

Company Profile

SEAGULL (HVAC) INDUSTRY L.L.C

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Introduction

INTRODUCTION

Seagull HVAC Industry was originally established in Dubai in 1991, with the purpose of offering a high quality sheet metal ductwork to the customers. Seagull quickly became established from humble beginning through planned expansion and presently has facilities in Abu Dhabi and Qatar with the head office in AL Quoz Industrial Area, Dubai. The annual turn over of Seagull is about AED 70 Million with 300 technical staff and workers.

Seagull production plants are spread over 70,000 ft² with annual production capacity of 410,000 m².

Seagull offers high quality G.I., Stainless Steel, Aluminum and Mild Steel ductwork to all international standards, Noise Control Products i.e. Sound Attenuators, Acoustic Louvres and Acoustic Consultancy Services, Fire Rated Ductwork and Fire Rated Sound Attenuators, Ductwork Flange System, VCD's, Access Doors and Flexible Duct.

In order to remain the market leader, Seagull has maintained a policy of continuous investment in new products, technology, manufacturing expertise and ongoing training. The experienced staff at Seagull ensures complete customer satisfaction, from tendering through to the final delivery.

A Quality Management System has been implemented by the organization to meet the specified requirements of Quality System ISO 9001. Manufacturing and assembly is carried out under strict controls and procedures in accordance with Quality Assurance System ISO 9001:2008.

Seagull was also awarded Emirates Quality Mark (Al - Alama) in 2013 by Emirates Authority for Standardization & Metrology.

When selecting trading partners, the Seagull policy is to work with the companies who are recognized world leaders in their field. This is clearly demonstrated with the appointment of Seagull to represent Kingspan, UK (Pre-Insulated Ducting), AAT, UK (Sound Attenuators & Acoustic Louvers), and Firesafe Fire Rated Ductwork Ltd. UK (Fire Rated Ductwork & Attenuators).

Today, Seagull is a multi-product based company with an extensive product portfolio covering not only the United Arab Emirates and Gulf region, but also Pakistan and Afghanistan.



Products and Services

PRODUCTS AND SERVICES

➤ Sheet Metal Ductwork

- Rectangular Ductwork in G.I., Mild Steel, Stainless Steel and Aluminum
- Spirally Wound Round Ductwork in G.I.

➤ Sound Attenuators , Acoustic Louvers , VAVs

➤ Acoustic Panels

- Metal Panels
- Decorative Panels
- Fabric Panels

➤ Fire Rated Ductwork System & Sound Attenuators - Firesafe (Under license from **Firesafe Fire Rated Ductwork – UK**)

➤ Claw Duct Flange System

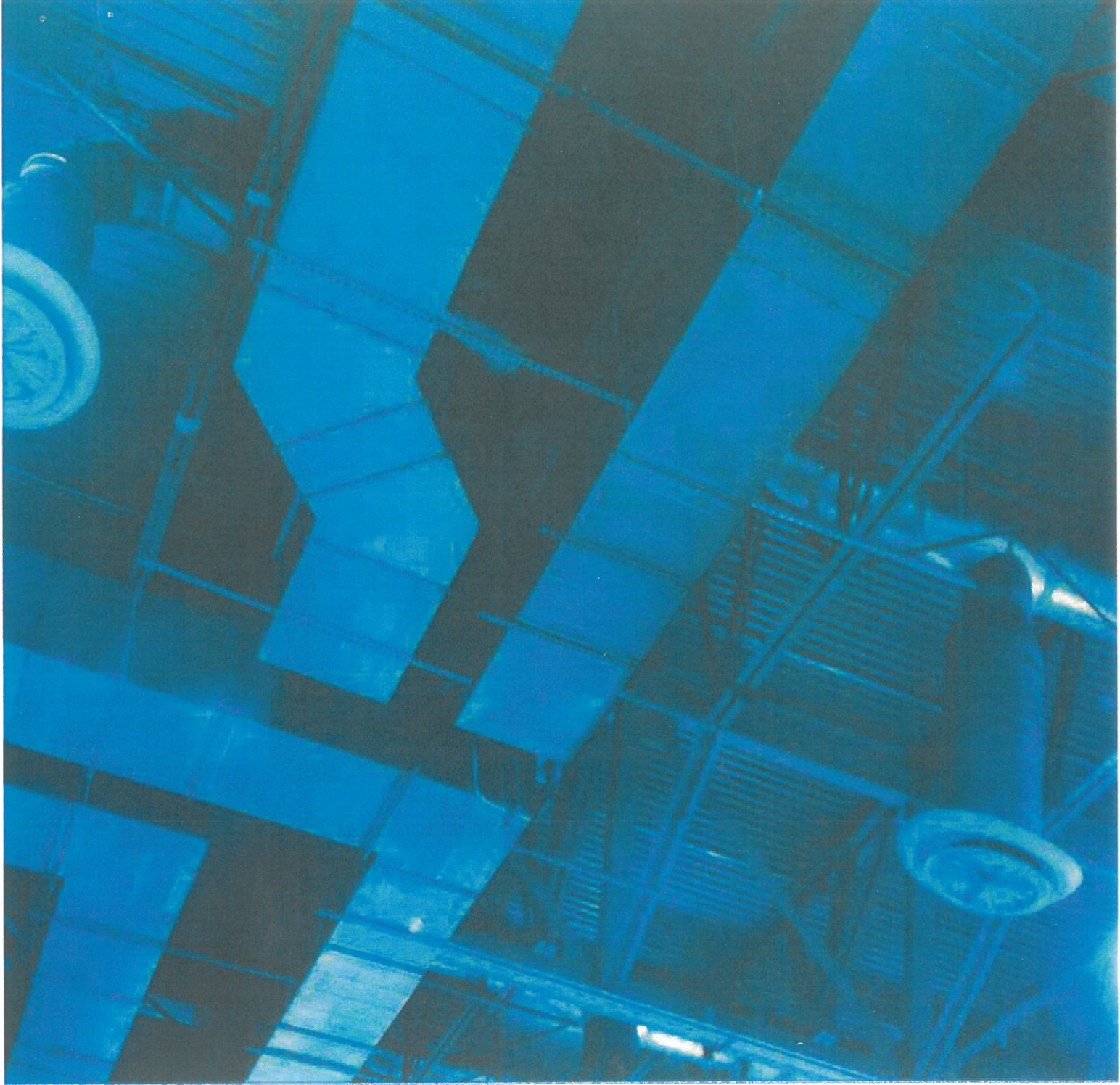
➤ Flexible Duct - Best Flex (Under license from **Best Flex - USA**)

➤ Ductwork Accessories VCD, Access Doors, Turning Vanes & Tracks, Washable Filters & Frames

➤ Acoustic Design & Consultancy Services

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Brochures & Catalogues



SEAGULL
Leaders in HVAC



Our Company

At the Forefront of the HVAC Industry

For over 20 years Seagull has been manufacturing ductwork and components for the HVAC industry in the GCC.

The company's objective is to provide our clients with a comprehensive range of quality products and services at competitive prices.

Today Seagull Industries boasts production facilities in the UAE, KSA and Qatar. With a total production area of 10,000 square meters the combined metal sheet production capacity is now up to 500,000 square meters annually.

Perfecting Manufacturing Expertise

Our position as one of the market leaders in the UAE sheet metal industry is attributed to the fact that we have constantly maintained a policy of investing in new technology and expertise.

*Seagull is an ISO 9001 certified company.

Our Product Range

- G.I. Rectangular ductwork to low, medium and high pressure classes
- Spirally wound circular ductwork to low, medium and high pressure classes
- Black steel rectangular ductwork
- Stainless steel rectangular ductwork
- Aluminium rectangular ductwork
- Rectangular sound attenuators
- Circular sound attenuators
- Low noise VAV terminal units
- Acoustic doors
- Acoustic louvres
- Acoustic design services
- Acoustic wall panel systems
- Acoustic enclosures
- Fire rated ventilation ductwork system
- Fire rated sound attenuators
- Slip on duct flanges and related accessories
- Turning vanes and tracks
- Duct access doors
- Volume control dampers
- Washable aluminium filters and frames
- Flexible ducts



Ductwork

Ductwork forms an essential part of our industrial offering. Our expertise in this area and use of specialized CNC machinery helps us shape sheet metal into a variety of formats for HVAC installations.

We fully comply with the standards and specifications set by leading HVAC associations:

- **DW/144:** Specification for sheet metal ductwork by HVCA (UK)
- **SMACNA:** Sheet Metal and Air-conditioning contractors National Association (USA)
- **NFPA:** National Fire Protection Association (USA)
- **DW/172:** Specification for kitchen ventilation system by HVCA (UK)

Our world-class methodology ensures that all our ductwork and fittings are pre-programmed in strict compliance with recognized, international construction quality standards. We have the capacity to manufacture low, medium and high pressure systems based on the specific requirements of our clients.



Spirally Wound Circular Ductwork

We are the primary company in the UAE renowned for locally manufacturing spiral seam circular ductwork and fittings for the HVAC industry.

Our expertise extends to include circular ductwork, 100mm to 1250mm diameter, manufactured in pre-determined lengths for all pressure classes. All products ranging from straight pipes to elbows, reducers, offset & endcaps are produced accurately and efficiently using specialized CNC machinery.

Acoustic Products



(i) **Sound Attenuators:** The comprehensive range of Sound Attenuators manufactured at Seagull have been designed to address the widest possible spectrum of acoustic problems that are encountered by the building services industry.

Sound Attenuators have been tested to American standards ASTM E 477:06a and British standards BS 4718. They are built to the latest HVAC standards, SMACNA and DW 144.

We can supply the full range of sound attenuators, in Rectangular or Circular design.



(ii) **Acoustic Louvres:** The extensive diamond range of acoustic louvres manufactured at Seagull have been designed to meet the varied requirements of both the Architect & Building Services Engineer, wherever the need arises to pass air through the external fabric of a building and yet still maintain a high overall level of sound reduction and pleasing appearance.

The key design features of Seagull manufactured Acoustic Louvres are:

Excellent and consistent external appearance.

Efficient aerodynamic performance.

Effective noise reducing performance.

(iii) **Acoustic Consultancy:** Our team of professionals is capable of providing solutions for noise and vibration problems for HVAC equipments and other building services.



Fire Rated Ductwork/Sound Attenuator



Caswell Firesafe Fire Rated Ductwork & Sound Attenuator are Seagull's latest innovative product offering.

Caswell Firesafe Fire Rated Ductwork & Sound Attenuator are approved by Civil Defence Authorities of Abu Dhabi, Dubai, Oman & Qatar and has been installed on many prestigious projects in the UAE, Qatar, Oman & Jordan

Caswell Fire Rated Ductwork & Sound Attenuator are competitive, easy to install like conventional ductwork and does not require any Fire Retardant coating to be applied.

Caswell Fire Rated Ductwork system have been tested for 240 minutes Stability and integrity and 120 minutes insulation as per BS 476 Part 24: 1987 (ISO 6944-1985) Standard.

Caswell Firesafe Fire Rated Ductwork System is UL Listed

Caswell Fire Rated Ductwork system is suitable for all fire resisting ductwork applications:

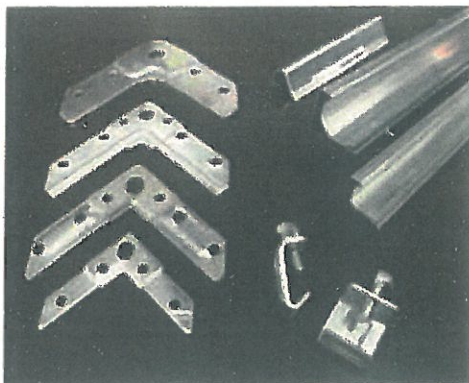
Smoke Extract, Kitchen Extract, Car Park Extract and Pressurization.

Full range of Fire Rated accessories are available.



Slide-on Duct Flange System

- Tested and certified by BSRIA to DW/144 for leakage and deflection utilizing the methods of EN 1507-2006 for pressure classes A, B & C
- Suitable for joint ratings up to J6 for pressure classes A, B & C.
- Full compliance with UK, HVCA specification DW/144 & SMACNA.
- Rapid assembly of cross joints.
- Permanently flexible non-toxic sealant injected into the profile during manufacture.
- Availability in standard size of 20mm, 30mm and 40mm with full range of accessories to suit all sizes of ducting.
- Availability in a range of material types such as Galvanize steel, Stainless steel, Aluminum and gauges to suit specifications and requirements.



Projects

With experience spanning over 20 years, comprehensive expertise and state-of-the-art technology, Seagull has made its presence known across the region and has successfully completed projects in:

- UAE
- Qatar
- Oman
- Bahrain
- Pakistan
- Afghanistan
- Jordan

Hotels & Resorts:

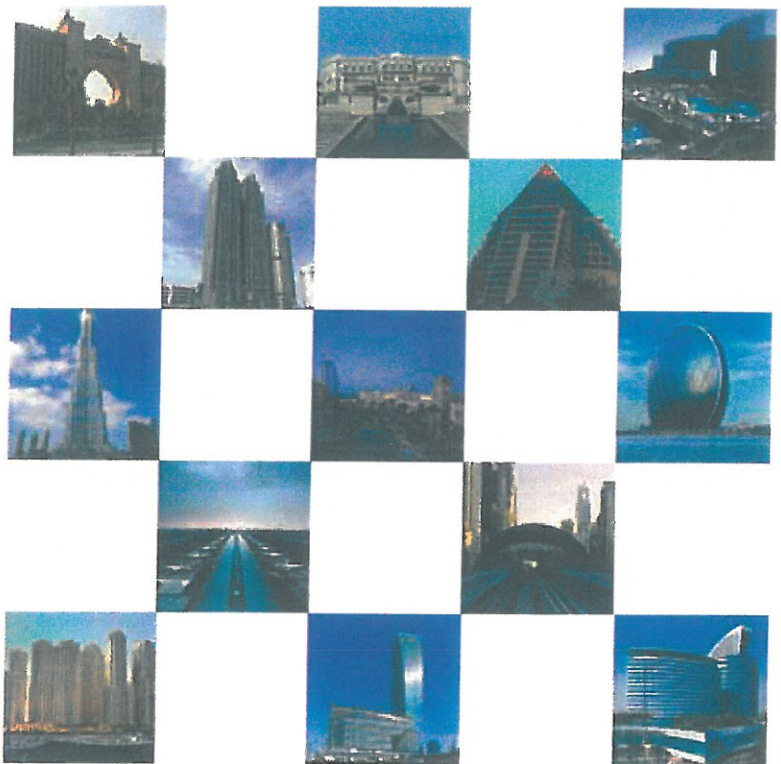
- Atlantis -The Palm
- Emirates Palace
- Grand Hyatt
- Shangri La
- The Raffles
- Burj Khalifa
- Madinat Jumeirah
- The Address
- Crowne Plaza
- Kempinski Hotel Palm Jumeirah
- Oman Guest Royal Palace
- The Pearl Qatar
- Presidential Palace

Government Buildings:

- Dubai Airport Terminals 1 & 2
- Dubai Metro
- Aldar Headquarters
- Ministry of Finance
- Dubai Police Headquarters

Residential/ Commercial:

- Jumeirah Beach Residences
- U-Bora
- Al Raha Beach Development



Shopping Malls:

- The Dubai Mall
- Mirdif City Center
- Mall of the Emirates
- Sharjah City Center
- Festival City

Financial Centers:

- DIFC
- The Gate

Educational Institutions:

- Sheikh Zayed University Dubai
- Sheikh Zayed University Abu Dhabi
- Masdar Institute of Science & Technology Abu Dhabi
- Higher College of Technology for Women Dubai
- Paris Sorbonne University Abu Dhabi

