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FLEXIBLE TUBING LTD

FIBRE PACKED SQUARELOCK

FIBRE PACKED SQUARELOCK FLEXIBLE METAL TUBING

Fibre Packed Squarelock is a flexible stripwound metal hose manufactured from galvanised steel with a squarelock section containing fibre packing.

Combining great flexibility with high mechanical strength, the packed construction provides improved air-tightness, making it suitable for temporary exhaust hose, dust extraction, conveyance, material handling and protective casing applications.

Key Features

- Galvanised steel construction
- Fibre packed squarelock section
- Great flexibility
- High mechanical strength
- Improved air-tightness
- Suitable for temporary exhaust applications
- Maximum operating temperature of +500°C
- Available in internal diameters from 20mm to 305mm
- Intermediary sizes can be manufactured where required
- Non-standard lengths available

+500 Degrees ‘C’ Max

Order non-standard lengths here

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Please note the diameters listed below are all **inside diameters. Please check this before ordering.*

We can manufacture to intermediary sizes where required. If your size is not listed, please contact us.

PRODUCT DETAILS

Fibre Packed Squarelock – Product Details

Fibre Packed Squarelock is manufactured from a single metal strip wrapped around a mandrel to form a squarelock section containing fibre packing.

The construction combines great flexibility with high mechanical strength, while the fibre packing improves the air-tightness of the tubing.

Key Features

- Galvanised steel flexible metal tubing
- Squarelock construction
- Fibre packed section
- Great flexibility
- High mechanical strength
- Improved air-tightness
- Maximum operating temperature of +500°C
- Available in internal diameters from 20mm to 305mm
- Intermediary sizes can be manufactured where required
- Non-standard lengths available

All listed tubing diameters refer to the inside diameter (ID).

Manufacturing Tolerances

- Up to and including 76mm ID: +0.5mm / -0.0mm
- Over 76mm ID: +1.0mm / -0.0mm

TECHNICAL DATA

Bore Size	I/D (mm)	O/D (mm)	Inside Bend Radius (mm)	Weight (KG) per 100m
3/4″	20	24	40	36

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1″	25	30	45	63
1.1/8″	28	32	49	73
1.1/4″	32	37	53	83
1.3/8″	35	40	60	91
1.1/2″	38	43	66	99
1.5/8″	41	46	73	108
1.3/4″	45	50	80	116
1.7/8″	48	53	86	124
2″	51	58	93	132
2.1/8″	54	61	103	144
2.1/4″	57	64	114	156
2.3/8″	60	67	125	167
2.1/2″	63	70	135	178
2.5/8″	66	73	139	189
2.3/4″	70	77	143	200
2.7/8″	72	79	147	210
3″	76	83	151	222
3.1/8″	79	86	155	227
3.1/4″	83	90	162	233
3.3/8″	86	93	168	239
3.1/2″	89	96	175	245
3.5/8″	92	99	179	251
3.3/4″	95	102	183	256
3.7/8″	98	105	188	262
4″	102	109	192	268
4.1/4″	108	115	200	280
4.1/2″	114	121	208	296

4.3/4″	121	128	216	310
5″	127	134	225	325
5.1/2″	140	147	230	356
6″	152	163	266	386
6.1/2″	165	176	289	429
7″	178	189	311	482
8″	203	214	355	620
9″	229	240	401	795
10″	250	261	437	965
11″	279	290	488	1,190
12″	305	316	534	1,315

CONSTRUCTION

Fibre Packed Squarelock Construction

Fibre Packed Squarelock tubing is manufactured from deep drawing quality carbon steel to BS 1449 galvanised.

Profiled metal strip is wound into a tube to create the squarelock construction, which is packed with cotton or fibre packing.

This construction combines the mechanical strength and flexibility of metallic tubing with improved air-tightness provided by the packed squarelock section.

