

Floor Pit 2

01/2008

Distributing energy – safely and efficiently

Energy



efficiently
and
discretely

Custom made solutions

Overview of Floor Pit systems

GIFAS Floor Pit systems – withstands foot and vehicle traffic during operation !

- The GIFAS underfloor distribution systems work maintenance-free operationally in a safe closed condition.
- The GIFAS underfloor systems PIAZZA and CAMPETTO offer a distribution system within the range of mechanics for maintenance-free power, water, compressed air and data connections from the soil.
- Underfloor distribution systems have to function due to the structural conditions under difficult environmental condition (variations in temperature, humidity, dirt, etc.). Therefore, the maintenance costs of other systems meant in the past a substantial subsequent cost.
- The GIFAS systems PIAZZA and CAMPETTO do completely without maintenance and trouble-prone spindle systems and offer a strengthless fully automatic opening procedure by gas pressure absorber.
- GIFAS underfloor pits are sunk in the soil during operation and locked with a closing system.
- Owing to high security for pedestrians, operators, ranking vehicles and protection against deliberate destruction subsequent costs are almost impossible.
- Subject to the regulations:
 - BGA V1 und BGA V3
 - VDE 0100 Teil 410 und 540
 - VDE 0660 Teil 500
 - VDE 0660 Teil 501 - je nach Ausführung
 - VDE 0471

Practical examples



Overview of Floor Pit systems

GIFAS Floor Pits PIAZZA and CAMPETTO

Withstands foot and vehicle traffic during operation	⇒ high security for pedestrians, operators, ranking vehicles, avoidance of hazard
Lockable in connected mode	⇒ protection against vandalism, negligent damage or unauthorised access
Gas strut for opening in just seconds	⇒ simple handling due to fully automatic opening without maintenance-prone spindle system
Absolutely maintenance-free	⇒ without running charges
Pit cover can be filled up individually	⇒ unobstrusive, adaptable to surrounding field
Water, compressed air and IT connections possible	⇒ individual fitting according to circumstances and requirement
Connector distributor boxes can be accessed when installed	⇒ no further excavations necessary, installation and connection take place time-independently, relieved E-check
Cover heating	frost-free conditions as well in winter
Model PIAZZA	⇒ load capacity up to 400 KN (40t)
Option air chamber	⇒ protection against flooding

Versions PIAZZA

PIAZZA 540:
Dimensions 540 x 540 mm



PIAZZA 700:
Dimensions 700 x 700 mm



PIAZZA 1000:
Dimensions 1000x 1000 mm



Versions CAMPETTO

CAMPETTO V:
Cover: V2A checker plate,
load capacity up to 30 KN (3t),
special execution: 50KN (5t)



available in two dimensions:
628 x 435 x 500 mm or
778 x 535 x 670 mm,
depending on model

CAMPETTO VI:
Cover can be filled up
individually, load capacity
up to 125 KN (12,5t)



Overview of Floor Pit systems

PIAZZA 540



PIAZZA 700



Technical data		
Area of application	interior and exterior zone	interior and exterior zone
Load capacity	400KN (40 t)	400KN (40 t)
Cover	540 x 540 x 60 mm can be filled up with any material required	700 x 700 x 70 mm can be filled up with any material required
Weight	approx. 240 kg	approx. 630 kg
Installation depth	approx. 750 mm	approx. 1300 mm
Possible equipment	1x solid rubber built-in socket CEE 5x16 A, 400 V	1x solid rubber built-in socket CEE 5x63 A, 400 V
	2x 230 V sockets	1x solid rubber built-in socket CEE 5x32 A, 400 V
		1x solid rubber built-in socket CEE 5x16 A, 400 V
		3x safety contact built-in sockets
Protection RCD = residual current protective device MCB = miniature circuit breaker	1x RCD 40/0,03A 1x MCB 16A / 3 poles 2x MCB 16A / 1 pole	1x MCB 63A / 3 poles 1x MCB 32A / 3 poles 1x MCB 16A / 3 poles 3x MCB 16A / 1 pole 1x MCB 63A / 3 poles pre-fuse 1x RCD 63/0,03 A / 4 poles for 63A socket 1x RCD 63/0,03 A / 4 poles for remaining sockets
Distributor box	type 3020	type 7900
Description	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - High level of safety achieved by locking the underfloor system in the contact area - Simple opening and closing in just seconds thanks to gas strut - Connector distributor boxes can be accessed when installed (E-Check) - Frost-proof operation via cover heating - Water and compressed air connections possible - Connector distributor box is modified and fully fitted for the connection line - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer - Secured against unauthorised opening using a shackle lock 	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - High level of safety achieved by locking the underfloor system in the contact area - Simple opening and closing in just seconds thanks to gas strut - Connector distributor boxes can be accessed when installed (E-Check) - Frost-proof operation via cover heating - Water and compressed air connections possible - Connector distributor box is modified and fully fitted for the connection line - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer - Secured against unauthorised opening using a shackle lock1