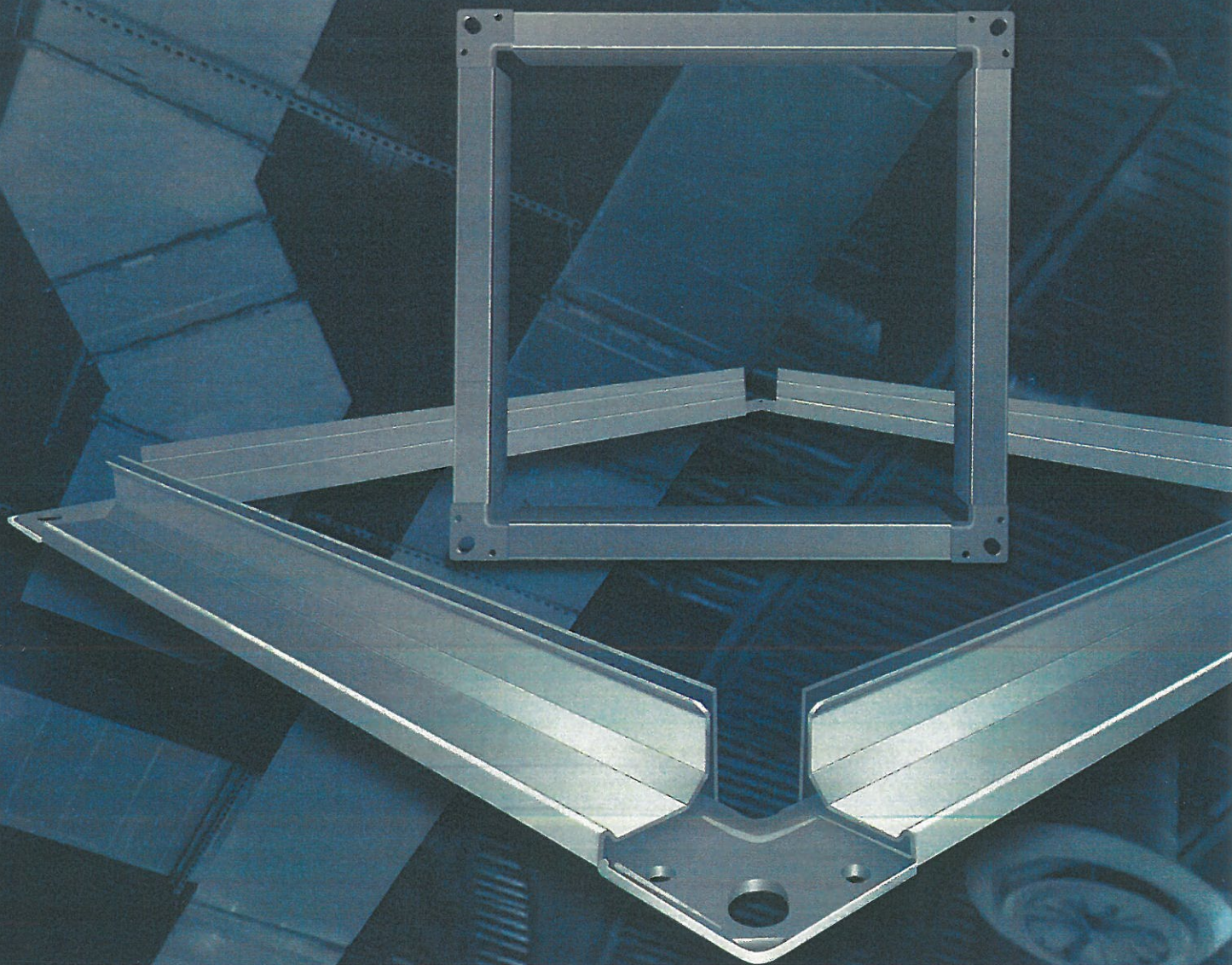
Hospitals:

- Al-Rahba Hospital
- Al-Zahra Hospital
- New Psychiatric Hospital Muscat
- Salalah Hospital
- Jalila Hospital
- Mafraq Hospital



CLAW

DUCT FLANGE SYSTEM



SEAGULL

Leaders in HVAC

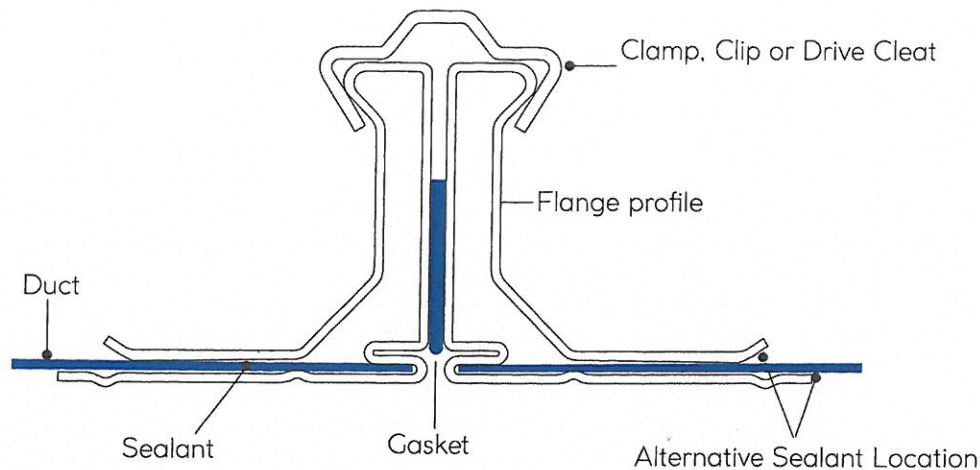


CLAW Flange System

Prime quality CLAW flanges are produced by state of the art high precision machines from galvanized iron sheets conforming to all major HVAC construction standards followed internationally.

Nontoxic integral sealant is injected in the flange during the manufacturing process which works as a barrier against air leakage.

Right choice of material thickness provides strength and prevents deflection of duct.



Typical Cross Section through the Profile

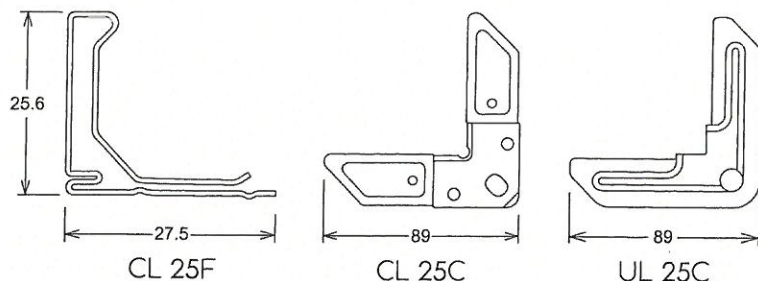
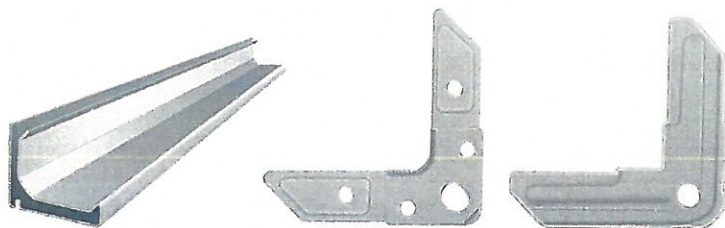
Features & Benefits

- Rapid assembly of cross joints.
- Fully conforms to UK, HVAC specification DW 144.
- Meets the requirements of EN 1507 and BSRIA standards for strength and leakage.
- Suitable for HVAC specification joint ratings up to J4 and pressure classes A, B and C.
- Z275 gms coating to steel.
- Permanently flexible non - toxic sealant injected into the profile during manufacture.
- Choice of material type and gauge to suit specification and requirements.
- Available in standard sizes of 25 mm and 35 mm with full range of accessories.
- Available in stainless steel and aluminum material upon on request.

J Ratings

| | | |
|-------------|---------------------------------|----|
| 25mm flange | 0.65mm thick | J2 |
| 35mm flange | 0.75mm thick | J3 |
| 35mm flange | 0.75mm thick (with tie rods) | J4 |

Product Details



Flange Profiles

Packaging Details

CL 25F 300m Bundle

CL 35F 300m Bundle

5000mm standard length 3000mm to order.

Corner Pieces

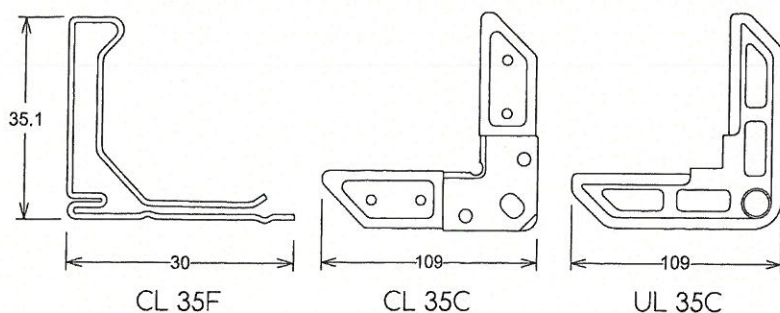
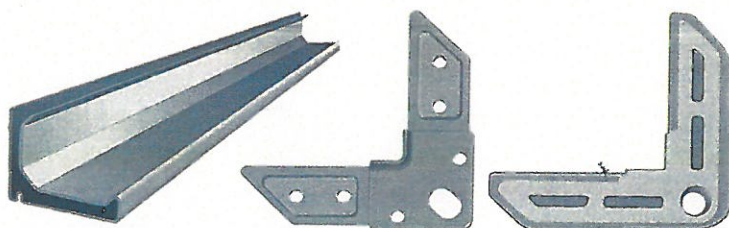
Packaging Details

CL 25C Boxes of 200 pieces

UL 25C Boxes of 200 pieces

CL 35C Boxes of 125 pieces

UL 35C Boxes of 125 pieces



Clamp / Clip / Cleat

Packaging Details

Clamps CL GC Boxes of 100 pieces

Clips CL 25CL Boxes of 200 pieces

Drive Cleats CL 25CT Bundles of 500m

2000mm standard length



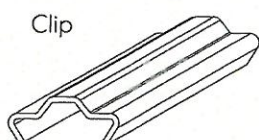
Drive Cleat

Clip

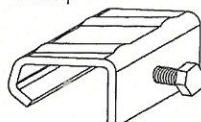
Clamp



CL 25CT



CL 25CL



CL GC

Gaskets

A cross linked medium density PVC closed cell foam combined with a high grab sensitive adhesive to give good all round sealing properties. Temperature range - 40 degree C to +70 degree C. We recommend the use of the appropriate gasket to avoid air leakage through joints.

| Width | Thickness | Packing Details |
|-------|-----------|--------------------|
| 9 mm | 4.5 mm | carton of 55 rolls |
| 12mm | 4.5 mm | carton of 40 rolls |
| 15mm | 4.5 mm | carton of 20 rolls |

Seagull Product Range

- G.I. Rectangular ductwork to low, medium and high pressure classes
- Spirally wound circular ductwork to low, medium and high pressure classes
- Black steel rectangular ductwork
- Stainless steel rectangular ductwork
- Aluminium rectangular ductwork
- Fire rated ventilation ductwork system
- Rectangular sound attenuators
- Fire rated sound attenuators
- Circular sound attenuators
- Low noise VAV terminal units
- Acoustic doors
- Acoustic louvres
- Acoustic design services
- Industrial Acoustic panels
- Architectural Acoustic panels
- Decorative Acoustic panels
- Acoustic enclosures
- Slip on duct flanges and related accessories
- Turning vanes and tracks
- Duct access doors
- Volume control dampers
- Non return dampers
- Washable aluminium filters and frames
- Flexible ducts

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www.seagull.ae



BEST FLEX®





CLAW
DUCT FLANGE SYSTEM

TESTED & CERTIFIED BY



REPORT NO: 59739/1



SEAGULL
Leaders in HVAC

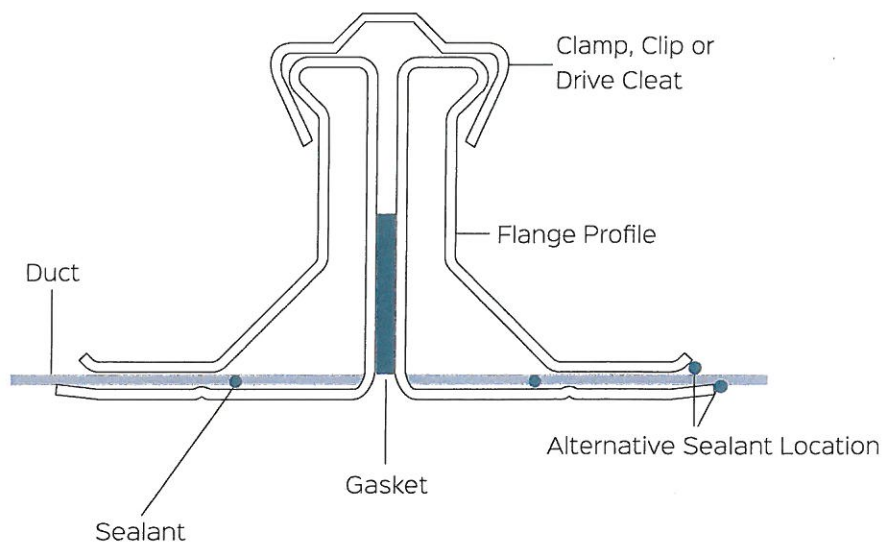


CLAW Flange System

Prime quality CLAW flanges are produced by state of the art high precision machines from galvanized iron sheets conforming to all major HVAC constructional standards followed internationally.

Nontoxic integral sealant is injected in the flange during the manufacturing process which works as a barrier against air leakage.

Right choice of material thickness provides strength and prevents deflection of duct.



Typical Cross Section through the Profile

Features & Benefits

- Tested & certified by **BSRIA** (Report no: 59739/1) to DW/144 J- rated flange identification system for leakage and deflection utilizing the methods of EN-1507-2006 for pressure classes A, B & C
- Fully complies to UK, HVAC specification DW 144
- Suitable for joint ratings up to J5 and pressure classes A, B and C
- Z275 gms coating to steel
- Produced from roll formed sheet metal
- Meets the requirements of EN 1507 and BSRIA standards for strength and leakage
- Non-toxic sealant injected into the profile during manufacture
- Choice of material type and gauges to suit specifications and requirements
- Available in standard sizes of 20mm, 30mm & 40mm with full range of accessories to suit all sizes of ducting
- Rapid assembly of cross joints

J Ratings

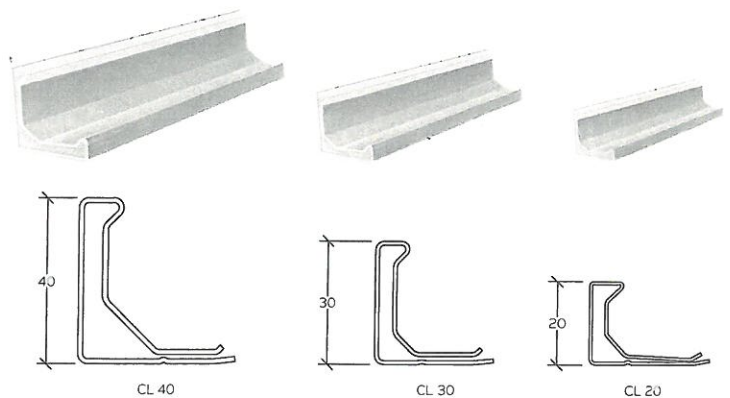
| | | |
|-------------|--------------------------------|----|
| 20mm flange | 0.7mm thick | J2 |
| 30mm flange | 0.8mm thick | J3 |
| 40mm flange | 1.0mm thick | J4 |
| 40mm flange | 1.2mm thick | J5 |
| 40mm flange | 1.2mm thick (with tie rods) | J6 |

Product Details

Flange Profiles

Packing Details

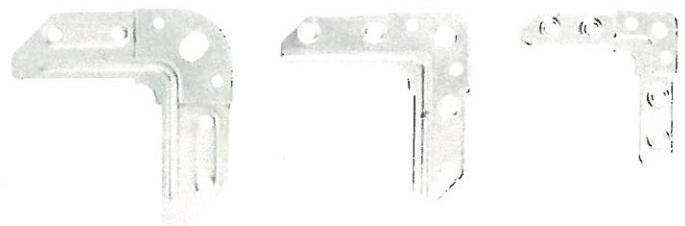
| | |
|---|-------------|
| CL20 | 500m bundle |
| CL30 | 300m bundle |
| CL40 | 250m bundle |
| CL40 | 200m bundle |
| 5000mm standard length 3000mm to order. | |



