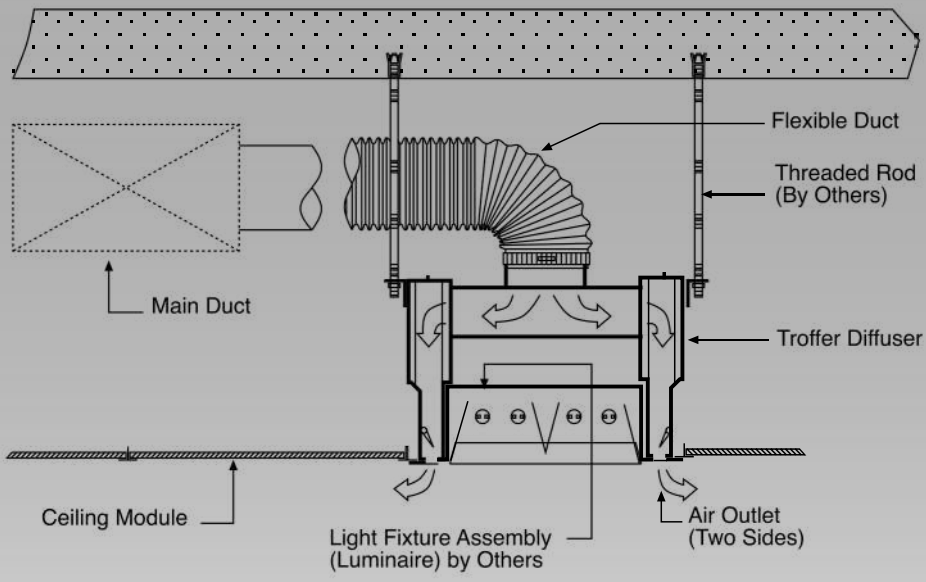
Pro-Duct
Industries



Sizes of Troffer Diffuser

Item No.	Luminaire Size L x W (mm)	Troffer Size (variable) L x W (mm)	Spigot Inlet dia (mm)
1	600 x 600	600 x 600	150
2	600 x 300	600 x 300	150
3	900 x 900	900 x 900	150
4	900 x 600	900 x 600	150
5	900 x 300	900 x 300	150
6	1200 x 1200	1200 x 1200	150
7	1200 x 600	1200 x 600	150
8	1200 x 300	1200 x 300	150

INSTALLATION DETAILS



Pro-Duct Industries

Use for Luminaire (Light Fixture) with Length = 600mm

	Air Flow (L/S)	15	21	23	29	34	38	42	46
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9-1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

Use for Luminaire (Light Fixture) with Length = 900mm

	Air Flow (L/S)	24	34	37	47	55	61	68	75
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

Use for Luminaire (Light Fixture) with Length = 1200mm

	Air Flow (L/S)	33	47	52	66	76	85	94	104
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9-1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

• All above performance data is based on troffer diffuser with 13mm wide slot. Performance may vary with other makes and designs of air troffer.

• All above data is based on inlet size 150mm (6") although the effect on inlet size is negligible in the range of inlets offered.

•Throws vertical and horizontal distances in meters to reach terminal velocities of 0.5 m/s and 0.25 m/s.

Pro-Duct
Industries

SINGLE SIDED TROFFER DIFFUSER

PRO-DUCT TROFFER DIFFUSERS ARE DESIGNED TO PROVIDE DOUBLE SIDE CONCEALED AIR DISTRIBUTION WHEN INSTALLED BEHIND THE AIR HANDLING LUMINAIRES (LIGHT FIXTURES). THE TROFFER DIFFUSERS ARE EQUIPPED WITH CONCEALED ADJUSTABLE AIR DEFLECTORS TO PROVIDE HORIZONTAL OR VERTICAL DISCHARGE AIR PATTERN.

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PRO-DUCT TROFFER DIFFUSERS SHOULD BE LOCATED UNIFORMLY IN THE CEILING TOGETHER WITH THE LUMINAIRES IN ORDER TO HAVE A PROPER AIR DISTRIBUTION IN THE OCCUPIED AREA.

Casing:

BUILT OF GALVANIZED STEEL SHEET GAUGE 22, CONFORM TO ASTM A653, LOCK FORMING QUALITY, G90 ZINC COATING.

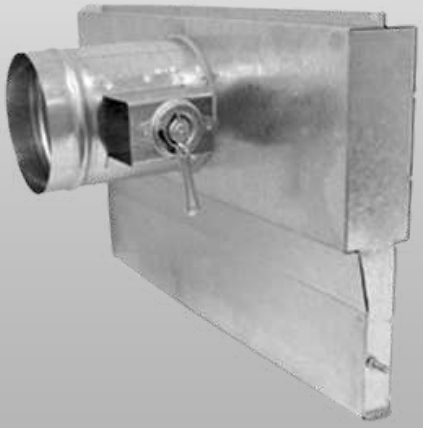
Insulation:

12.5MM THICK ACOUSTIC LINING WITH BLACK GLASS TISSUE FACING, 48KG/M3 DENSITY. ACOUSTIC LINING IS FIXED INSIDE THE TROFFER DIFFUSER WITH NON-FLAMMABLE ADHESIVE AND MECHANICAL FASTENER (CUPPED HEAD PINS). OR BLACK RUBBER SOUND LINER 6MM FIXES WITH SPECIAL GLUE

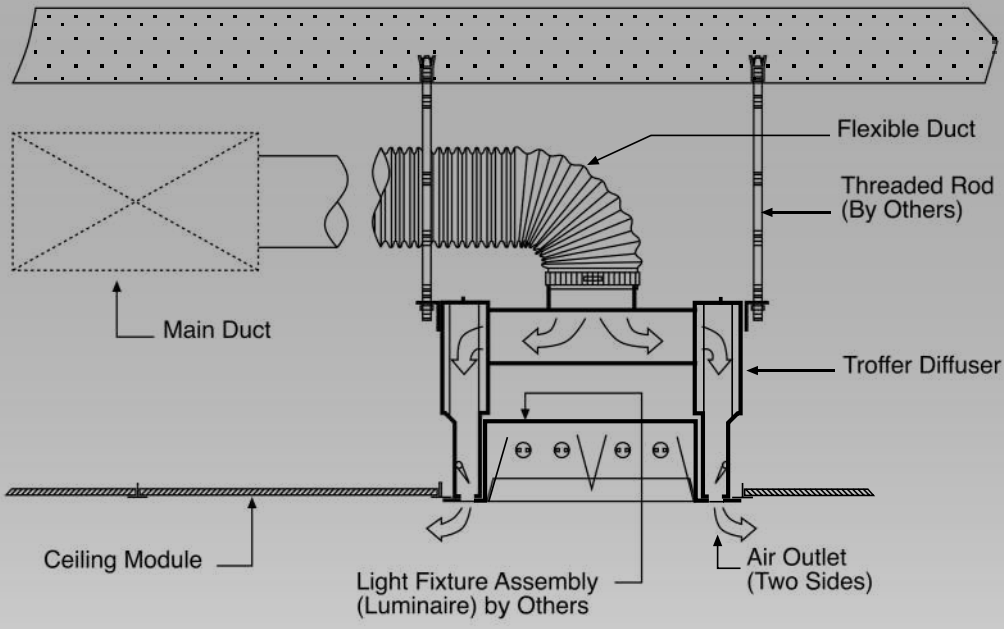
Pro-Duct
Industries

Sizes of Troffer Diffuser

Item No.	Luminaire Size L x W (mm)	Troffer Size (variable) L x W (mm)	Spigot Inlet dia (mm)
1	600 x 600	600 x 600	150
2	600 x 300	600 x 300	150
3	900 x 900	900 x 900	150
4	900 x 600	900 x 600	150
5	900 x 300	900 x 300	150
6	1200 x 1200	1200 x 1200	150
7	1200 x 600	1200 x 600	150
8	1200 x 300	1200 x 300	150



INSTALLATION DETAILS



Pro-Duct Industries

Use for Luminaire (Light Fixture) with Length = 600mm

	Air Flow (L/S)	7	10	12	15	17	19	21	23
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure, Pa	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw, Meter	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

Use for Luminaire (Light Fixture) with Length = 900mm

	Air Flow (L/S)	12	17	18	23	27	30	34	37
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3	0.6	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0 - 2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

Use for Luminaire (Light Fixture) with Length = 1200mm

	Air Flow (L/S)	16	23	26	33	38	43	47	52
Vertical Discharge	Static Pressure (Pa)	5	9	10	16	21	24	30	36
	NC Level (Noise Criteria)	19	18	19	23	26	28	30	33
	Throw (Meter)	0.3 - 0.7	0.6 - 0.9	0.6 - 1.2	0.9 - 1.5	1.2 - 1.8	1.5 - 2.0	1.8 - 2.4	2.0-2.7
Horizontal Discharge	Static Pressure (Pa)	20	39	44	71	93	113	140	170
	NC Level (Noise Criteria)	37	41	44	47	49	51	52	55
	Throw (Meter)	0.6 - 1.0	0.9 - 1.5	1.2 - 1.8	1.3 - 2.1	1.5 - 2.4	1.8 - 2.7	2.0 - 3.0	2.4 - 3.3

• All above performance data is based on troffer diffuser with 13mm wide slot. Performance may vary with other makes and designs of air troffer.

• All above data is based on inlet size 150mm (6") although the effect on inlet size is negligible in the range of inlets offered

•Throws vertical and horizontal distances in meters to reach terminal velocities of 0.5 m/s and 0.25 m/s.

SECTION 07

License & Certificates

Pro-Duct Industries

Trade License

حكومة أم القيوين
GOVERNMENT OF UMM ALQUWAIN

دائرة التنمية الاقتصادية
DEPARTMENT OF ECONOMIC DEVELOPMENT

Lic - Ind - رخصة صناعية

License Details			بيانات الرخصة
Trade Name	PRO DUCT INDUSTRIES L.L.C	برو دكت للصناعات ذ.م.م	الاسم التجاري
Legal Type	Single Person Limited Company	شركة الشخص الواحد ذات مسؤولية محدودة	الشكل القانوني
License Number	LIC-IND-38201		رقم الرخصة
Issue Date	2/4/2024		تاريخ الاصدار
Expiry Date	1/4/2026		تاريخ الانتهاء
Registration No	204112		رقم السجل التجاري
Email	k.sharawi@hotmail.com		البريد الإلكتروني
Mobile Number	00971567758098		رقم الهاتف المتحرك

License Members			اطراف الرخصة
الحصص Share	الصفة Role	الجنسية Nationality	الاسم Name
100%	مالك|مدير Owner|Manager	الأردن Jordan	خالد رضوان محمد الشعراوى KHALED RADWAN MOHAMAD SHAARAWI

License Activities	انشطة الرخصة
Air Conditioners Requisites Manufacturing	صناعة لوازم تكييف الهواء
Central Air Conditioning	صناعة مستلزمات أنظمة تكييف الهواء المركزية

1 of 2

UNITED ARAB EMIRATES (U.A.E.) BRANCH

U.A.Q. Chamber Membership Certificate

غرفة أم القيوين
Umm Al Quwain Chamber

شهادة تسجيل العضوية
Membership Certificate

License No.	38201	رقم الرخصة	Membership No.	19228	رقم العضوية
Member Since	25-03-2024	تاريخ الإنتساب	Registration No.	204112	رقم السجل التجاري
Expiry Date	01-04-2026	تاريخ الإنتهاء	Issue Date	17-03-2025	تاريخ الإصدار
				برو دكت للصناعات ذ.م.م	الإسم التجاري
Trade Name	PRO DUCT INDUSTRIES L.L.C				
Legal Status	Single Owner Company L.L.C			شركة الشخص الواحد ذ.م.م	الشكل القانوني

Activity	النشاط
- Air Conditioners Requisites Manufacturing - Central Air Conditioning	صناعة لوازم تكييف الهواء - صناعة مستلزمات أنظمة تكييف الهواء المركزية -

Remarks
This is a certified e-document issued without signature by the Umm Al Quwain Chamber of Commerce & Industry
Kindly scan the barcode to verify the certificate or visit our website

غرفة تجارة وصناعة أم القيوين
قسم العضوية
U.A.Q. Chamber Of Commerce & Industry

الملاحظات
هذه وثيقة الكترونية معتمدة وصادرة بدون توقيع من غرفة أم القيوين للتجارة و الصناعة. لمراجعة صحة البيانات الواردة في الرخصة يرجى مسح رمز الاستجابة السريعة أو زيارة موقع الغرفة

Tel: 06 7651111 , Fax: 06 7655055 , P.O.Box: 436 , UAQ - United Arab Emirates
E-mail: memberscare@uaqchamber.ae , www.uaqchamber.ae
هاتف: 067651111 ، فاكس: 067655055 ، ص.ب: 436 ، أم القيوين - الإمارات العربية المتحدة

25317122117755

UNITED ARAB EMIRATES (U.A.E.) BRANCH

VAT Certificate

الهيئة الاتحادية للضرائب
FEDERAL TAX AUTHORITY

شهادة التسجيل في ضريبة القيمة المضافة
أصدرت بموجب الصلاحية الممنوحة بموجب المادة (4) من المرسوم بقانون رقم (13) لسنة 2016 بشأن إنشاء الهيئة الاتحادية للضرائب

Certificate of Registration for Value Added Tax in the United Arab Emirates
Issued under the authority allocated by Art. 4 of the Federal Decree-Law No. 13 of 2016

The Federal Tax Authority certifies that the entity below is a registered person for Value Added Tax in the UAE		تشهد الهيئة الاتحادية للضرائب أن الجهة التالية مسجلة لضريبة القيمة المضافة في الإمارات العربية المتحدة
Tax Registration Number	104404968000003	رقم التسجيل الضريبي
Legal Name of Entity (Arabic)	برو دكت للصناعات ذ.م.م	الاسم القانوني للكيان (باللغة العربية)
Legal Name of Entity (English)	PRO DUCT INDUSTRIES L.L.C	الاسم القانوني للكيان (باللغة الانجليزية)
The Registered Address and Contact Number	Ware house 5+6, Al Ittihad Street, Umm El Thoub 1, Umm Al Quwain, Umm Al Quwain +971567758098	العنوان المسجل ورقم التواصل
Effective Registration Date	01/07/2024	تاريخ التسجيل الفعلي
First VAT Return Period	01/07/2024 - 30/09/2024	فترة أول إقرار لضريبة القيمة المضافة
VAT Return due date	28/10/2024	تاريخ استحقاق الإقرار الضريبي لضريبة القيمة المضافة
Start and end dates of Tax periods	1st Apr to 30th Jun, 1st Jul to 30th Sep, 1st Oct to 31st Dec, 1st Jan to 31st Mar	تواريخ بدء وانتهاء الفترات الضريبية

List of Main trade license, Sole Establishments and branches licenses details under the registered taxable person: قائمة الرخصة التجارية الرئيسية والمؤسسات الفردية والفروع المندرجة ضمن التسجيل الضريبي :

Legal Name	License Issuing Authority	License Number/رقم الرخصة	جهة الترخيص	الاسم القانوني

يرجى التأكد من صحة تفاصيل الشهادة. يجب إبلاغ الهيئة الاتحادية للضرائب في حال تغيير الأسس التي حصلت فيها على رقم التسجيل الضريبي الخاص بك.*

*Please check that the details on this certificate are correct. You must inform the Federal Tax Authority of any change on the basis of which you obtained your Tax Registration Number.