Overview of Floor Pit systems

PIAZZA 1000



Technical data	
Area of application	interior and exterior zone
Load capacity	400KN (40 t)
Cover	1000 x 1000x 70 mm can be filled up with any material required
Weight	approx. 880 kg
Installation depth	approx. 1300 mm
Possible equipment	1x solid rubber built-in socket CEE 5x63 A, 400V
	1x solid rubber built-in socket CEE 5x32 A, 400 V
	3x solid rubber built-in sockets CEE 5x 16 A, 400 V
	6x 230 V
Protection	1x MCB 63A / 3 poles 1x MCB 32A / 3 poles 3x MCB 16A / 3 poles 6x MCB 16A / 1 pole 1x RCD 63/0,03 A for 63A socket 1x RCD 63/0,03 A for 16A socket 1x RCD 63/0,03 A for 32A socket and safety contact built-in sockets 230 V
RCD = residual current protective device MCB = miniature circuit breaker	
Distributor box	type 7900
Description	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - High level of safety achieved by locking the underfloor system in the contact area - Simple opening and closing in just seconds thanks to gas struts - Connector distributor boxes can be accessed when installed (E-Check) - Frost-proof operation via cover heating - Water and compressed air connections possible - Connector distributor box is modified and fully fitted for the connection line - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer - Secured against unauthorised opening using a shackle lock

Overview of Floor Pit systems

CAMPETTO V



CAMPETTO VI



Technical data		
Area of application	interior and exterior zone	interior and exterior zone
Load capacity	30 KN (3 t) – special execution up to 125KN (12,5 t)	50 KN (5 t) – special execution up to 125KN (12,5 t)
Cover	minimal 628 x 435 mm maximal 778 x 535 mm V2A checker plate	minimal 628 x 435 x 70 mm maximal 778 x 535 x 70 mm can be filled up with any material required
Weight	approx. 60 kg	approx. 70 kg
Installation depth	depending on execution 500 or 670 mm	depending on execution 500 or 670 mm
Possible equipment	1x solid rubber built-in socket CEE 5x32 A, 400 V	1x solid rubber built-in socket CEE 5x32 A, 400 V
	1x solid rubber built-in socket CEE 5x 16 A, 400 V	1x solid rubber built-in socket CEE 5x 16 A, 400 V
	3x 230 V	3x 230 V
Protection RCD = residual current protective device MCB = miniature circuit breaker	1x MCB 63A / 3 poles 1x MCB 32A / 3 poles 1x MCB 16A / 3 poles 3x MCB 16A / 1 pole 1x RCD 63/0,03 A 4 poles for 63A socket 1x RCD 63/0,03 A 4 poles for remaining sockets 1x MCB 63A / 3 poles as pre-fuse	1x MCB 63A / 3 poles 1x MCB 32A / 3 poles 1x MCB 16A / 3 poles 3x MCB 16A / 1 pole 1x RCD 63/0,03 A 4 poles for 63A socket 1x RCD 63/0,03 A 4 poles for remaining sockets 1x MCB 63A / 3 poles as pre-fuse
Distributor boxes	type 7200 up to 7800	type 7200 up to 7800
Description	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - High level of safety achieved by locking the underfloor system in the contact area - Simple opening and closing in just seconds thanks to gas struts - Water and compressed air connections possible - Connector distributor box is modified and fully fitted for the connection line - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer 	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - High level of safety achieved by locking the underfloor system in the contact area - Simple opening and closing in just seconds thanks to gas struts - Water, compressed air and IT connections possible - Connector distributor box is modified and fully fitted for the connection line - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer

Overview of Floor Pit systems

RETRANT



ROTRANT



Technical data		
Area of application	Underfloor pit for limited space	Underfloor column pit for limited space
Load capacity	30 KN (3 t)	30 KN (3 t)
Cover	340 x 240 mm V2A checker plate	Ø 273 mm V2A checker plate
Weight	approx. 25 kg	approx. 25 kg
Installation depth	approx. 420 mm	approx. 300 mm
Possible equipment	1x solid rubber built-in socket CEE 5x32 A, 400V in straight execution 1x 230 V socket	1x 230 V socket with bayonet joint cover (sealed against pressure water)
Distributor box	type 2516	type 1212
Description	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - Underfloor pit can be installed flush with ground - Countersunk turning bolt steel lock V2A - High level of safety achieved by locking the underfloor system in the contact area - Water and compressed air connections possible - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer 	<ul style="list-style-type: none"> - Closed during operation drivable and walkable - Underfloor pit can be installed flush with ground - Countersunk turning bolt steel lock V2A - High level of safety achieved by locking the underfloor system in the contact area - Water and compressed air connections possible - Shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer

Floor Pit PIAZZA 540



Solid stainless steel design approx. 540 x 540 mm, load capacity up to 400 kN, gas spring for easier opening, shaft cover can be filled with any material required, custom-designed distribution boxes.

- **Closed during operation drivable and walkable**
- High level of safety achieved by locking the underfloor system in the contact area. This provides optimum safety for pedestrians and for stationary and moving road traffic and protection against unauthorised access.
- Cover and frame made from stainless steel
- Cover can be filled with any material required for matching with the surrounding area
- For power, water connections and compressed air
- Load bearing class D 400 (40 t)
- Cable flap for the connection line outlet when closed
- Simple opening and closing in just seconds thanks to gas struts
- GIFAS solid rubber distributor box: Individual mounting according to customer requirements, technical conditions and regulations
- Secured against unauthorised opening using a shackle lock

⇒ Applications:

Squares, event halls, industrial halls, yards, pedestrian zones, car parks, parking spaces, hangars and anywhere where power distribution is provided as required and can then be easily lowered into the floor.

⇒ Properties

- Robust, easy to use and safe in operation
- Can be ideally matched to the surrounding area as it can be filled with any material.
- The GIFAS solid rubber distributor box ensures maximum operational safety
- No problems with condensed water
- Resistant to environmental influences
- Low maintenance costs



PIAZZA 540 Scope of delivery and technical information

⇒ GIFAS components included

The entire stainless steel design with fillable shaft cover including electrical distribution and connection socket is assembled and supplied on a concrete ring (H=570 mm, NW 450 mm).

⇒ Work to be done by the customer

The lid has to be filled by the customer. The shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer. The excavation work and the correct assembly of the design (GIFAS components included) conforming to standards must be carried out by the customer. This also applies to covering the reservoir. The reservoir cover is covered over by the customer. The terminal box is fitted onto the concrete tube.