Corner Pieces

Packing Details

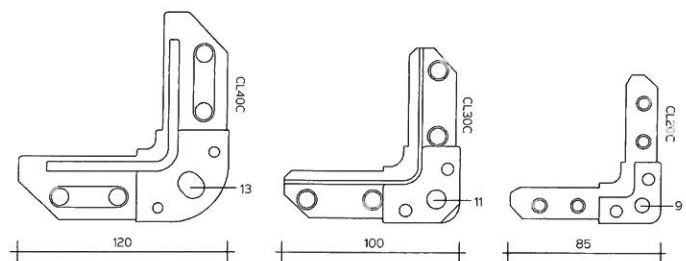
| | |
|-------|---------------------|
| CL20C | Boxes of 250 pieces |
| CL30C | Boxes of 125 pieces |
| CL40C | Boxes of 50 pieces |



Clamp / Clip / Cleat

Packing Details

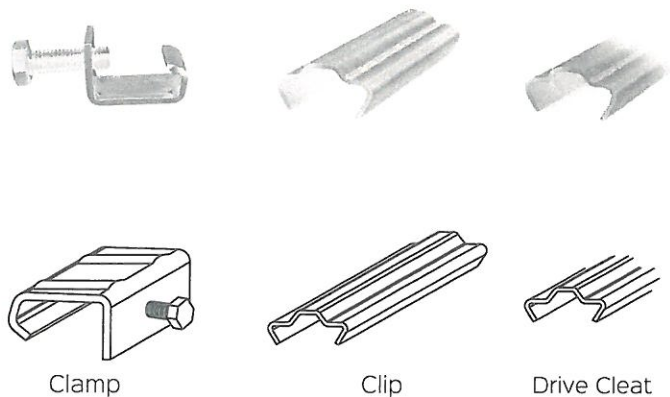
| | |
|-------------|---------------------|
| Clamp | boxes of 100 pieces |
| Clip | boxes of 200 pieces |
| Drive Cleat | bundles of 500m |



Gaskets

A cross linked medium density PVC closed cell foam combined with a high garb sensitive adhesive to give good all round sealing properties. Temperature range from - 40 degree C to +70 Degree C. We recommend the use of the appropriate gasket to avoid air leakage through joints.

| Width | Thickness | Packing details |
|-------|-----------|--------------------|
| 9 mm | 4.5 mm | Carton of 55 Rolls |
| 12 mm | 4.5 mm | Carton of 40 Rolls |
| 15 mm | 4.5 mm | Carton of 20 Rolls |



Seagull Product Range

- G.I. Rectangular ductwork to low, medium and high pressure classes
- Spirally wound circular ductwork to low, medium and high pressure classes
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- Aluminium rectangular ductwork
- Rectangular sound attenuators
- Circular sound attenuators
- Low noise VAV terminal units
- Acoustic doors
- Acoustic louvres
- Acoustic design services
- Industrial Acoustic panels
- Architectural Acoustic panels
- Decorative Acoustic panels
- Acoustic enclosures
- Fire rated ventilation ductwork system
- Fire rated sound attenuators
- Slip on duct flanges and related accessories
- Turning vanes and tracks
- Duct access doors
- Volume control dampers
- Washable aluminium filters and frames
- Flexible ducts

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FIRESAFE

FIRE RATED DUCTWORK



Performance Criteria

The Building Regulations Approved Document B (Volume 2) gives detailed guidance on fire safety. This document sets out time periods for stability, integrity and insulation for various compartment walls and floors in a building.

Ducts which penetrate compartment walls and floors must achieve the same fire resistance as the compartments through which they have passed.

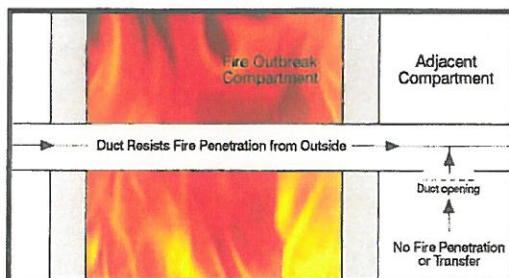
| | |
|-------------------|---|
| STABILITY | The ability of a duct and the support system to remain intact and fulfil their intended function for a specified period of time. |
| INTEGRITY | The ability of a duct to remain free from cracks, holes or openings outside the compartment in which the fire is present for a specified period of time. |
| INSULATION | <p>The ability of a duct to maintain its separate function without developing temperature on its external surface, outside the compartment in which the fire is present, which exceed:</p> <ul style="list-style-type: none">i) 140°C as an average above ambient and/orii) 180°C as a maximum above ambient at any one point <p>For kitchen extract ductwork (Duct A) these limitations also apply to the internal surface of the duct within the compartment in which the fire is present.</p> |

Smoke Extract systems must retain at least 75% of its cross sectional area when tested to BS476 Part 24.

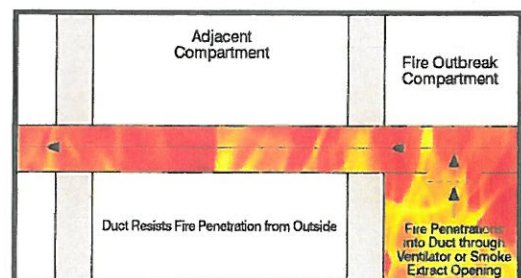
The design of fire resistant ductwork of all types is described in BS5588 Part 9 & BS9999 (Various Sections)

BS476 Part 24 describes the method for testing ductwork to establish time periods for stability, integrity and insulation. The testing covers the types of fire exposure, Duct A (Fire Outside) and Duct B (Fire Inside and Outside).

Duct A (Fire outside)

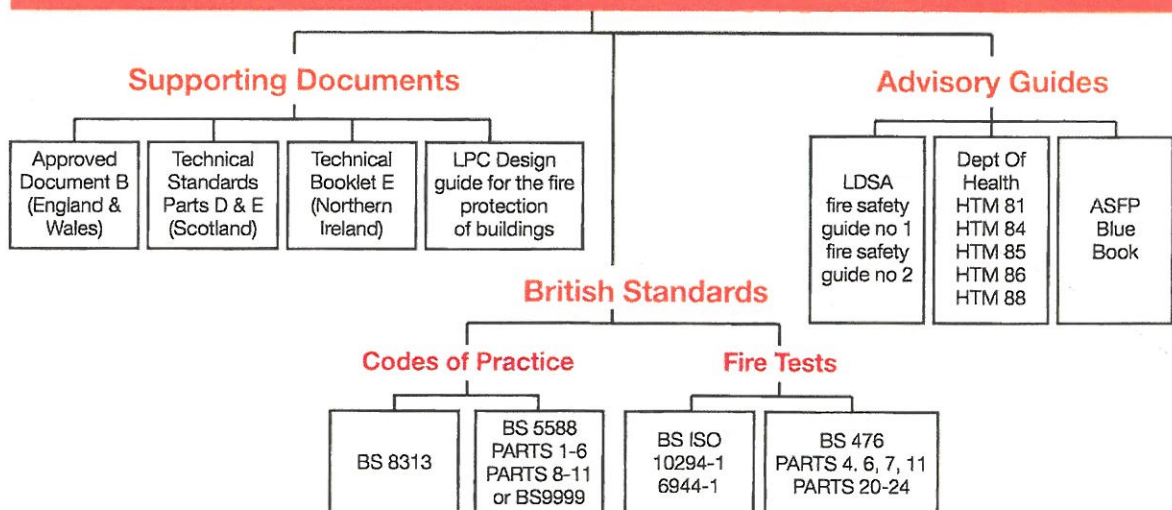


Duct B (Fire inside)



Regulation and Codes

Statutory Instruments, Building Regulations, Insurance Requirements





Leaders in Fire Rated Ductwork

Firesafe are specialists in fire rated ductwork systems.

The product **Caswell Firesafe** was developed in the early 2000's. It was tested and assessed in accordance with the British Standard 476 Pt 24: 1987 by Warrington Fire.

Firesafe work closely with their International Partners who manufacture, supply and install systems under licence. **Caswell Firesafe** has been successfully installed in many commercial properties worldwide including - United Kingdom, Eire, United Arab Emirates, Hong Kong, Macau, Qatar and Oman.

Research and development of the product is a constant process, which is critical to the future success of the business. **Firesafe** will continue to support its existing Partners whilst developing new Partners in other areas of the world where there are demands for high quality British designed and developed products.



Applications

BS 5588 Part 9 and BS9999 PT33.4.3 suggests three methods of maintaining fire separation where ductwork passes through compartment walls or floors.

- Method 1 Protection using fire dampers
- Method 2 Protection using fire resisting enclosures
- Method 3 Protection using fire resisting ductwork

Good practice dictates that fire dampers should not be installed in the following systems and therefore fire resisting ductwork is used.

- Smoke extraction systems**
- Dual ventilation/smoke extraction systems**
- Pressurisation systems**
- Car park extraction systems**
- Kitchen extraction systems**

*Motorised fire/smoke dampers may be used in conjunction with fire resisting ductwork but not in kitchen extract systems.

Fire resisting ductwork may prove to be a cost effective alternative to fire dampers in general ductwork systems (particularly over the life time of a building).

- No capital/installation cost of fire/smoke dampers and associated access doors.
- No reliance on mechanical fire dampers which may fail in time.
- No regular testing regime.
- No electrical wiring and control system associated with smoke dampers.





Technical Information

Caswell Firesafe fire rated ductwork is manufactured from pre-galvanised sheet steel, mild steel and stainless steel to the exacting standards set by Firesafe Fire Rated Ductwork Limited.

Caswell Firesafe fire rated ductwork has been tested and assessed by Exova Warrington Fire and satisfies BS476 Part 24: 1987, achieving the following fire resistance.

Duct Type A (Fire Outside) & Duct Type B (Fire Inside)

Stability 240 mins

Integrity 240 mins

Insulation 120 mins (60 mins on kitchen extract)

Insulated Systems

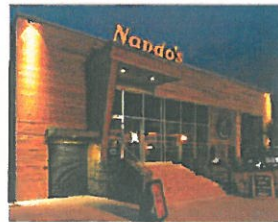
Insulation is specified where there is a risk of a fire being ignited due to radiant heat for example:

A fire starts in a compartment which ignites combustible materials inside a duct (i.e. grease/fat in kitchen extract ducts) that could then travel to another compartment. **OR**

A fire inside a duct travels down the duct to another compartment where there are combustible materials in close proximity that could be ignited by the radiant heat from the duct surface.

Full range of accessories available:

- Supports, access doors, attenuators and volume control dampers to maintain fire resistance throughout the whole system.
- Rectangular and circular ductwork constructions available.
- Bespoke situations can be accommodated (subject to project specific assessment).



Product Features

NON COATED Steel Ductwork Product

Quick Turnaround

No touch up of intumescent finishes necessary

Flexibility – all shapes and sizes and configurations

Cost effective

Product Characteristics as B&ES DW 144 Ductwork

Air flow resistance

Air leakages

Smooth internal surfaces for cleaning

Easy to handle and install

Manufactured from either galvanised steel, mild steel (welded) or Stainless Steel specifications

Recyclable/Sustainable product

Minimal maintenance

Cost effective alternative to the use of fire/smoke dampers particularly when considering life cycle costs.



Standard Specification

In order to ensure **Caswell Firesafe** fire rated ductwork is correctly specified several factors should be carefully considered.

1. Define the type of system - Smoke extract, car park extract, kitchen extract, pressurisation, general ventilation, dual ventilation/smoke extraction system.
2. State the fire rating to BS476 Part 24: 1987 in minutes for:
(i) Stability (ii) Integrity (iii) Insulation
3. Define the operating pressure limits of the ductwork as defined by HVCA specification DW144.
Low (Class A up to 500pa positive or 500pa negative)
Medium (Class B up to 1000pa positive or 750pa negative)
High (Class C up to 2000pa positive or 750pa negative)
High (Class D up to 2000Pa positive or 750Pa negative)
4. Define the requirements for access doors requirement for maintenance and cleaning as defined by HVCA specification DW144 and TR19.

Pro-Forma Specification

The(1)..... ductwork should be Firesafe fire rated duct as manufactured and installed to comply with BS476 Part 24 (1987) for(2)..... mins stability(2)..... mins integrity and(2)..... mins insulation.

The ductwork should conform to(3)..... pressure classification of the current HVCA DW144 specification.

Access doors for maintenance and cleaning should conform to HVCA DW144 table 25(4).....



Certificate of Conformity

When specifying **Caswell Firesafe** fire rated ductwork you can be assured that every process from design to installation will be expertly project managed.

It is essential that the whole system is considered including, ductwork, fittings, supports, access doors, attenuators etc.

Upon completion of the installation a certificate of conformity can be issued to confirm that the system has been manufactured and installed correctly. This will be issued to the requiring authority.

This document underlines our commitments to provide fully compliant Fire Resisting Ductwork systems.



International Projects



Arndale Centre, Manchester
United Kingdom



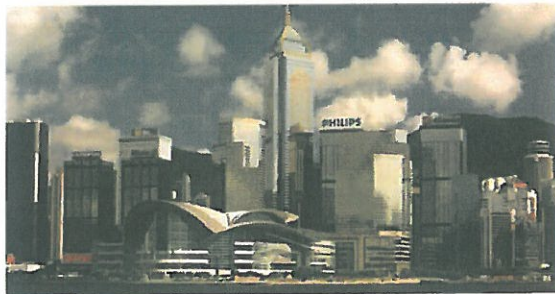
Eircom HQ, Dublin
Eire



Abu Dhabi Airport
UAE



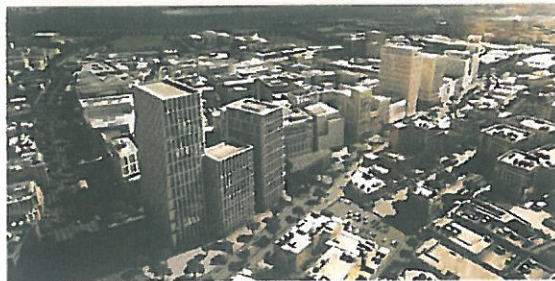
U Bora Tower, Dubai
UAE



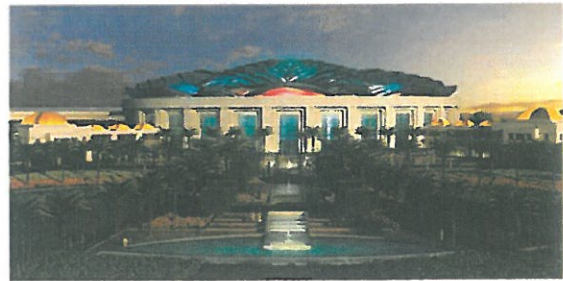
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Knowsley Road Industrial Estate, Haslingden, Rossendale, Lancashire BB4 4RR
t: + 44 (0) 1706 227 935 f: + 44 (0) 1706 210 282
e: enquiries@firesafeductwork.co.uk www.firesafeductwork.co.uk



Local Licensee/Partner

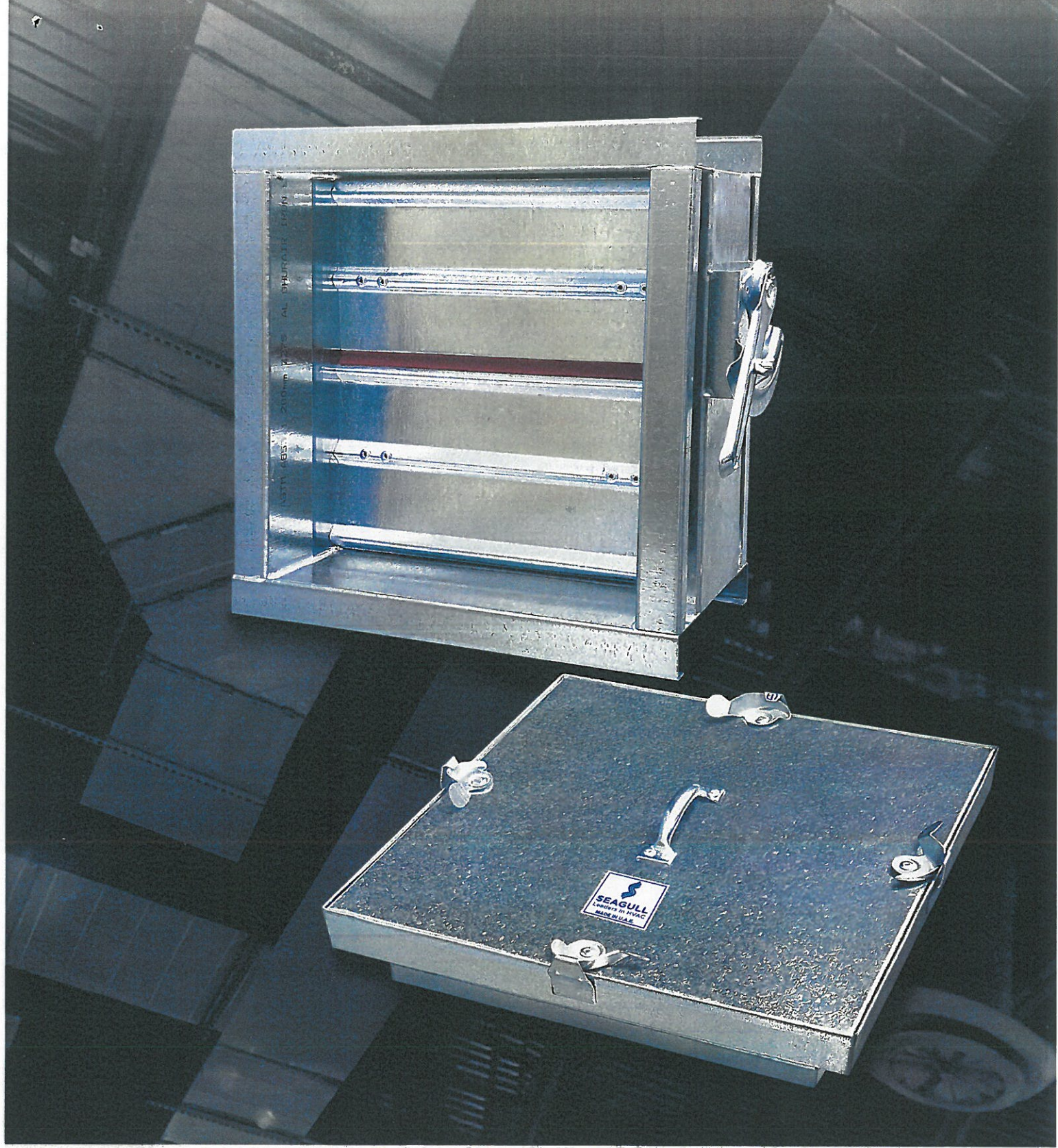
SEAGULL (HVAC) INDUSTRY LLC

Tel: +971 4 3470047

Fax: +971 4 3470824

P.O. Box: 27743

Email: contact@seagull.ae



SEAGULL
Leaders in HVAC



Our Company

For over 20 years Seagull has been manufacturing ductwork and components for the HVAC industry in the GCC.

