





To all our valued customers

PK Kanavat Oy has been a trusted partner since 1988, providing high-quality and durable solutions for ventilation and smoke extraction ducting. Our location in Pieksämäki offers excellent transport connections across Finland, enabling smooth and reliable deliveries. With our efficient logistics, every product reaches its agreed destination on schedule — an essential part of the service we proudly provide.

“We are a respected & trusted partner”

Our services include custom-made **SmokeDuke®** smoke extraction ducts and ventilation ducts. We also manufacture machine rooms, sheet-metal moldings, and a wide range of other sheet-metal products. Our core expertise lies in delivering tailored solutions that meet the specific requirements of each customer. In addition, we provide on-site measurement services and offer rental of **Lindab LT600** air-leakage testing equipment. Our customers include HVAC duct contracting and installation companies throughout Finland.

We place strong emphasis on reducing the carbon footprint of our products by utilizing factory by-products and waste materials more efficiently. In line with our sustainability program, we carefully consider environmental impacts and provide our customers with responsible, long-lasting solutions.



“We know every product that leaves our factory and understand exactly how it will perform once installed.”

Rectangular ducts, components, elbows, S- and T-pieces and smoke extraction ducts:

Our rectangular ducts, parts, components, and other products - including bends, S-pieces, and T-pieces - are manufactured according to the same demanding quality specifications as our CE-marked **SmokeDuke®** smoke extraction ducts.

Our products incorporate CE-marked combustible materials, M1-classified acrylic materials, as well as CE-marked sound, heat, and fire-insulation wools and fasteners.

Certificates are available upon request. **SmokeDuke®** smoke extraction ducts - together with their parts and components - comply with the requirements of the European harmonized product standard EN 12101-7:2011 and its referenced standards. The CE marking ensures harmonized manufacturing practices, supports the use of appropriate construction solutions, and facilitates product comparison and trade within the EU.

The **SmokeDuke®** smoke extraction ducts manufactured by PK Kanavat Oy represent our commitment to quality at the highest level. You can rely on the seamless compatibility of our products with CE-marked solutions from other manufacturers.

SmokeDuke® smoke extraction ducts are certified for horizontal installation. Currently, no CE marking exists in Europe for vertical installation. As a result, approval for vertical installation must be obtained on a site-specific basis.



Engine room components and ventilation ducts

**We manufacture engine-room components
according to our customers' specific requirements.**

In manufacturing, we use high-quality materials.

- Zn (Galvanized)
- Zn 1.25 mm
- CRES (acid-resistant steel)
- SS (stainless steel)
- AL (Aluminium)
- Color sheets (RR - according to Ruukki's color shades)
- Magnelis (corrosion resistant coating)





Collector box.

Photo: Pieksämäki Veturitallit

Properly manufactured ventilation ducts ensure that the ventilation system functions correctly and that general building regulations are adequately met.

Ventilation ducts are manufactured according to their intended use and can be supplied either insulated or non-insulated. For insulation, we use thermal, fire, and/or sound-damping materials.

Thermal insulation reduces energy consumption and operating costs.

Sound-damping insulation lowers noise generated by air-conditioning units and airflow within the duct system.

Fire insulation enhances safety by slowing the spread of fire.



