

**STÖRNCH
INDUCT**

INTRODUCING...









The STÖRNCH InDuct system offers a complete, pre-insulated solution for heating, ventilation, chiller and air-conditioning installations.

Consisting mainly of glass, sand and soda, the InDuct duct and fittings come with a patented aluminium foil on both the inner and outer surfaces, which provides an effective barrier against condensation.

Built to the standard dimensions of the European ventilation market, the InDuct range covers from 125mm dia. up to 315mm dia.

This revolutionary new system offers a raft of benefits to specifiers, installers and end users alike. From time savings of up to 50% when installing, to easy transportation and storage (ducts over 50% lighter than their sheet metal counterparts and come flat-packed), to natural sound dampening properties and significant environmental benefits (CO2 savings of over 80%)!

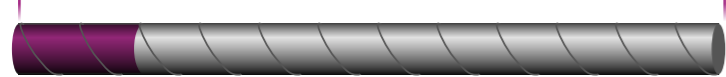


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THE **PERFECT** FIT FOR YOUR VAN...



3000mm Spiral Tube



2350mm InDuct

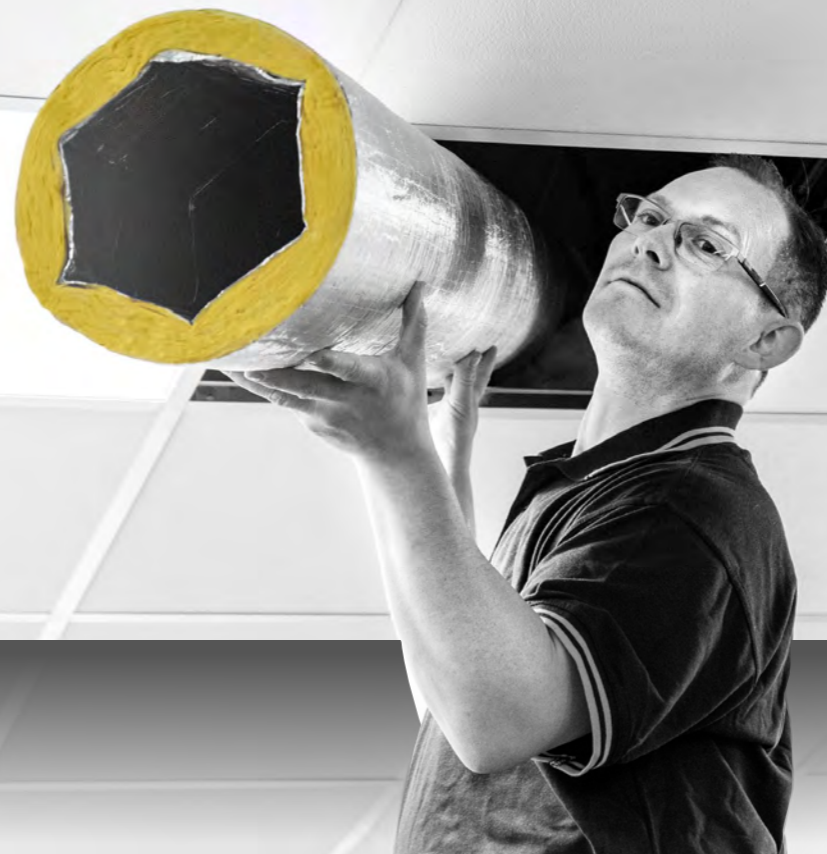


MAXIMUM LOAD SPACE LENGTH UP TO BULKHEAD
2554mm



THE **PERFECT** RETRO-FIT...

Fast connection to standard spiral!

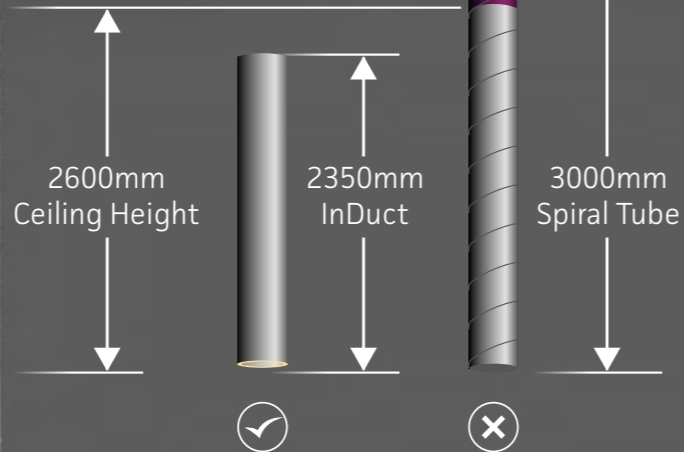


STÖRNCH InDuct has a number of unique benefits over standard production alternatives when it comes to retro-fitting.