The company's objective is to provide clients with a comprehensive range of quality products and services at competitive prices.

Today Seagull has production facilities and trading offices in the UAE, Oman and Qatar.

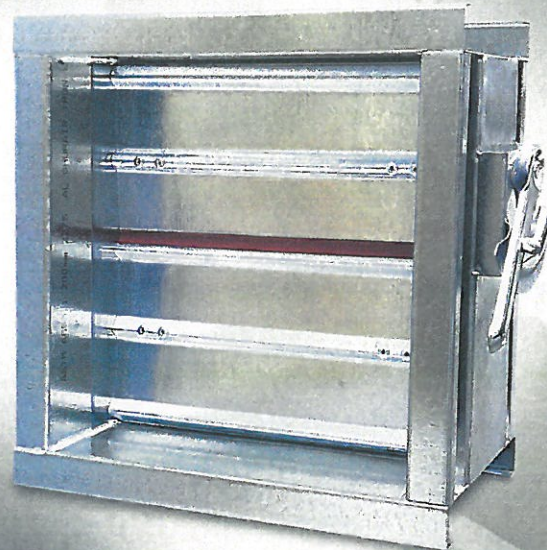
Volume Control Dampers

Seagull produces high quality volume control dampers according to international standards meeting the requirement of SMACNA and DW144.

Volume Control Dampers are produced in various sizes for low, medium and high pressure classes.

Volume Control Dampers are available in parallel and opposed blade action in single skin and double skin aerofoil blade constructions.

Standard volume control damper are available in galvanized iron construction but can be produced in mild steel, stainless steel and aluminum construction as per the requirements.



Access Doors

Seagull Access Doors enable access into ducts for various purposes without compromising safety and ventilation.

Seagull produces high quality access doors as per international standards and specifications meeting the requirements of SMACNA and DW144.

Access doors are available in various sizes to suit low, medium and high pressure classes. Standard access doors are available in galvanized iron construction but can be produced in mild steel, stainless steel and aluminum construction as per the requirements.

Spirally Wound Circular Duct and Fittings

Seagull is the primary company that started the local production of spirally wound circular ductwork and fittings for the HVAC industry in the UAE.

The circular ductwork and fittings are produced from galvanized iron in various sizes starting from 100 mm diameter in pre-determined lengths for all pressure classes.

All products ranging from straight pipes to elbows, reducers, offset & end caps are produced accurately and efficiently using specialized CNC machinery.



Slide on Duct Flange System

Tested and certified by BSRIA to DW 144 J rated flange identification system for leakage and deflection utilizing the methods of EN -1507-2006 for low, medium and high pressure classes.

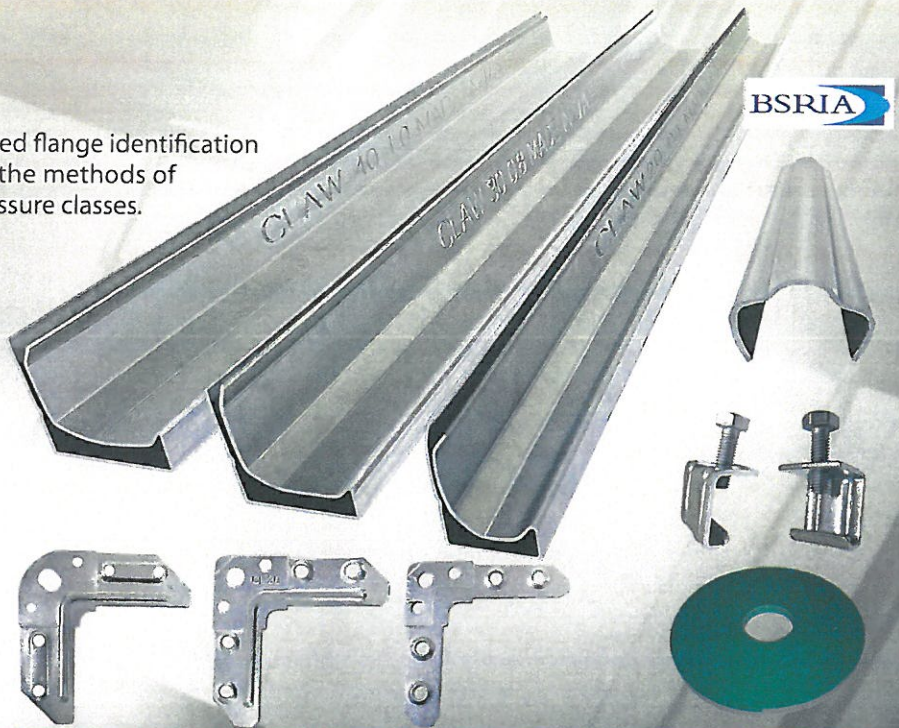
Suitable for joint ratings up to J6 for all pressure classes.

Fully complies with DW 144 and SMACNA.

Produced from roll formed sheet metal, Zinc coating of G 90/Z 27 (275 grams per square meter) for added corrosion protection.

Permanently flexible nontoxic, nondrying sealant is injected into the profile during manufacturing process.

Available in standard sizes of 20 mm, 30 mm and 40 mm with full range of accessories to suit all sizes of ducting.



Turning Vanes and Tracks

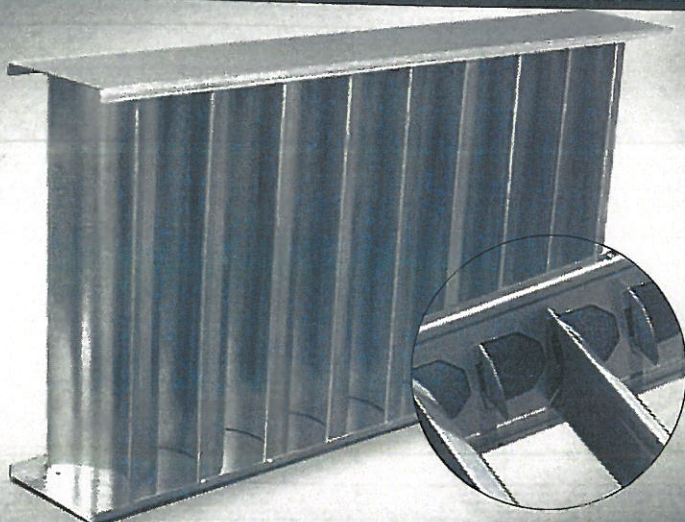
Designed to redirect the air through elbows and tees in the ductwork without significant loss of air pressure.

Vane tracking has self-aligning tabs for easy vane installation, Zinc coating of G 90, Z 27 (275 grams per square meter) for added corrosion protection.

Bends shall be fitted with vanes, maximum 60 mm space between the vanes. Vanes with inner radius of 50 mm.

VANES Model No. CLVA – Standard Length: 3.00 meter

TRACK Model No. CLTR – Standard Length: 2.44 meter



Variable Air Volume (VAV)

VAV Type:

- **Bypass VAV** (Only sufficient amount of air will be supplied to the occupied space and excess supply air will be bypassed).
- **Pressure Independent VAV** (designed to control the volume of air entering into occupied without being affected by pressure variation in the duct).

BYPASS VAV

Casing: High quality galvanized steel sheet of thickness minimum 0.8 mm.

Bypass Balancing Damper: 0.8 mm thick field adjustable balancing damper on the bypass outlet.

Actuator: 0-10 V, modulating actuator.

Acoustic Media: Interior surface of the unit is acoustically and thermally insulated with 24 kg/m³ density and ½" thick fiberglass insulation.

Transformer: Step down transformer, 240-24 V.

Thermostat: 0-10 V, Analog or Digital.

PRESSURE INDEPENDENT VAV

Casing: High quality galvanized steel sheet of thickness 0.8 mm.

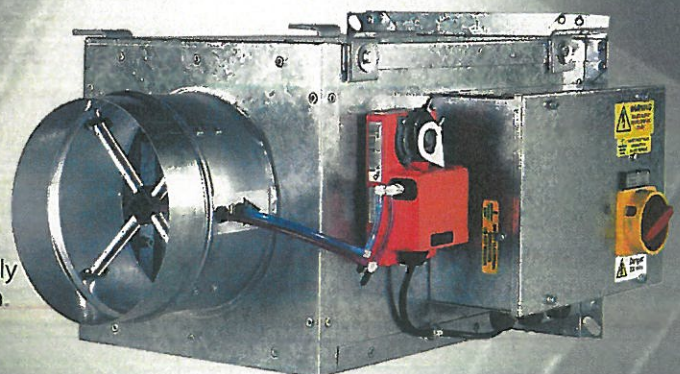
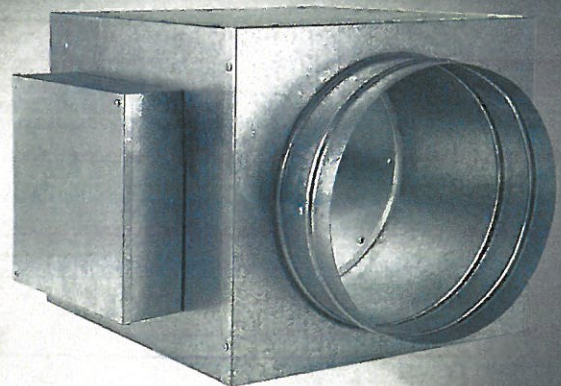
Airflow Sensor: Multipoint differential pressure flow grid.

Actuator: 0-10 V, modulating actuator.

Acoustic Media: Interior surface of the unit is acoustically and thermally insulated with 24 kg/m³ density and ½" thick fiberglass insulation.

Transformer: Step down transformer, 240 to 24 V.

Thermostat: 0-10 V, Analog or Digital.



Seagull Product Range

- G.I. Rectangular ductwork to low, medium and high pressure classes
- Spirally wound circular ductwork to low, medium and high pressure classes
- Black steel rectangular ductwork
- Stainless steel rectangular ductwork
- Aluminium rectangular ductwork
- Fire rated ventilation ductwork system
- Rectangular sound attenuators
- Fire rated sound attenuators
- Circular sound attenuators
- Low noise VAV terminal units
- Acoustic doors
- Acoustic louvres
- Acoustic design services
- Industrial Acoustic panels
- Architectural Acoustic panels
- Decorative Acoustic panels
- Acoustic enclosures
- Slip on duct flanges and related accessories
- Turning vanes and tracks
- Duct access doors
- Volume control dampers
- Non return dampers
- Washable aluminium filters and frames
- Flexible ducts

Dubai Office:

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Universal Seagull Safety & Fire Equipment L.L.C
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Oman Office:

The White Seagull For Trading LLC
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E-mail: sales.oman@seagull.ae

Sharjah Office:

Universal Seagull Safety & Fire Equipment L.L.C
Sharjah - UAE
E-mail: contact@seagull.ae

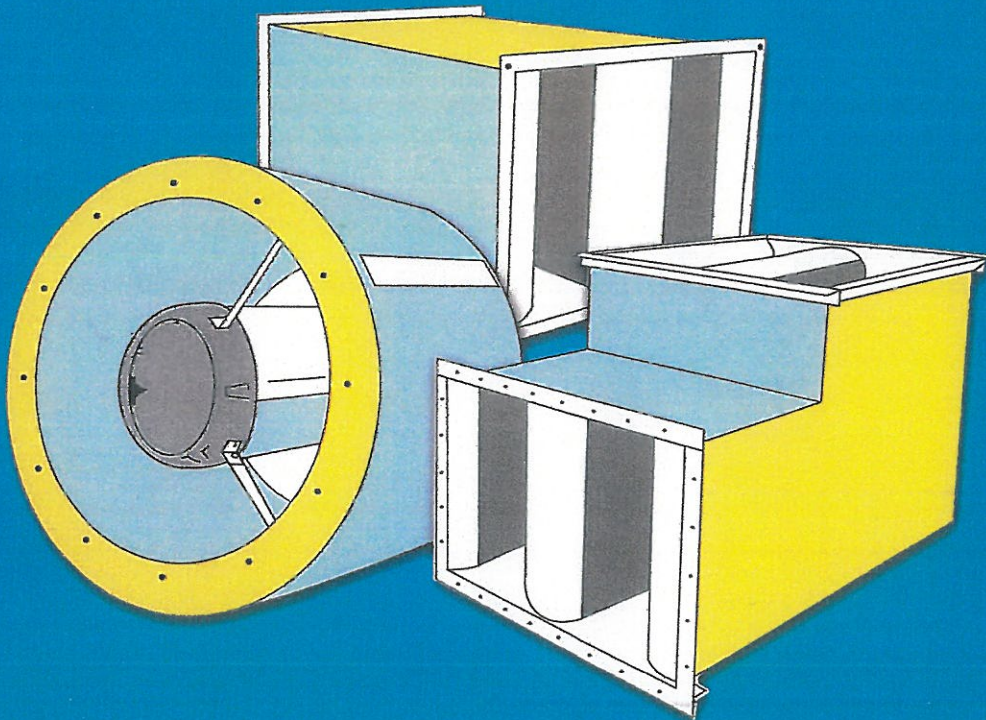
www.seagull.ae



BEST FLEX®



SOUND ATTENUATORS



SEAGULL (HVAC) INDUSTRY LLC

INTRODUCTION

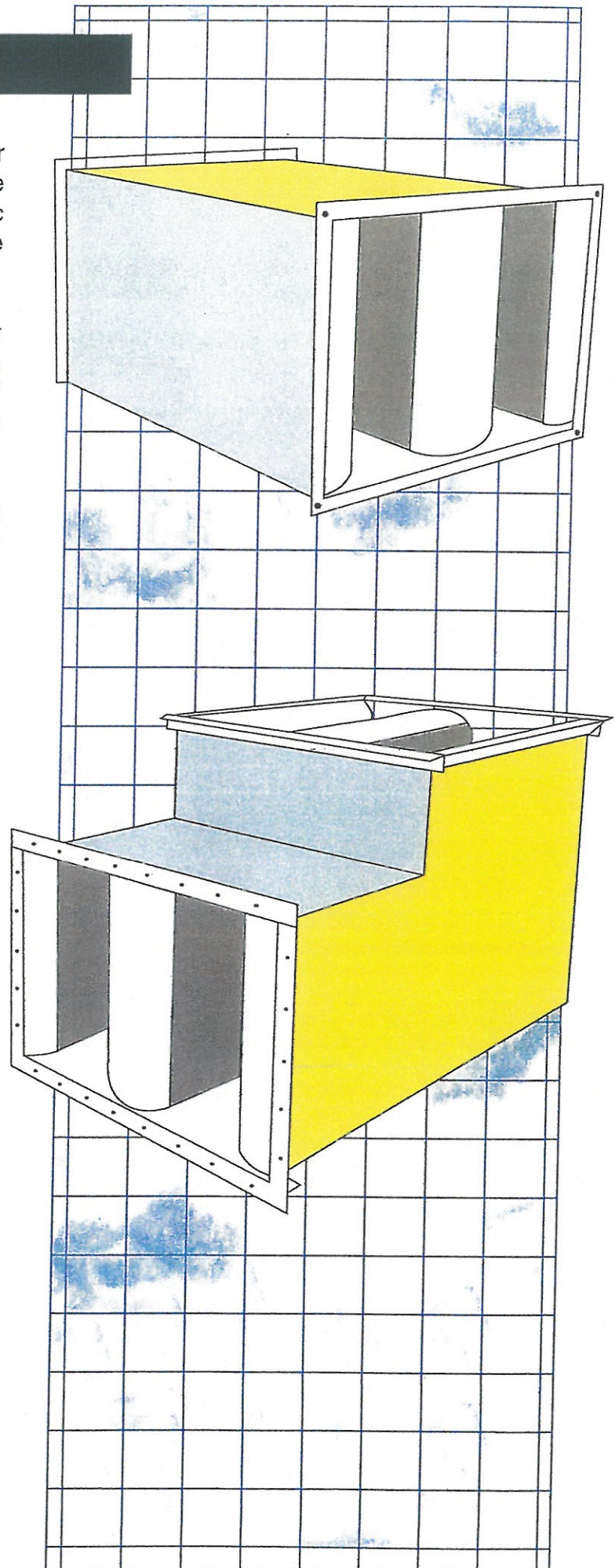
The comprehensive Seagull range of silencer products has been designed to address the widest possible spectrum of acoustic problems that are encountered by the Building Services Industry.