Photo: One of the Pieksämäki Veturitallit engine rooms

Rectangular ducts

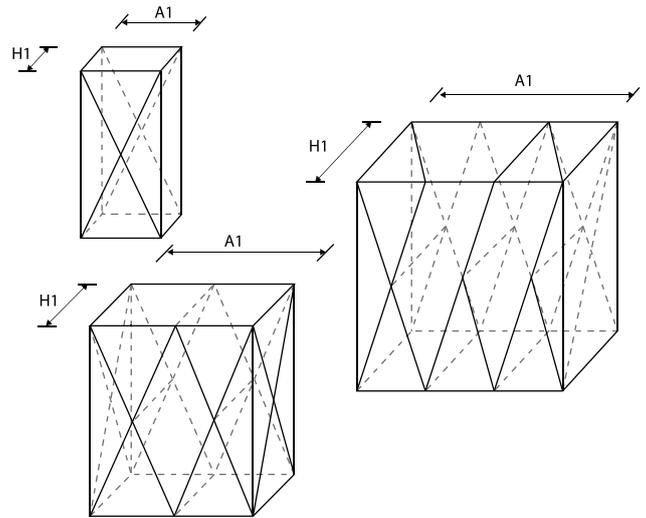
Uninsulated rectangular duct

Sheet metal thicknesses

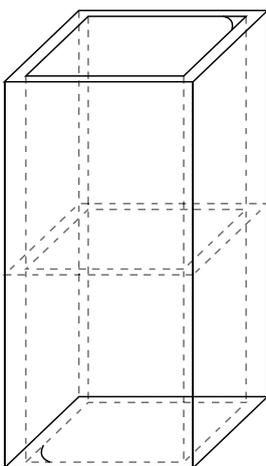
| | |
|--------------------|------------|
| Wider side of duct | Thickness: |
| 800 mm | 0,7 |
| 801 mm | 1,00 |
| Greaseduct | 1,25 |

Stiffening

| | Piece | Length of side A1 |
|--|-------|-------------------|
| Cross-beaded stiffener | 1 pcs | 400 - 800 mm |
| | 2 pcs | 801 - 1600 mm |
| | 3 pcs | 1601 - 2400 mm |
| Support rods in the middle of the duct | 1 pcs | 600 - 800 mm |
| | 2 pcs | 801 - 1600 mm |
| | 3 pcs | 1601 - 2400 mm |
| Support rods at the end of duct | 1 pcs | 1100 mm |
| | 2 pcs | 1601 mm |

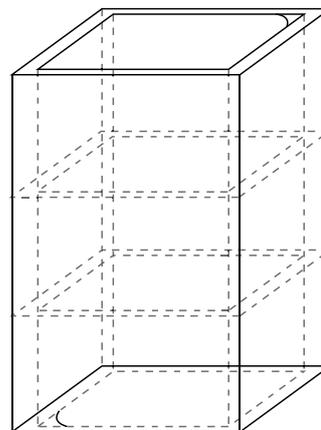


Stiffening of insulated rectangular ducts and components



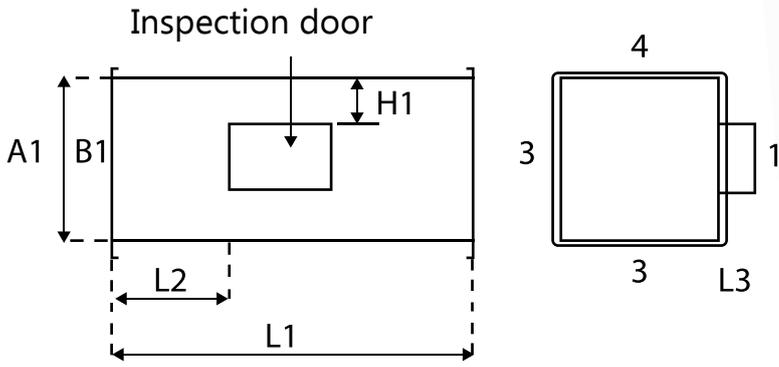
Internal duct dimension
400 - 800 mm / or sheet area
0.8 - 1.6 m²

- 1 support
- 1 corner support for both ends with the cross-section 0.5 to 0.99 m² or e.g. when size 600x600 mm and 700x700 mm.