It is extremely flexible making it easy to bend into tight ceiling voids without the time and hassle of having to remove the ceiling grid, allowing you to get in and out fast with minimal disturbance.

The InDuct system is manufactured in standard ventilation dimensions, allowing quick and easy connection onto standard existing spiral when retro-fitting.

THE PERFECT FIT FOR YOUR SITE...



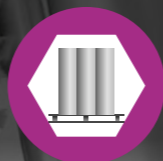
EASY ON THE STAIRS...



EASY ON THE LIFT!

STÖRNCH InDuct is altogether much less cumbersome than sheet metal ducting, making it a lot easier to move around on site. Its flexibility and lightweight construction make it easy to get up tight stairwells, without leaving scuffs on walls and ceilings. It also fits easily into site lifts when flat packed, and large meterage can be lifted in one go.

THE **PERFECT** FIT FOR SITE STORAGE...



COMPACT STORAGE



85mt/PALLET*



STÖRNCH InDuct offers extremely compact storage. All ducting comes palletised and flat packed, with up to 85 metres per pallet.

The picture on page 8 shows 200 metres of 200mm dia. duct for an entire floor including fittings, stored in the corner of a room. Imagine transporting and storing the equivalent in sheet metal spiral ducting!

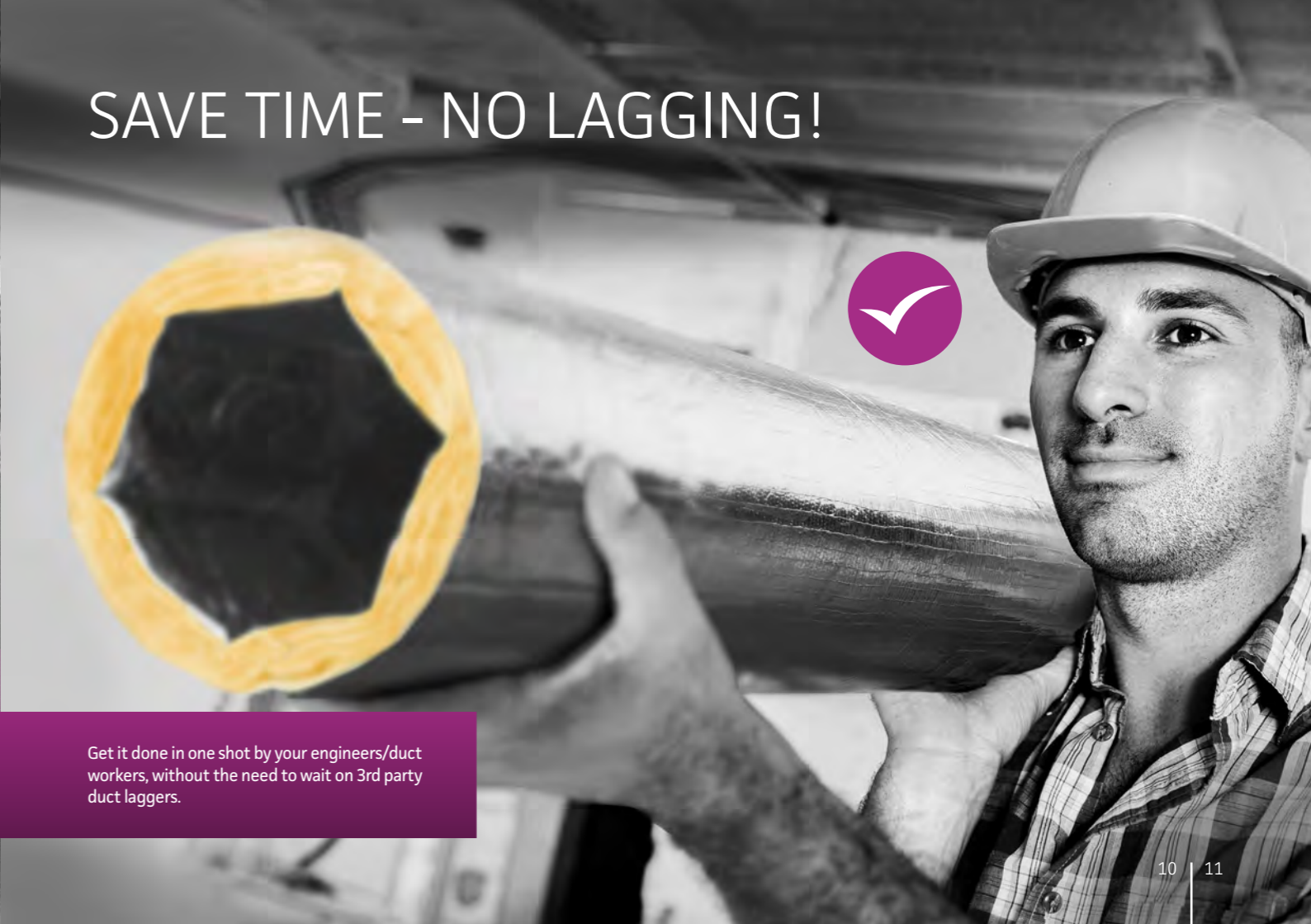
* Based on 125 & 160mm Diameter InDuct

THE **PERFECT** FIT FOR YOUR SCHEDULE...



