



**NORD**rect

Rectangular ducts - Installation instruction

NORDrect - rectangular duct system's duct and part measurements are based on the standard EVS-EN 1505:2001 unless otherwise indicated.

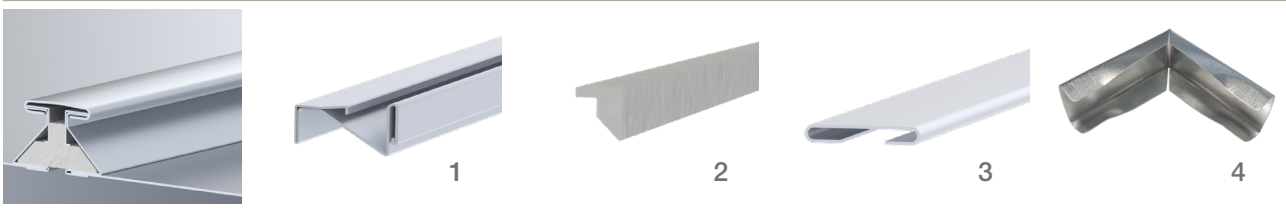
Generally NORDrect system is used when round ducts are not suitable because of cramped spaces.

## Installation

### 1. Preliminary operations

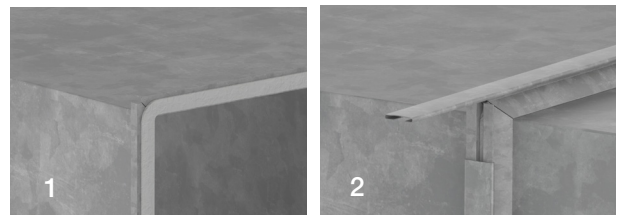
- Before commencing ensure that the installation location corresponds to the design drawings and check that the installation of ductwork is possible according to the drawings before delivering system components.
- Stock necessary ducts and system components in a closed area of the installation place and protect them from atmospheric impacts.
- Ensure that ducts and other components are not damaged in a way affecting their density.
- Use of damaged parts must be avoided.

### 2. Connection of duct components



#### Connection of the z-profile

- Install the seal (2) on the z-profile (1).
- To achieve tightness, the seal must be installed in one piece and the connection point must not remain to the corner. The seal must also not be stretched.
- Align the duct sections to be connected and connect them with a sliding profile (3). To push sliding profile in place, use wooden hammer or special device meant for it.
- For decorative purposes and to cover the ends of the z-profile, the outer corners (4) can be used if necessary. External corners do not affect the tightness or strength of the connection.



### 3. Supporting of air ducts

Air duct supports must ensure safe support for loads of ducts, insulation, duct equipment and smaller extra loads, i.e. occurring during maintenance, repair and construction works. Positioning of supports should not obstruct maintenance and adjustment or make them more complicated.

1. To support and fasten rectangular horizontal duct, use threaded rods, installation rails, nuts (if necessary) and washers.
2. The distance between the supports of the rectangular duct, regardless of its dimensions, must not exceed 2500 mm.
3. Place the supports as close to connection as possible, not more than 500 mm away from it. There should never be more than one duct connection between two supports.
4. Attach ductwork on supports. Adjust the installation height as required.
5. Sealing material should be flexible, non-aging.

## Maintenance

Ventilation systems should be regularly and properly cleaned from anything which may contaminate the air. Cleaning works have to do on a regular basis by the holder of the object by the deadlines set and in accordance with fire safety requirements. To clean the ventilation ducts there must be maintenance doors in appropriate locations. Locations of maintenance doors must be chosen so that the cleaning work can be done easily and safely.



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*Let's move the air together!*