Internal duct dimension
800 mm / or sheet area
1.6 m²

- 2 supports
- Two corner supports to both ends with the cross-section 1.0 m²

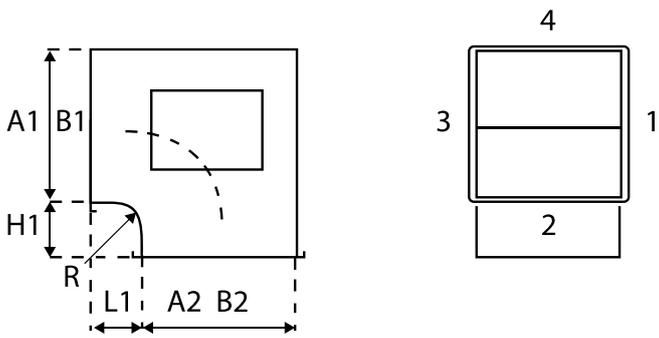


Inspection door

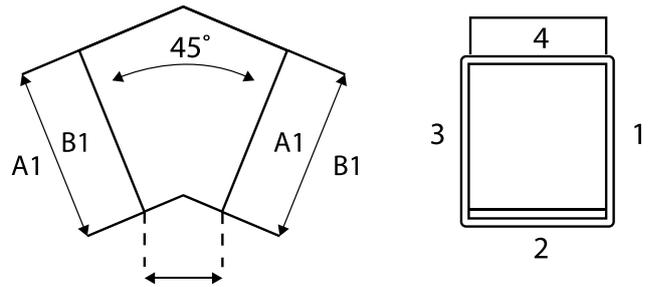
Please note when ordering:
The door is placed on the center line of the duct if H1 is not indicated



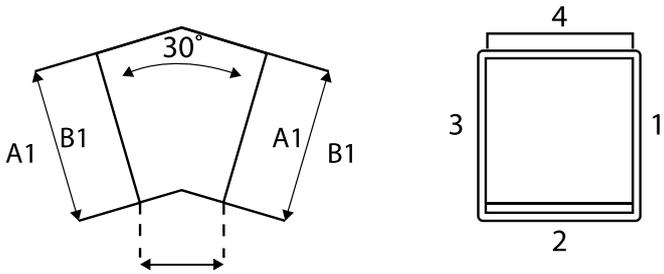
Elbows



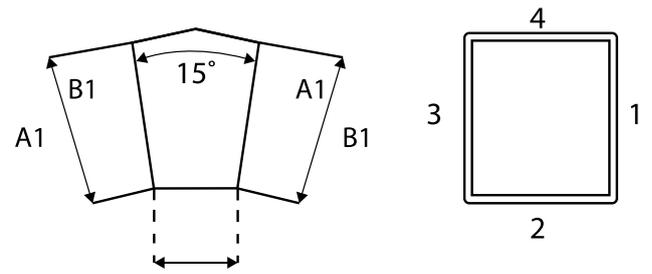
Elbow 90°



Elbow 45°



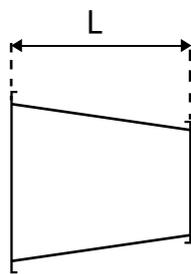
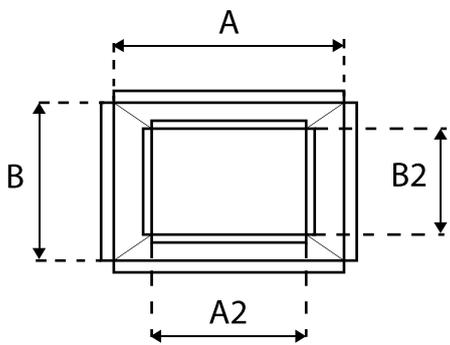
Elbow 30°



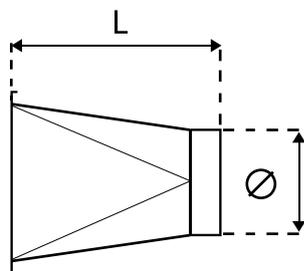
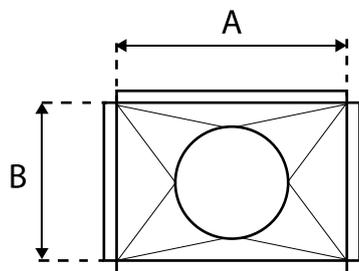
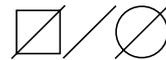
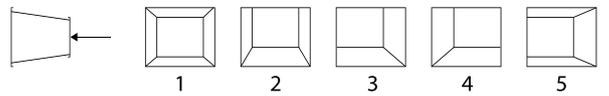
Elbow 15°