As most of you would know, supply air ducts have to be insulated to comply with regulations. This often means the ducting is fitted by an engineer or duct worker, who then has to wait for a 3rd party lagger to come and insulate the spiral. This downtime is eliminated with STÖRNCH InDuct.

SAVE TIME - NO LAGGING!



Get it done in one shot by your engineers/duct workers, without the need to wait on 3rd party duct lagers.



THE **PERFECT** FIT
FOR A SAFE SITE...



STÖRNCH InDuct also boasts a host of safety benefits over sheet metal ducting.

Cutting metal involves grinders/jigsaws, causing sparks and consequently posing a fire risk. STÖRNCH InDuct requires no power tools to cut, thereby removing the fire risk element from the installation, and also the associated hazards of trailing power cables on site.

Sharp edges on metal can also cause hand injuries, and require the use of special PPE when handling, which is another risk factor STÖRNCH InDuct removes.



LIGHTWEIGHT & SAFE!



STÖRNCH InDuct is also ultra-lightweight compared to standard metal ducting, over 50% lighter on average in fact. This means fewer hands needed when handling and mounting, and also gives you a break from all that heavy lifting. To put it into perspective, imagine the difference in weight between a 3m length of 315mm dia. standard spiral ducting and a length of STÖRNCH InDuct tube of the same diameter! Significant indeed...

LESS ITCH!
Unlike standard lagging, InDuct is almost itch free due to its special formula

THE PERFECT FIT FOR YOUR BUSINESS



MORE INCOME GET MORE DONE!

Four typical InDuct installation projects...

A typical InDuct installation gives 4:1 time saving. The material and labour costs are often calculated as equal to a standard spiral installation but the number of projects that can be installed is four times a standard install, which enables you to increase your business significantly!

... to one standard spiral installation project with duct wrap lagging

Finally, why is STÖRNCH InDuct the perfect fit for your business?

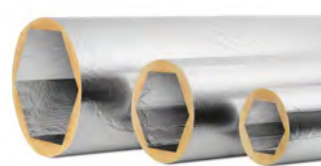
Adopting the STÖRNCH InDuct system has some very tangible benefits to you as a company.

- Significant time savings (up to 50% of mounting time) means you can ultimately get more projects done in a day/week/month. This obviously means more income, but also happier customers with project deadlines being met and surpassed.
- The lightweight construction of the system means fewer hands are needed when handling and mounting, translating to labour and consequently cost savings, the cost of skilled labour being a significant part of any project...
- STÖRNCH InDuct also offers a number of benefits to the end user, which can be leveraged to give you an edge over your competition when quoting and tendering.
- HVAC accounts for up to 50% of a buildings annual energy usage. The STÖRNCH InDuct system offers ongoing decreased energy costs through maintaining consistent temperature, pressures and tightness, delivering not only cheaper running costs, but also a more sustainable impact on the environment and reduced carbon footprint. All told, the STÖRNCH InDuct system cuts CO2 emissions by 80% against standard production alternatives (from raw material and production fabrication through to improved transportation).
- Establish your company as an innovative, forward thinking company in the market place by adding STÖRNCH InDuct to your armoury of installation options. Coined as 'The Duct That Does More', give it a try on your next project and experience the benefits first hand for yourself...

LESS NOISE

Using InDuct, sound attenuation can almost be completely eliminated due to its acoustic properties