From the standard "RS" series rectangular "XT" series crosstalk and the "CS" series cylindrical, to the more specialised "BS" series 90° bend, all share the same key design advantages:

- Perforated, galvanised sheet metal facing to the acoustic infill is universally used. This protects the acoustic infill from mechanical damage whilst silencers are handled on site prior to installation.
- Built to current HVAC DW144 "High Velocity" specification with Class "C" silencer casing leakage attainment. Class "D" specification units are available if required.
- "Bullnose" aerodynamic leading and trailing edge fairings fitted as standard ensure superb pressure loss performance.

Multiple fixing flange options are offered, including pre-drilled RSA, prefabricated angle, spigot ends and various proprietary slide-on flanges.

- The acoustic infill used has a 32-48 kg/m³ density and has a Class 1 Spread of Flame in accordance with BS476. The material is rot proof, non-combustible, non-hygroscopic, and does not support bacteriological growth. The media is tissue faced and is guaranteed against fibre erosion up to velocities of 30m/s.



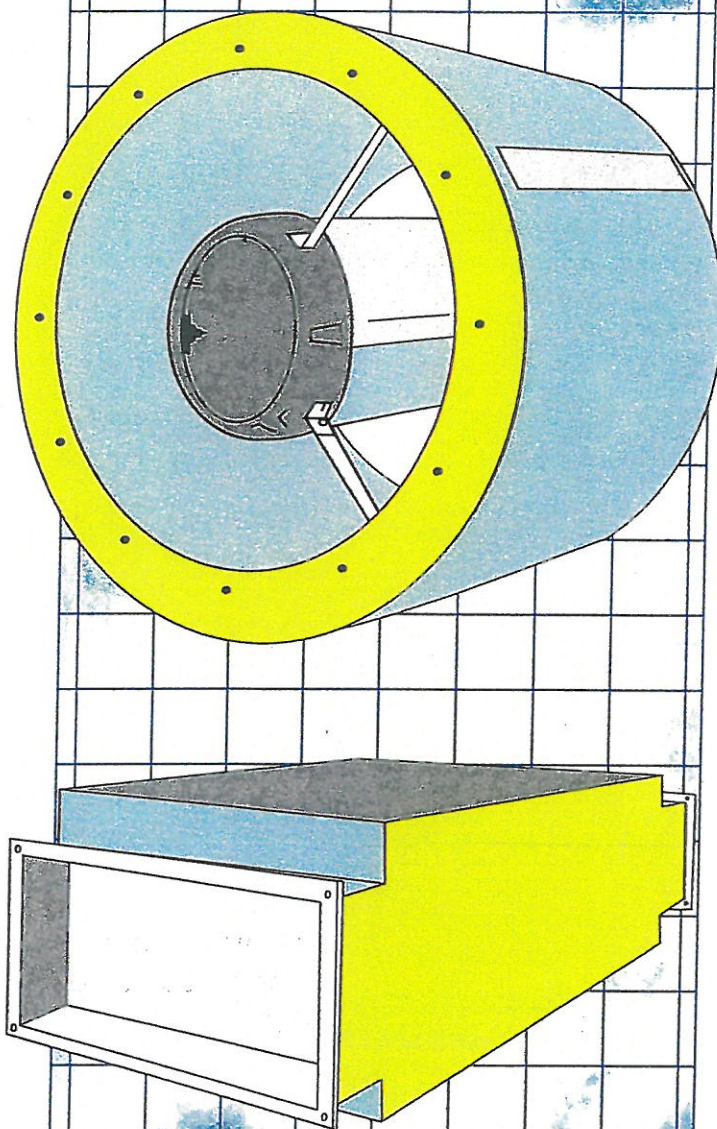
SPECIAL APPLICATIONS

In addition to our standard range we offer a wide choice of options to suit specialised applications:

- Galvanised after manufacture perforated sheet. These silencers are well suited to saturated/moisture laden air handling applications, due to their increased resistance to corrosion. Suffix (SAT) to silencer code.
- Epoxy paint finish to silencer. This is applied to either the inside and/or the outside surfaces to provide corrosion resistance to free chlorine gas. Used frequently in swimming pool areas and adjacent changing rooms. Suffix (EPX) to silencer code.

Crosstalk Silencers

Crosstalk silencers are typically used where multiple sensitive areas are being served by a single branch of duct. They prevent the unimpeded transmission of unwanted secondary noise (such as speech, music etc.) from one room to another via an otherwise acoustically weak ductwork link. Our crosstalk silencers are available in numerous formats as rectangular and circular cross sections, with both flanged and spigotted ends.



RECTANGULAR SILENCERS

There are many standard rectangular silencer configurations available, but for the purposes of quick unit selection we have detailed the acoustic performances of the three most frequently used types; CP, ETP and GTP.

QUICK SELECTION GUIDE

As a guide to obtain an approximate silencer selection to assist in plantroom layouts, simply follow these easy steps:

- Select an appropriate silencer TYPE by using Table 1. Note that for each silencer code given the figure refers to the number of 300mm length modules required, ie.

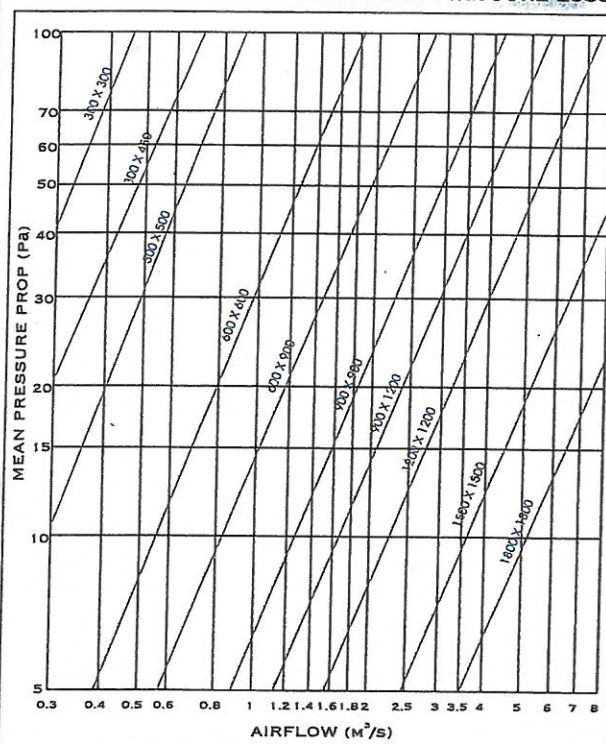
RS-4GTP = (4 x 300mm) = 1200mm long
RS-2CP = (2 x 300mm) = 600mm long

- Depending upon the type selected, refer to Graphs 1, 2 or 3 to determine the required silencer cross section dimensions - intermediate sizes can be interpolated where necessary.

TABLE 1

| AREA TYPE | | REQUIRED NOISE RATING | | | |
|---------------------|--------|-----------------------|---------|---------|---------|
| | | NR 35 | NR 40 | NR 45 | NR 50 |
| OFFICE: | LARGE | RS-5ETP | RS-4ETP | - | - |
| | MEDIUM | RS-4ETP | RS-4ETP | - | - |
| | SMALL | RS-4GTP | RS-3ETP | - | - |
| BOARD ROOM: | LARGE | RS-5CP | - | - | - |
| | MEDIUM | RS-4CP | - | - | - |
| FACTORY: | LARGE | - | - | RS-4ETP | RS-3ETP |
| | MEDIUM | - | - | RS-3ETP | RS-3GTP |
| | SMALL | - | - | RS-3GTP | RS-2GTP |
| KITCHEN | LARGE | - | RS-4ETP | RS-3GTP | RS-2CP |
| | MEDIUM | - | RS-4GTP | RS-3GTP | RS-2GTP |
| THEatre | LARGE | RS-5ETP | - | - | - |
| | MEDIUM | RS-4CP | - | - | - |
| TOILET | | RS-4ETP | RS-3ETP | RS-3GTP | - |
| RESIDENTIAL | | RS-5CP | RS-4CP | - | - |
| NOISE TO ATMOSPHERE | | RS-4ETP | RS-3ETP | RS-3GTP | RS-2ETP |

GRAPH 1: MODEL CP SILENCER MEAN PRESSURE LOSS



NOTE: MEAN PRESSURE LOSSES GIVEN ARE IN-DUCT VALUES IN ACCORDANCE WITH BS4718:1971

RECTANGULAR SILENCERS

Example

Obtain an approximate silencer selection for a medium-sized office area of typical acoustic properties, requiring $1.6\text{m}^3/\text{s}$ air throughput, and NR35 noise criteria. The maximum permissible silencer pressure loss is 40Pa.

- Referring to Table 1, we find that for a medium sized office, and RS-4ETP silencer is recommended.
- Referring to Graph 2, we find that a silencer cross section of 900mm wide x 600mm high gives a pressure loss of 35Pa at an airflow of $1.6\text{m}^3/\text{s}$. This figure is very close to the 40Pa limit originally specified.

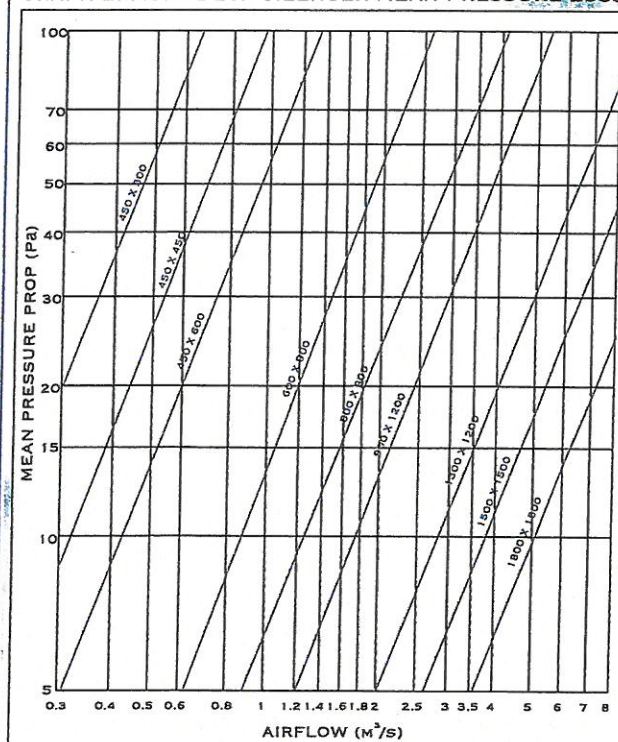
Hence, our final, approximate silencer selection is as follows in the instance.

- Type: RS-4ETP
Size: 1200mm long x 900mm wide x 600mm high.
Pressure Drop: 35Pa @ $1.6\text{m}^3/\text{s}$ airflow to BS4718:1971

Notes

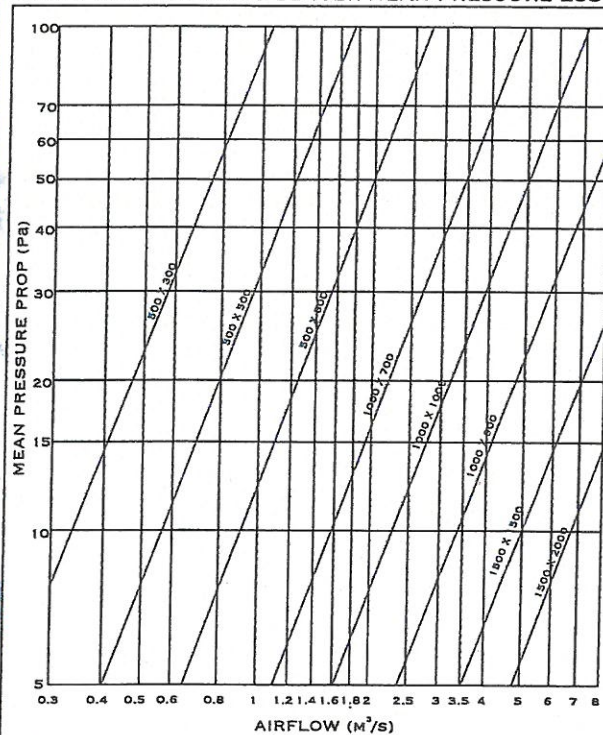
- All silencer selections which are obtained using the above table are APPROXIMATE ONLY, and must be verified by Seagull prior to ordering.
- The NR levels shown for "NOISE TO ATMOSPHERE" assume a typical measuring distance of 10 metres.

GRAPH 2: MODEL ETP SILENCER MEAN PRESSURE LOSS



NOTE: MEAN PRESSURE LOSSES GIVEN ARE IN-DUCT VALUES IN ACCORDANCE WITH BS4718:1971

GRAPH 3: MODEL GTP SILENCER MEAN PRESSURE LOSS



NOTE: MEAN PRESSURE LOSSES GIVEN ARE IN-DUCT VALUES IN ACCORDANCE WITH BS4718:1971

CYLINDRICAL SILENCERS

offer two types of cylindrical silencer; models "C" and "CP". The CP variant is fitted with a concentric acoustic pod to enhance acoustic performance.