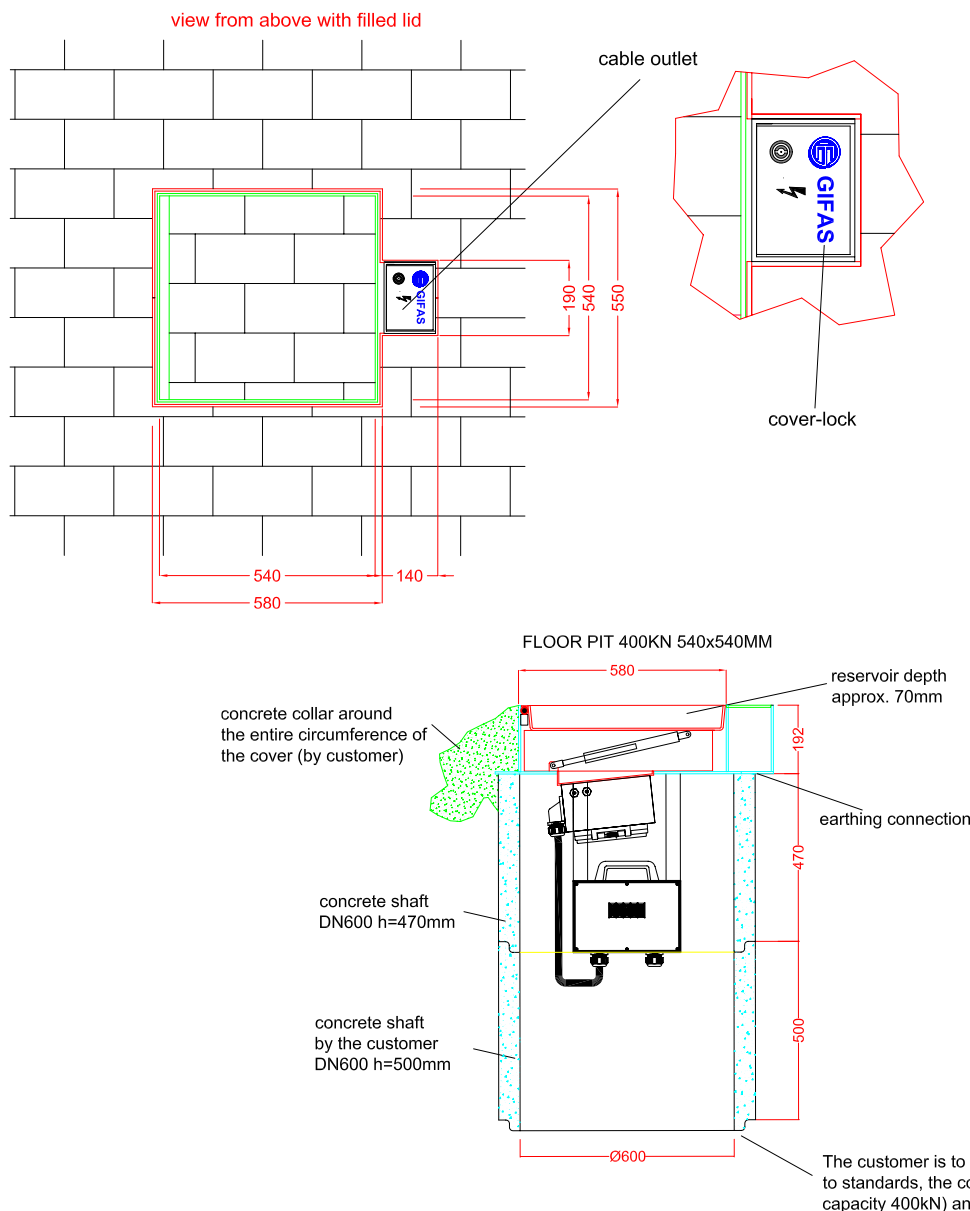
⇒ Technical information

Cover is secured against unauthorised opening using a shackle lock

The cable outlet (180x130 mm) is integrated into the shaft cover frame. The cable exit flap is secured using a double-ended lock.

Cover filling: The lid with a depth of 50 mm can be covered over with any material required to match the surrounding area

Heating: A self-regulating heating strip is positioned in the shaft cover to ensure simple opening even in frost.



Floor Pit PIAZZA 700



Solid stainless steel design approx. 700 x 700 mm, load capacity up to 400 kN, gas strut for easier opening, can be covered with any material required, custom-designed distribution boxes.

• **Closed during operation drivable and walkable**

- High level of safety achieved by locking the lid. This provides optimum safety for pedestrians and for stationary and moving road traffic and protection against unauthorised access.
- Cover and frame made from stainless steel
- Cover can be filled with any material required and for matching with the surrounding area
- For power, water, compressed air and IT connections
- Load bearing class D 400 (40 t)
- Cable flap for the connection line outlet when closed
- Simple opening and closing in just seconds thanks to gas struts
- GIFAS solid rubber distributor box: Component fitting according to customer requirements, technical conditions and regulations
- Secured against unauthorised opening using a shackle lock

⇒ Applications:

Squares, event halls, industrial halls, yards, pedestrian zones, car parks, parking spaces, hangars and anywhere where power distribution is provided as required and can then be easily lowered into the floor.