STÖRNCH INDUCT SYSTEM COMPONENTS



InDuct Pipe



InDuct 90° Elbow



InDuct 45° Elbow



InDuct Tee Piece



InDuct Sleeves



InDuct Connector/Adapter



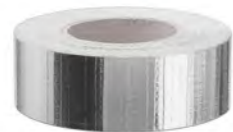
InDuct Transformer



InDuct Hanger Strap



InDuct Wire Clamp



InDuct Tape

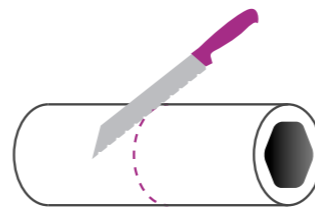


Washing Up Liquid

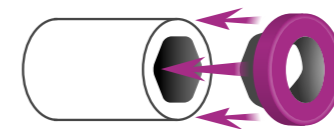


InDuct Soap Applicator

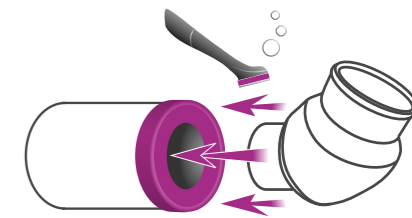
HOW THE SYSTEM WORKS



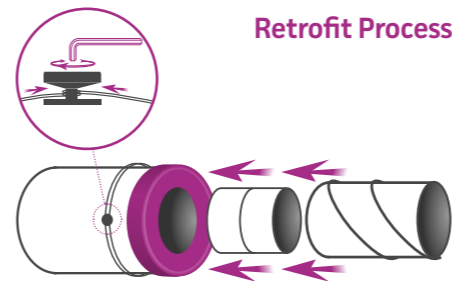
Cutting the InDuct



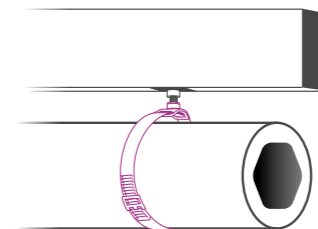
Attaching the Hex-Round Rubber Sleeve



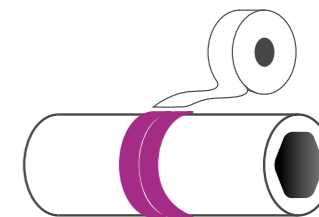
Lubricating the Fitting to connect to the InDuct pipe



Connecting standard spiral to InDuct pipe using Adapter and tightening with wire clamp



Fixing the InDuct using the Quick Click or standard mounting strap



Taping the joints using the special InDuct reinforced aluminium tape

TECHNICAL DATA

Air Tightness

SPECIFICATION:

Tightness Class – Class D
EN 1507:2006

SUMMARY:

Prevent Air Leakage with InDuct.
There are 4 classes of air tightness - Class A,B,C & D - STÖRNCH InDuct is rated to the highest possible classification you can make it at CLASS D, giving you a highly efficient system.



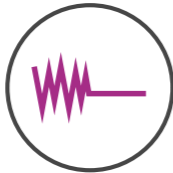
Acoustic Properties

SPECIFICATION:

Silence – Sound dampening
up to 6 dBA/m

SUMMARY:

STÖRNCH InDuct has huge natural sound dampening properties which can often completely eliminate the requirement for sound attenuators. Sound attenuation can often equate to up to 8-10% of the total ventilation project costs.



Fire Rating

SPECIFICATION:

Fire Classification – A2-s1, d0
EN 13501-1:2007+AL:2009
Non-Combustible

SUMMARY:

STÖRNCH InDuct has one of the highest fire classifications available with the smoke rating at the lowest and the dropping is zero in the event of a fire. A2,S1,d0 reference is Limited combustibility material Examples of classes for materials, surface linings, pipe insulation and cables. A1 (non-combustible material) A2-s1, d0 (limited combustibility material)



Sustainability

SPECIFICATION:

Sustainability – Over 80% CO2
savings. CR Ducts save on average =
8 kg CO2/m2. CO2 –neutral

SUMMARY:

Sustainability is increasingly important in buildings, such as schools, offices and retail spaces. Under BREEAM, tax benefits for creating more sustainable green buildings is an incentive for property owners and commercial landlords. In a recent installation, 7 tonnes of CO2 were saved by using InDuct over against steel spiral ducting, which has a major positive impact on the environment.



Space Saving

SPECIFICATION:

50% Lighter
Delivered Flat

SUMMARY:

There are a number of space saving benefits of the InDuct system - fitting into a standard size engineers van, storage on site and transportation, but also big space saving in the roof area. InDuct often allows the ceiling height to be considerably higher as the pre-insulated duct has a significantly lower profile and hanging system to the conventional lagged spiral system.



Health & Safety

SPECIFICATION:

Zero hot works
Lightweight with minimal itch
No sharp edges

SUMMARY:

InDuct has numerous health and safety benefits... InDuct requires no grinders or hot works eliminating fire risk. There are no sharp metal edges removing hand injuries and damage to finished walls and ceilings. Manual handling is another benefit of the system as it is so lightweight and comfortable to handle. Unlike standard lagging, InDuct is almost itch free due to its special formula





STÖRNCH InDuct - Available exclusively in the UK through Greenmill Supply Company
Contact Greenmill 01206 864 467 or email sales@greenmillac.com