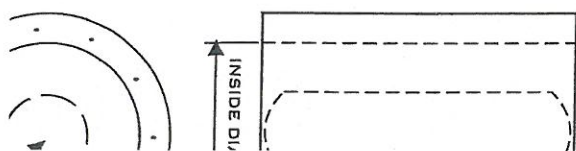
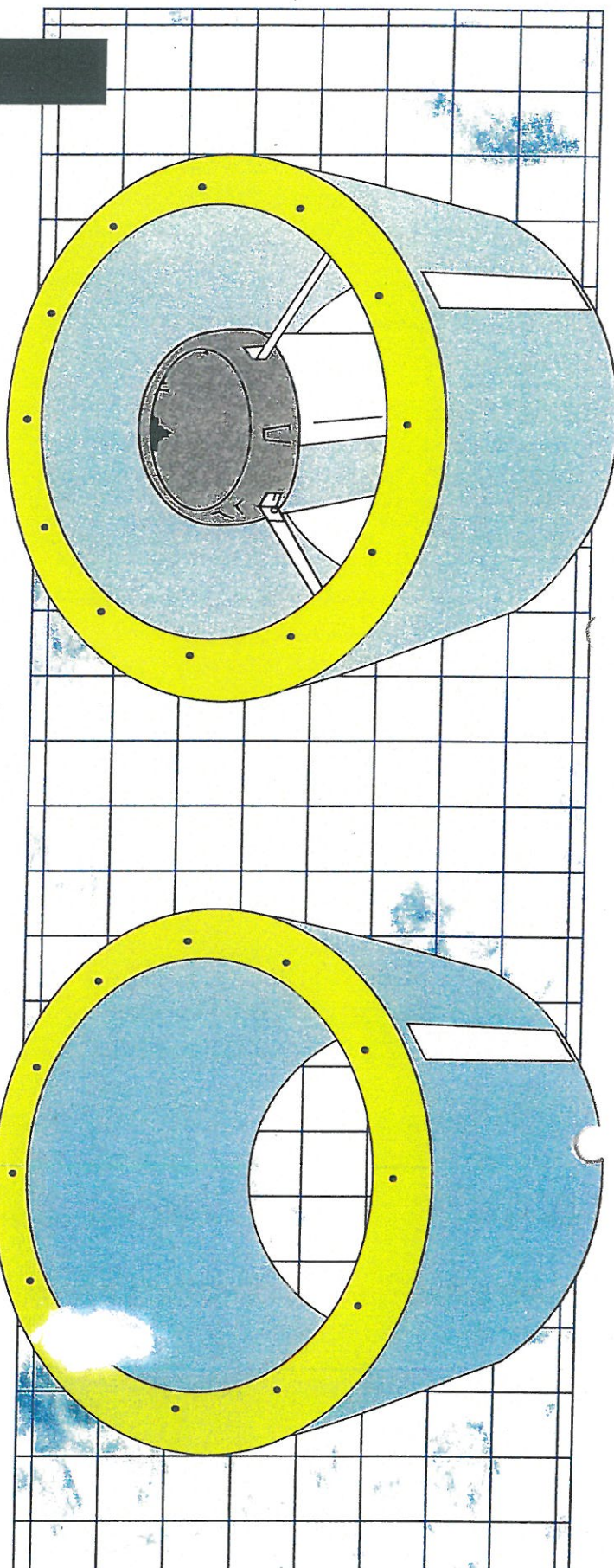
Silencers are available in both metric and imperial diameters. Model C units incur negligible pressure losses at practical duct air flow velocities. Tables 2 and 3 below give metric and imperial silencer dimensions.

TABLE 2

| DIAMETER MM | LENGTH: 1D MM | OUTSIDE DIAMETER MM |
|----------------|------------------|------------------------|
| 250 | 260 | 360 |
| 300 | 310 | 410 |
| 350 | 360 | 460 |
| 400 | 410 | 560 |
| 450 | 460 | 610 |
| 500 | 510 | 660 |
| 550 | 560 | 710 |
| 600 | 610 | 760 |
| 650 | 660 | 810 |
| 700 | 710 | 860 |
| 750 | 810 | 960 |
| 800 | 1010 | 1210 |
| 900 | 1210 | 1410 |
| 1000 | 1610 | 1810 |
| 1100 | 1810 | 2010 |

TABLE 3

| DIAMETER INCHES | LENGTH: 1D MM | OUTSIDE DIAMETER MM |
|--------------------|------------------|------------------------|
| 6 | 155 | 255 |
| 1/4 | 195 | 295 |
| 1/2 | 245 | 345 |
| 12 | 315 | 465 |
| 15 | 390 | 545 |
| 18 | 465 | 615 |
| 19 | 490 | 640 |
| 21 | 540 | 690 |
| 24 | 620 | 770 |
| 25 | 645 | 795 |
| 27 | 695 | 845 |
| 30 | 770 | 920 |
| 33 | 845 | 995 |
| 36 | 925 | 1125 |
| 38 | 975 | 1175 |
| 42 | 1075 | 1275 |
| 48 | 1230 | 1430 |
| 54 | 1380 | 1580 |
| 60 | 1535 | 1735 |
| 75 | 1915 | 2115 |
| 95 | 2420 | 2620 |



SAMPLE SPECIFICATION

RECTANGULAR SILENCER

The silencer casings shall be fabricated from high grade pre-galvanised steel sheet, utilising Pittsburgh lockseam and grooved seam joints as appropriate. Each joint shall be filled with high velocity duct sealant conforming to DW144 / SMACNA Specification, irrespective of the Leakage Class called for.

The silencer flanges shall be secured to the casing via mechanically closed, sealed blind rivets having a shear strength of 2260N/m, at maximum pitches of 225mm. Where rolled steel flanges are fitted, the silencers shall have the casing end returned over its face regardless of the specified, Leakage Class.

All silencers using proprietary flanges shall have additional sealant applied between corner pieces irrespective of the specified Leakage Class.

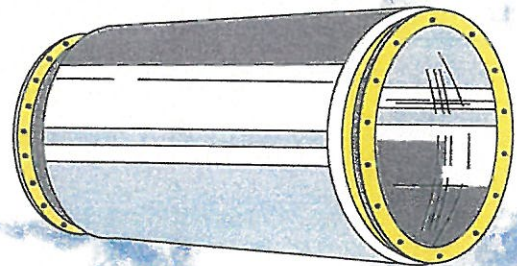
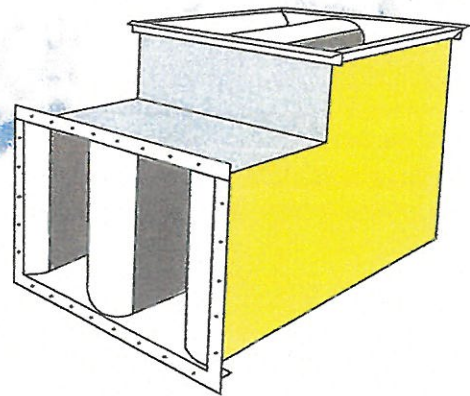
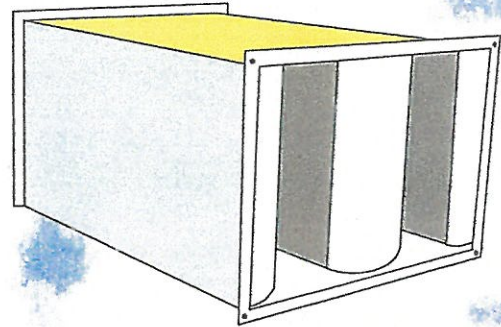
The silencers shall have internal sideliner and splitter elements which are constructed from high grade pre-galvanised perforated steel sheet, having a free area of not less than 37% which is formed into trays. These trays shall be linked together using pre-fabricated angles to form a self contained unit.

The acoustic media utilised shall be 32-48kg/m³ density mineral fibre, which shall be additionally faced with a woven glass fibre scrim to prevent fibre erosion into the airstream. The mineral fibre is completely inert, does not harbour bacteriological growth and has been tested in accordance with BS476 parts 4, 6 and 7.

All silencer sideliner and splitter elements shall be fitted with leading and trailing radiused fairings which are formed from high grade pre-galvanised steel. Splitter elements shall be secured into the silencer casing via two parallel rows of sealed rivets at a maximum pitch of 250mm.

High pressure sealant shall be universally applied to all joints between internal sideliner and splitter elements and the casing.

Specifications for crosstalks, and circular silencers, along with any enquires concerning specialised requirements can be obtained from our Sales Office.



OTHER PRODUCTS

RECTANGULAR SILENCERS

CYLINDRICAL SILENCERS

ACOUSTIC LOUVRES

ACOUSTIC LOUVRE DOORS

ACOUSTIC DOORS

ACOUSTIC DESIGN SERVICES

ACOUSTIC PANELS

SAND TRAP LOUVRES

EXHAUST LOUVRES

Full Technical Advisory Services is available from our regional Sales Office.

Seagull Attenuators have been tested to ASTM -E-477 Standard from an independent accredited laboratory INTERTEK, US;



SEAGULL (HVAC) INDUSTRY LLC

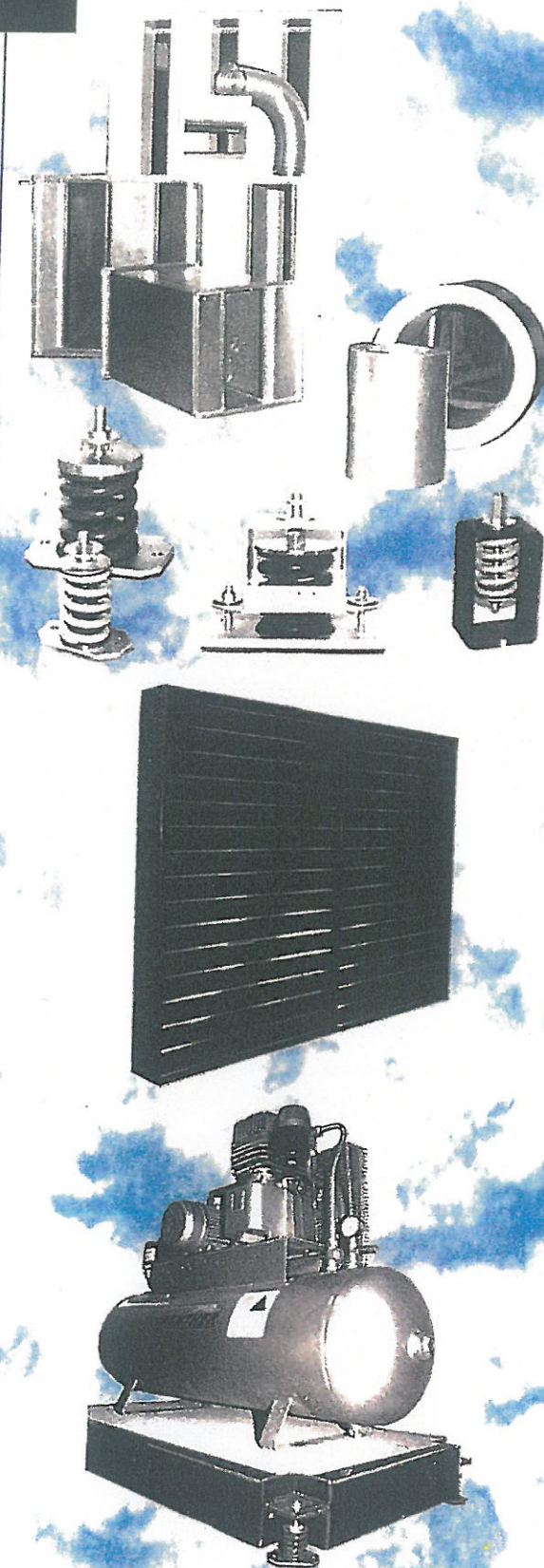
P.O. Box 27743 DUBAI UAE

Tel: +971 - 4 - 347 0047

Fax: +971 - 4 - 347 0824

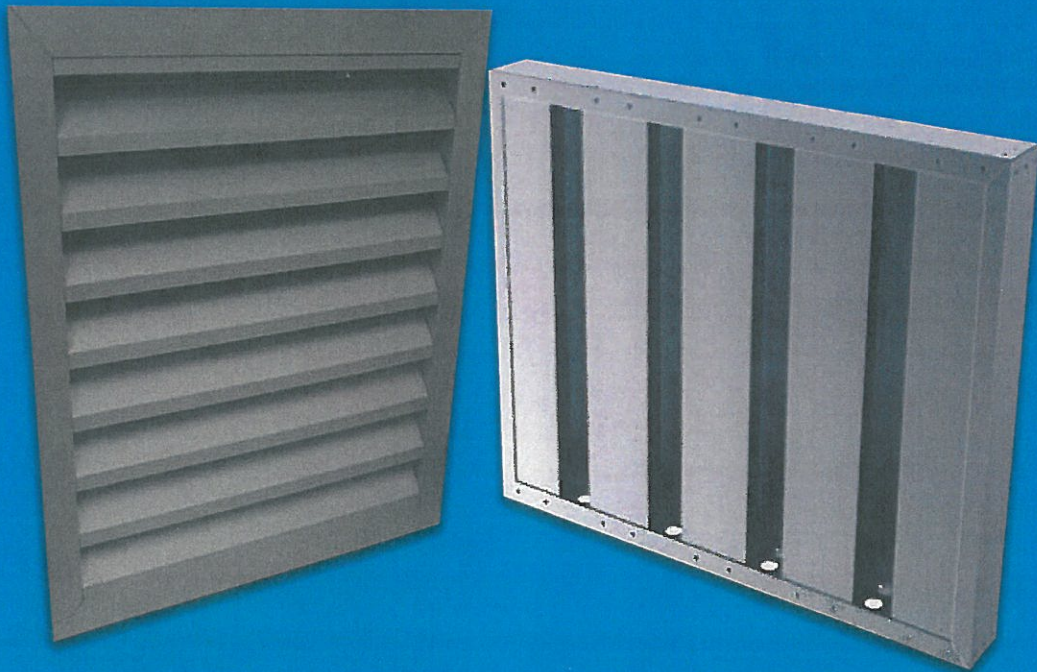
E-mail: contact@seagull.ae

Website: www.seagull.ae



All details contained within this brochure are accurate at the time of press, but due to our continuing policy of improvements, Seagull reserve the right to alter specifications without notice. Therefore these details shall not form part of any contract.

LOUVRES

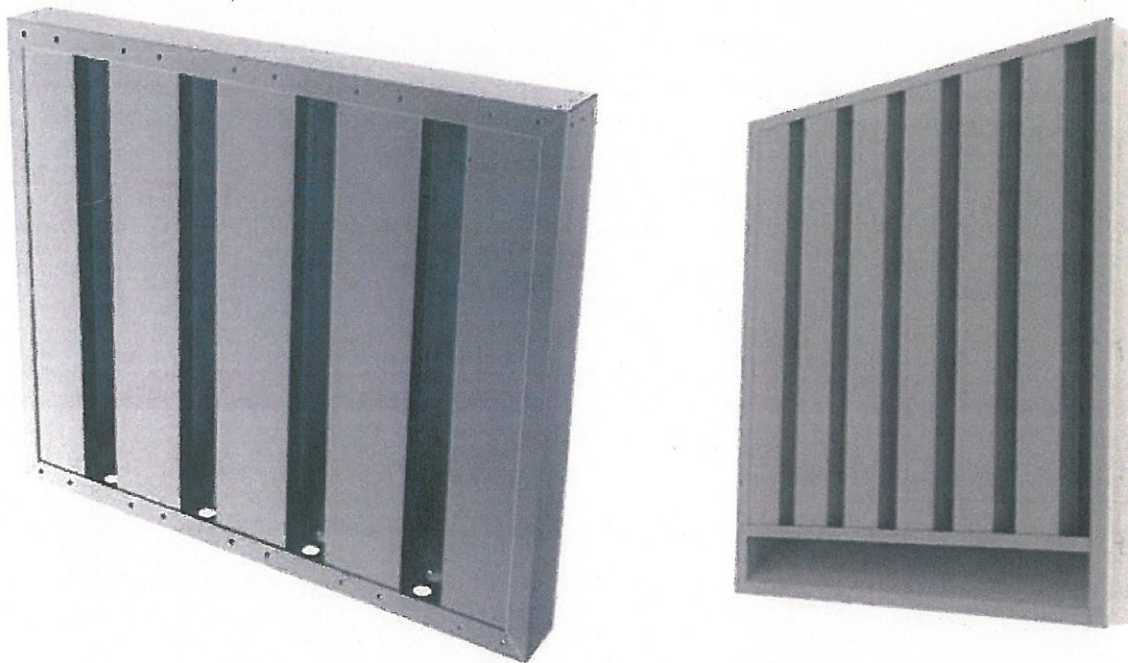


SEAGULL (HVAC) INDUSTRY LLC

SAND TRAP LOUVRES

Description

The sand trap louvre is used as pre-filter for the protection of air conditioning plants in areas exposed to extreme levels of industrial pollution. It has a degree of separation of sand and large dust particles, even in cases of high dust concentrations. The vertically arranged sections and holes for sand drainage ensure the sand trap louvre is self cleaning and maintenance-free. The sand trap louvre is designed to separate large particles at low air velocities, thus avoiding excessive dust loading on conventional plant filters. It is not intended as a substitute for conventional supply air filtration plant.