⇒ Properties

- Robust, easy to use and safe in operation
- Can be ideally matched to the surrounding area as it can be filled over with any material.
- The GIFAS solid rubber distributor box ensures maximum operational safety
- No problems with condensed water
- Resistant to environmental influences
- Low maintenance costs



PIAZZA 700 Scope of delivery and technical information

⇒ GIFAS components included

The entire stainless steel design with fillable lid including electrical distribution and connection socket is assembled and supplied on a concrete ring (H=470 mm, NW 800 mm).

⇒ Work to be completed by the customer

The customer is required to cover over the reservoir cover and to provide the concrete ring. The shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer. The excavation work and the correct assembly of the design (GIFAS components included) conforming to standards must be carried out by the customer. This also applies to covering the reservoir. The terminal box is fitted onto the stainless steel design.

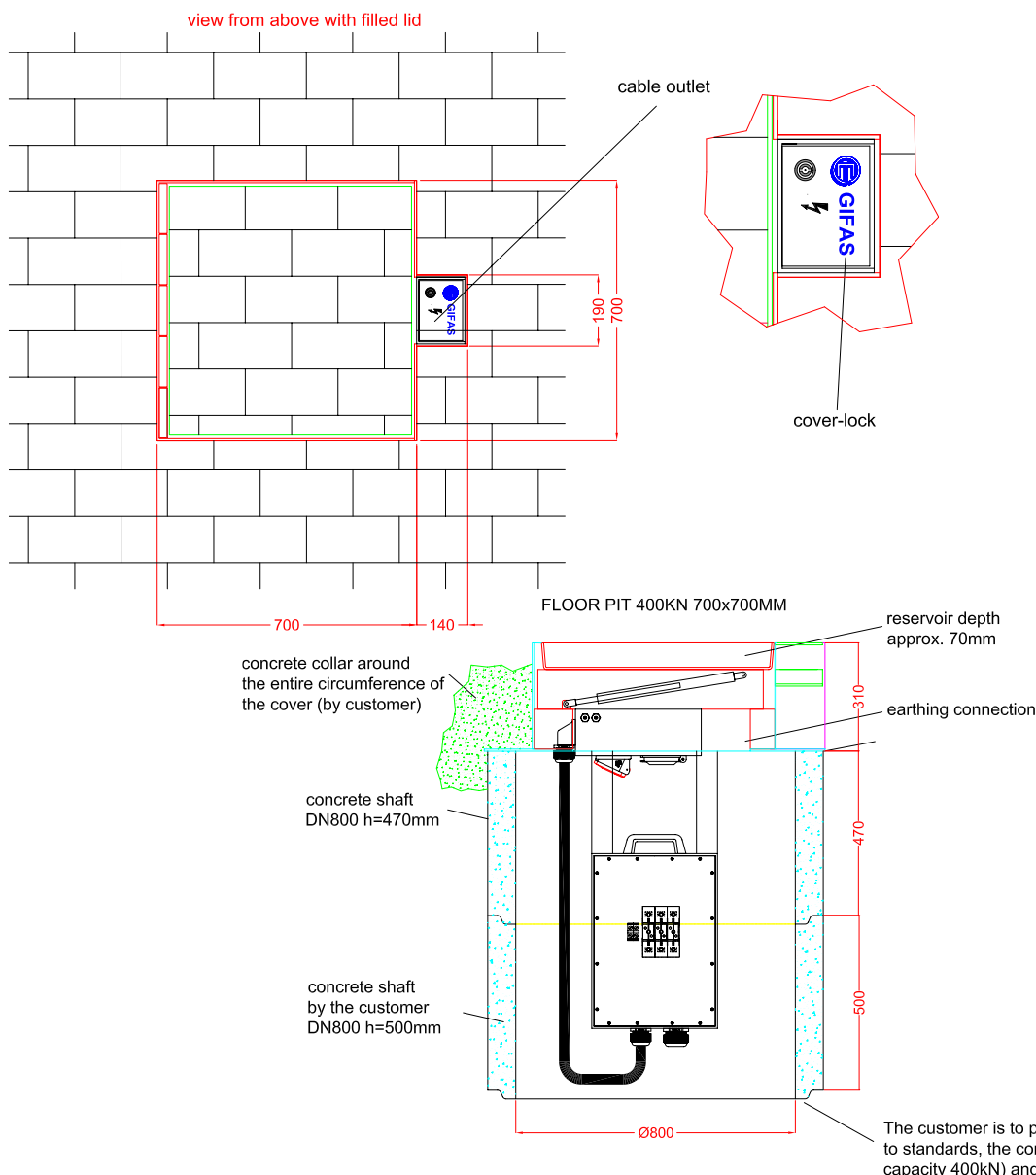
⇒ Technical information

Cover is secured against unauthorised opening using a shackle lock.

