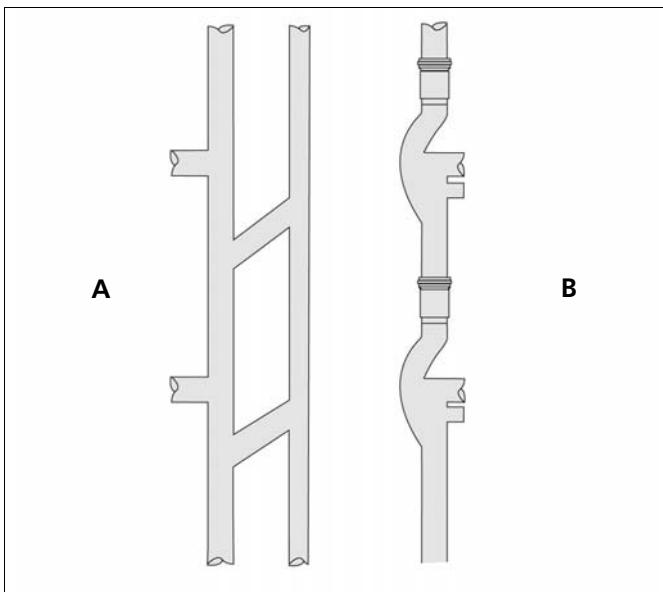


1.2 Soil and waste systems for high-rise

Because skyscrapers are designed evermore extreme, a single stack soil and waste system offers you the possibility to aim higher.

Today, whether a consultant or installer, you need drainage solutions capable of responding to the commercial challenges faced by your clients. Akatherm soil and waste systems for high rise offer the following advantages:

- Saving space that can be used for other installations or as usable space for the occupants of the building
- Higher flow capacity of the stack
- Less installed cost by a welded plastic (HDPE) pipe system with low weight.
- Full peace of mind from a sophisticated risk management system


A
Traditional stack with vent pipe

- Two stacks
- Limited in height
- More dimensions and fittings
- One connection per floor
- High speed

B
Akatherm system with akavent aerator

- Single stack system
- No limits in height
- One diameter and limited number of fittings
- Multiple connections per floor
- Low speed

Elements of the system

The Akatherm soil and waste system for high rise consists of the following elements:

1. Akavent aerators on each floor with the 3 horizontal branches $d_1 = 110$ mm and 3 horizontal branches $d_1 = 75$ mm.
2. A stack made of standard Akatherm pipe and fittings sized by fixture unit load.
3. A de-aerator assembly at the bottom of the stack to make a transition to the general sewerage drain possible.
4. Relief vent where the stack is offset over a distance greater than 45°.

Akatherm soil and waste system for high rise buildings have no height limitation, and sizing is determined solely on the number and type of fixtures connected.