

Function retention without compromise

ESF-E30 as wall or standing alone cabinet

Type	ZB-S		ZB 96/EURO ZB.1	
	ESF-E30/13-S Wall cabinet	ESF-E30/28-S Standing alone cabinet	ESF-E30/17 Wall cabinet	ESF-E30/28 Standing alone cabinet
Fire protection data				
Fire exposure from the outside (min.)	30			
Maximum air moisture beyond 30 min. (%)	40	47	40	47
Maximum air temperature increase acc. to EN 60439-1 (K)	13	15	13	15
Weight (kg)	235	388	235	388
Noise pressure level (dB)	46	60	46	60



• Line partition

Easy insertion of the lines trough prepunched roof sheeting:

- 26 x M25 (60 x M25 standing alone cabinet)
- 8 x M16
- 4 x M40

• Line cooling room

Substantial measurements at different burn tests showed that heat and humidity permeate through the lines into the fire protection cabinet. Temperatures on the lines are up to 50% higher with direct insertion than with line cooling section.

Furthermore, the chemically adhered water in the isolation of the lines condenses at the roof of the fire protection cabinet. The dripping water can cause failures in the electronics. The cooling room avoids unduly high heat and humidity entry via the lines.



• Cross point closing

For supply cabinets with functional endurance the closeness of the enclosure is a significant matter for the construction. The equal grip of the cross point closing guarantees optimal closeness. Even a door left open by mistake as with separate sash fasteners can thus be avoided. A further advantage is that the rotary lever handhold is able to adjust all standardised profile half cylinders so that project-specific closing can be realised.

• Technical aeration

Supply cabinets with functional endurance in the event of fire must protect the embedded equipment from temperatures of up to 850° C. Among others, a suitable insulation body can provide this. What in the event of fire protects the electrical equipment can in normal operation cause problems due to the emerging loss heat of the electronics. The heat transmission value of a supply cabinet with function endurance compared with a normal sheet steel cabinet is 3:1. To conduct the loss heat, the supply cabinet must be aerated. Herewith, the aeration may not affect the fire protection behaviour of the enclosure.



- **First electrical distributor with functionality** and integrated electronics for safety lighting installations via higher-level fire area installation approved by the German Institution for Structural Engineering (DIBT)
- 30 minutes functionality with external fire exposure according to DIN 4102-2
- No approval required from the construction supervision authority in individual cases according to the building regulations
- Tested under realistic conditions, including ventilation

- Humidity and inside temperature under the required limit according to EN 60439-1 and EN 50178
- Technical ventilation
- Central crosspoint closing suitable for profile half cylinder
- Integrated cable cooling room
- Robust sheet steel housing
- CE-conform

Supply cabinet with functional endurance



The test set-up shown below only tests a fire protection cabinet/termination box. A statement as to whether the integrated electronics remains functional during a fire is not effected herewith.

Fire protection cabinet with functional enclosure for lines