The cable outlet (180x130 mm) is integrated into the shaft cover frame. The cable exit flap is secured using a double-ended lock.

Covering over the cover: The lid with a depth of 70 mm can be filled with any material required to match the surrounding area

Heating: A self-regulating heating strip is positioned in the lid to ensure simple opening even in frost.



Floor Pit PIAZZA 1000



Solid stainless steel design approx. 1000 x 1000 mm, load capacity up to 400 kN, gas struts for easier opening, can be covered over with any material required, custom-designed distribution boxes.

- **Closed during operation drivable and walkable**
- High level of safety achieved by locking the lid. This provides optimum safety for pedestrians and for stationary and moving road traffic and protection against unauthorised access.
- Cover and frame made from stainless steel
- Cover can be filled with any material required for matching with the surrounding area
- For power, water, compressed air and IT connections
- Load bearing class D 400 (40 t)
- Cable flap for the connection line outlet when closed
- Simple opening and closing in just seconds thanks to gas struts.
- GIFAS solid rubber distributor box: Component fitting according to customer requirements, technical conditions and regulations
- Secured against unauthorised opening using a shackle lock,

⇒ Applications:

Squares, event halls, industrial halls, yards, pedestrian zones, car parks, parking spaces, hangars and anywhere where power distribution is provided as required and can then be easily lowered into the floor.

⇒ Properties

- Robust, easy to use and safe in operation
- Can be ideally matched to the surrounding area as it can be filled with any material.
- The GIFAS solid rubber distributor box ensures maximum operational safety
- No problems with condensed water
- Resistant to environmental influences
- Low maintenance costs



PIAZZA 1000 Scope of delivery and technical information

⇒ GIFAS components included

The entire stainless steel design with fillable lid including electrical distribution and connection socket is assembled and supplied on a concrete ring (H=470 mm, NW 1000 mm).

⇒ Work to be completed by the customer

The customer is required to cover over the reservoir cover and to provide the concrete ring. The shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer. The excavation work and the correct assembly of the design (GIFAS components included) conforming to standards must be carried out by the customer. This also applies to covering over the reservoir. The terminal box is fitted onto the stainless steel design.