Date of Issue 28/06/2024 تاريخ الاصدار

Version Number 2024/VAT/0000545134/001 رقم الإصدار

UNITED ARAB EMIRATES (U.A.E.) BRANCH

Trade License

وزارة التجارة
Ministry of Commerce

شهادة السجل التجاري

البيانات الأساسية للسجل التجاري

7042192679

شركة برو دكت إندستريز

- الرقم الوطني الموحد: 7042192679
- تاريخ الإصدار: 21/10/2024
- نوع الكيان: شركة ذات مسؤولية محدودة
- صفات الشركة : (شخص واحد)
- حالة السجل: نشط

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mc.gov.sa

وزارة التجارة
Ministry of Commerce

مستخرج سجل تجاري

الإسم التجاري : شركة برو دكت إندستريز
نوع المنشأة: شركة ذات مسؤولية محدودة
رأس المال: 50000.00 ريال سعودي
البريد الإلكتروني: waseemsh85@gmail.com

صفات الشركة: (شخص واحد)
حالة السجل: نشط
الموقع الإلكتروني:

الرقم الوطني الموحد: 7042192679
تاريخ قيد السجل: 21/10/2024
تاريخ التأكيد السنوي: 10/10/2026
الهاتف: 0114509693

بيانات التاجر

الاسم	رقم الهوية	الجنسية	الصفة
وسيم هشام محمد الشعراوي	1152690671	السعودية	شريك برأس المال

بيانات المدراء

الاسم	رقم الهوية	الجنسية	الصفة
وسيم هشام محمد الشعراوي	1152690671	السعودية	لا يوجد

* يمكنكم التحقق من صحة الوثيقة و الإطلاع على التفاصيل من خلال مسح الرمز أعلاه

تاريخ طباعة المستخرج : 14/10/2025

1 من 2

mcgovsa

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mc.gov.sa

KINGDOM OF SAUDI ARABIA (K.S.A.) BRANCH

Riyadh Chamber Membership Certificate

غرفة الرياض
Riyadh Chamber

شهادة اشتراك
Membership Certificate

Membership No. :	1035340	1035340	رقم العضوية الموحد :
Date of Issue:	21/10/2024	2024/10/21	تاريخ الاصدار:
Membership Class :	Third	الثالثة	درجة العضوية :
Riyadh Chamber Certifies			تشهد الغرفة التجارية الصناعية بالرياض بأن
Company Pro Duct Industries			شركة برو دكت إندستريز
Commercial Registration No.	1009120821	1009120821	مقيدة بالسجل التجاري / الترخيص رقم :
National Number	7042192679	7042192679	الرقم الموحد :
Certificate Expires on	10/10/2025	2025/10/10	ينتهي سريان هذه الشهادة في

- يلزم التحقق من الوثيقة عبر الرابط التالي https://mybusiness.chamber.sa/ او تطبيق (بوابة أعمالي)
لتهوائف الذكية دون أدنى مسؤولية على الغرفة التجارية عن محتوى الوثيقة.
- تعتبر هذه الوثيقة مصدقة من غرفة الرياض ولا تحتاج الى توقيع او ختم.
- عند التعديل على الوثيقة او محاولة العبث بها تعتبر لاغية وتعرض صاحبها للمسألة القانونية.

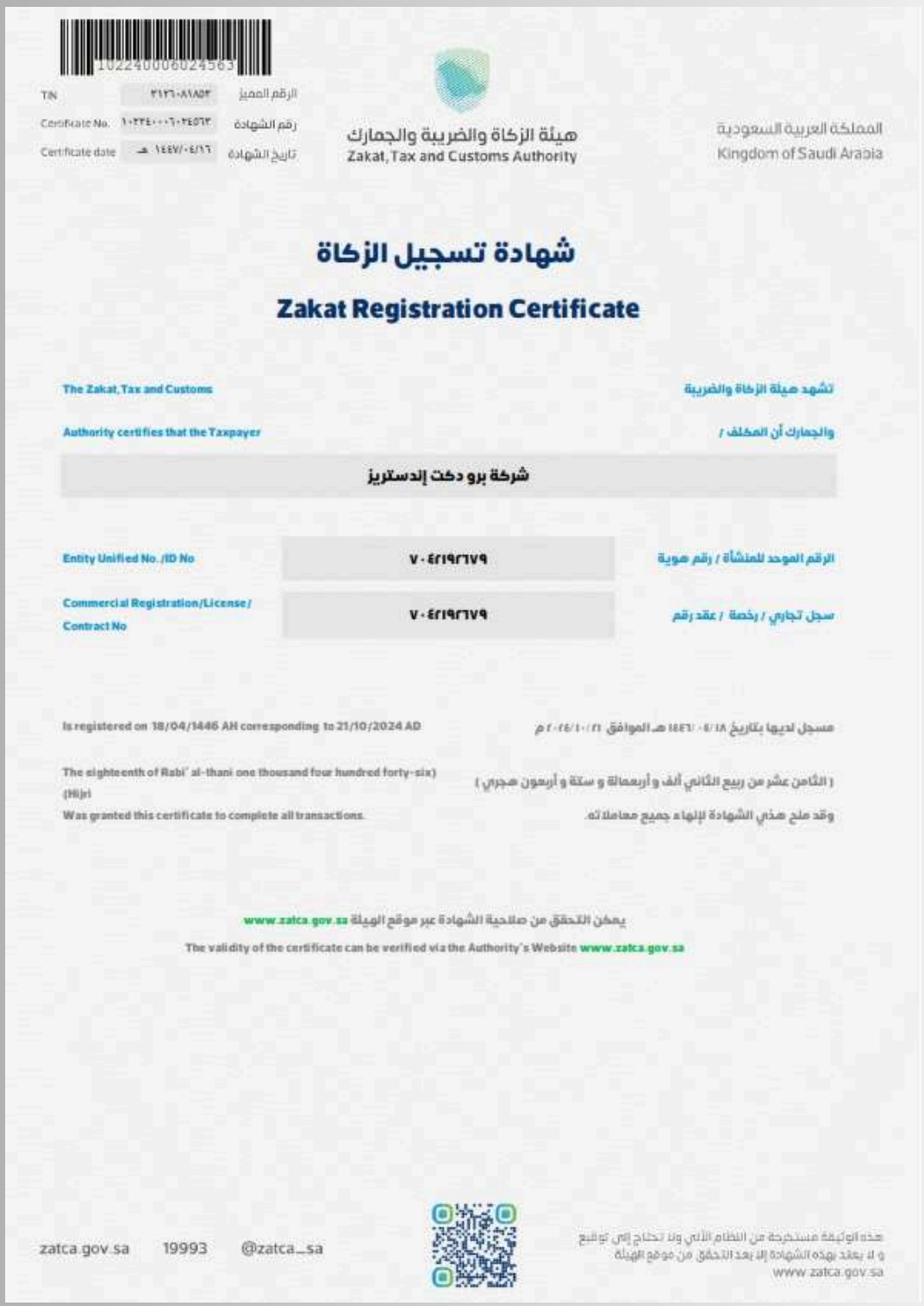
الخدمات الإلكترونية
E-SERVICES
920004565

RIYADH EXPO 2030

عام الحرف اليدوية 2025
The Year of Handicrafts

KINGDOM OF SAUDI ARABIA (K.S.A.) BRANCH

Zakat Registration Certificate



1022400060245630

TIN الرقم المميز ٣١٢٦٠٨١٨٥٣

Certificate No. رقم الشهادة ١٠٢٢٤٠٠٠٦٠٢٤٥٦٣

Certificate date تاريخ الشهادة ١٤٤٧/٠٤/١٦ هـ

هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority

المملكة العربية السعودية
Kingdom of Saudi Arabia

شهادة تسجيل الزكاة

Zakat Registration Certificate

The Zakat, Tax and Customs Authority certifies that the Taxpayer

تشهد هيئة الزكاة والضريبة والجمارك أن المكلف /

شركة برو دكت إندستريز

Entity Unified No. /ID No	٧٠٤٢١٩٢٦٧٩	الرقم الموحد للمنشأة / رقم هوية
Commercial Registration/License/ Contract No	٧٠٤٢١٩٢٦٧٩	سجل تجاري / رخصة / عقد رقم

Is registered on 18/04/1446 AH corresponding to 21/10/2024 AD

مسجل لديها بتاريخ ١٤٤٦/٠٤/١٨ هـ الموافق ٢٠٢٤/١٠/٢١ م

The eighteenth of Rabi' al-thani one thousand four hundred forty-six) (Hijri

Was granted this certificate to complete all transactions.

(الثامن عشر من ربيع الثاني ألف و أربعمائة و ستة و أربعون هجري)

وقد منح هذي الشهادة لإنهاء جميع معاملاته.

www.zatca.gov.sa يمكن التحقق من صلاحية الشهادة عبر موقع الهيئة

The validity of the certificate can be verified via the Authority's Website www.zatca.gov.sa

zatca.gov.sa 19993 @zatca_sa

هذه الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع و لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة
www.zatca.gov.sa

KINGDOM OF SAUDI ARABIA (K.S.A.) BRANCH

VAT Registration Certificate

TIN 3126081853 الرقم المميز
Certificate No. 1002511519690789 رقم الشهادة
Certificate date 12/12/2024 تاريخ الشهادة

هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority

المملكة العربية السعودية
Kingdom of Saudi Arabia

شهادة تسجيل في ضريبة القيمة المضافة

VAT Registration Certificate

تشهد هيئة الزكاة والضريبة والجمارك بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ ٢٠٢٤/١٢/١٢ م
The Zakat, Tax and Customs Authority certifies that taxpayer below is VAT registered on 12/12/2024 AD

Taxpayer Name	شركة برو دكت إندستريز	اسم المكلف
VAT Registration Number	312608185300003	رقم التسجيل الضريبي
Effective Registration Date	2024/11/01	تاريخ نفاذ التسجيل
Taxpayer Address	الرياض.الرياض.الجيزة.13312	عنوان المكلف
CR / License Contact / ID No	7042192679	رقم السجل التجاري / الرخصة / العقد / الهوية
Tax Period	ربع سنوي-Quarterly	الفترة الضريبية
First Filing due date	2025/01/31	تاريخ استحقاق أول إقرار ضريبي

ملاحظة: كمكلفين مسجلين في ضريبة القيمة المضافة، لا يجوز لكم تحصيل ضريبة القيمة المضافة من عملائكم قبل تاريخ نفاذ التسجيل في الضريبة، و في حال تبين غير ذلك ستقوم هيئة الزكاة والضريبة و الجمارك بتنفيذ الغرامات المستحقة

Note: As a VAT registered taxpayer, you are not allowed to collect VAT from your customers prior to the effective date of the tax registration. If otherwise approved, The ZAKAT,Tax and Customs Authority will impose the applicable penalties

ضريبة القيمة المضافة VAT

zatca.gov.sa 19993 @zatca_sa

هذه الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع و لا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة www.zatca.gov.sa

KINGDOM OF SAUDI ARABIA (K.S.A.) BRANCH

Pro-Duct
Industries

GOSI

gosi
التأمينات الاجتماعية
Social Insurance

التاريـــــخ: 29/09/2025
الموافـــق: 1447/04/07
رمز الشهادة: 102595813

شهادة

اسم المنشأة	شركة برو دكت إندستريز		
اسم صاحب العمل			
رقم الاشتراك	٦٥١٠١١٧٩٥	الرقم الوطني الموحد	7042192679
العنوان	الرياض السعودية 13312		

	عدد المشتركين السعوديين	عدد المشتركين غير السعوديين	المجموع
رقما	6	11	17
كتابة	ستة مشتركين	احد عشره مشتركا	سبعة عشره مشتركا

تشهد المؤسسة العامة للتأمينات الاجتماعية بأن المنشأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسسة وفق البيانات المقدمة منها حتى تاريخ اصدار هذه الشهادة، والتي تم منحها لتقديمه لأية جهة تطلبها، وهي صالحة لجميع الأغراض التي نصت عليها الفقرة (6) من المادة (التاسعة عشر) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/33) بتاريخ 1421/9/3 هـ و المادة (العاشرة) من نظام التأمينات الاجتماعية الصادر بالمرسوم الملكي رقم (م/273) وتاريخ1445/12/26 هـ .

هذه الشهادة سارية المفعول حتى 1447/07/09 هـ.

عام Public
الشهادة معتمدة من صاحب الصلاحية ولا تحتاج لتوقيع أو ختم

تحقق من صحة وصلاحية الشهادة عبر زيارة الرابط أدناه في الموقع الالكتروني للمؤسسة العامة للتأمينات الاجتماعية او عن طريق استخدام الرمز المعرف التالي

[illegible]

المملكة العربية السعودية، الرياض 12622 - 8308 حي الوزارات 3795
Kingdom of Saudi Arabia, Riyadh 12622- 8308 Al Wizarat 3795

800 124 3344
gosi.gov.sa

KINGDOM OF SAUDI ARABIA (K.S.A.) BRANCH

ISO Certificates

Pro-Duct Industries

SWISSCERT

Certificate

SWISS CERT Pvt. Ltd. hereby certify that the Quality Management System of

PRO DUCT INDUSTRIES L.L.C

WARE HOUSE 5+6, AL ITTIHAD STREET, UMM EL THOUB 1, UMM AL QUWAIN, UAE

has been assessed and found to be in accordance with the requirements of

Quality Management System ISO 9001:2015

and scope of activities are detailed below

MANUFACTURING AND SUPPLY OF CENTRAL AIR CONDITIONING DUCTING AND DUCTING ACCESSORIES, GRILLS, DIFFUSERS, VCD & FIRE DAMPERS. AIR CONDITIONERS REQUISITES MANUFACTURING.

This Certificate is valid for a period of three years from: 25.03.2025 until: 24.03.2028 and remains valid subject to satisfactory completion of surveillance audits

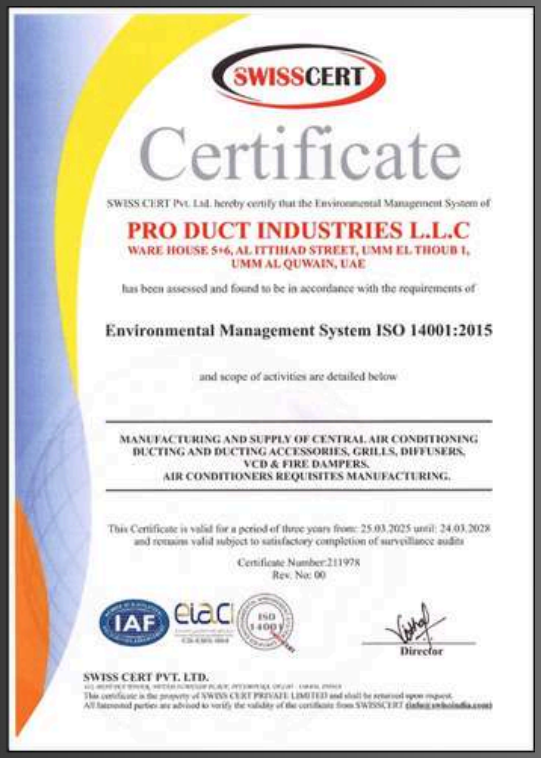
Certificate Number: 211977
Rev. No: 00

IAF elaC ISO 9001

Director

SWISS CERT PVT. LTD.

