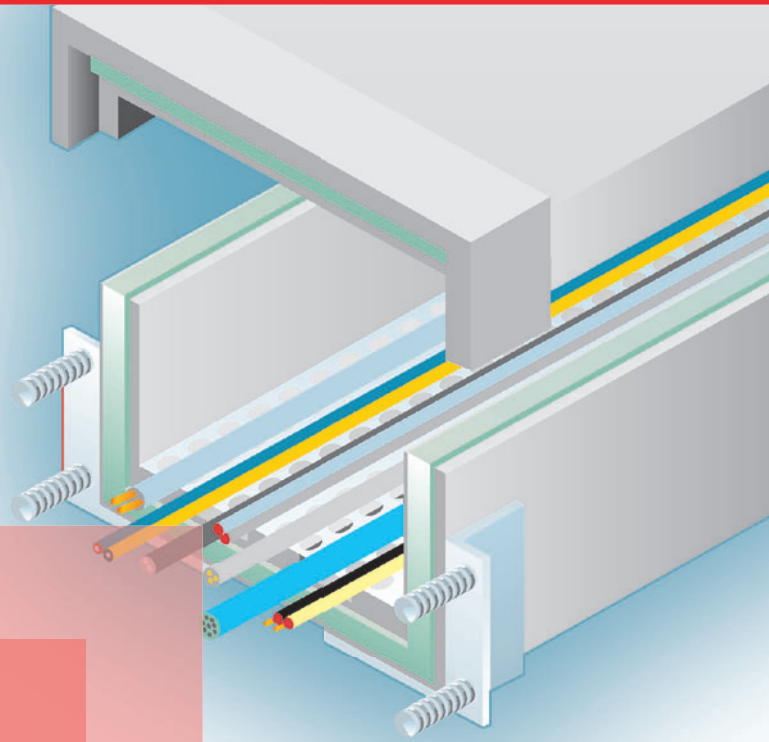


**aestuver**



AESTUVER

## Pre-assembled fire-resistant cable ducts