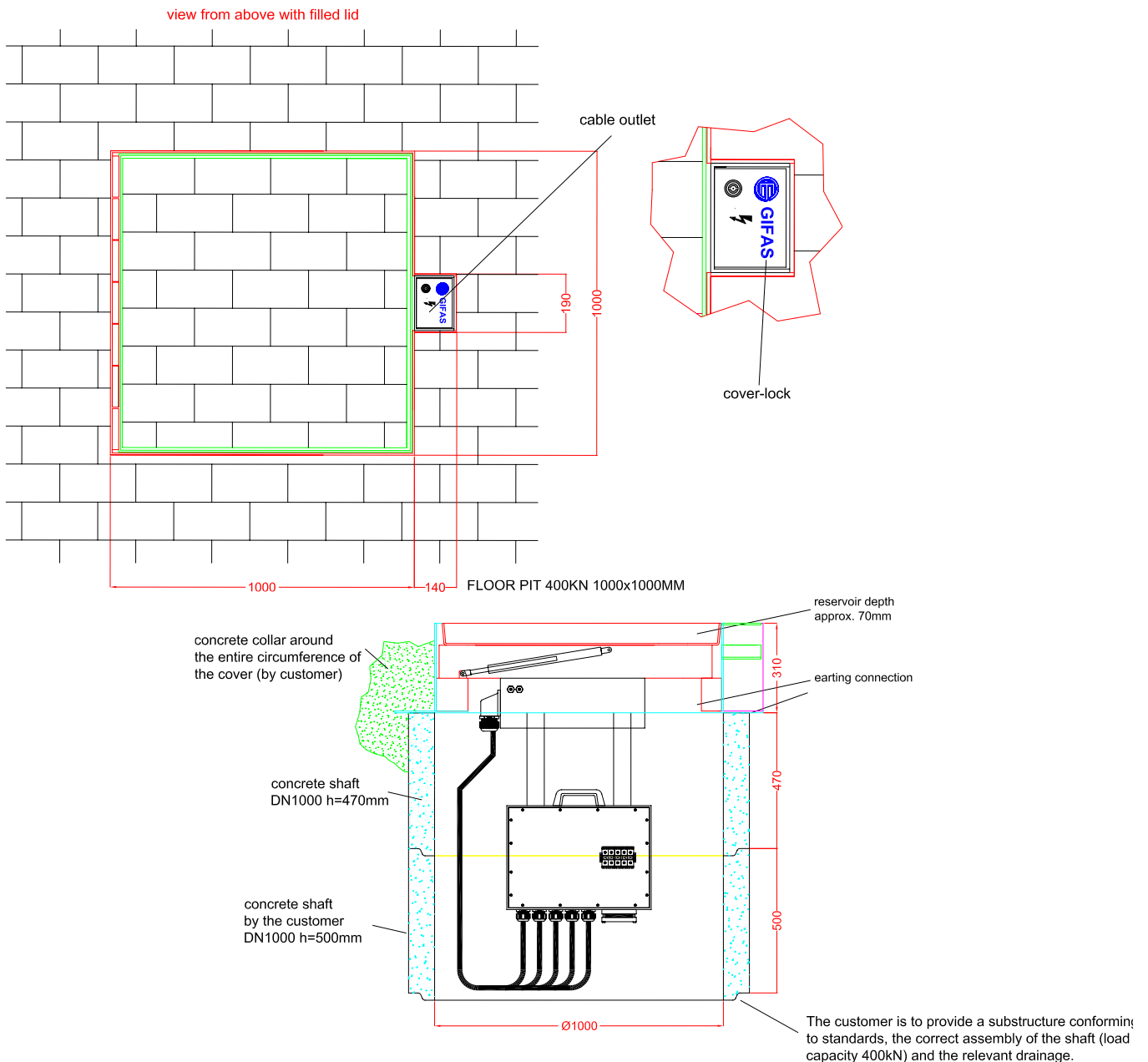
⇒ Technical information

Cover is secured against unauthorised opening using a shackle lock.

The cable outlet (180x130 mm) is integrated into the shaft cover frame. The cable exit flap is secured using a double-ended lock.

Covering over the cover: The lid with a depth of 70 mm can be covered over with any material required to match the surrounding area.

Heating: A self-regulating heating strip is positioned in the lid to ensure simple opening even in frost.



Floor Pit CAMPETTO V with checker plate cover



Stainless steel construction, two sizes, with cover made from checker plate, up to 30 kN (3 t), special design with load capacity up to 50 kN (5 t), gas struts for easier opening, GIFAS solid rubber distributor box according to customer requirements.

- **Closed during operation drivable and walkable**
- High level of operational safety achieved by locking after connecting
- Simple opening and closing in just seconds thanks to gas springs
- All metal parts from stainless steel
- For power, water and compressed air connections
- GIFAS solid rubber distributor box fitted onto the lid, can be assembled with any components required
- The electrical distribution components are mounted based on customer requirements

⇒ Applications:

Industrial halls, hangars, sports centres, pedestrian zones, town squares and schools and anywhere where power distribution needs to be available quickly and repeatedly.

⇒ Properties

- Minimal installation depth
- Robust, easy to use and safe in operation
- Low maintenance costs
- The GIFAS solid rubber distributor box ensures maximum operational safety
- No problems with condensed water
- Resistant to environmental influences

CAMPETTO V Scope of delivery and technical information

⇒ GIFAS components included

The CAMPETTO casing including electrical distributor and connection sockets are supplied fully assembled and wired.