This certificate is the property of SWISS CERT PRIVATE LIMITED and shall be returned upon request.
All Interested parties are advised to verify the validity of the certificate from SWISSCERT (info@swissindia.com)



SWISSCERT

Certificate

SWISS CERT Pvt. Ltd. hereby certify that the Environmental Management System of

PRO DUCT INDUSTRIES L.L.C

WARE HOUSE 5+6, AL ITTIHAD STREET, UMM EL THOUB 1, UMM AL QUWAIN, UAE

has been assessed and found to be in accordance with the requirements of

Environmental Management System ISO 14001:2015

and scope of activities are detailed below

MANUFACTURING AND SUPPLY OF CENTRAL AIR CONDITIONING DUCTING AND DUCTING ACCESSORIES, GRILLS, DIFFUSERS, VCD & FIRE DAMPERS. AIR CONDITIONERS REQUISITES MANUFACTURING.

This Certificate is valid for a period of three years from: 25.03.2025 until: 24.03.2028 and remains valid subject to satisfactory completion of surveillance audits

Certificate Number:211978
Rev. No: 00

IAF elaC ISO 14001

Director

SWISS CERT PVT. LTD.

This certificate is the property of SWISS CERT PRIVATE LIMITED and shall be returned upon request.
All Interested parties are advised to verify the validity of the certificate from SWISSCERT (info@swissindia.com)

SWISSCERT

Certificate

SWISS CERT Pvt. Ltd. hereby Certify that the Management System of

PRO DUCT INDUSTRIES L.L.C

WARE HOUSE 5+6, AL ITTIHAD STREET, UMM EL THOUB 1, UMM AL QUWAIN, UAE

has been assessed and found to be in accordance with the requirements of

Occupational Health & Safety Management System

ISO 45001:2018

and scope of activities are detailed below

MANUFACTURING AND SUPPLY OF CENTRAL AIR CONDITIONING DUCTING AND DUCTING ACCESSORIES, GRILLS, DIFFUSERS, VCD & FIRE DAMPERS. AIR CONDITIONERS REQUISITES MANUFACTURING.

This Certificate is valid for a period of three years from: 25.03.2025 until: 24.03.2028 and remains valid subject to satisfactory completion of surveillance audits

Certificate Number: 211979
Rev. No: 00

IAF elaC ISO 45001

Director

SWISS CERT PVT. LTD.

This certificate is the property of SWISS CERT PRIVATE LIMITED and shall be returned upon request.
All Interested parties are advised to verify the validity of the certificate from SWISSCERT (info@swissindia.com)

SECTION 08

Approvals

Approvals

EXPO CITY DUBAI | KLING CONSULT | GINCO

Employer:	Engineer:	Contractor:
M/S. EXPO CITY DUBAI	M/s. Kling Consult GmbH & Co. International KG	M/s. Ginco General Contracting L.L.C

PROJECT : C5032 Expo Valley Villas & Townhouses, Dubai, UAE

PRE-QUALIFICATION SUBMITTAL

FOR INFORMATION AND RECORDS	☐	FOR APPROVAL	☑	Transmittal No.:	C5032-PRF-2RD0259-ME-0000002
				Rev.:	2
				Date.:	12-Jan-25

To:M/s. Kling Consult GmbH & Co. International KG

Approval requested by :
From: CONTRACTOR REPRESENTATIVE
Project Manager: **Mahmoud Ibrahim**

Originator: **Signature:**
M/s. Ginco General Contracting L.L.C

Details of Submittal:

Sl.No	Pre-qualification no.	Rev	Pre-qualification Title	ENGINEER'S RESPONSE (Please tick relevant box) A	AN	R	
1	C5032-PRF-2RD0259-ME-0000002	2	Pre-Qualification for G.I. Duct Fabricationn (M/s. Pro-duct Industries)		✓		

DETAILED RESPONSE (Please refer to corresponding serial no.)

Engineer's Comments:

- Previous comments has been addressed and found in compliance to the technical requirement for the production and delivery of both GI and pre-insulated duct work for the EXPO VALLEY Project.
- Contractor to arrange the fatory visit with the manufacturer, prior to delivery of any product produced by Product.
- Submit the material for pre-insulated duct for approval.
- Maintain the quality of the sample duct issued for approval and incorporate sealant requirement in the full joint edge and colar of the duct work.
- Maintain the duct profile and distance of stiffener as per the sample submitted for approval.

QA: No objection
1. Contractor to arrange the factory visit with the manufacturer, prior to delivery of any product produced by Product.
2. Contractor to submit MIR for each delivery at site. Akmal Ghuman 22.01.25

HSE: No Objection

Engineer representative:
Name: JOSE P. SIAPNO II
Signature:
Date: 21.01.25

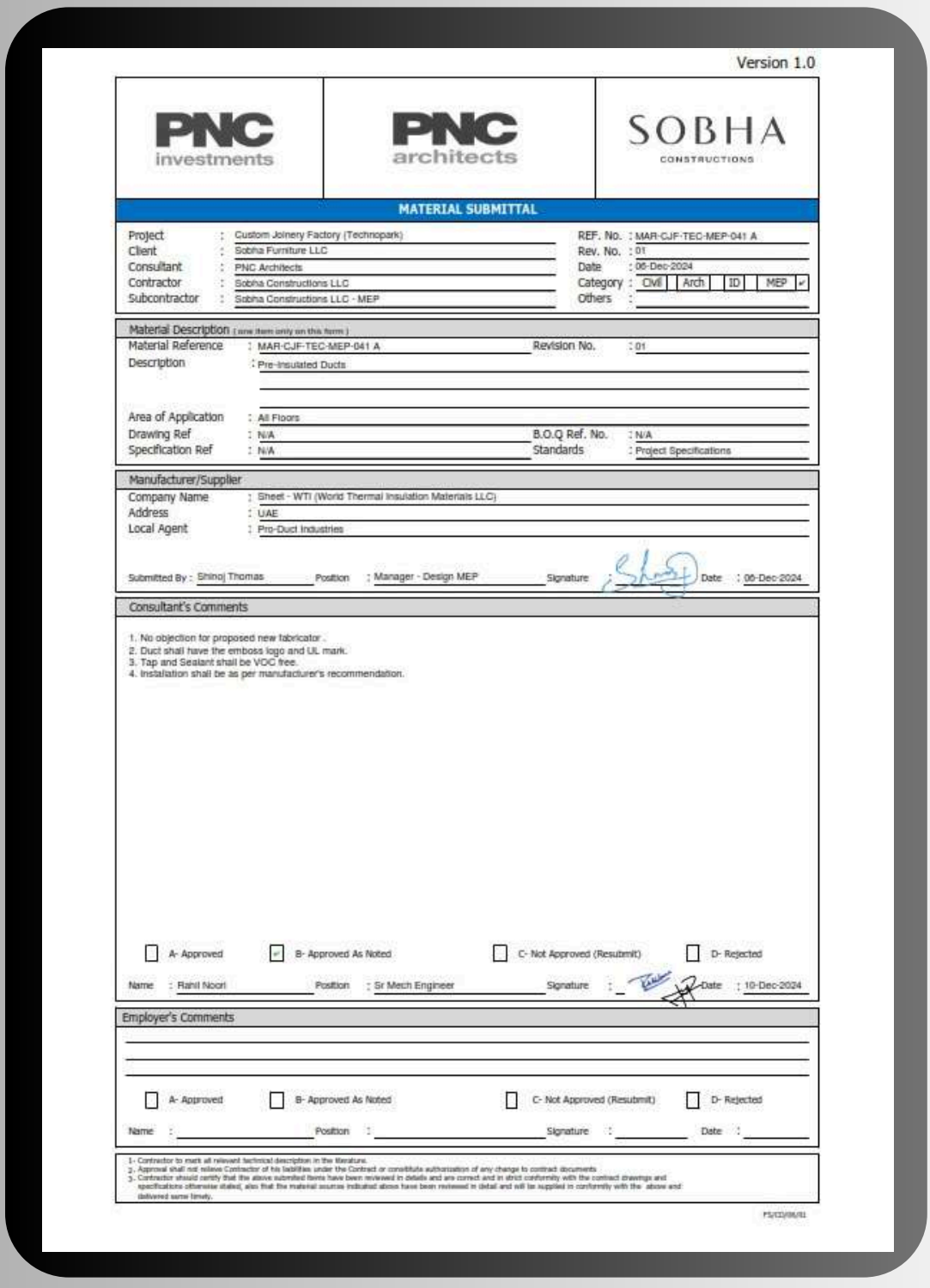
Ammar Alrubaie - SRE

Employer's Comment:

Employer Representative:
Name:
Signature: Date:

(*A - Approved, *AN - Approved With Comments, R- *Rejected)

Approvals



Version 1.0

PNC investments | PNC architects | SOBHA CONSTRUCTIONS

MATERIAL SUBMITTAL

Project	: Custom Joinery Factory (Technopark)	REF. No.	: MAR-CJF-TEC-MEP-041 A
Client	: Sobha Furniture LLC	Rev. No.	: 01
Consultant	: PNC Architects	Date	: 06-Dec-2024
Contractor	: Sobha Constructions LLC	Category	: Civil [ ] Arch [ ] ID [ ] MEP [✓]
Subcontractor	: Sobha Constructions LLC - MEP	Others	:

Material Description (one item only on this form)

Material Reference	: MAR-CJF-TEC-MEP-041 A	Revision No.	: 01
Description	: Pre-Insulated Ducts		
Area of Application	: All Floors		
Drawing Ref	: N/A	B.O.Q Ref. No.	: N/A
Specification Ref	: N/A	Standards	: Project Specifications

Manufacturer/Supplier

Company Name	: Sheet - WTI (World Thermal Insulation Materials LLC)
Address	: UAE
Local Agent	: Pro-Duct Industries

Submitted By : Shino| Thomas Position : Manager - Design MEP Signature Date : 06-Dec-2024

Consultant's Comments

1. No objection for proposed new fabricator .
2. Duct shall have the emboss logo and UL mark.
3. Tap and Sealant shall be VOC free.
4. Installation shall be as per manufacturer's recommendation.

[ ] A- Approved [✓] B- Approved As Noted [ ] C- Not Approved (Resubmit) [ ] D- Rejected

Name : Rahil Noori Position : Sr Mech Engineer Signature : Date : 10-Dec-2024

Employer's Comments

[ ] A- Approved [ ] B- Approved As Noted [ ] C- Not Approved (Resubmit) [ ] D- Rejected

Name : Position : Signature : Date :

1- Contractor to mark all relevant technical description in the literature.
2- Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to contract documents
3- Contractor should certify that the above submitted items have been reviewed in details and are correct and in strict conformity with the contract drawings and specifications otherwise stated, also that the material sources indicated above have been reviewed in detail and will be supplied in conformity with the above and delivered same timely.

FS/03/09/01

Approvals

22/10/2025, 07:19 Print Form Details

ALDAR

QUALITY PRE-QUALIFICATION SUBMITTAL

Project Name
DXBPK | DX Parks - Athlon - Package 1 2 and 3 (DXBPK)

Originator
GIN | GINCO General Contracting (GIN)

PQ Number
DXBPK-BW-GIN-P1-ZZ-ZZ-PQ-HV-00002

Project Stage
Construction

Work Package
BW | Building Works (BW)

Revision
C00

Area
P1 | Package 01

Building ID /Type/Component ID
ZZ | All (ZZ)

Level/ Location
ZZ | ZZ - Multiple Levels

Discipline
BW MECH

Sub-Discipline
HVAC (HV)

PQ Issue Date
15-Oct-2025

PRE-QUALIFICATION DETAILS

Name of Sub-Contractor
M/S PRO-DUCT INDUSTRIES LLC

Job Description
DXBPK-BW-GIN-P1-ZZ-ZZ-PQ-HV-00002 PRE-QUALIFICATION OF PI DUCT FABRICATOR (M/S PRO-DUCT INDUSTRIES LLC/NON VENDOR LIST) (P1)

Address
UMM AL QUWAIN, UAE

Commercial Register /Financial Status/Current Project
DXBPK-BW-GIN-P1-ZZ-ZZ-PQ-HV-00002.pdf

Included in Vendor List
No

Select Attachment Type and add files
Company Profile, Trade License, Organization Chart, ISO Certifications, List of current and completed projects for UAE/Region with photos, Copies of previous project Approvals

Others (Specify)

Note: Checking and approval by PMC/Consultant shall not relieve the contractor of his obligation to perform the works in accordance with the contract documents, requirements of safety and local authorities regulations.

ALD-OP-QM-PQP-FRM-00012 **Rev: 00**

CSC Approver Final Response

Engineer Comments

Mechanical: Code-B
Contractor proposed "M/s Pro Duct Industries LLC" for P.I duct fabrication (Package1) is acceptable subject to comply with the following comments:
1. CNC machine used for PI duct fabrication must be sourced from the approved PI duct manufacturer "Kingspan".
2. All materials used must be as per approved material submittal and fully comply with project specification.
3. The list of materials such as bayonet, corner cover / plate etc shall be aluminium as specified. All duct sealant and adhesives must be UL listed.
4. The contractor shall provide fabricated duct samples for each type and secure mock-up installation approval once the site is ready.
5. All acoustic duct liner materials must be delivered to the approved duct fabrication facility. The liner shall be applied at the factory under controlled conditions to ensure quality. On-site application of acoustic liners will not be permitted.
6. The contractor must justify the quality control measures for duct fabrication throughout the project. Please confirm whether representatives will be stationed at the fabrication facility to oversee and ensure compliance.
7. The contractor is responsible for ensuring timely delivery of fabricated ducts to the site, without compromising work progress or quality standards.
8. All duct materials must be fully covered during transportation and protected from environmental exposure and dust. The contractor must ensure that fabricated ducts are stored in a designated covered area on-site and not left outdoors, as this may compromise their integrity.
9. Final approval subject to satisfactory factory visit and inspection.

QAQC:
- Refer to the discipline Engineer comments and comply.