**xella**

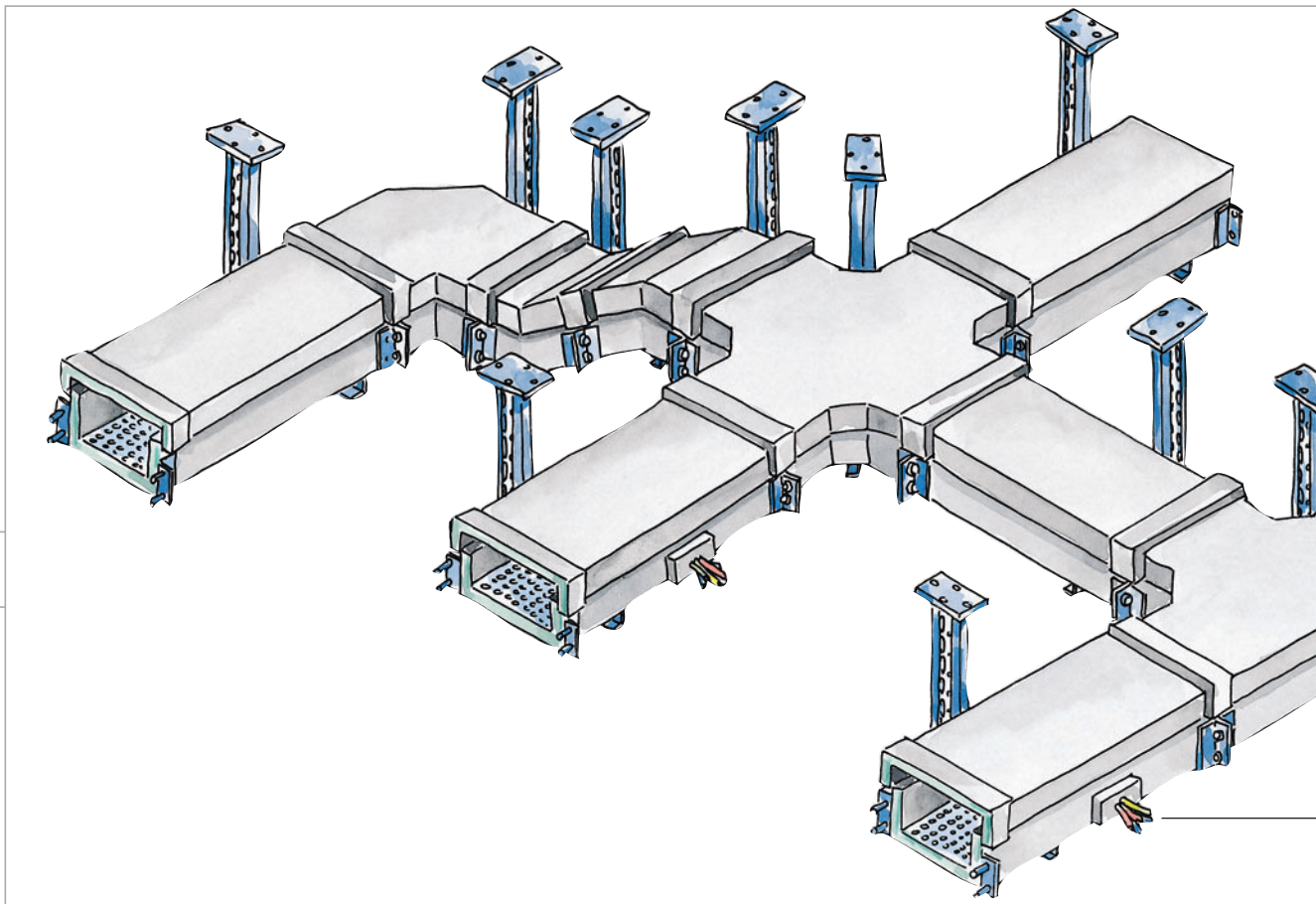
# AESTUVER fire-resistant cable ducts, safe from the very start!

