

## Installation shaft liner

### Scope of application

### Installation work of manhole liners on construction sites

#### Dangers for humans and the environment



- Explosive atmosphere
- Danger of suffocation
- Danger of falling
- Risk of drowning and infection
- Danger due to electrical voltage
- Hazards due to pressurised media / flying parts



#### Protective measures and rules of conduct



- Secure access areas of shafts against unauthorised entry and fall hazards. Secure the construction site in accordance with the STVO.
- All open shaft entrances, even those not being worked on, must be secured against persons falling.
- To avoid deflagration, make sure that the UV light chain does not touch the liner when it is inserted.
- Make sure that no unsecured materials or tools can fall into shafts and injure people.
- When handling compressed air, ensure that hoses, connections and maximum permissible pressures are intact. Secure the packer against loosening/spinning out - it is imperative to keep a safety distance of 1.5m. Considerable risk of injury! Only use suitable lashing equipment!
- Before entering and during the work, constant clearance measurement is required!
- Before use, check the treads of climbing steps for surefootedness.
- For the rescue of persons climbing in, the rescue harness/arrest harness must be put on before the person climbs in and there must be a permanent connection to the rescue lifting device. If there are urgent reasons not to do so, other measures must be planned to enable rapid rescue.
- Only use electrical systems and devices that are suitable and tested for the application. In particular, make sure that the equipment is explosion-proof.
- Use suitable pipe shut-off devices. The local boundary conditions and the manufacturer's instructions must be observed.



#### Behaviour in the event of malfunctions and in the event of danger

Stop work if deficiencies are found or suspected and notify the nearest supervisor. Ensure the rescue chain at all times (alert rescue services). When working in shafts, ducts or confined spaces, a safety guard must generally be deployed.



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#### Behaviour in case of accidents, first aid



**Basically: Keep calm, secure the accident site, rescue the person from the danger zone if necessary, observe personal safety.**

- Providing first aid, summoning help
- Inform first aiders
- Make an emergency call
- Report accidents, near-accidents to the supervisor or his representative immediately.

Always record the first aid performed in the first aid book.



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#### Maintenance, disposal



- Check the function and safety devices before each start-up!
- Follow the manufacturer's instructions for maintenance and care!
- Repairs may only be carried out by qualified personnel!