Response

Mechanical: Code-B
Contractor proposed "M/s Pro Duct Industries LLC" for P.I duct fabrication (Package1) is acceptable subject to comply with the following comments:
1. CNC machine used for PI duct fabrication must be sourced from the approved PI duct manufacturer "Kingspan".
2. All materials used must be as per approved material submittal and fully comply with project specification.
3. The list of materials such as bayonet, corner cover / plate etc shall be aluminium as specified. All duct sealant and adhesives must be UL listed.
4. The contractor shall provide fabricated duct samples for each type and secure mock-up installation approval once the site is ready.
5. All acoustic duct liner materials must be delivered to the approved duct fabrication facility. The liner shall be applied at the factory under controlled conditions to ensure quality. On-site application of acoustic liners will not be permitted.
6. The contractor must justify the quality control measures for duct fabrication throughout the project. Please confirm whether representatives will be stationed at the fabrication facility to oversee and ensure compliance.

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Approvals

22/10/2025, 07:10 Print Form Details

ALDAR

QUALITY PRE-QUALIFICATION SUBMITTAL

Project Name
DXBPK | DX Parks - Athlon - Package 1 2 and 3 (DXBPK)

Originator
GIN | GINCO General Contracting (GIN)

PQ Number
DXBPK-BW-GIN-P2-ZZ-ZZ-PQ-HV-00003

Project Stage
Construction

Work Package
BW | Building Works (BW)

Revision
C00

Area
P2 | Package 02

Building ID /Type/Component ID
ZZ | All (ZZ)

Level/ Location
ZZ | ZZ - Multiple Levels

Discipline
BW MECH

Sub-Discipline
HVAC (HV)

PQ Issue Date
19-Oct-2025

PRE-QUALIFICATION DETAILS

Name of Sub-Contractor
M/S PRO-DUCT INDUSTRIES LLC

Job Description
DXBPK-BW-GIN-P2-ZZ-ZZ-PQ-HV-00001 PRE-QUALIFICATION OF GI DUCT FABRICATION (M/S PRO-DUCT INDUSTRIES LLC /NON VENDOR LIST)(P2)

Address
UMM AL QUWAIN, UAE

Commercial Register/Financial Status/Current Project
DXBPK-BW-GIN-P2-ZZ-ZZ-PQ-HV-00001.pdf

Included in Vendor List
No

Select Attachment Type and add files
Company Profile, Trade License, Organization Chart, ISO Certifications, List of current and completed projects for UAE/Region with photos, Copies of previous project Approvals

Others (Specify)

Note: Checking and approval by PMC/Consultant shall not relieve the contractor of his obligation to perform the works in accordance with the contract documents, requirements of safety and local authorities regulations.

ALD-OP-QA-PQP-F004-00012 **Rev: 00**

CSC Approver Final Response

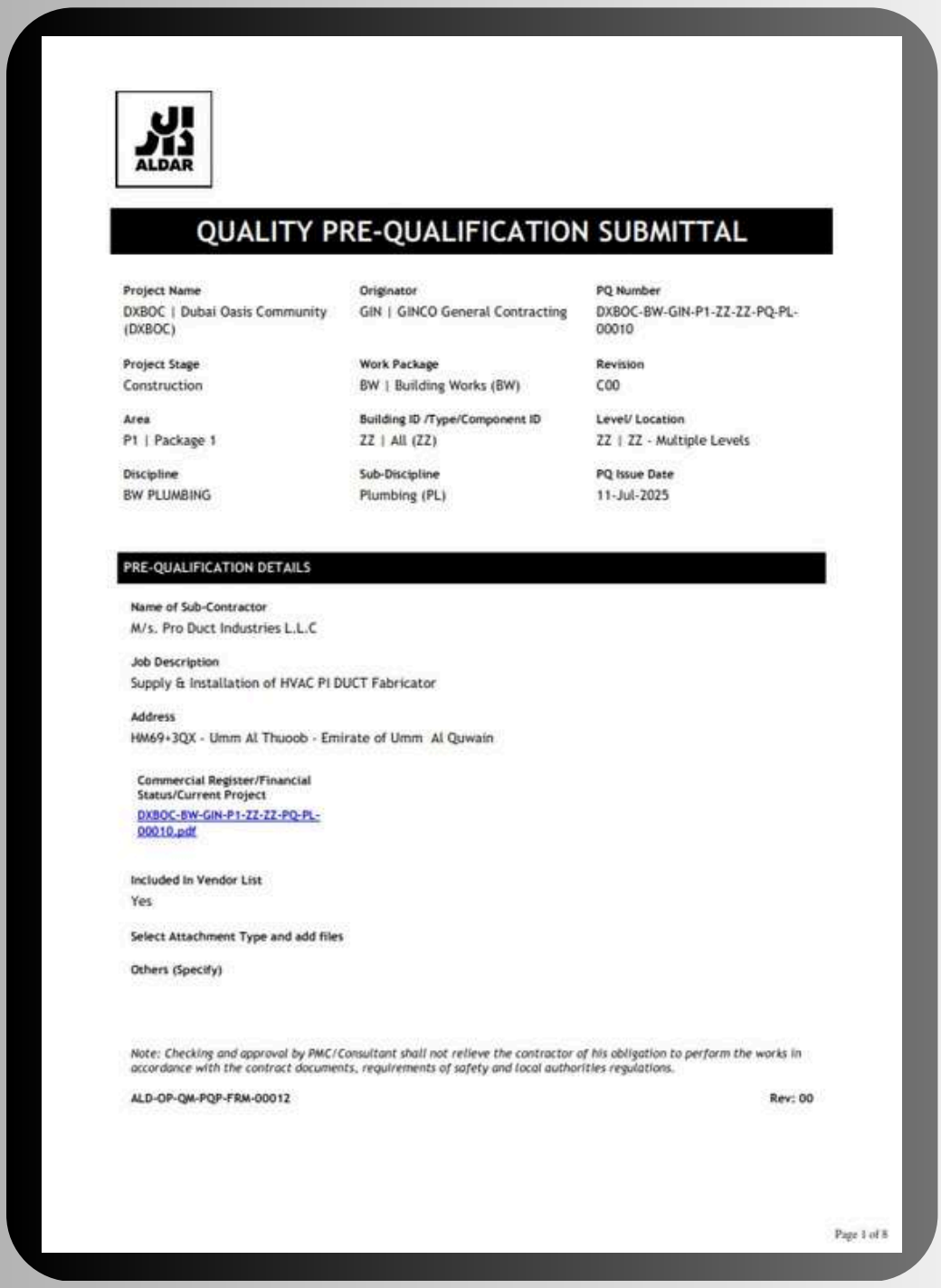
Engineer Comments
Mechanical: Code-B
Contractor proposed "M/s Pro Duct Industries LLC" for G.I duct fabrication (Package-2) is acceptable subject to comply with the following comments. This approval is conditional to meet the demand as per site requirements since the MEP Contractor proposed same specialist for both package - 1,2.
1. The contractor shall provide fabricated duct samples for each type and secure mock-up installation approval once the site is ready.
2. All acoustic duct liner materials must be delivered to the approved duct fabrication facility. The liner shall be applied at the factory under controlled conditions to ensure quality. On-site application of acoustic liners will not be permitted.
3. The contractor must justify the quality control measures for duct fabrication throughout the project. Please confirm whether representatives will be stationed at the fabrication facility to oversee and ensure compliance.
4. The contractor is responsible for ensuring timely delivery of fabricated ducts to the site, without compromising work progress or quality standards.
5. All duct materials must be fully covered during transportation and protected from environmental exposure and dust. The contractor must ensure that fabricated ducts are stored in a designated covered area on-site and not left outdoors, as this may compromise their integrity.
6. Final approval subject to satisfactory factory visit and inspection.

QAQC:
- Refer to the discipline Engineer comments and comply.

Response
Mechanical: Code-B
Contractor proposed "M/s Pro Duct Industries LLC" for G.I duct fabrication (Package-2) is acceptable subject to comply with the following comments. This approval is conditional to meet the demand as per site requirements since the MEP Contractor proposed same specialist for both package - 1,2.
1. The contractor shall provide fabricated duct samples for each type and secure mock-up installation approval once the site is ready.
2. All acoustic duct liner materials must be delivered to the approved duct fabrication facility. The liner shall be applied at the factory under controlled conditions to ensure quality. On-site application of acoustic liners will not be permitted.
3. The contractor must justify the quality control measures for duct fabrication throughout the project. Please confirm whether representatives will be stationed at the fabrication facility to oversee and ensure compliance.
4. The contractor is responsible for ensuring timely delivery of fabricated ducts to the site, without compromising work progress or quality standards.
5. All duct materials must be fully covered during transportation and protected from environmental exposure and dust. The contractor must ensure that fabricated ducts are stored in a designated covered area on-site and not left outdoors, as this may compromise their integrity.
6. Final approval subject to satisfactory factory visit and inspection.

https://adoddleuae.aconexdoddle/view/communications/apps/print/viewForm.jsp 1/2

Approvals



ALDAR

QUALITY PRE-QUALIFICATION SUBMITTAL

Project Name DXBOC | Dubai Oasis Community (DXBOC)	**Originator** GIN | GINCO General Contracting	**PQ Number** DXBOC-BW-GIN-P1-ZZ-ZZ-PQ-PL-00010
Project Stage Construction	**Work Package** BW | Building Works (BW)	**Revision** C00
Area P1 | Package 1	**Building ID /Type/Component ID** ZZ | All (ZZ)	**Level/ Location** ZZ | ZZ - Multiple Levels
Discipline BW PLUMBING	**Sub-Discipline** Plumbing (PL)	**PQ Issue Date** 11-Jul-2025

PRE-QUALIFICATION DETAILS

Name of Sub-Contractor
M/s. Pro Duct Industries L.L.C

Job Description
Supply & Installation of HVAC PI DUCT Fabricator

Address
HM69+3QX - Umm Al Thuoob - Emirate of Umm Al Quwain

Commercial Register/Financial Status/Current Project
DXBOC-BW-GIN-P1-ZZ-ZZ-PQ-PL-00010.pdf

Included in Vendor List
Yes

Select Attachment Type and add files

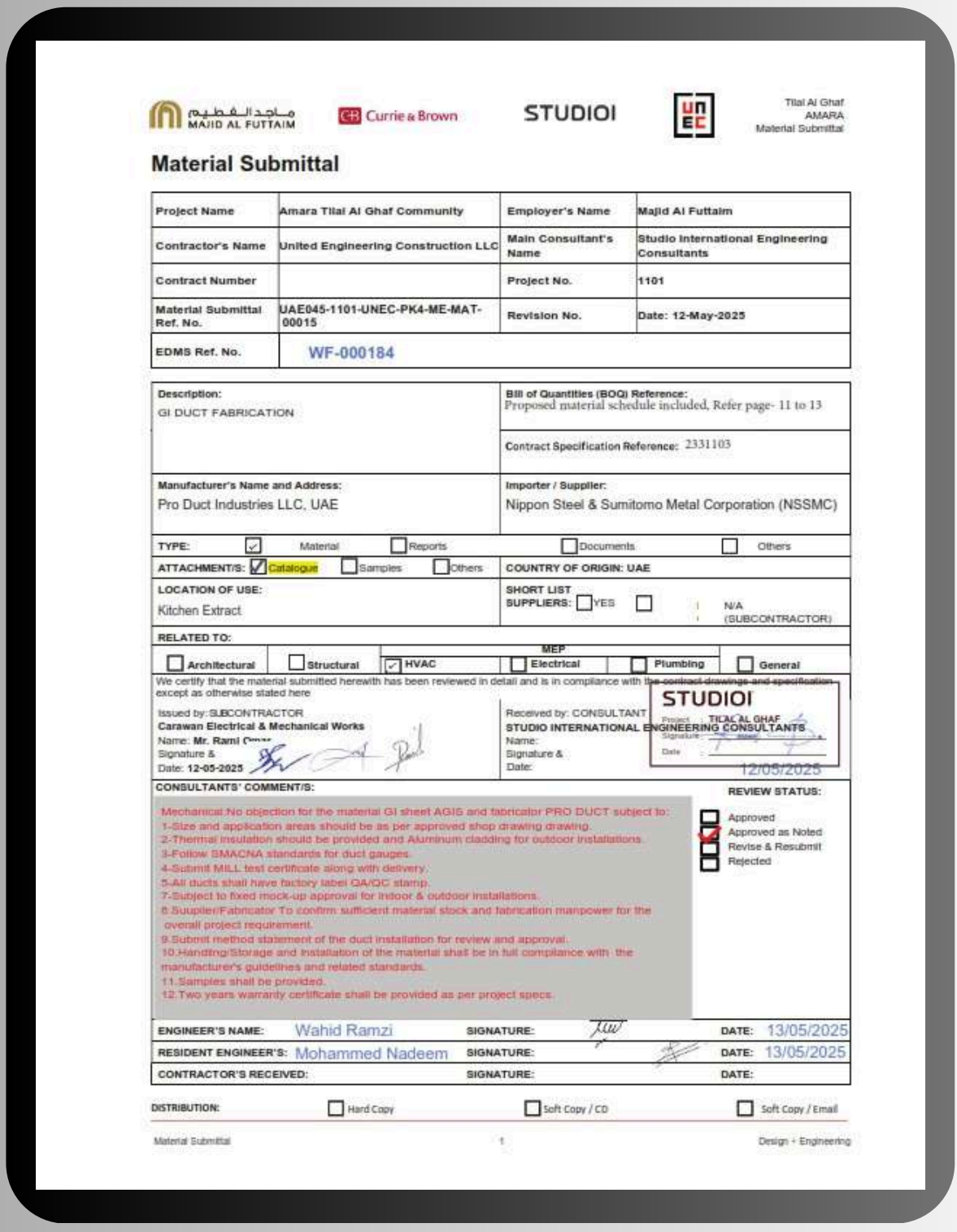
Others (Specify)

Note: Checking and approval by PMC/Consultant shall not relieve the contractor of his obligation to perform the works in accordance with the contract documents, requirements of safety and local authorities regulations.