Models

SL-303 Galvanized Iron Sand Trap Louvres

ASL-303 Aluminium Sand Trap Louvres

SSL-303 Stainless Steel Sand Trap Louvres

SAND TRAP LOUVRES

Standard Material & Construction

Frame: 1.2 mm thick GI steel / 1.4 mm thick Aluminium / 1.0 mm thick SS

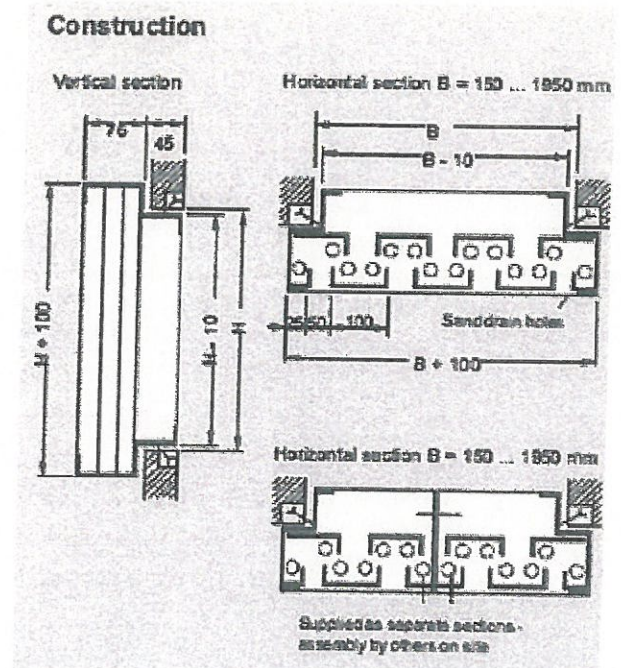
Blades: 1.0 mm thick GI steel / 1.2 mm thick Aluminium / 0.8 mm thick SS

Assembly: Mechanically fastened with GI/AL/SS rivets of size 4.8 mm x 12 mm.

Bird Mesh: 12 mm x 12 mm x 1 mm diameter wire GI/SS mesh

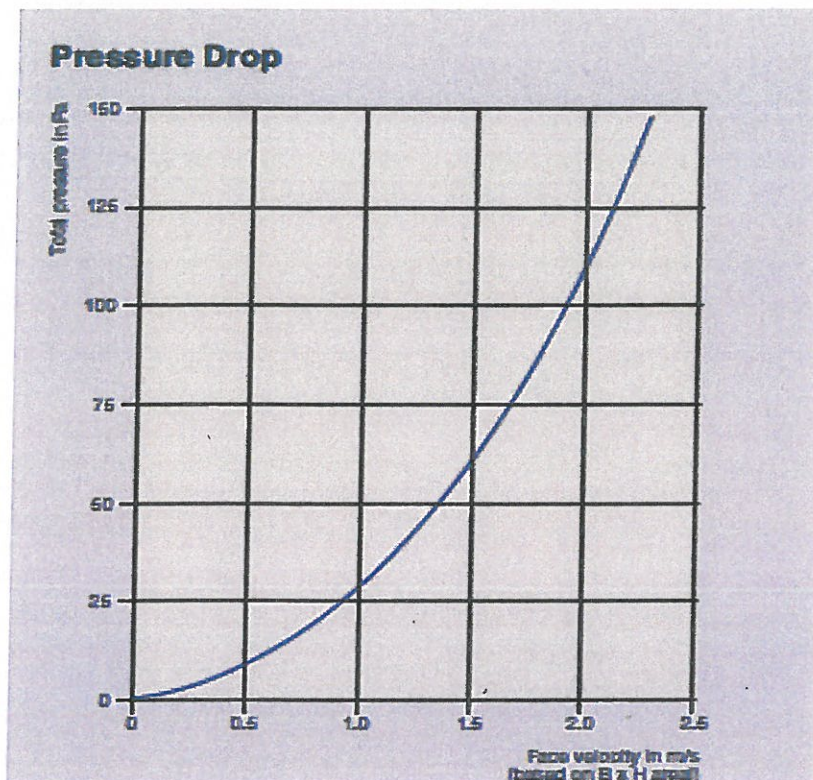
Finish: Mill Finish or Powder Coated.

Two rows of vertically arranged channels sections to form a labyrinth for the air path. Base frame has drainage holes for the sand ensuring the louvre is self cleaning and maintenance free.



SAND TRAP LOUVRES

Performance



Filtration

The filtration performance is dependent on the dust type and the velocity of the air:

| Particle Size | Filtration Efficiency in % | |
|---------------|----------------------------|------------|
| | at 1.0 m/s | at 2.0 m/s |
| 350-700 | 90 | 70 |
| 75-700 | 60 | approx. 30 |

EXHAUST & FRESH AIR LOUVERS

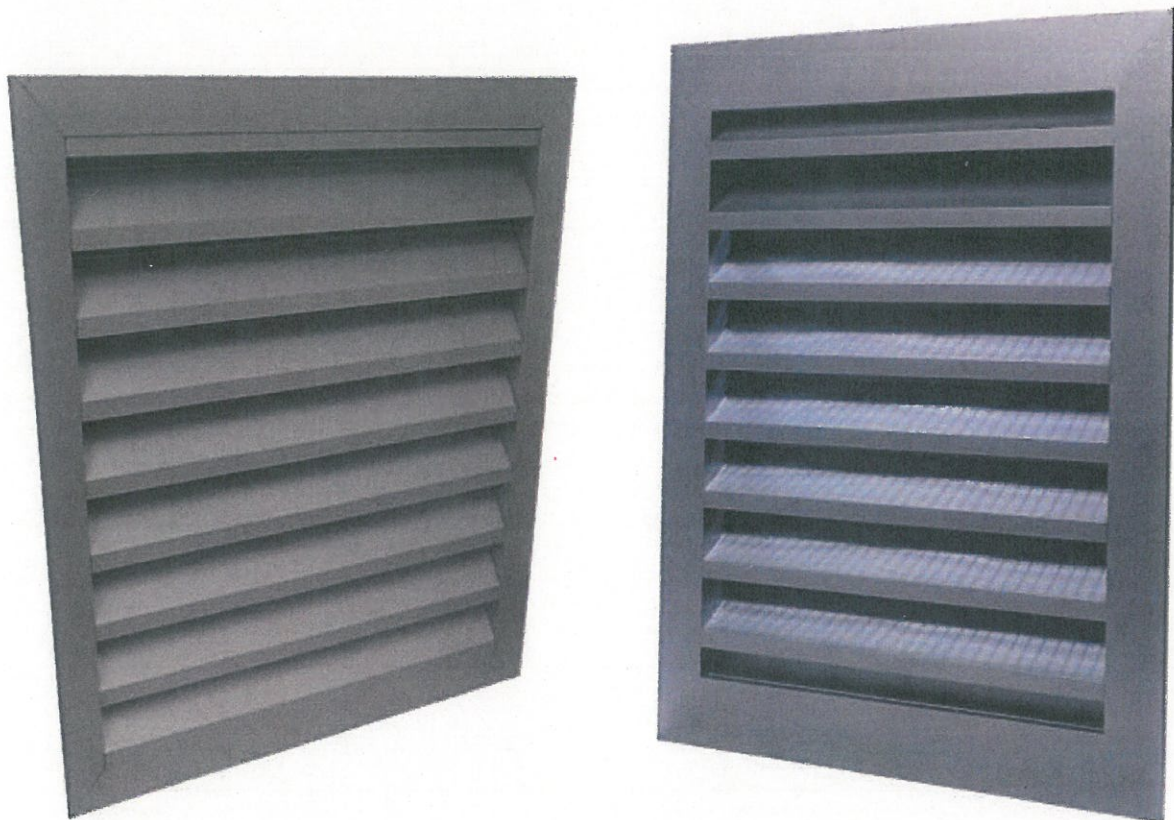
Description

The exhaust air louver is a weather proof external cover for discharge openings, suitable for most external walling and screening applications.

The intake air louver is a weather proof external cover for intake openings, suitable for most external walling and screening applications.

The louver is composed of a set of blades made of heavy gauge of aluminium / galvanized iron extrusions arranged in horizontal rows and inclined downward to protect against rain water.

These louvers are used in cooling, heating and air ventilation applications.



EXHAUST & FRESH AIR LOUVERS

Standard Material & Construction

Louvre Frame: High quality extruded Aluminium profile of 1.4mm thickness

GI profile of 1.2mm thickness

Blades: High quality extruded Aluminium profile of 1.2mm thickness

GI profile of 1.0mm thickness

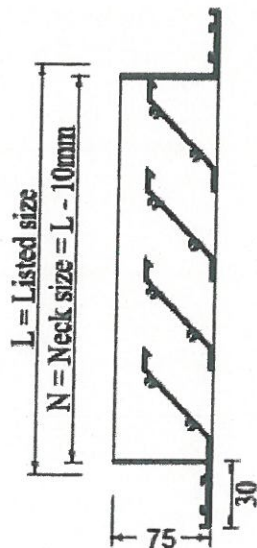
Blade Pitch: 50-75mm

Flange width: 30-50mm

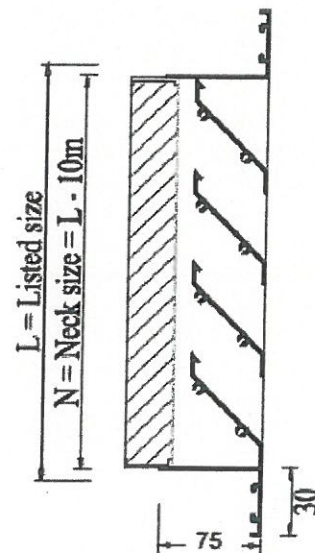
Applicable for Intake Louvre only

Filter Frame: Aluminium

Filter Media: Expanded Aluminium Media of 25mm thick



Exhaust Louvre arrangement

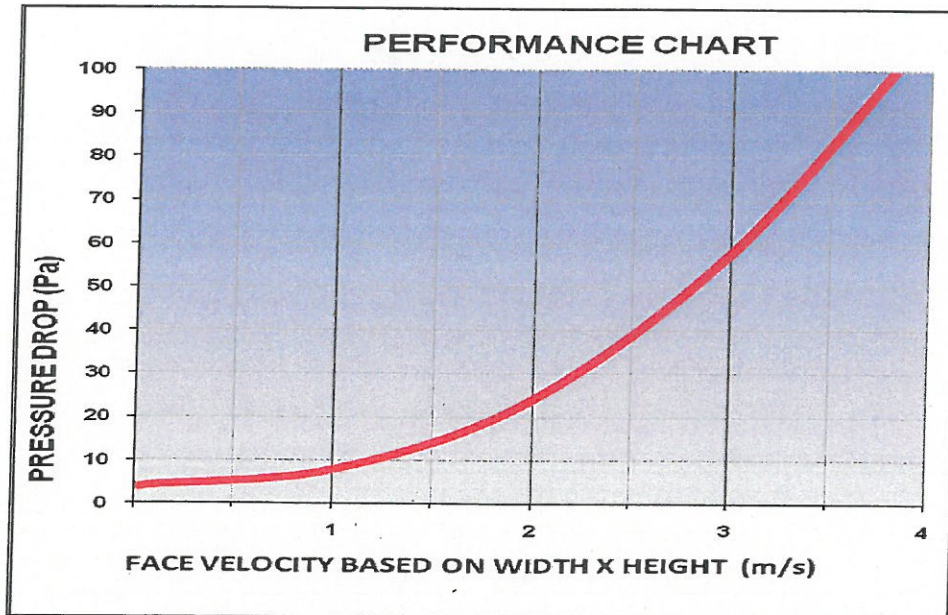


Intake Louvre arrangement

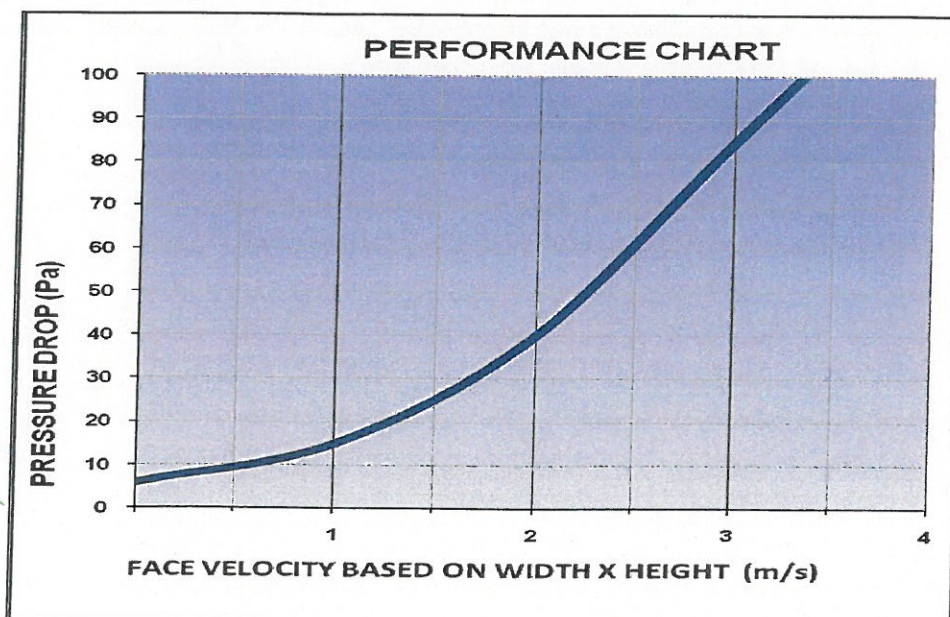
EXHAUST & FRESH AIR LOUVERS

Performance

Exhaust Air Louvre



Fresh Air Louvre



OTHER PRODUCTS

RECTANGULAR SILENCERS

CYLINDRICAL SILENCERS

ACOUSTIC LOUVRES

ACOUSTIC LOUVRE DOORS

ACOUSTIC DOORS

ACOUSTIC DESIGN SERVICES

ACOUSTIC PANELS

SAND TRAP LOUVRES

EXHAUST LOUVRES

Full Technical Advisory Services is available from our regional Sales Office.



SEAGULL (HVAC) INDUSTRY LLC

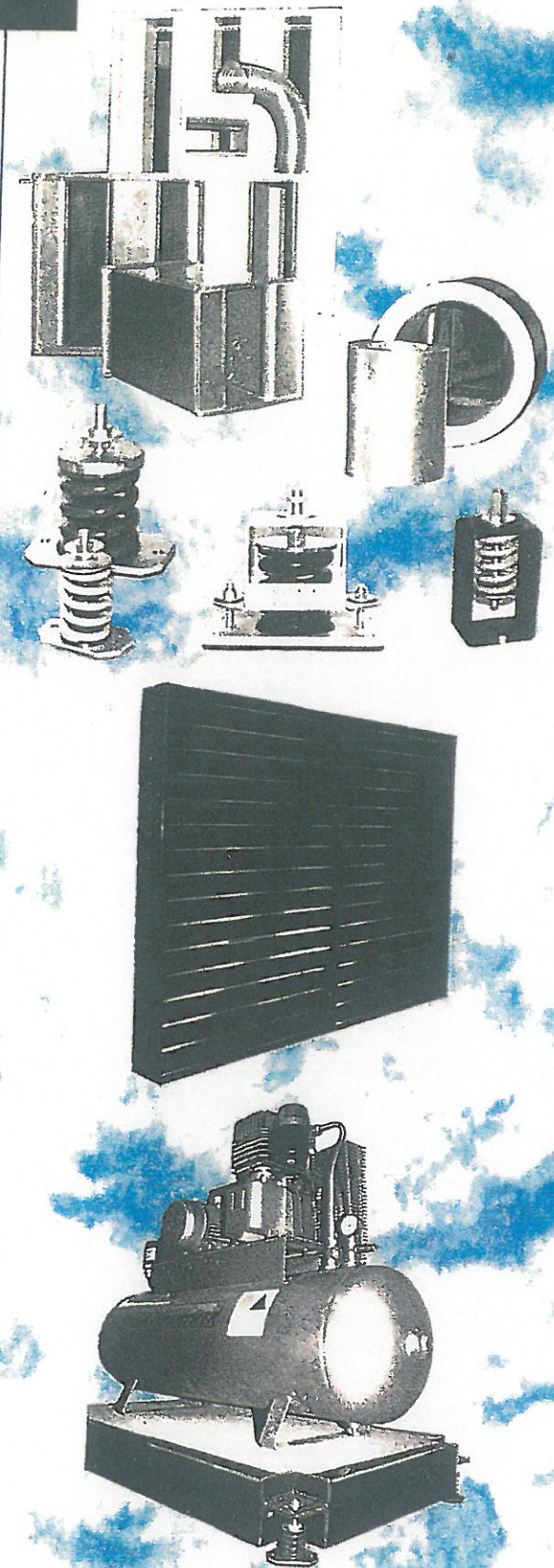
P.O. Box 27743 DUBAI UAE

Tel: +971 - 4 - 347 0047

Fax: +971 - 4 - 347 0824

E-mail: contact@seagull.ae

Website: www.seagull.ae



All details contained within this brochure are accurate at the time of press, but due to our continuing policy of improvements, Seagull reserve the right to alter specifications without notice: Therefore these details shall not form part of any contract.

