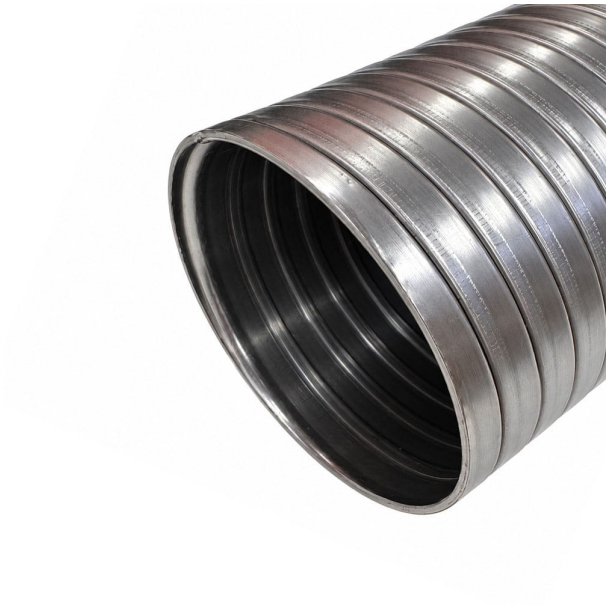
WHITEHOUSE
FLEXIBLE TUBING LTD

GALVANISED SMOOTH BORE STRIPWOUND HOSE



GALVANISED SMOOTH BORE FLEXIBLE TUBING

Whitehouse Galvanised Smooth Bore Flexible Tubing combines the flexibility and mechanical strength of stripwound metal hose with a substantially smoother internal bore. Its reduced internal profile provides a clearer flow path, making it particularly suited to extraction, airflow and material conveyance applications.

- Smoother internal bore for improved flow
- Strong and flexible galvanised steel construction
- Ideal for dust, powders, granules and swarf
- Suitable for extraction and airflow applications
- Excellent alternative to rigid pipework
- Bespoke lengths and assemblies available

*Smooth Bore Stripwound Hose is a **new product development**. If you require a size, material, or length that is not shown, please contact our sales team with your application details and we will advise on suitability and availability.*

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PRODUCT DETAILS

Product Details

Galvanised Smooth Bore Flexible Tubing has been developed for applications requiring the strength and flexibility of stripwound metal hose together with an improved internal flow path.

Manufactured from specially formed, helically wound galvanised steel strip, the reduced internal profile creates a considerably smoother passage than conventional stripwound tubing. This helps minimise internal obstruction and provides a clearer route for air and conveyed materials.

The tubing is particularly suited to extraction, airflow and material handling applications involving dust, sawdust, metal swarf, powders, granules and plastic pellets.

Its flexible metallic construction also provides an effective alternative to rigid pipework where installations need to accommodate bends, vibration, movement, misalignment or restricted spaces.

Whitehouse can also manufacture non-standard tubing and bespoke products to meet individual application requirements.

TECHNICAL DATA

Technical Data

Product Code	I/D (mm)	O/D (mm)	Inside Bend Radius (mm)	Weight (Kg.) Per 100 Mtrs
2.1/2″	63	69	324	204
2.3/4″	70	76	349	227
2.7/8″	73	79	356	236
3″	76	82	378	246
3.1/8″	79	85	372	256
3.1/4″	83	89	379	269
3.3/8″	86	92	386	279
3.1/2″	89	95	393	288
3.5/8″	92	98	400	298
3.3/4″	95	101	407	308
3.7/8″	98	104	414	317
4″	102	108	423	331

4.1/4″	108	114	436	349
4.1/2″	114	120	451	369
4.3/4″	120	126	466	388
5″	127	133	486	411
5.1/4″	133	139	502	432
5.1/2″	140	146	518	452
6″	152	158	548	493

** Standard Coil Length 10m, if you require any other length please contact us for availability.

APPLICATIONS

Applications

Galvanised Smooth Bore Flexible Tubing is suitable for a wide range of industrial extraction, airflow and material conveyance applications, including:

- Industrial dust extraction
- Sawdust and wood-chip extraction
- Metal swarf and machining-chip extraction
- CNC and machine-tool extraction
- Powder transfer
- Granular material conveyance
- Plastic pellet handling
- Dry bulk material handling
- Industrial vacuum systems
- Air ducting and process ventilation
- Smoke and fume extraction
- Agricultural material handling
- OEM machinery
- Flexible connections between machinery and fixed ducting

SPECIAL FEATURES

Special Features

Smooth Internal Bore
The specially developed internal profile provides a substantially smoother flow path than conventional stripwound tubing, helping air and conveyed materials move through the hose with less interference from the tube profile.