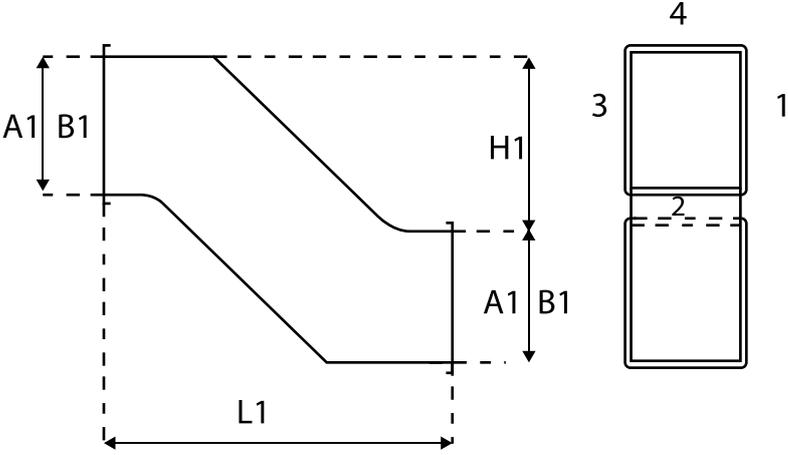
Reducer



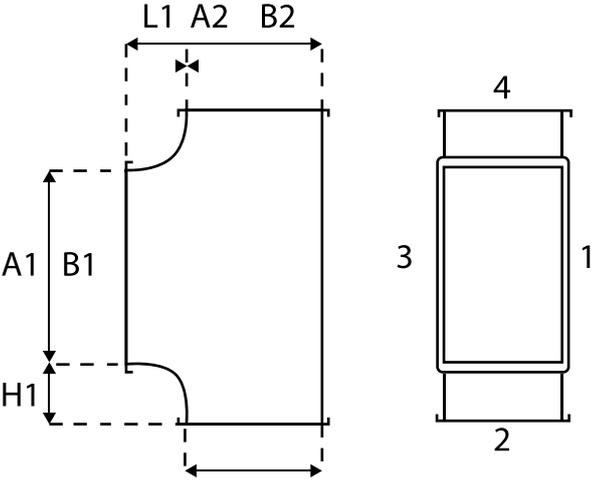
Location



S-and T-pieces



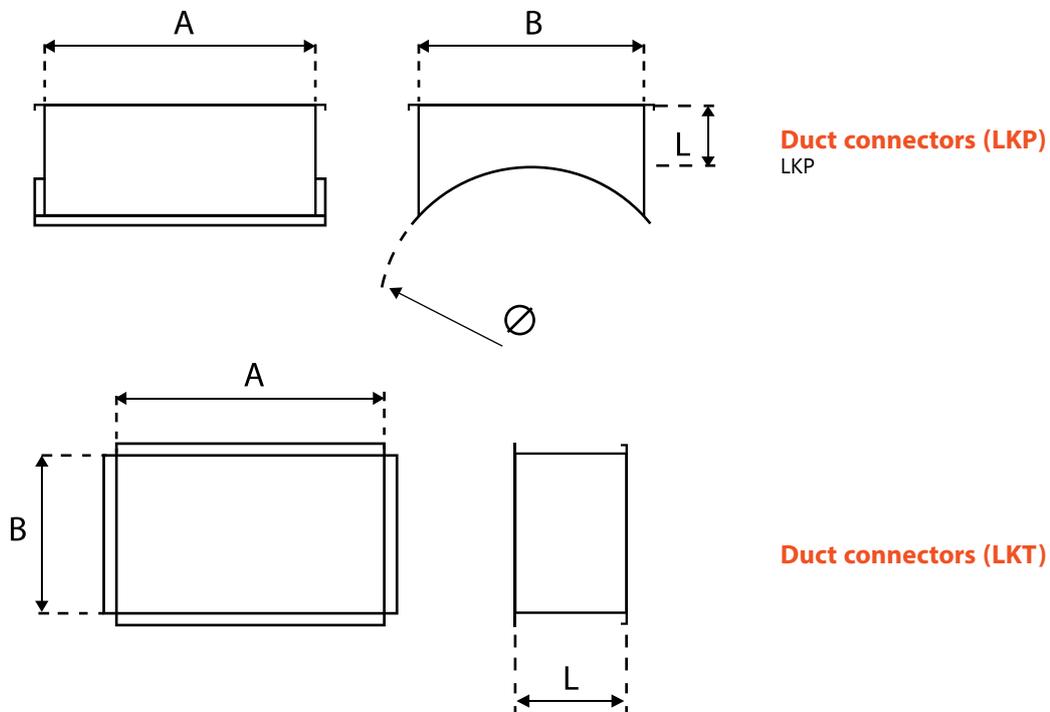
S-Piece



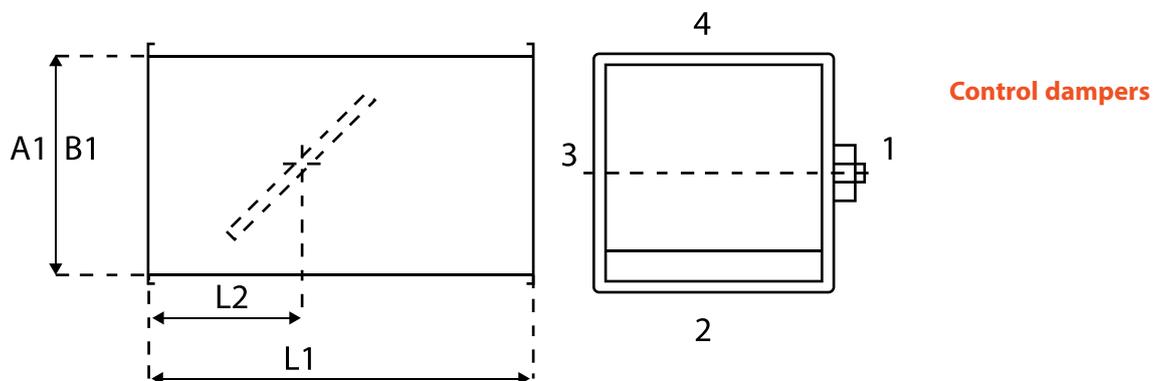
T-Piece



Duct connectors



Control dampers



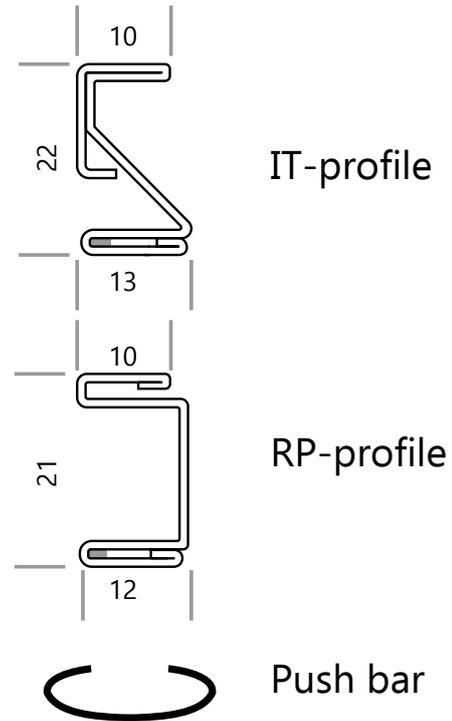
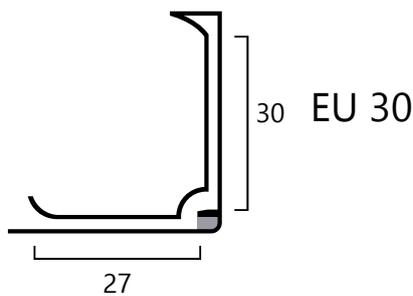
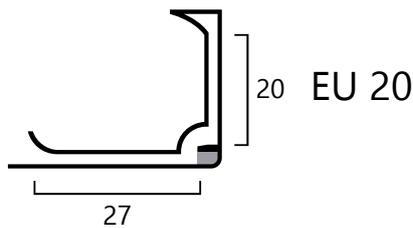
Flange profiles and abbreviations

CONNECTIONS

IT IT list attached
IT+- IT list attached and one end open
RP RP profile attached
EU Eurolist attached
NK Rivet collar
PP Beam head (no profiles)

IT+ITS IT list attached, one detached
IT+UP IT strip attached, one dead end
RPS The RPS list is included separately
EUS Included separately from the Eurolist
NKS Rivet collar inwards
ITP IT terminal

FLANGE PROFILES



Construction sheet metal strips

Both public and private construction projects require the installation of specific construction sheet-metal strips. These elements not only enhance the appearance of a building but also serve important technical functions and are commonly required in all types of construction.

Examples of construction sheet metal strips:

- ▶ window slats
- ▶ door moldings, kick plates, eaves moldings
- ▶ chimney caps and dampers
- ▶ oven and fireplace front panels
- ▶ various protective metal sheets and snow barriers



