

# FIRE KIT



## KESSEL ECOGUSS FLOOR AND ROOF DRAINS

HIGHEST FIRE PROTECTION STANDARDS

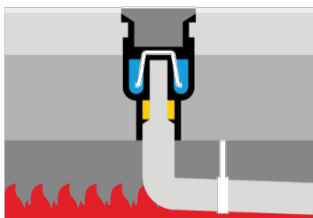
Modern vehicles present a greater fire hazard than ever before. To address that risk, experts are taking a new look at the design and safety elements of parking garages.



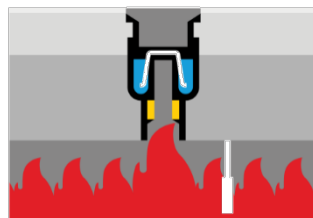
*“Like many garages, the car park was equipped with drainage on each floor. About two hours into the fire, the drainage melted away, allowing burning fuel to rain down freely through the drainage slot onto vehicles parked on the floor below. Meanwhile, the slot on the floor overhead acted as a vent that carried super-heated gas and smoke to the vehicles above.”*

### Fire-Kit & Quick-Fit: fire protection for KESSEL drains

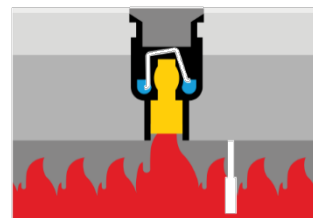
In case of fire, water outlets constitute a risk, as the fire can pass through the discharge pipes and spread to other parts of the building. Kessel drains can be equipped with the Fire-Kit fire protection and Quick-Fit passage seal. As soon as fire penetrates the drain body, the fire protection compound inside it swells automatically and seals the pipe socket against flames and smoke.



Fire burns all exposed plastic pipe. The flames then reach the outlet of the drain body.



The odour trap built into the drain body combines with sealing water to prevent smoke and gas reaching upper levels of the building.



The Fire-kit fire protection insert expands due to the heat and completely seals off the openings in the concrete floor, preventing fire from spreading to the floor above.



## Variable Upper Sections

Extremely flexible with choices of fixed, rotatable, tiltable, and height adjustable upper sections. Includes options for parking decks and roof drains.



### The best of both worlds: Project Drains made of *Ecoguss*

Resistance, convenience, cleanliness – all these are offered by *Ecoguss* – Kessel's high-tech composite.

*Ecoguss* is three times lighter than cast iron, temperature resistant, chemical resistant, and highly resistant to mechanical loads. In addition, *Ecoguss* does not corrode and is extremely hygienic – thanks to its smooth, coating-free surface.

*Ecoguss* drains can be installed without time consuming electrical grounding work and are also suitable for connection to SML (flanged) pipes.

### Highest Fire Protection Standards

Different fire resistance classes in accordance with DIN 4102 are prescribed depending type of building and installation location. The number value of the fire resistance class specifies how long a tested component must be able to withstand a fire in minutes. The fire resistance classes relevant for floor drains are:

- F30 ("fire retardant")
- F60 ("highly fire retardant")
- F90 ("fire resistant")
- F120 ("highly fire resistant")

Both *Fire-Kit* and *Quick-Fit* fulfil fire resistance class R120 for pipe penetrations.