ALD-OP-QM-PQP-FRM-00012 Rev: 00

Page 1 of 8

Approvals



ماجد الفطيم MAJID AL FUTTAIM | Currie & Brown | STUDIOI | UNEC | Tilal Al Ghaf AMARA Material Submittal

Material Submittal

Project Name	Amara Tilal Al Ghaf Community	Employer's Name	Majid Al Futtaim
Contractor's Name	United Engineering Construction LLC	Main Consultant's Name	Studio International Engineering Consultants
Contract Number		Project No.	1101
Material Submittal Ref. No.	UAE045-1101-UNEC-PK4-ME-MAT-00015	Revision No.	Date: 12-May-2025
EDMS Ref. No.	WF-000184		

Description: GI DUCT FABRICATION	Bill of Quantities (BOQ) Reference: Proposed material schedule included, Refer page- 11 to 13
	Contract Specification Reference: 2331103
Manufacturer's Name and Address: Pro Duct Industries LLC, UAE	Importer / Supplier: Nippon Steel & Sumitomo Metal Corporation (NSSMC)

TYPE: ☑ Material ☐ Reports ☐ Documents ☐ Others

ATTACHMENT/S: ☑ Catalogue ☐ Samples ☐ Others | COUNTRY OF ORIGIN: UAE

LOCATION OF USE: Kitchen Extract | SHORT LIST SUPPLIERS: ☐ YES ☐ N/A (SUBCONTRACTOR)

RELATED TO:

☐ Architectural	☐ Structural	MEP: ☑ HVAC	☐ Electrical	☐ Plumbing	☐ General

We certify that the material submitted herewith has been reviewed in detail and is in compliance with the contract drawings and specification except as otherwise stated here

Issued by: SUBCONTRACTOR
Carawan Electrical & Mechanical Works
Name: Mr. Rami Omar
Signature &
Date: 12-05-2025

Received by: CONSULTANT
STUDIO INTERNATIONAL ENGINEERING CONSULTANTS
Name:
Signature &
Date: 12/05/2025

STUDIOI Project TILAL AL GHAF Signature Date

CONSULTANTS' COMMENT/S:

Mechanical:No objection for the material GI sheet AGI6 and fabricator PRO DUCT subject to:
1-Size and application areas should be as per approved shop drawing drawing.
2-Thermal insulation should be provided and Aluminum cladding for outdoor installations.
3-Follow SMACNA standards for duct gauges.
4-Submit MILL test certificate along with delivery.
5-All ducts shall have factory label QA/QC stamp.
7-Subject to fixed mock-up approval for indoor & outdoor installations.
8.Supplier/Fabricator To confirm sufficient material stock and fabrication manpower for the overall project requirement.
9.Submit method statement of the duct installation for review and approval.
10.Handling/Storage and installation of the material shall be in full compliance with the manufacturer's guidelines and related standards.
11.Samples shall be provided.
12.Two years warranty certificate shall be provided as per project specs.

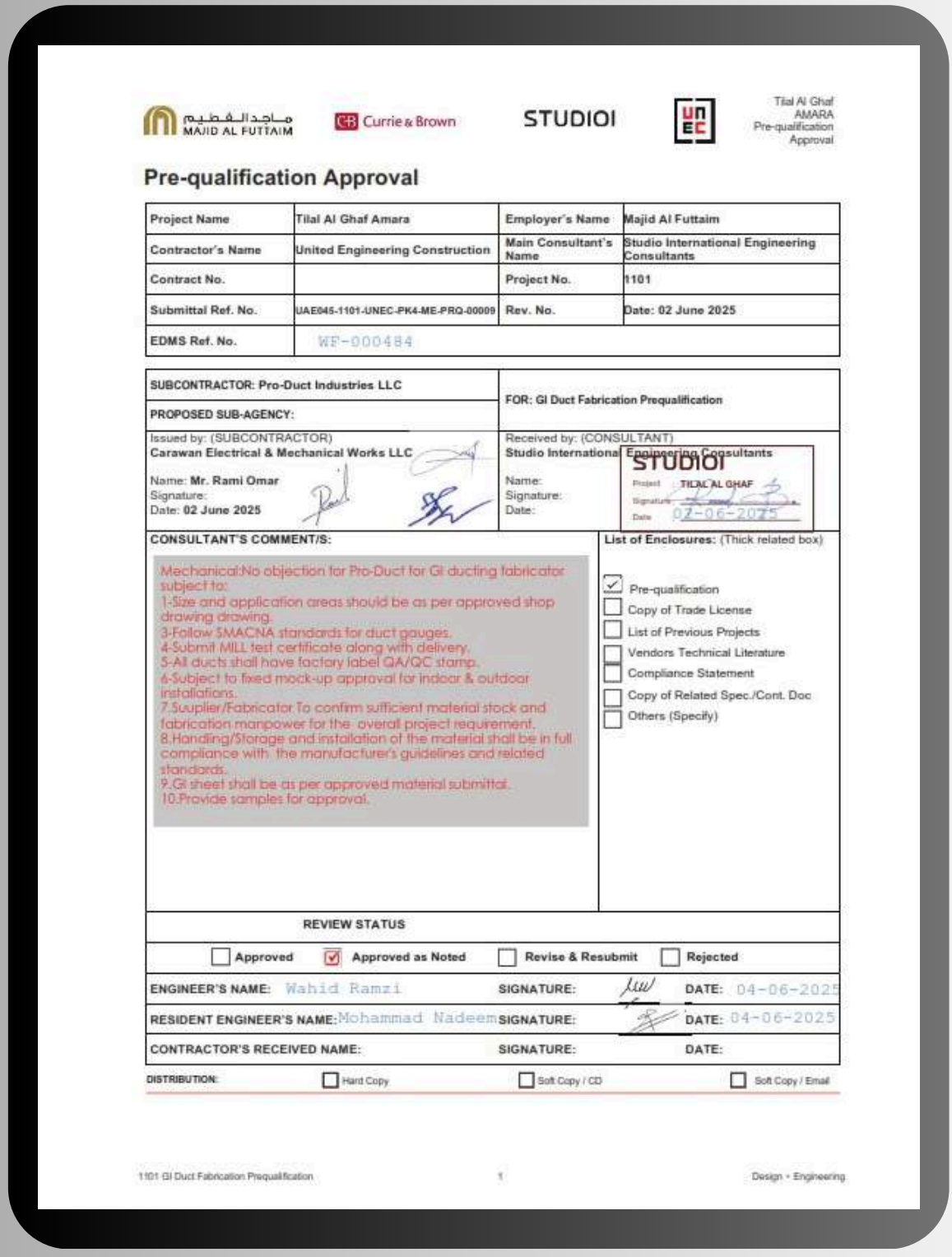
REVIEW STATUS:
☐ Approved
☑ Approved as Noted
☐ Revise & Resubmit
☐ Rejected

ENGINEER'S NAME:	Wahid Ramzi	SIGNATURE:		DATE:	13/05/2025
RESIDENT ENGINEER'S:	Mohammed Nadeem	SIGNATURE:		DATE:	13/05/2025
CONTRACTOR'S RECEIVED:		SIGNATURE:		DATE:	

DISTRIBUTION: ☐ Hard Copy ☐ Soft Copy / CD ☐ Soft Copy / Email

Material Submittal 1 Design + Engineering

Approvals



ماجد الفطيم MAJID AL FUTTAIM | Currie & Brown | STUDIOI | UNEC | Tilal Al Ghaf AMARA Pre-qualification Approval

Pre-qualification Approval

Project Name	Tilal Al Ghaf Amara	Employer's Name	Majid Al Futtaim
Contractor's Name	United Engineering Construction	Main Consultant's Name	Studio International Engineering Consultants
Contract No.		Project No.	1101
Submittal Ref. No.	UAE045-1101-UNEC-PK4-ME-PRQ-00009	Rev. No.	Date: 02 June 2025
EDMS Ref. No.	WF-000484		

SUBCONTRACTOR: Pro-Duct Industries LLC	FOR: GI Duct Fabrication Prequalification
PROPOSED SUB-AGENCY:	
Issued by: (SUBCONTRACTOR) Carawan Electrical & Mechanical Works LLC Name: Mr. Rami Omar Signature: Date: 02 June 2025	Received by: (CONSULTANT) Studio International Engineering Consultants Name: Signature: Date: STUDIOI Project TILAL AL GHAF Signature Date 02-06-2025

CONSULTANT'S COMMENT/S:

Mechanical:No objection for Pro-Duct for GI ducting fabricator subject to:
1-Size and application areas should be as per approved shop drawing drawing.
3-Follow SMACNA standards for duct gauges.
4-Submit MILL test certificate along with delivery.
5-All ducts shall have factory label QA/QC stamp.
6-Subject to fixed mock-up approval for indoor & outdoor installations.
7.Suuplier/Fabricator To confirm sufficient material stock and fabrication manpower for the overall project requirement.
8.Handling/Storage and installation of the material shall be in full compliance with the manufacturer's guidelines and related standards.
9.GI sheet shall be as per approved material submittal.
10.Provide samples for approval.

List of Enclosures: (Thick related box)

- [x] Pre-qualification
- [ ] Copy of Trade License
- [ ] List of Previous Projects
- [ ] Vendors Technical Literature
- [ ] Compliance Statement
- [ ] Copy of Related Spec./Cont. Doc
- [ ] Others (Specify)

REVIEW STATUS

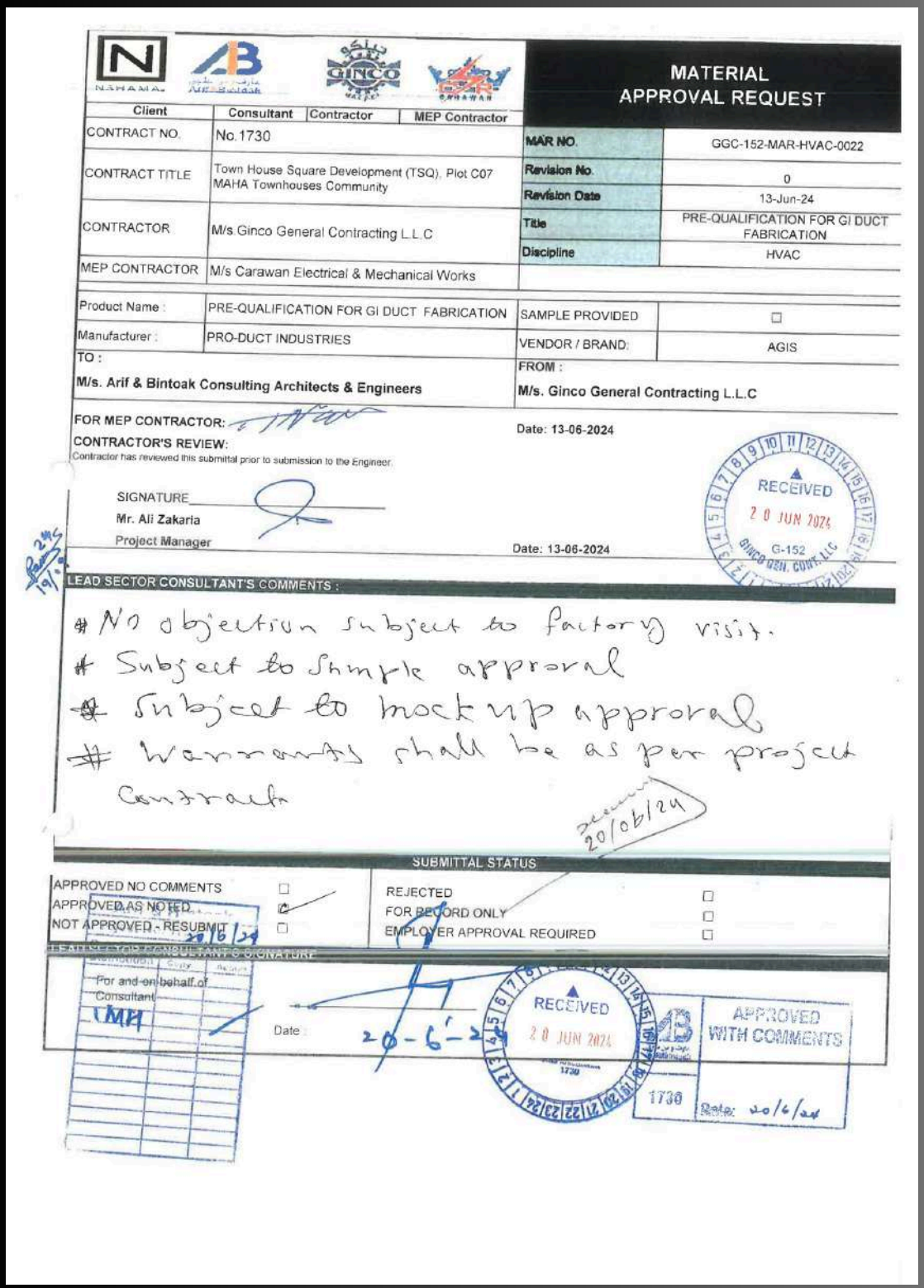
- [ ] Approved
- [x] Approved as Noted
- [ ] Revise & Resubmit
- [ ] Rejected

ENGINEER'S NAME: Wahid Ramzi	SIGNATURE:	DATE: 04-06-2025	
RESIDENT ENGINEER'S NAME: Mohammad Nadeem	SIGNATURE:	DATE: 04-06-2025	
CONTRACTOR'S RECEIVED NAME:	SIGNATURE:	DATE:	

DISTRIBUTION: [ ] Hard Copy [ ] Soft Copy / CD [ ] Soft Copy / Email

1101 GI Duct Fabrication Prequalification 1 Design + Engineering

Approvals



MATERIAL APPROVAL REQUEST

Client	Consultant	Contractor	MEP Contractor

CONTRACT NO.	No.1730
CONTRACT TITLE	Town House Square Development (TSQ), Plot C07 MAHA Townhouses Community
CONTRACTOR	M/s.Ginco General Contracting L.L.C
MEP CONTRACTOR	M/s Carawan Electrical & Mechanical Works

MAR NO.	GGC-152-MAR-HVAC-0022
Revision No.	0
Revision Date	13-Jun-24
Title	PRE-QUALIFICATION FOR GI DUCT FABRICATION
Discipline	HVAC

Product Name :	PRE-QUALIFICATION FOR GI DUCT FABRICATION	SAMPLE PROVIDED	☐
Manufacturer :	PRO-DUCT INDUSTRIES	VENDOR / BRAND:	AGIS

TO :
M/s. Arif & Bintoak Consulting Architects & Engineers

FROM :
M/s. Ginco General Contracting L.L.C

FOR MEP CONTRACTOR:

Date: 13-06-2024

CONTRACTOR'S REVIEW:
Contractor has reviewed this submittal prior to submission to the Engineer.