BEST FLEX®



SEAGULL (HVAC) INDUSTRY LLC

P.O. BOX : 27743, DUBAI, U.A.E

TEL: +971 4 3470047, FAX: +971 4 3470824

E-MAIL: seagulltr@emirates.net.ae

WEBSITE: seagullhvacindustry.com



Best Flex BFMM02

Best Flex BFMM02 is made of tough polyester and metalized foil permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The outer insulation jacket/ vapour barrier is made of reinforced metalized polyester film laminate.

| | |
|-----------------------------|---------------------------------------|
| Standard Length | 25 ft. |
| Standard Diameter | 4" to 18" |
| Velocity | 5000 fpm maximum |
| Temperature Range | 0° F to 250° F |
| Rated Pressure | 10" w.g. positive, 1/2" w.g. negative |
| Insulation Thickness | 25mm |
| Insulation Density | 16 kg/m ³ |
| Insulation R Value | 4.2 (°F-Ft ² -hr/BTU) |
| Outer Jacket / Inner Jacket | Metalized / Metalized |
| Packing | 1 piece (25 ft) per carton |

*24 kg/m³ density available on request

*Uninsulated Duct available on request



Best Flex BFAM02

Best Flex BFAM02 is made of tough polyester and aluminum foil permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The outer insulation jacket/ vapour barrier is made of reinforced metalized polyester film laminate.

| | |
|-----------------------------|---------------------------------------|
| Standard Length | 25 ft. |
| Standard Diameter | 4" to 18" |
| Velocity | 5000 fpm maximum |
| Temperature Range | 0° F to 250° F |
| Rated Pressure | 10" w.g. positive, 1/2" w.g. negative |
| Insulation Thickness | 25mm |
| Insulation Density | 16 kg/m ³ |
| Insulation R Value | 4.2 (°F-Ft ² -hr/BTU) |
| Outer Jacket / Inner Jacket | Aluminium / Metalized |
| Packing | 1 piece (25 ft) per carton |

*24 kg/m³ density available on request

*Uninsulated Duct available on request

HIGH FLEXIBILITY • DURABLE & E



Best Flex BFAA02

Best Flex BFAA02 is made of tough polyester and aluminium foil permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The outer insulation jacket/ vapour barrier is made of reinforced aluminium polyester film laminate.

| | |
|--|---------------------------------------|
| Standard Length | 25 ft. |
| Standard Diameter | 4" to 18" |
| Velocity | 5000 fpm maximum * |
| Temperature Range | 0° F to 250° F |
| Rated Pressure | 10" w.g. positive, 1/2" w.g. negative |
| Insulation Thickness | 25mm |
| Insulation Density | 16 kg/m ³ |
| Insulation R Value | 4.2 (°F-Ft ² -hr/BTU) |
| Outer Jacket /Inner Jacket | Aluminium / Aluminium |
| Packing | 1 piece (25 ft) per carton |
| *24 kg/m ³ density available on request | |
| *Uninsulated Duct available on request | |



Best Flex BFMP-U02

Best Flex BFMP-U02 is an uninsulated duct made of tough polyester and metalized foil permanently bonded to a coated spring steel wire helix.

| | |
|-------------------|---------------------------------------|
| Standard Length | 25 ft. |
| Standard Diameter | 4" to 18" |
| Velocity | 5000 fpm maximum |
| Temperature Range | 0° F to 250° F |
| Rated Pressure | 10" w.g. positive, 1/2" w.g. negative |
| Packing | 1 piece (25 ft) per carton |

FICIENT • QUICK & ECONOMICAL

- Ideal for Air Conditioning & Ventilation systems including commercial, industrial and residential applications.
- Offer high degree flexibility and can be connected to any desired position where fabricated ducts would be difficult to install.
- Available uninsulated or pre insulated in standard length of 25ft and in varying diameters of 4" to 18" at a very competitive price.
- Easy to install and low operating cost.
- Ducts produced as per the standards & specification set out by UL 181 and to meet Air Duct Class 1.
- No air leakage.
- Tear and puncture resistant construction.
- Offers smooth inner core which provide low friction loss.
- Excellent thermal efficiency.
- Spring steel wire helix assures dimensional stability.
- High resistant to corrosion and micro-organisms.

Distributor

HIGHEST QUALITY FLEXIBLE DUCT



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Project References

LIST OF SOME PRESTIGIOUS PROJECTS
EXECUTED BY SEAGULL (HVAC) INDUSTRY LLC

PROJECT

CLIENT

| | |
|------------------------------------|----------------------|
| JUMEIRAH BEACH HOTEL, DUBAI | SENSAIRE SERVICES |
| ENOC HOUSE, DUBAI | SENSAIRE SERVICES |
| ROYAL ABJAR HOTEL, DUBAI | KHARAFI NATIONAL |
| ISLAMIC COLLEGE, SHARJAH | GECO |
| METROPOLITAN PALACE HOTEL, DUBAI | SENSAIRE SERVICES |
| BANIYAS COMPLEX, DUBAI | SENSAIRE SERVICES |
| SALALAH HOSPITAL, OMAN | GALFAR ENGG. |
| PYRAMID COMPLEX, DUBAI | AL HAMAD CONTRACTING |
| AL MUHAIRY TOWER, ABU DHABI | E T A |
| AL RAHBA HOSPITAL, ABU DHABI | SENSAIRE SERVICES |
| GRAND HYATT HOTEL, DUBAI | SSANG YANG |
| CBRD STAFF ACCOMMODATION, DUBAI | CONVRGNT |
| AL RAID COMM. BLDG., DUBAI | GALFAR ENGG. |
| MAZAYA CENTRE, DUBAI | SENSAIRE SERVICES |
| CONFERENCE PALACE, ABU DHABI | E T A |
| AL TABREED - 4, ABU DHABI | GISCO |
| SHANGRI-LA HOTEL, DUBAI | SENSAIRE SERVICES |
| IBIS HOTEL, DUBAI | SENSAIRE SERVICES |
| GENERAL POLICE HEADQUARTERS, DUBAI | DRAKE & SCULL |
| NOVOTEL HOTEL, DUBAI | SENSAIRE SERVICES |
| CELEBRATION HALL, AL AIN | SEIDCO |
| BURJUMAN EXTENSION, DUBAI | KHARAFI NATIONAL |
| MCB TOWER, PAKISTAN | SENSAIRE SERVICES |
| UPTOWN MIRDIF DEVELOPMENT, DUBAI | DRAKE & SCULL |

PROJECT

DUBAI FESTIVAL CITY - IKEA, DUBAI
PARK PALACE, DUBAI
DUBAI HEALTH CARE CENTRE, DUBAI
JUMEIRAH BEACH RESIDENCE
SECTOR 1 & 2, DUBAI
LA RESIDENCE DELMAR, DUBAI
AL BUTEEN TOWER, MARINA, DUBAI
THE EMERALD PALACE, PALM JUMEIRAH DUBAI
OCEANA, PALM JUMEIRAH
SALALAH TOURISTIC & COMMERCIAL COMPLEX,
SALALAH OMAN
THE DUBAI MALL, DUBAI
BURJ DUBAI – PLOT # 44, DUBAI
JEWELS TWIN TOWER, MARINA, DUBAI
YATCH BAY AMLAK, DUBAI
DIFC GATE VILLAGE, DUBAI
DUBAI FESTIVAL CITY, DUBAI
OGD III, ABU DHABI
INDEX GATE VILLAGE, DUBAI
MUSCAT CITI CENTRE, MUSCAT
OCEANA RESIDENTIAL @ PALM JUMEIRAH, DUBAI
JUMEIRAH BEACH RESIDENCE HOTEL, DUBAI
BUSINESS BAY HOTEL, DUBAI

CLIENT

BK GULF
DRAKE & SCULL
SENSAIRE SERVICES
DRAKE & SCULL

HEATING COOLING INTERNATIONAL
COMMODORE
AL HABTOOR SPECON
BAHWAN TECHNICAL CO.
BAHWAN CONTRACTING CO.

JUMA AL MAJID
ARABIAN CONSTRUCTION CO.
DRAKE & SCULL
HEATING COOLING INTERNATIONAL
ARABTECH
KHARAFI NATIONAL
DRAKE & SCULL
ARABTECH
BAHWAN ENGINEERING CO.
BAHWAN TECHNICAL CO.
AL HABTOOR SPECON
AL HABTOOR SPECON

PROJECT

AL HABTOOR TOWER, DUBAI
MILLENIUM TOWER, DUBAI
BAWABAT AL NAJOOM @ ZABEEL PARK, DUBAI
FIRST GULF BANK RESIDENTIAL BLDG
@ AL NAHDA
AVIATION CLUB HOTEL
DANET ABU DHABI
PARIS SORBONNE ADH
JEBEL ALI POWER STATION
HOTEL & RESIDENTIAL TOWER MARSA
CARRE FOUR DALMA MALL
AL RAHA BEACH DEVELOPEMT
EMAL (Emirates Aluminum Smelter Complex)
AL JAZEERA CLUB TOWER
CARAVAN SARAI HOTEL
MAYFAIR TOWER & RESIDENCY
SOUQ AND RESIDENCES
FAIRMONT PALM HOTEL
BANK MUSCAT
ALDAR HEADQUARTERS
OILFIELD SUPPLY CENTER
U-BORA TOWERS @ BUSINESS BAY
19 VILLAS COMPLEX, ABU DHABI
PEARL QATAR
SHUWEIHAT S2 IWPP
AL GHURAIR PAHSE II
OUD METHA

CLIENT

AL HABTOOR SPECON
AL HABTOOR SPECON
SENSAIRE SERVICES
SENSAIRE SERVICES

SENSAIRE SERVICES
SENSAIRE SERVICES
AL HABTOOR SPECON
FISIA ITALIMPIATT
TROMECH ELECTRO MECHANICAL
HASTIE
CONSPER EMIRATES LLC
MAG INTERNATIONAL
MAG INTERNATIONAL
TARGET ENGINEERING
DUBAI MASTERS
DRAKE & SCULL
DRAKE & SCULL
GALFAR ENGINEERING
CONSPER EMIRATES LLC
CLIMATE CONTROL
SENSAIRE SERVICES
GULF COAST ELECTROMECHANICAL CO.
CONSPER QATAR
BAHWAN TECHNICAL CONTRACTING
E T A
AL AHMADIAH CONTRACTING & TRDG.

PROJECT

WELCOME PAVILION, YAS ISLAND
KHALIDIYA SHINING TOWER
ZABEEL PALACE
MUSHEIRAB, KHARTOUM, SUDAN
NEW ZAYED UNIVERSITY, ABU DHABI
AL JAWAHIRI SCHOOL BUILDING
WINCHESTER SCHOOL EXTENSION

CLIENT

HITACHI PLANT TECHNOLOGIES
SENSAIRE SERVICES
SIGMA ENGINEERING
SENSAIRE SERVICES
AL HABTOOR SPECON
GULF COAST ELECTROMECHANICAL
MAG INTERNATIONAL

LIST OF SOME AIPTORT PROJECTS

EXECUTED BY SEAGULL (HVAC) INDUSTRY LLC

PROJECT

INTERNATIONAL AIRPORT – AIRSHOW, DUBAI
INTERNATIONAL AIRPORT DUBAI
INTERNATIONAL AIRPORT DUBAI
INTERNATIONAL AIRPORT PHASE II, DUBAI
INTERNATIONAL AIRPORT EXPANSION, DUBAI
INTERNATIONAL AIRPORT DUBAI TERMINAL II
DUBAI FLOWER CENTRE, DUBAI AIRPORT, DUBAI
KHARTOUM INTERNATIONAL AIRPORT, SUDAN
GCAA NEW NAVIGATION SERVICES, ABU DHABI

CLIENT

THERMO LLC
THERMO LLC
RAS ENGINEERING
BK GULF
KHARAFI NATIONAL
A & P
AL HABTOOR ROBERTS
SENSAIRE SERVICES
ZENER STEWARD

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Quality System Certificates

CERTIFICATE

ISO 9001:2015

Quality Management System

VISCOUNT QUALITY CERTIFICATIONS

Dubai - United Arab Emirates

This is to certify that

SEAGULL HVAC INDUSTRY LLC

Located at

**Plot No. 0368-0159, Building No. 46, Al Quoz
Industrial Area 3, Dubai, United Arab Emirates**

Has established and maintains a quality system according to the requirements of ISO 9001:2015
"Quality Management System" for:

***Fabrication & Trading of Sheet Metal Duct Work, Fire-Rated Duct Work, Sound Attenuators,
Acoustic Louvers, Acoustic Panels, Duct Flange System and Other Duct Components.***

This certificate is based on the result of an Quality audit documented in the audit report VQC/004/QMSRC/1117.

Certificate number: 17 QMS 001

First Issued 24 September 2009

Valid from 1st February 2018 to 31 January 2021

Further clarifications regarding the scope of this certificate and the applicability of EN /ISO 9001:2015
requirements may be obtained by consulting the organization.

This certificate is granted during the technical review on 23rd December 2017 and is subject to the General
Regulation of Viscount.



Signed for the certification body:

General Manager



CB-076-MS/1

CERTIFICATE

OHSAS 18001:2007

Occupational Health & Safety Management System

VISCOUNT QUALITY CERTIFICATIONS

Dubai - United Arab Emirates

This is to certify that

SEAGULL HVAC INDUSTRY LLC

Located at

**Plot No. 0368-0159, Building No. 46, Al Quoz
Industrial Area 3, Dubai, United Arab Emirates**

Has established and maintains a safety system according to the requirements of OHSAS 18001:2007
"Occupational Health & Safety Management System" for:

***Fabrication & Trading of Sheet Metal Duct Work, Fire-Rated Duct Work, Sound Attenuators,
Acoustic Louvers, Acoustic Panels, Duct Flange System and Other Duct Components.***

This certificate is based on the result of an Quality audit documented in the audit report VQC/004/EMSstage2/1117.

Certificate number: 17 SMS 003

First Issued 23 December 2017

Valid from 23 December 2017 to 22 December 2020

Further clarifications regarding the scope of this certificate and the applicability of EN /OHSAS 18001:2007
requirements may be obtained by consulting the organization.

This certificate is granted during the technical review on 23 December 2017 and is subject to the General
Regulation of Viscount.



Signed for the certification body:


General Manager



CERTIFICATE

ISO 14001:2015

Environment Management System

VISCOUNT QUALITY CERTIFICATIONS

Dubai - United Arab Emirates

This is to certify that

SEAGULL HVAC INDUSTRY LLC

Located at

**Plot No. 0368-0159, Building No. 46, Al Quoz
Industrial Area 3, Dubai, United Arab Emirates**

Has established and maintains an environmental system according to the requirements of ISO14001:2015 "Environment Management System" for:

Fabrication & Trading of Sheet Metal Duct Work, Fire-Rated Duct Work, Sound Attenuators, Acoustic Louvers, Acoustic Panels, Duct Flange System and Other Duct Components.

This certificate is based on the result of an Environment audit documented in the audit report VQC/005/EMSstage2/1117.

Certificate number: 17 EMS 002

First Issued 23 December 2017

Valid from 23 December 2017 to 22 December 2020

Further clarifications regarding the scope of this certificate and the applicability of EN /ISO14001:2015 requirements may be obtained by consulting the organization.

This certificate is granted during the technical review on 23 December 2017 and is subject to the General Regulation of Viscount.



Signed for the certification body:


General Manager



CB-076-MS/1