Improved Material Conveyance
The reduced internal profile provides fewer pronounced areas where dust, powders, granules, pellets, swarf and other compatible

materials can catch or accumulate.

Improved Airflow Characteristics
The smoother bore can help reduce flow disturbance, making the tubing particularly suited to extraction, ventilation and air-handling applications.

Galvanised Steel Construction
Provides a durable metallic construction suitable for a wide variety of general industrial applications.

Excellent Flexibility
Allows bends and routing that can be difficult to achieve using rigid metallic pipework, making installation easier around machinery and equipment.

Wide Range of Sizes
Available in multiple inside diameters to suit different airflow, extraction and material handling requirements.

ASSEMBLIES

Galvanised Smooth Bore Hose Assemblies

Whitehouse can supply Galvanised Smooth Bore Flexible Tubing in standard lengths or as part of a made-to-order flexible hose assembly.

Depending on the application, assemblies can incorporate suitable:

- Flanges
- Threaded end adaptors
- Plain spigot ends
- Unicone ends
- Machine connections
- Custom end fittings
- Bespoke fabricated components

For specialist or non-standard installations, customers can provide drawings or application details for review.

Bespoke assemblies are particularly useful where Galvanised Smooth Bore Flexible Tubing is being incorporated into extraction machinery, material-handling equipment, processing systems or OEM machinery. Whitehouse's wider manufacturing service supports non-standard tubing and customised products.

FAQS

FAQs

What is Galvanised Smooth Bore Flexible Tubing?

Galvanised Smooth Bore Flexible Tubing is a specially developed stripwound flexible metal hose with a reduced internal profile. It provides a smoother internal passage than conventional stripwound tubing while retaining the flexibility and mechanical advantages of metallic construction.

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What is the main advantage of Smooth Bore Flexible Tubing?

Its principal advantage is the smoother internal flow path. This can improve the passage of air and conveyed materials and reduce opportunities for particles to catch or accumulate within the hose.

How is Smooth Bore different from conventional stripwound tubing?

Smooth Bore uses a specially developed strip profile designed to create a substantially smoother internal surface, making it particularly suited to extraction, airflow and material conveyance applications.

What is Galvanised Smooth Bore Flexible Tubing used for?

Typical applications include dust and sawdust extraction, metal swarf extraction, powder and granular material handling, plastic pellet conveyance, industrial vacuum systems, air ducting, fume extraction and connections to industrial machinery.

Is Galvanised Smooth Bore suitable for dust extraction?

Yes. Its smoother internal profile makes it particularly suitable for dust and particulate extraction because there are fewer pronounced internal areas where material can collect.

Can it be used for sawdust and wood chips?

Yes. Galvanised Smooth Bore Flexible Tubing can be considered for woodworking extraction systems handling sawdust and wood chips, subject to the operating conditions of the installation.

Can Galvanised Smooth Bore be used for metal swarf?

Its metallic construction makes it suitable for consideration in applications involving metal chips and swarf. The exact construction should be selected according to the size, shape, temperature and abrasiveness of the material being conveyed.

Is it suitable for powders and granules?

Yes. The smoother internal passage makes it particularly useful for conveying compatible powders, granules and plastic pellets where flexibility and reduced internal obstruction are important.

Can Galvanised Smooth Bore Flexible Tubing improve airflow?

The smoother internal profile can reduce some of the flow disturbance associated with more heavily profiled flexible tubing. Actual airflow performance will depend on the diameter, length, bends, flow velocity and overall system design.

Can Whitehouse manufacture bespoke Smooth Bore assemblies?

Yes. Whitehouse offers custom manufacturing for non-standard tubing and dimensions, making bespoke solutions possible for specialist installations and machinery.