SIGNATURE
Mr. Ali Zakaria
Project Manager

Date: 13-06-2024

RECEIVED
20 JUN 2024
G-152
GINCO GEN. CONT. LLC

LEAD SECTOR CONSULTANT'S COMMENTS :

No objection subject to factory visit.
Subject to Simple approval
Subject to mock up approval
Warranty shall be as per project Contracts

20/06/24

SUBMITTAL STATUS

APPROVED NO COMMENTS	☐	REJECTED	☐
APPROVED AS NOTED	☑	FOR RECORD ONLY	☐
NOT APPROVED - RESUBMIT	☐	EMPLOYER APPROVAL REQUIRED	☐

LEAD SECTOR CONSULTANT'S SIGNATURE

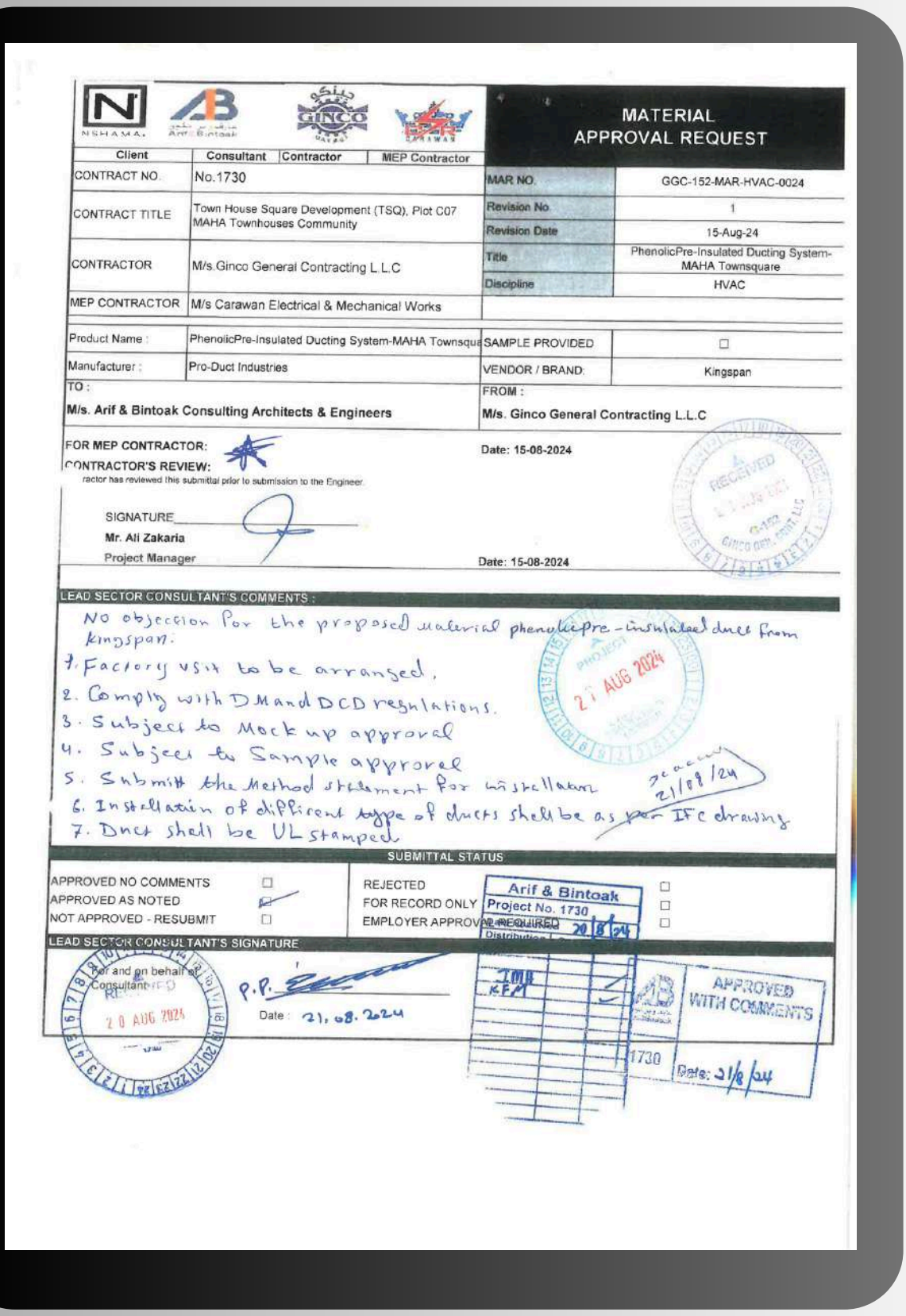
For and on behalf of
Consultant
MH

Date: 20-6-24

RECEIVED
20 JUN 2024
1730

APPROVED WITH COMMENTS
1730
Date: 20/6/24

Approvals



MATERIAL APPROVAL REQUEST

Client	Consultant	Contractor	MEP Contractor

CONTRACT NO.	No.1730	MAR NO.	GGC-152-MAR-HVAC-0024
CONTRACT TITLE	Town House Square Development (TSQ), Plot C07 MAHA Townhouses Community	Revision No.	1
		Revision Date	15-Aug-24
CONTRACTOR	M/s.Ginco General Contracting L.L.C	Title	PhenolicPre-Insulated Ducting System-MAHA Townsquare
		Discipline	HVAC
MEP CONTRACTOR	M/s Carawan Electrical & Mechanical Works		
Product Name :	PhenolicPre-Insulated Ducting System-MAHA Townsqua	SAMPLE PROVIDED	☐
Manufacturer :	Pro-Duct Industries	VENDOR / BRAND:	Kingspan

TO :
M/s. Arif & Bintoak Consulting Architects & Engineers

FROM :
M/s. Ginco General Contracting L.L.C

FOR MEP CONTRACTOR:
CONTRACTOR'S REVIEW:
ractor has reviewed this submittal prior to submission to the Engineer.

Date: 15-08-2024

SIGNATURE
Mr. Ali Zakaria
Project Manager

Date: 15-08-2024

RECEIVED 15 AUG 2024 G-152 GINCO GEN. CONTR. LLC

LEAD SECTOR CONSULTANT'S COMMENTS :

No objection for the proposed material phenolicpre-insulated duct from kingspan.
1. Factory visit to be arranged.
2. Comply with DM and DCD regulations.
3. Subject to Mock up approval
4. Subject to Sample approved
5. Submit the Method statement for installation
6. Installation of diffirent type of ducts shall be as per IFC drawing
7. Duct shall be UL stamped.

PROJECT 21 AUG 2024

Reviewed 21/08/24

SUBMITTAL STATUS

APPROVED NO COMMENTS	☐	REJECTED	☐
APPROVED AS NOTED	☑	FOR RECORD ONLY	☐
NOT APPROVED - RESUBMIT	☐	EMPLOYER APPROVAL REQUIRED	☐

Arif & Bintoak Project No. 1730 Distributed 20/8/24

LEAD SECTOR CONSULTANT'S SIGNATURE

For and on behalf of Consultant

RECEIVED 20 AUG 2024

P.P.

Date : 21.08.2024

IMR KFM

APPROVED WITH COMMENTS

1730 Date: 21/8/24

Approvals

UT

CLIENT	LEAD CONSULTANT	MAIN CONTRACTOR	MEP CONTRACTOR
DUBAI HOLDING REAL ESTATE	Dewan Architects + Engineers	DORRA CRC	CAR CARAWAN

MATERIAL SUBMITTAL

Project : DHRE – 0006 (Plot 5.05) Date: 16 September 2024

City Walk Building Phase 5 Engineer Project Number: D23-38

Submittal No : CW5.5-CRC-DAE-MAT-MEC-0021 Revision: 02

TRANSMITTAL A — To (Contractor): Engineering Construction & Reconstruction Company. Date: 16 Sept 2024

From (Subcontractor): CARAWAN ELECTRICAL & MECHANICAL WORKS LLC Name/Sign: : Moataz Usman (MEP Coordinator)

Discipline: ☐ Architectural ☐ Structural ☐✓ A/C ☐Electrical ☐Plumbing ☐ Landscaping ☐ _____ ☐ _____

Title / Description: GI DUCT MATERIAL SUBMITTAL

Manufacturer / Supplier: NIPPON/AL GHURAIR

Spec. Section Title and Paragraph: Section 233100 Sheet Metal Ductwork and Accessories

Drawing Detail Reference DRW-505-ALL-1000 TO 1204A (AC Layout) , DRW-505-ALL-1000 TO 1204A (Ventilation Layout)

B.O.Q. Reference: Bill No 02 2/Q/20 , Bill No 03 03/Q/20

Area of Use: All AC and Ventilation from Basement to Roof

Enclosures/Attachments:

☐✓ Compliance Statement ☐✓ Manufacturer's Technical Literature ☐✓ Previous Test Reports/ Certificates

☐✓ Samples ☐✓ Copy of Related Specifications ☐✓ Authorization letter (from Manufacturer)

☐✓ Others;

RETURNED 17 SEP 2024

CRC 100102 CITY WALK PHASE 5.05 19 SEP 2024 RECEIVED By: Time:

☐ Submitted for review and approval ☐ Substitution involved – Substitution request attached

☐✓ Resubmitted for review and approval ☐ Resubmission-Comment reply sheet attached

☐ Submitted for information only ☐ If substitution involved submission includes point-by-point

☐ Complies with Contract requirements comparative data or preliminary details

☐ Will be available to meet construction schedule ☐ Items included in submission will be ordered immediately

☐ Engineer review time included in construction schedule upon receipt of approval

TRANSMITTAL B — To (Engineer): DEWAN Attn : Eng. Ayman Al Bayoumi (SRE)

From (Contractor): Engineering Construction & Reconstruction Company Date Rec'd by Contractor: _____

☐ Approved ☐ Revise / Resubmit

☐✓ Approved as noted ☐ Rejected / Resubmit

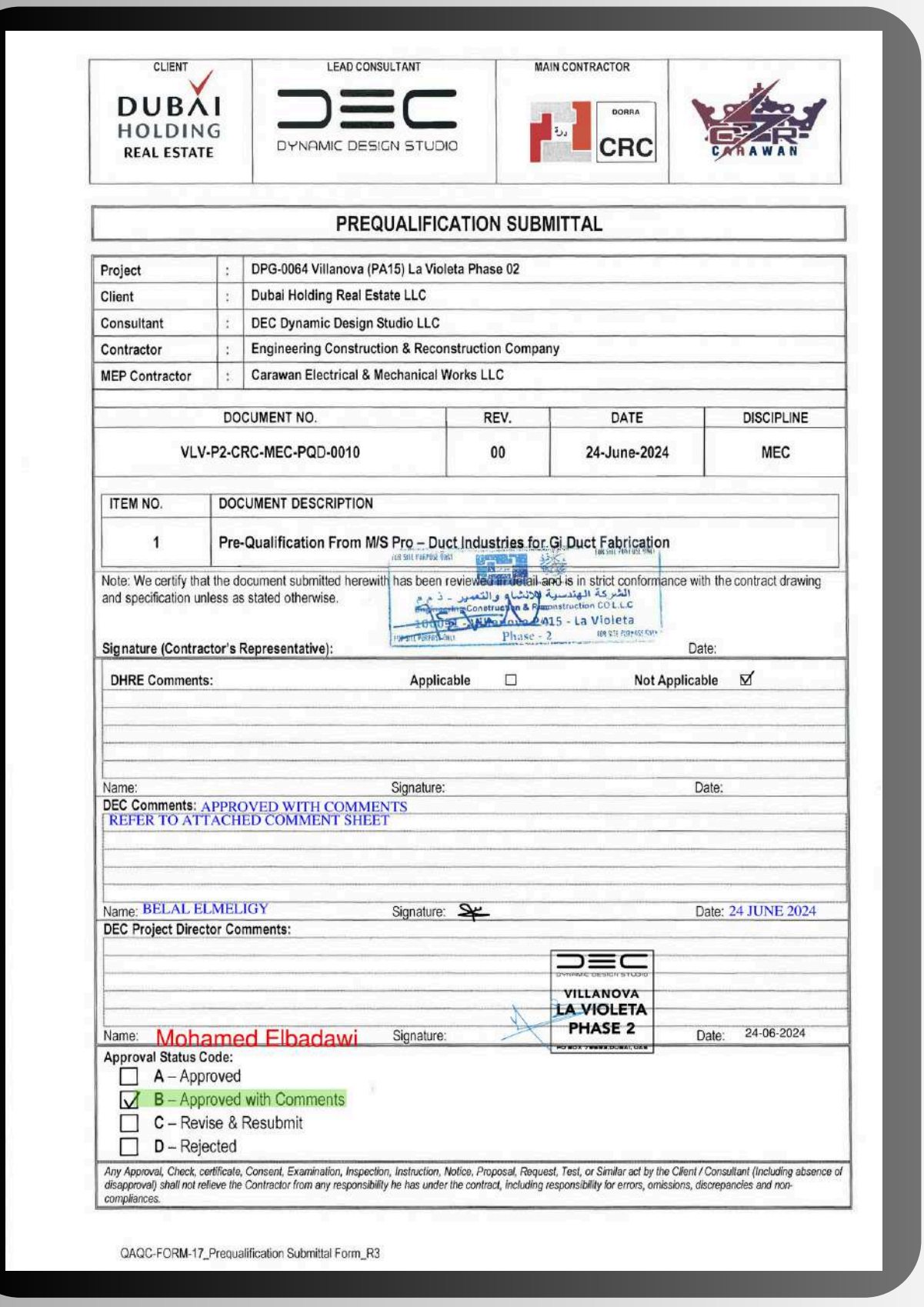
Other remarks on above submission ☐ One copy retained by sender

FOR SITE PURPOSE ONLY — الشركة الهندسية للإنشاءات والتعمير - ذ م م — Engineering Construction & Reconstruction Company LLC — 100102 CITY WALK PHASE 5.05 — FOR SITE PURPOSE ONLY

Name: Ahmed Salama Aly Sign: Date Transmt'd by Contractor : _____

Page 1 of 2 Form F12.2A

Approvals



CLIENT: DUBAI HOLDING REAL ESTATE | LEAD CONSULTANT: DEC DYNAMIC DESIGN STUDIO | MAIN CONTRACTOR: DORRA CRC | CARAWAN

PREQUALIFICATION SUBMITTAL

Project	:	DPG-0064 Villanova (PA15) La Violeta Phase 02
Client	:	Dubai Holding Real Estate LLC
Consultant	:	DEC Dynamic Design Studio LLC
Contractor	:	Engineering Construction & Reconstruction Company
MEP Contractor	:	Carawan Electrical & Mechanical Works LLC

DOCUMENT NO.	REV.	DATE	DISCIPLINE
VLV-P2-CRC-MEC-PQD-0010	00	24-June-2024	MEC

ITEM NO.	DOCUMENT DESCRIPTION
1	Pre-Qualification From M/S Pro – Duct Industries for Gi Duct Fabrication

Note: We certify that the document submitted herewith has been reviewed in detail and is in strict conformance with the contract drawing and specification unless as stated otherwise.