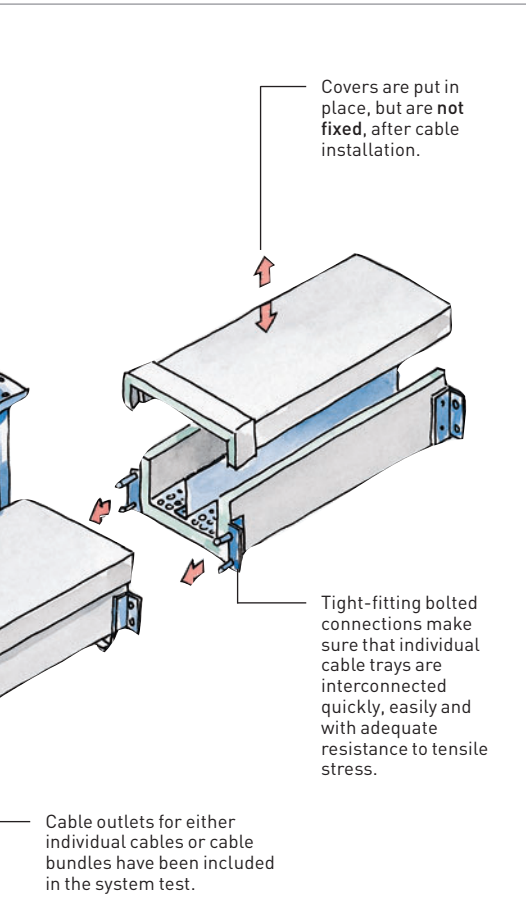
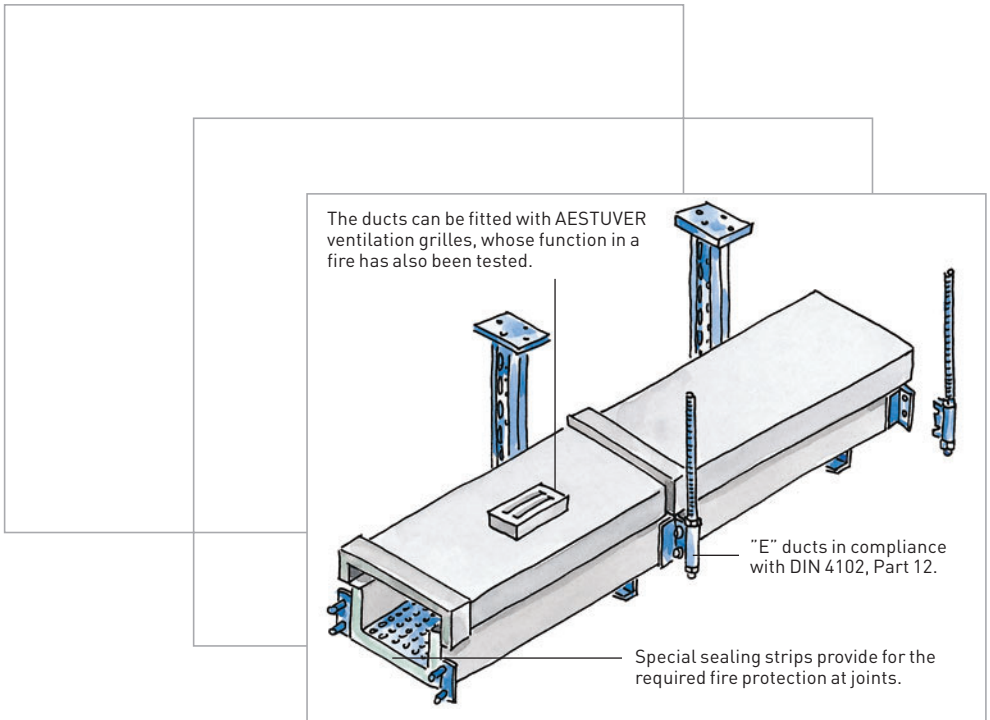
When fires spread to cable systems, this normally not only produces dense smoke, but also highly toxic gases. Escape and rescue routes can in such cases turn into deadly traps within a few minutes, and it may become difficult, if not impossible, for rescue teams to do their work.

AESTUVER fire-resistant cable ducts prevent such situations. They keep rescue routes smoke-free and make sure that the integrity of systems with vital functions for building safety are maintained even in the event of a fire.

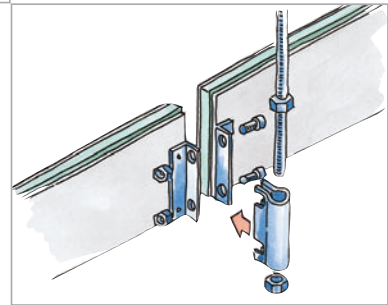
**Added safety and reliability.**  
**DIN-tested fire protection.**  
AESTUVER fire-resistant cable ducts have been tested in compliance with DIN 4102, Parts 11 and 12. The official materials testing institute at the IBMB institute of the Braunschweig Technical

University has subjected the cable ducts to an extensive test programme for that purpose. General building code test certificates and expert reports certify that AESTUVER fire-resistant cable ducts provide a high degree of safety in the event of a fire.