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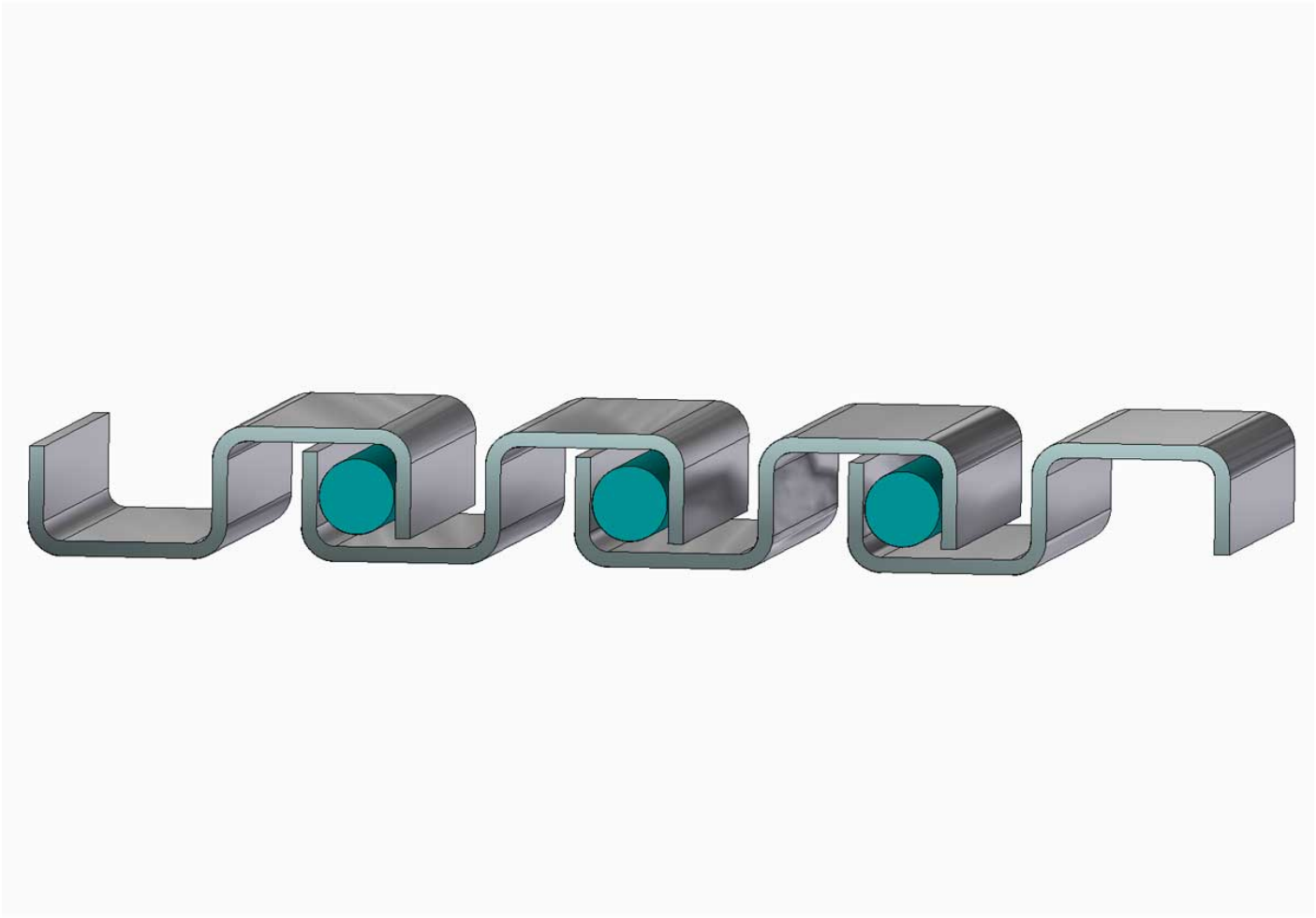

APPLICATIONS

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Fibre Packed Squarelock Applications

Fibre Packed Squarelock combines great flexibility and high mechanical strength with improved air-tightness, making it suitable for a range of exhaust, extraction, conveyance and general industrial applications.

Typical applications include:

- **Temporary Exhaust Hose** – the improved air-tightness of the fibre packed construction makes it suitable for use as a temporary exhaust hose
- **Exhaust Systems** – suitable for flexible exhaust system applications
- **Dust Extraction** – suitable for dust extraction applications requiring flexible metallic tubing
- **Conveyance & Ducting** – suitable for general conveyance and ducting applications
- **Granular Product Conveyance** – suitable for conveying a variety of granular products
- **Material Handling** – suitable for general industrial material handling applications
- **Protective Casings** – suitable for flexible protective casing applications
- **General Industrial Applications** – a versatile packed metallic tube for a variety of general-purpose industrial uses

Maximum Operating Temperature: +500°C

Please note the diameters listed below are all **inside diameters. Please check this before ordering.*

Manufacturing tolerances – All metallic tubing is manufactured to ID sizes, tolerances are + 0.5mm, – 0.0mm – up to 76mm ID, + 1.0mm, – 0.0mm – anything over 76mm ID

NON-STANDARD LENGTHS

Order non-standard lengths here

FAQS

Frequently Asked Questions About Fibre Packed Squarelock Tubing

What is Fibre Packed Squarelock Tubing?

Fibre Packed Squarelock is a flexible stripwound metal hose manufactured from a single metal strip with a squarelock section containing fibre packing.

What is the benefit of fibre packing?

The fibre packing improves the air-tightness of the squarelock construction while retaining great flexibility and high mechanical strength.

What is Fibre Packed Squarelock used for?

Typical applications include temporary exhaust hose, exhaust systems, dust extraction, conveyance and ducting, granular product handling, material handling and protective casings.

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Can Fibre Packed Squarelock be used as an exhaust hose?

Yes. Its improved air-tightness makes Fibre Packed Squarelock suitable for use as a temporary exhaust hose, and exhaust systems are listed as an application for the product.

Is Fibre Packed Squarelock suitable for dust extraction?

Yes. Dust extraction is one of the specified applications for Fibre Packed Squarelock tubing.

Can it be used to convey granular materials?

Yes. Fibre Packed Squarelock is suitable for the conveyance of a variety of granular products.

What material is Fibre Packed Squarelock manufactured from?

It is manufactured from deep drawing quality carbon steel to BS 1449 galvanised.

What type of packing is used?

The squarelock section is packed with cotton or fibre packing.

What is the maximum operating temperature?

The maximum operating temperature is +500°C.

What sizes are available?

The standard technical data covers internal diameters from 20mm to 305mm. Whitehouse can also manufacture intermediary sizes where required.

Are the listed diameters internal or external?

All listed tubing diameters are inside diameters (ID).

Can non-standard lengths be supplied?

Yes. Non-standard lengths can be ordered to suit individual requirements.

What are the manufacturing tolerances?

For tubing up to and including 76mm ID, the manufacturing tolerance is +0.5mm / -0.0mm. For tubing over 76mm ID, the tolerance is +1.0mm / -0.0mm.