الشركة الهندسية للانشاء والتعمير - ذ م م
Engineering Construction & Reconstruction CO L.L.C
15 - La Violeta
Phase - 2

Signature (Contractor's Representative): Date:

DHRE Comments: Applicable ☐ Not Applicable ☑

Name: Signature: Date:

DEC Comments: APPROVED WITH COMMENTS
REFER TO ATTACHED COMMENT SHEET

Name: BELAL ELMELIGY Signature: Date: 24 JUNE 2024

DEC Project Director Comments:

DEC DYNAMIC DESIGN STUDIO
VILLANOVA
LA VIOLETA
PHASE 2

Name: Mohamed Elbadawi Signature: Date: 24-06-2024

Approval Status Code:

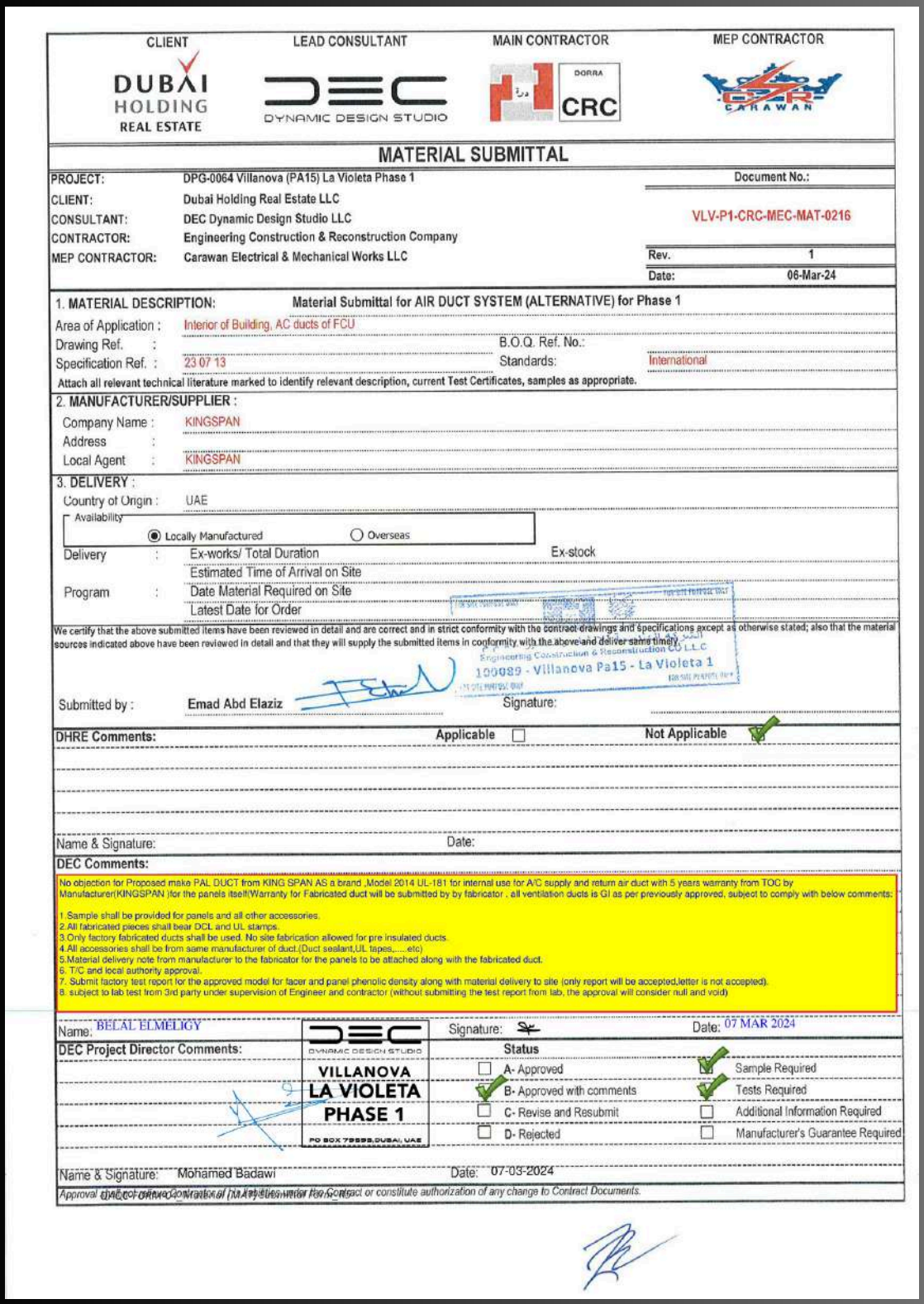
- ☐ A – Approved
- ☑ B – Approved with Comments
- ☐ C – Revise & Resubmit
- ☐ D – Rejected

Any Approval, Check, certificate, Consent, Examination, Inspection, Instruction, Notice, Proposal, Request, Test, or Similar act by the Client / Consultant (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the contract, including responsibility for errors, omissions, discrepancies and non-compliances.

QAQC-FORM-17_Prequalification Submittal Form_R3

Pro-Duct Industries

Approvals



CLIENT: DUBAI HOLDING REAL ESTATE | LEAD CONSULTANT: DEC DYNAMIC DESIGN STUDIO | MAIN CONTRACTOR: DORRA CRC | MEP CONTRACTOR: CARAWAN

MATERIAL SUBMITTAL

PROJECT:	DPG-0064 Villanova (PA15) La Violeta Phase 1	Document No.:	
CLIENT:	Dubai Holding Real Estate LLC		VLV-P1-CRC-MEC-MAT-0216
CONSULTANT:	DEC Dynamic Design Studio LLC		
CONTRACTOR:	Engineering Construction & Reconstruction Company		
MEP CONTRACTOR:	Carawan Electrical & Mechanical Works LLC	Rev.	1
		Date:	06-Mar-24

1. MATERIAL DESCRIPTION: Material Submittal for AIR DUCT SYSTEM (ALTERNATIVE) for Phase 1

Area of Application : Interior of Building, AC ducts of FCU
Drawing Ref. :
Specification Ref. : 23 07 13
B.O.Q. Ref. No.:
Standards: International

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. MANUFACTURER/SUPPLIER :

Company Name : KINGSPAN
Address :
Local Agent : KINGSPAN

3. DELIVERY :

Country of Origin : UAE

Availability: (●) Locally Manufactured ( ) Overseas

Delivery : Ex-works/ Total Duration — Ex-stock
Estimated Time of Arrival on Site
Program : Date Material Required on Site
Latest Date for Order

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Engineering Construction & Reconstruction CO L.L.C 100089 - Villanova Pa15 - La Violeta 1

Submitted by : Emad Abd Elaziz — Signature:

DHRE Comments: Applicable ☐ Not Applicable ☑

Name & Signature: Date:

DEC Comments:

No objection for Proposed make PAL DUCT from KING SPAN AS a brand ,Model 2014 UL-181 for internal use for A/C supply and return air duct with 5 years warranty from TOC by Manufacturer(KINGSPAN)for the panels itself(Warranty for Fabricated duct will be submitted by by fabricator . all ventilation ducts is GI as per previously approved, subject to comply with below comments:

1.Sample shall be provided for panels and all other accessories.
2.All fabricated pieces shall bear DCL and UL stamps.
3.Only factory fabricated ducts shall be used. No site fabrication allowed for pre insulated ducts.
4.All accessories shall be from same manufacturer of duct.(Duct sealant,UL tapes,.....etc)
5.Material delivery note from manufacturer to the fabricator for the panels to be attached along with the fabricated duct.
6. T/C and local authority approval.
7. Submit factory test report for the approved model for facer and panel phenolic density along with material delivery to site (only report will be accepted,letter is not accepted).
8. subject to lab test from 3rd party under supervision of Engineer and contractor (without submitting the test report from lab, the approval will consider null and void)

Name: BELAL ELMELIGY — Signature: — Date: 07 MAR 2024

DEC Project Director Comments:

DEC DYNAMIC DESIGN STUDIO — VILLANOVA / LA VIOLETA / PHASE 1 — PO BOX 73535,DUBAI, UAE

Status

☐ A- Approved	☑ Sample Required
☑ B- Approved with comments	☑ Tests Required
☐ C- Revise and Resubmit	☐ Additional Information Required
☐ D- Rejected	☐ Manufacturer's Guarantee Required

Name & Signature: Mohamed Badawi — Date: 07-03-2024

Approval does not relieve Contractor of liability under the Contract or constitute authorization of any change to Contract Documents.

Approvals

SUBCONTRACTOR APPROVAL

CONTRACT NO.	148733	SCAR NO:	INVB-i118-SCAR-MEP-0014-00
CONTRACT TITLE	JEBEL ALI VILLAGE VILLAS & INFRASTRUCTURE	REVISION NO.:	00
EMPLOYER	NAKHEEL PJSC	REVISION DATE:	12-Jun-24
BUILDING CONSULTANT	ARCHGROUP CONSULTANTS INTERNATIONAL	TRADE	INFRA
INFRA CONSULTANT	PARSONS INTERNATIONAL		MEP
MEP CONSULTANT	GREEN CONCEPT ENGINEERING CONSULTANTS	DISCIPLINE	MECHANICAL
		CONTRACTOR	Innovo Build LLC
		SUBCONTRACTOR	M/s. Carawan Electrical & Mechanic

DESCRIPTION & SCOPE OF WORK :

Pre-Qualification for GI Duct Fabrication (M/s. Pro Duct Industries LLC)

CONTRACTOR'S ATTESTATION :

Prequalification / Submittal Comply with Approved Vendor List : ☐ Yes ☑ Not Applicable

CONTRACTOR'S REVIEW :

Contractor has reviewed this submission prior to submission to Consultant :

Signature : Alaa Mamdouh

Date : 12-Jun-24

innovo BUILD L.L.C PO Box 52939, Dubai, UAE Tel +971 4 666 5600 info@innovogroup.com

BUILDING / INFRASTRUCTURE WORKS CONSULTANT COMMENTS :

I) Conditional approval subject to comply with below comments.
a) M/s INNOVO responsibility to ensure that all the previous comments given in other Approved PQ's for duct fabricator and project specifications are fully complied in this submissions,non compliance to any of the previous comments is purely under Innovo's responsibility to rectify without additional cost and time.
b) Subject to deliver the complete ready to install ducts at site.
c) Not allowed for duct site fabrications,insulations and liners.
d) All MIR's to be submitted for every Villa's for Engineers approvals.
e) Duct fabrications shall be as per project specifications,refer comments in duct construction schedule and given comments in Mock up .
f) Subject to maintain the duct quality through out the delivery.
g) Contractor to strictly maintain the Villa separation with different fabricators,not allowed to mix the ducts from different fabricators in one Villa"s.
h) Subject to factory visit.

CONSULTANT (PM) COMMENTS :

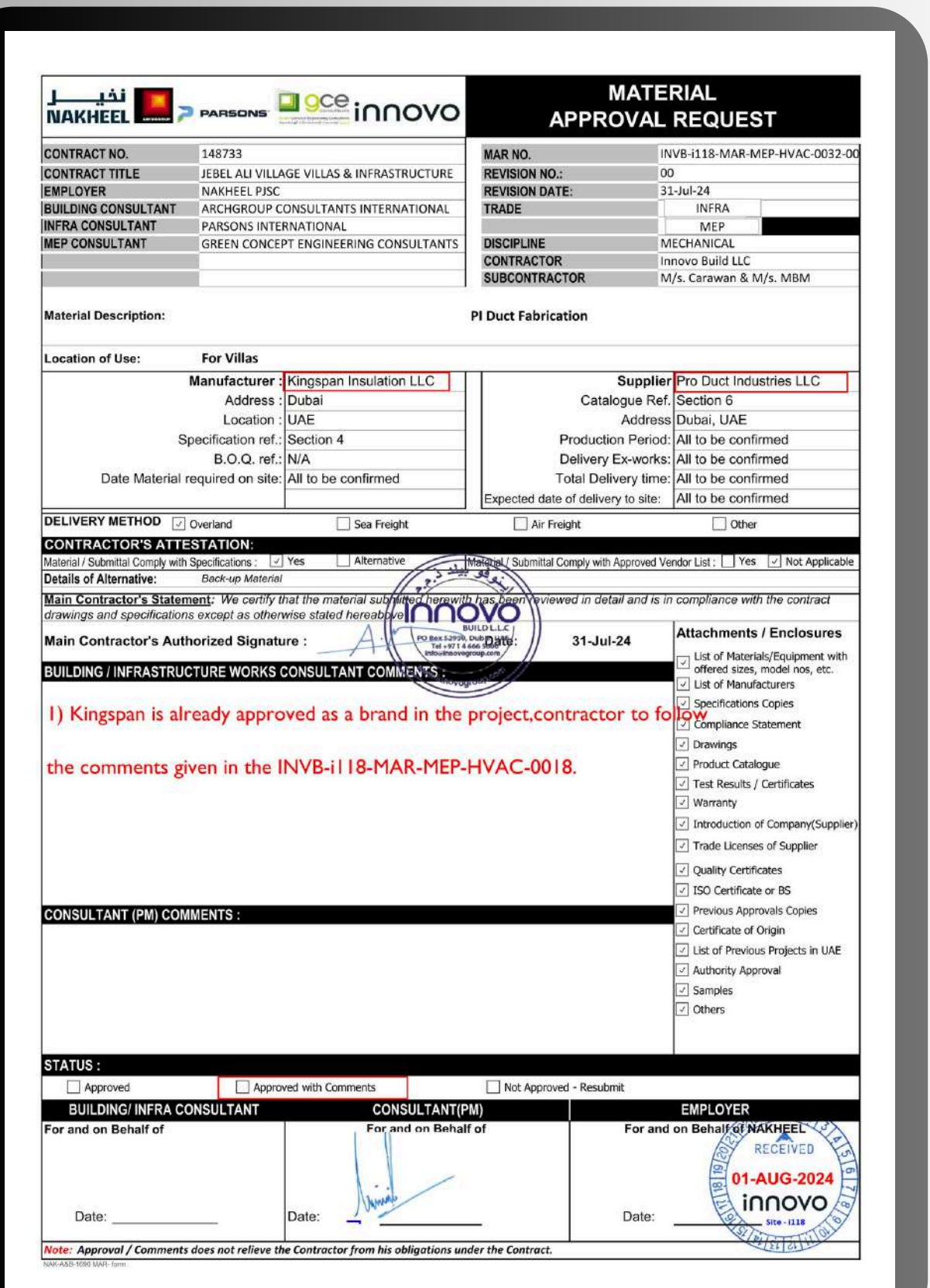
STATUS :

☐ Approved ☐ Approved As noted ☐ Not Approved - Resubmit

BUILDING/ INFRA CONSULTANT	CONSULTANT(PM)	EMPLOYER
For and on Behalf of	For and on Behalf of	For and on Behalf of NAKHEEL
Date: _____	Date:	Date: RECEIVED 14-JUN-2024 innovo Site - i118

Note: ***Approval / Comments does not relieve the Contractor from his obligations under the Contract.***

Approvals



NAKHEEL PARSONS gce innovo

MATERIAL APPROVAL REQUEST

CONTRACT NO.	148733	MAR NO.	INVB-i118-MAR-MEP-HVAC-0032-00
CONTRACT TITLE	JEBEL ALI VILLAGE VILLAS & INFRASTRUCTURE	REVISION NO.:	00
EMPLOYER	NAKHEEL PJSC	REVISION DATE:	31-Jul-24
BUILDING CONSULTANT	ARCHGROUP CONSULTANTS INTERNATIONAL	TRADE	INFRA
INFRA CONSULTANT	PARSONS INTERNATIONAL		MEP
MEP CONSULTANT	GREEN CONCEPT ENGINEERING CONSULTANTS	DISCIPLINE	MECHANICAL
		CONTRACTOR	Innovo Build LLC
		SUBCONTRACTOR	M/s. Carawan & M/s. MBM

Material Description: PI Duct Fabrication

Location of Use: For Villas

Manufacturer :	Kingspan Insulation LLC	Supplier	Pro Duct Industries LLC
Address :	Dubai	Catalogue Ref.	Section 6
Location :	UAE	Address	Dubai, UAE
Specification ref.:	Section 4	Production Period:	All to be confirmed
B.O.Q. ref.:	N/A	Delivery Ex-works:	All to be confirmed
Date Material required on site:	All to be confirmed	Total Delivery time:	All to be confirmed
		Expected date of delivery to site:	All to be confirmed

DELIVERY METHOD ☑ Overland ☐ Sea Freight ☐ Air Freight ☐ Other

CONTRACTOR'S ATTESTATION:

Material / Submittal Comply with Specifications : ☑ Yes ☐ Alternative — Material / Submittal Comply with Approved Vendor List : ☐ Yes ☑ Not Applicable

Details of Alternative: *Back-up Material*

Main Contractor's Statement: *We certify that the material submitted herewith has been reviewed in detail and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.*

innovo BUILD L.L.C PO Box 52990, Dubai UAE Tel +971 4 666 5000 info@innovegroup.com

Main Contractor's Authorized Signature : **Date:** 31-Jul-24

BUILDING / INFRASTRUCTURE WORKS CONSULTANT COMMENTS :

1) Kingspan is already approved as a brand in the project,contractor to follow

the comments given in the INVB-i118-MAR-MEP-HVAC-0018.

