

Installation instructions, VENT

Type approval No: 1666/78



VENT duct system installed according to this instruction is approved as seal class D.

For the approval to apply, all component parts must be covered by the applicable certification agreement and be marked.

The marking must contain a logo, place/county, trident mark, certifying company and certification number.

Parts without certification markings may only be used to a minimum extent and must be installed under close supervision of the supervisor. Exceptions from requirements for certification marks are normally allowed for connection parts for supply and exhaust air devices, end equipment and components for adapting to the building. Note that such components should not normally be included for pressure testing of the duct system.



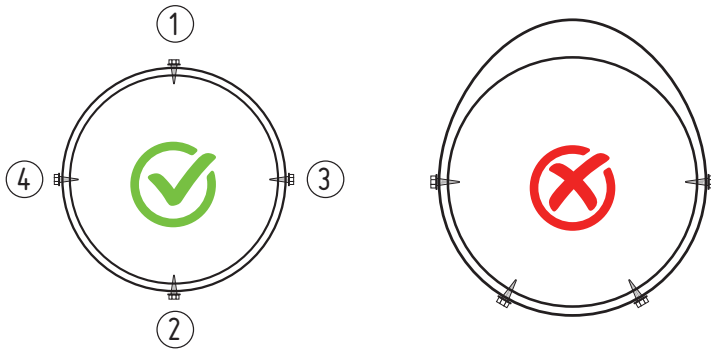
1. Check that there is no damage to the material that can affect the seal of the assembled duct system. Damaged components must not be used. Initially check the sealing ring and roundness of parts.
2. Cut the pipe vertically. Use a fixed blade to ensure a vertical cut. Remove any burring from the cut.
3. IF POSSIBLE, ASSEMBLE all the relevant sections on the floor. Pipes and components are most easily assembled using a slight twisting motion. Components are slid into the retaining edge. Check that the seal strip edges are straight out. If assembly on the floor is not practicable, work in the same way directly at the installation location.



The joints are then locked with approved fasteners according to the following table to achieve the sufficient seal. Achieving sufficient strength often requires more fasteners than stated below. Use sharp sheet metal screws, screw with a reduced shank drill bit or pressure-sealed blind rivets. Note that local authorities can prescribe what type of fasteners are to be used.

Dimension \varnothing	Min. number of fasteners/joints
63 - 160	3
200 - 315	4
400 - 500	5
630	6
800 - 1000	8
1250	10

- The locks are placed evenly around the duct, take special care to ensure that the gap between pipe and component is as even and small as possible. For example, screw in order around the clock face: 12-6-3-9. If they are not secured using the "clock principle" there is a risk of skewing, which will result in significant leakage.



Take great care that fasteners are not applied so close to sealing rings that there is a risk of damaging them. Thoroughly seal all holes after taking measurements and after removing screws or blind rivets on parts that will be reused.

- It is important that the ventilation (duct) system is installed in the correct way so that the system is held in place, can take the weight and withstand the effects of fire. It is also important to install it correctly to avoid leakage in the system. We follow Boverket's (BBR) (National Board of Housing, Building and Planning) regulations and the system must be installed in accordance with SS-EN 12236:2002, Ventilation for buildings. Ductwork hangers and supports. Requirements for strength. Air treatment installations must be positioned, shaped and hung so that the protection against fire and gas spreading between fire cells is maintained. Read more under chapter 5:533 in BBR.
- Installations must be suspended in such a way that items such as silencers can be removed for cleaning/replacement without damaging either the item or the pipes.
- Suspension supports for circular ducts – Mounting distances uninsulated/heat insulated ducts must be carried out taking into account the strength of the suspension system in accordance with SS-EN 12236:2002 (the standard does not cover fire protection or fire requirements).
For ventilation ducts that do not make up part of the building's protection against the spread of fire and fire gas the suspension supports must meet at least the carrying capacity of R=10 min. at 300°C.
The suspension supports must have a safety factor of at least 3 in accordance with SS-EN 12236:2002.
- BBR (Boverket's Building Regulation) must be followed during installation. The rules for suspending ventilation systems are under chapter 5:533.
Before installing you must establish which fire safety class applies to the building. Using dimensions and any insulation you can then dimension your suspension installation.
Points 5-8 apply to the Swedish market. Check what regulations apply to your country before dimensioning and suspending.

Nälden, 17/05/2021