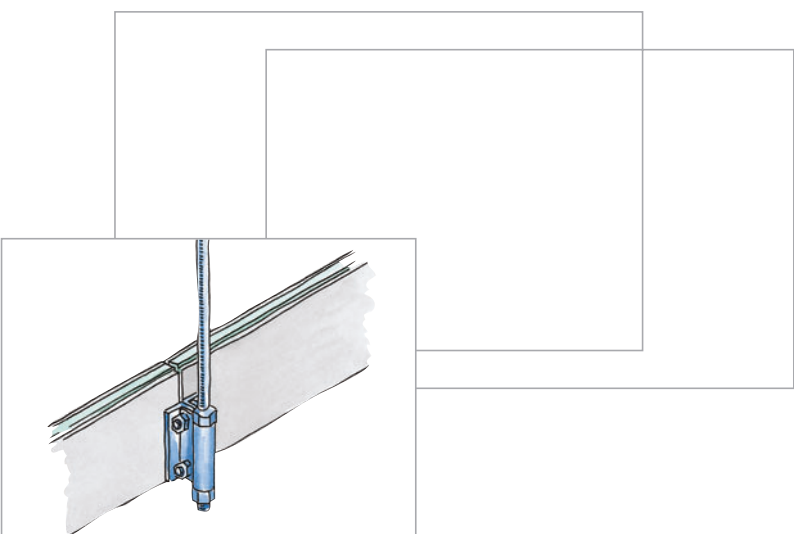
**- Cover not fixed.**



**AESTUVER fire-resistant cable ducts come in two different versions:**

- The fire-resistance class I 30 – I 120 design prevents cable fires from spreading to rescue routes, and it helps contain the highly toxic smoke normally produced as a result of such fires.

- The fire-resistance class E 30 – E 120 design makes sure that fires cannot spread into the cable duct. This keeps temperatures inside the duct low and prevents the risk of short circuits or power failures. "E" ducts have to be provided wherever the integrity of safety-specific systems has to be maintained in a fire. Such systems could be fire detection installations, emergency lighting, or firefighter elevators.



**"E" ducts designed to DIN 4102, Part 12, have to have both sides of the duct suspended. The patented AESTUVER threaded-rod adaptor and threaded rods meet this requirement.**

**Added safety and planning flexibility.** AESTUVER fire-resistant cable ducts are made from water- and frost-resistant glass-fibre reinforced lightweight concrete boards. The straight duct sections and shaped parts are light, but sturdy, and their surface is abrasion resistant. This makes AESTUVER fire-resistant cable ducts an ideal solution in almost any situation.

A wide range of shaped parts provides for highly flexible planning. The perforated tray, mounted on spacer bars, safeguards continuous ventilation inside the cable duct and allows commercially available separator elements to be mounted without any problems.

**Added safety and ease of installation.** AESTUVER fire-resistant cable ducts are supplied in a pre-fabricated state and made available "just in time" for installation. They can thus be fitted within a short time. The system of AESTUVER fire-resistant cable ducts also allows any divergence between plan and reality to be corrected on the spot.

The straight duct sections, as well as the shaped parts, are mounted on commercially available hangers that include brackets or wall brackets.

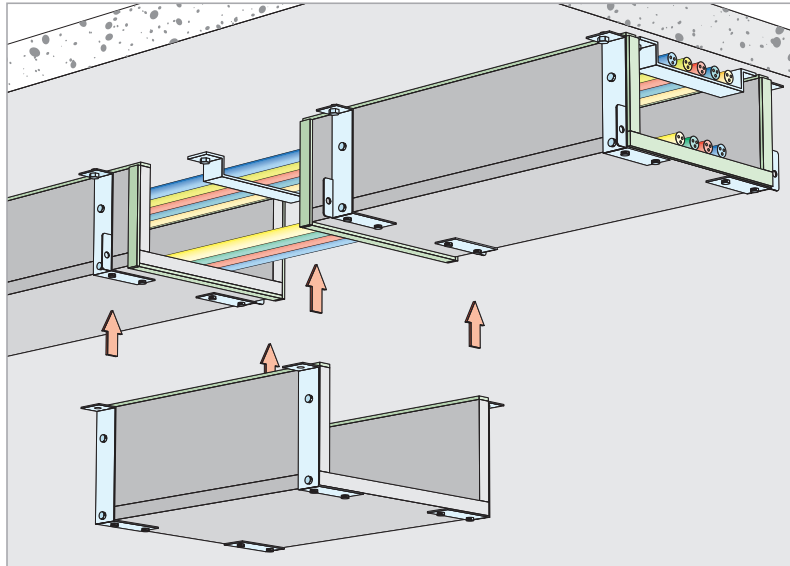
AESTUVER fire-resistant cable ducts E 30 – E 120 are installed in the same manner. The need to additionally secure points of suspension is met by the patented AESTUVER system. For cable installation, this offers clear advantages over conventional suspension systems using channel sections and threaded rods. Once all the cables have been laid, the duct covers are supplied – also on a "just-in-time basis" – and put in place without being secured in their position.