Attachments / Enclosures

- ☑ List of Materials/Equipment with offered sizes, model nos, etc.
- ☑ List of Manufacturers
- ☑ Specifications Copies
- ☑ Compliance Statement
- ☑ Drawings
- ☑ Product Catalogue
- ☑ Test Results / Certificates
- ☑ Warranty
- ☑ Introduction of Company(Supplier)
- ☑ Trade Licenses of Supplier
- ☑ Quality Certificates
- ☑ ISO Certificate or BS
- ☑ Previous Approvals Copies
- ☑ Certificate of Origin
- ☑ List of Previous Projects in UAE
- ☑ Authority Approval
- ☑ Samples
- ☑ Others

CONSULTANT (PM) COMMENTS :

STATUS :

☐ Approved ☐ Approved with Comments ☐ Not Approved - Resubmit

BUILDING/ INFRA CONSULTANT	CONSULTANT(PM)	EMPLOYER
For and on Behalf of	For and on Behalf of	For and on Behalf of NAKHEEL
Date:	Date:	Date:

RECEIVED 01-AUG-2024 innovo Site - i118

Note: *Approval / Comments does not relieve the Contractor from his obligations under the Contract.*

NAK-AAB-1090 MAR- form

Approvals

OMNIYAT
THE ART OF ELEVATION

egis

innovo

Main Works - ORLA INFINITY by Omniyat Evelopment on Plot No. PJCRC15-16B Palm Jumeriah

EMPLOYER REPRESENTATIVE : OMNIYAT DEVELOPMENT MANAGEMENT LIMITED

LEAD CONSULTANT: P&T ARCHITECTS & ENGINEERS LTD

ARCHITECT OF RECORD: EGIS

CONTRACTOR: INNOVO BUILD LLC | PLOT NO.: PJCRC15-16B

Date : 26-Feb-2025 | MS No: MS-IBL-INFINITY-MEP-M-0015-R0

MATERIAL SUBMITTAL

New Submittal : [✓] Resubmittal : [ ]

MATERIAL DESCRIPTION :

Material Submittal for Pre-Insulated Ducting System

AS SPECIFICATION [✓] ALTERNATIVE [ ] CONTRACTOR PROPOSAL [✓]

Location: Supply and Return Connected to Fan Coil Units, and Terminal Units (VAVs) — Sample Attached [✓]

Drawing Ref. HVAC SYSTEM — B.O.Q :

Specification Ref. SECTION 23 31 00 , 2.6

(Attach all relevant technical literature marked to identify relevant descriptions , current test certificate , samples etc.)

	MANUFACTURER	SUPPLIER	APPLICATOR / INSTALLER
Company Name :	Kingspan	Pro Duct Industries L.L.C	MENASCO MECHANICAL CONTRACTING L.L.C
Address:	UAE	United Arab Emirates	Dubai, United Arab Emirates

Product Name: Pre-Insulated Ducting System — Country of Origin: UAE

SPECIFICATION COMPARISION:

Specification Requirements	CONTRACTOR Proposal

Attached Documents: For Review [✓] For Information [ ] Signature: 26.2.2025

Consultant's Comments :

Refer attachment for comments and to be complied

Status - B (RESUBMIT)

Engineer: Shyam, EGIS-Sr Mechanical Engineer — Date: 10.03.2025

Sr. Resident Engineer: — Date: 10.03.2025

Acceptance Status:

A. CHECKED AND REVIEWED [ ] WORK MAY PROCEED

B. CHECKED AND REVIEWED SUBJECT TO MINOR REVISION [ ] AS NOTED WORK MAY PROCEED AS PER AMENDMENTS NOTED

C. REJECTED [ ] REVISE & RESUBMIT

D. FOR RECORD [ ] INFORMATION

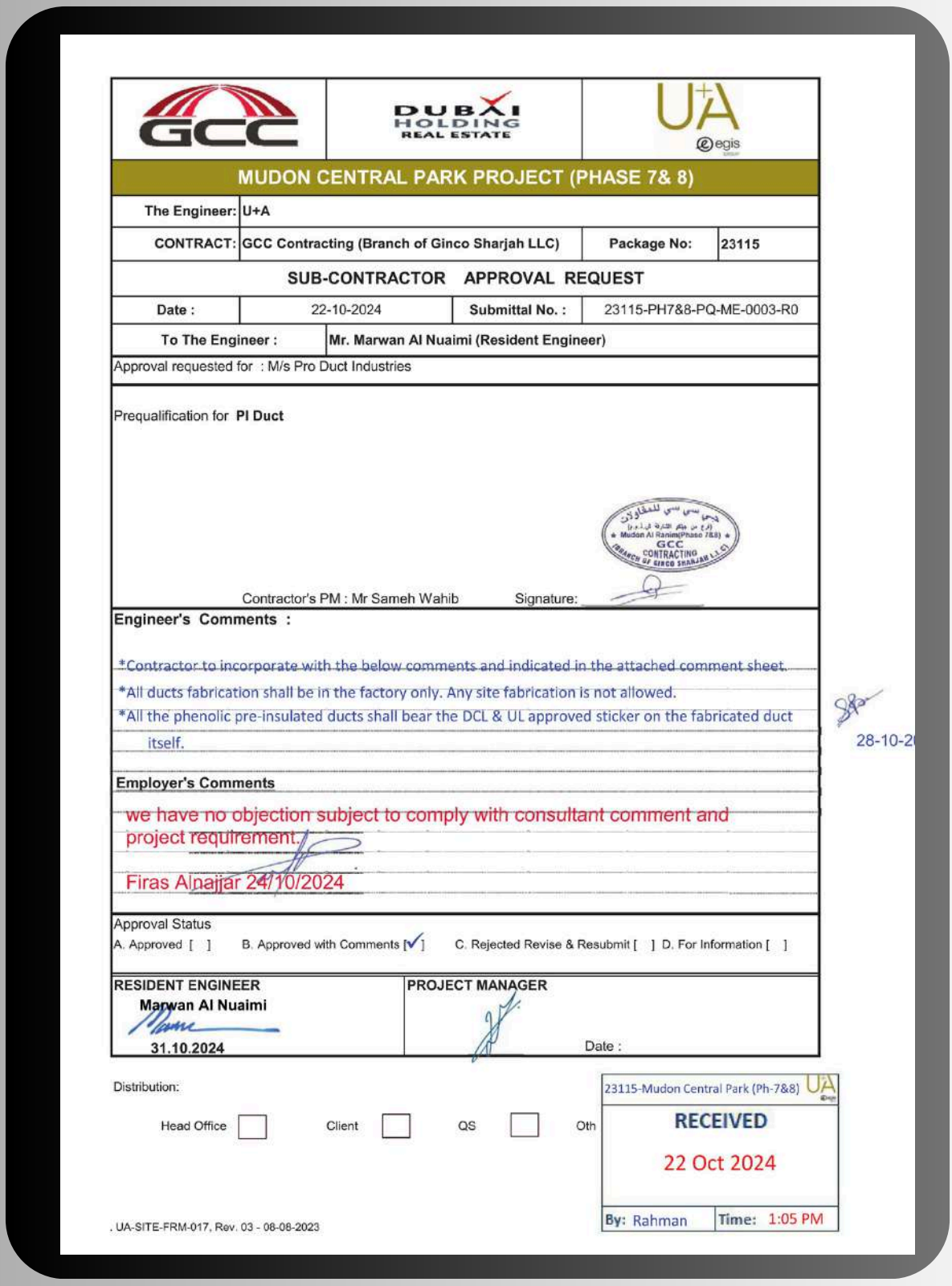
EMPLOYER's REPRESENTATIVE COMMENT'S :

A. APPROVED [ ] B. APPROVED WITH COMMENTS [ ] C. REJECTED [ ] D. FOR RECORD [ ] INFORMATION

Reviewed by: PM — Date:

Approved by: PD — Date: AV 13.03.2025

Approvals



MUDON CENTRAL PARK PROJECT (PHASE 7& 8)

The Engineer:	U+A		
CONTRACT:	GCC Contracting (Branch of Ginco Sharjah LLC)	Package No:	23115

SUB-CONTRACTOR APPROVAL REQUEST

Date :	22-10-2024	Submittal No. :	23115-PH7&8-PQ-ME-0003-R0
To The Engineer :	Mr. Marwan Al Nuaimi (Resident Engineer)		

Approval requested for : M/s Pro Duct Industries

Prequalification for **PI Duct**

GCC CONTRACTING BRANCH OF GINCO SHARJAH L.L.C.

Contractor's PM : Mr Sameh Wahib Signature:

Engineer's Comments :

*Contractor to incorporate with the below comments and indicated in the attached comment sheet.
*All ducts fabrication shall be in the factory only. Any site fabrication is not allowed.
*All the phenolic pre-insulated ducts shall bear the DCL & UL approved sticker on the fabricated duct itself.

28-10-2

Employer's Comments

we have no objection subject to comply with consultant comment and project requirement.

Firas Alnajjar 24/10/2024

Approval Status

A. Approved [ ] B. Approved with Comments [✓] C. Rejected Revise & Resubmit [ ] D. For Information [ ]

RESIDENT ENGINEER	PROJECT MANAGER
Marwan Al Nuaimi 31.10.2024	Date :

Distribution:

Head Office [ ] Client [ ] QS [ ] Oth

23115-Mudon Central Park (Ph-7&8)

RECEIVED

22 Oct 2024

By: Rahman Time: 1:05 PM

. UA-SITE-FRM-017, Rev. 03 - 08-08-2023

Approvals

Pro-Duct Industries

Emarat

PROJECT NAME: 7600 - Umm Fannain - Sharjah

Material Submittal

Ref. No.	7600-MAT-MEC-0011-00
Rev. No.	00
Date:	17-Aug-2024

DOCUMENT DETAILS

Item Description	**GI Duct**
Category	Mechanical
Scope of Work	
Location	C Store
Specs. Ref.	15810
BOQ Ref.	Vol IV, Mechanical Works
Drawing Ref.	
Material Approval Ref.	
Drawing Approval Ref.	
Pervious Approval Ref.	
Manufacturer/Local Supplier Details	M/s Agis/Pro-Duct Industries
Reason for Change	
No. of Drawings/ Ref. No.	
Remarks	

LIST OF ENCLOSURE

- [x] Compliance Statement
- [x] Company Profile
- [x] Trade/Commercial License
- [x] Technical Data Sheet
- [x] Test Report
- [x] Method Statement
- [x] ISO Certification
- [x] List of Projects Executed
- [x] Catalogue & Data Sheet
- [x] Certificate of Conformity
- [x] Warranty Certificate
- [x] Related Drawings
- [x] Specification Compliance
- [x] Test Certificate
- [ ] Photograph of Sample
- [ ] Sample
- [x] List of Proposed Items
- [ ] Others (__________)

Main Contractor Statement: We certify that the Document submitted herewith has been reviewed in details and is in compliance with the Contract Drawings and specifications except as otherwise stated hereabove.

Main Contractor/Sub-contractor:	*Received by:*
Signature & Date: 17-Aug-2024	*Date:*

Emarat Representative's Comments

* No Erection subjected to comply with the project specification
* to Follow SMACNA standard.
* No duct Fabrication allowed over the site
* subjected to sample approval and final TPC inspection approved.
* warranty & guarantee shall be as per the approved spec.

- [ ] A- Approved
- [x] B- Approved As Noted
- [ ] C- Revise, Resubmit
- [ ] D- Rejected

Signature:

Name: Ahmed Rashed 20/08/2024

Date:

Corrections or comments made related to submittals during this review do not relieve the contractor from compliance with the contract requirements and specifications and does not constitute a departure from Contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.

WWW.PRO-DUCTINDUSTRIES.COM

Pro-Duct Industries

Approvals

Emarat | J&D Gulf Contracting L.L.C. | CARAWAN

PROJECT NAME:	7610 - Wadi Ashwani - Ras Al Khaimah

Material Submittal

Ref. No.	7610-MAT-MEC-0007-01
Rev. No.	01
Date:	18-Jul-2024

DOCUMENT DETAILS

Item Description	**GI Duct**
Category	Mechanical
Scope of Work	
Location	C Store
Specs. Ref.	15810
BOQ Ref.	Vol IV, Mechanical Works
Drawing Ref.	N/A
Material Approval Ref.	
Drawing Approval Ref.	
Pervious Approval Ref.	
Manufacturer/Local Supplier Details	M/s Agis/Pro-Duct Industries
Reason for Change	
No. of Drawings/ Ref. No.	
Remarks	

LIST OF ENCLOSURE

- [x] Compliance Statement
- [x] Company Profile
- [x] Trade/Commercial License
- [x] Technical Data Sheet
- [x] Test Report
- [x] Method Statement
- [x] ISO Certification
- [x] List of Projects Executed
- [x] Catalogue & Data Sheet
- [x] Certificate of Conformity
- [x] Warranty Certificate
- [ ] Related Drawings
- [x] Specification Compliance
- [x] Test Certificate
- [x] Photograph of Sample
- [ ] Sample
- [x] List of Proposed Items
- [ ] Others (__________)

Main Contractor Statement: We certify that the Document submitted herewith has been reviewed in details and is in compliance with the Contract Drawings and specifications except as otherwise stated hereabove.

Main Contractor/Sub-contractor:	*Received by:*
Signature & Date: 18-Jul-2024	*Date:*

Emarat Representative's Comments

1) No objection subjected to comply with the project specification
2) To follow SMACNA standard.
3) No duct fabrication over the site allowed
4) subjected to sample approval and final inspection approval.
5) warranty & guarantee shall be as per the project spec

- [ ] A- [illegible]
- [x] B- Approved As Noted
- [ ] C- Revise, Resubmit
- [ ] D - Rejected

Signature:

Name: Ahmed Rashed 26/7/2024

Date:

Corrections or comments made related to submittals during this review do not relieve the contractor from compliance with the contract requirements and specifications and does not constitute a departure from Contract. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents.

Pro-Duct
Industries

OUR BRANCHES

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