

Grease Tightness Assurance

All access panels are confirmed to be grease-tight, preventing any leakage of grease-laden air. Each panel includes high-quality gaskets and secure fittings to ensure containment of grease within the ductwork, maintaining a sealed and compliant system.

Grease-tight sealing strategy, leveraging Lindab BT Butyl Tape, ensures the odour control system remains secure, compliant with standards, and capable of meeting the operational demands of a commercial kitchen environment.

To ensure the system's grease-tight integrity, **Lindab BT Butyl Tape** has been employed at all access panels and duct flanges within the odour control system. This choice supports reliable containment of grease-laden air and contributes to maintaining a clean, compliant kitchen environment.

1. **Sealant Properties:** Lindab BT Butyl Tape is specifically designed for air, dust, and moisture sealing, ideal for HVAC systems requiring robust and lasting grease-tight seals. Its **high tensile (40 N/cm²) and shear adhesion (12 N/cm²)** ensure it withstands operational pressures and potential vibrations without compromising the seal.
2. **Temperature Resilience:** The tape's service temperature ranges from -40°C to +90°C, with a short-term limit of up to +120°C, ensures it remains stable and effective even in high-heat conditions typical of kitchen exhaust systems. This resilience minimizes the risk of tape degradation over time, which is critical for maintaining grease-tight access points in such environments.
3. **Application Process:** To maximize the effectiveness of the tape, all surfaces are meticulously prepared by cleaning with isopropyl alcohol (IPA) to remove any grease or debris. The tape is applied directly from the reel, pressed firmly along the length of the joint to achieve optimal adhesion, then bonded with the backing surface to create a durable, continuous seal.
4. **Moisture Resistance:** The tape's low moisture vapor transmission rate (0.17 g/m²/24hr/mm) enhances its suitability for odour control applications by preventing moisture ingress, which could otherwise compromise grease containment and contribute to system inefficiency.
5. **Durability and Maintenance:** The Lindab BT Butyl Tape's flexibility and UV resistance allow it to conform to various surface profiles, preserving the grease-tight integrity of access panels over prolonged periods. This reduces the need for frequent reapplication and maintenance interventions, supporting the system's overall compliance and efficiency.



Sealants & Tapes

BT



Description

General purpose butyl tape.

- Good adhesion to a wide range of substrates.
- Highly conformable.
- Remains flexible throughout its service life.
- Good UV resistance
- Easy and accurate to use with little waste and no mess.

Instructions

Surface preparation: All surfaces should be clean, dry and free from frost, grease and loose materials. When cleaning contaminated substrates, HS Butyl recommend that propan-2-ol (IPA) is used and allowed to dry prior to the application of the butyl tape.

Application: Apply direct from the reel onto one surface and press sufficiently along its whole length to achieve good initial adhesion. Remove backing paper and offer other surface to the tape and push firmly to seal across the joint.

Performance

	Unit	Nominal Value	Test Method
Dynamic Tensile Adhesion	N/cm ²	40	H5
Dynamic Shear Adhesion	N/cm ²	12	H15
90 ° Peel Adhesion	N/cm	7	H48
180 ° Peel Adhesion	N/cm	8	H41
Specific Gravity	g/cm ³	1.7	H6
Moisture Vapour Transmission Rate	g/m ² /24hr/mm	0.17	ISO9932 / BS ISO 15106
Service Temperature Range	°C	-40 to +90	
Short Term Temperature Range	°C	+120	

Uses

- For sealing lap joints in roofing and cladding systems.
- For use as an air, dust or water seal for compression joints and seams.
- For sealing duct flanges in HVAC systems.
- For sound deadening applications, particularly in vehicle construction.
- For use as a water seal in various caravan construction applications.

Properties

Application temperature range: +5°C to +40°C
Shelf life: 24 months when stored flat in original packaging in cool, dry conditions.

Tolerances

Rectangular sections: Thickness $\pm 10\%$

Width: up to 25mm ± 1 mm
26mm to 100mm ± 2 mm
over 100mm ± 3 mm

Bead sections: Thickness $\pm 10\%$ Width $\pm 10\%$