**Added safety for inspection and servicing.**

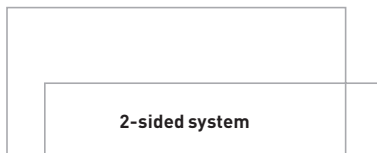
Since AESTUVER fire-resistant cable ducts do not have their covers fixed in place, additional cabling can be installed at any time. This feature also provides for easy inspection of the system.

# Approved safety for direct wall, ceiling or underfloor installation.

Many different options are also available for subsequent protection of existing cable installations.

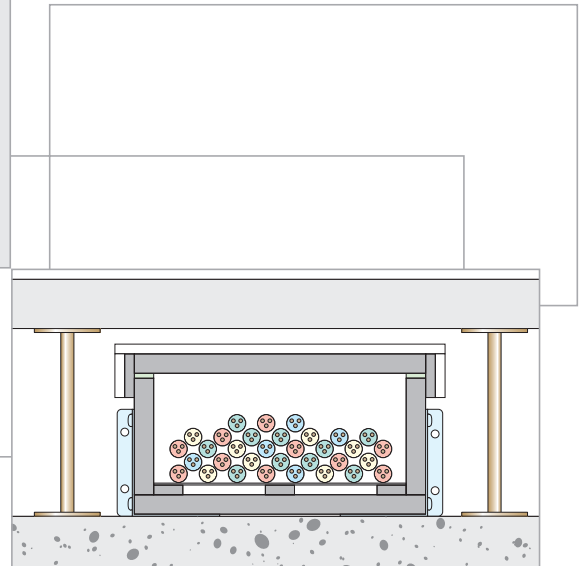
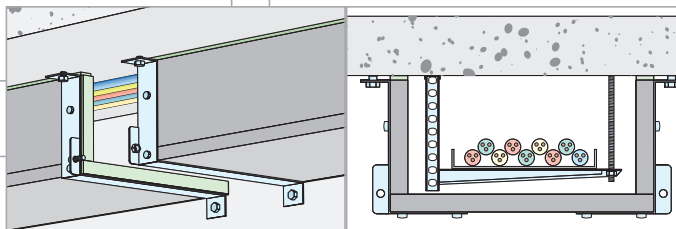


3-sided system with inspection opening



2-sided system

3-sided protection



Underfloor installation

AESTUVER fire-resistant cable ducts can come as 3- or 2-sided prefabricated cable duct systems upon request. With the aid of purpose-made connectors, these cable ducts can be mounted directly on either walls or ceilings. Specially designed elements are available for inspection purposes.

The 2- and 3-sided versions of AESTUVER fire-resistant cable ducts also meet all safety standards for fire resistance classes I 30 – I 120 and E 30 – E 120.

## Advantages at a glance.

- AESTUVER fire-resistant cable ducts are prefabricated from glass-fibre reinforced light-weight concrete boards.
- AESTUVER fire-resistant boards are light and sturdy, water- and frost-resistant.
- Tight-fitting bolted connections allow duct sections and shaped parts to be mounted quickly and easily, and with adequate resistance to tensile stress.
- They are supplied "just in time", ready for installation.

- Loosely fitted covers or inspection elements permit system inspection and subsequent cable installation at any time.
- The perforated system tray (mounted on longitudinal spacer bars) provides for installation of separator elements, as well as continuous cable ventilation.
- AESTUVER fire-resistant cable ducts offer excellent solutions to even highly complicated installation requirements.

Subject to technical modification. Issued: 09/2005  
The most recent issue shall have effect.  
Please call us, should you find any information to be missing in this issue.

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