⇒ Work to be completed by the customer

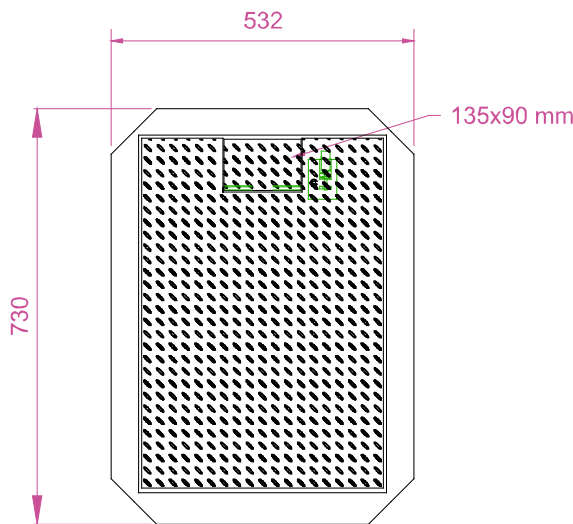
The cover system is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer.

The excavation work and the correct assembly of the design (GIFAS components included) conforming to standards must be carried out by the customer.

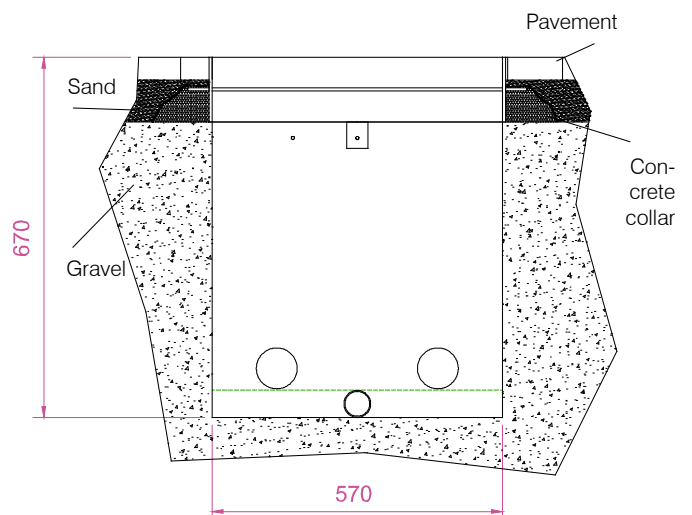
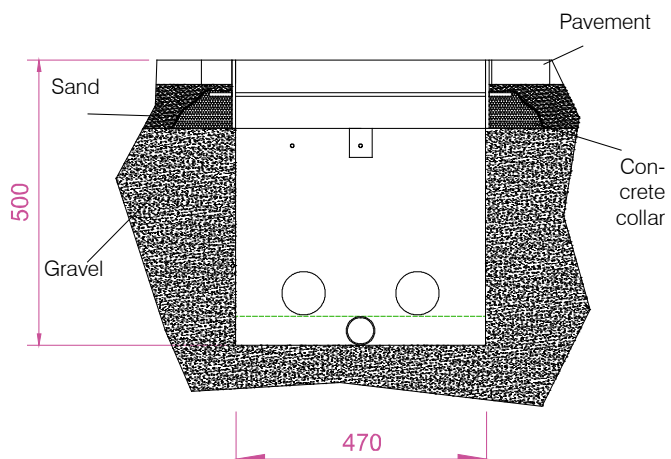
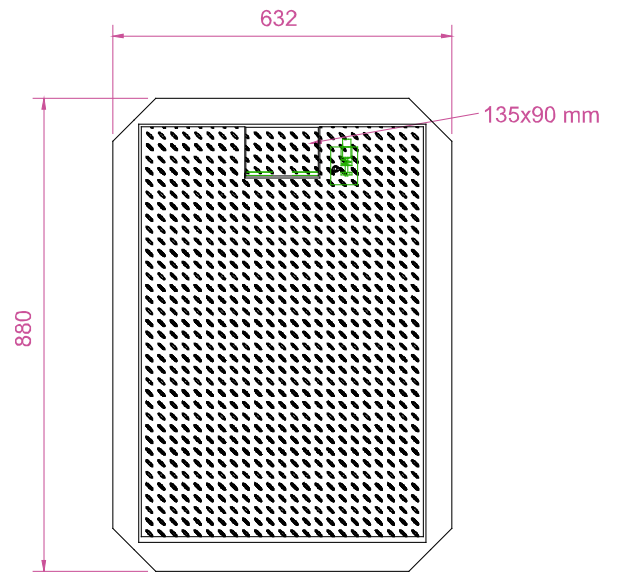
⇒ Technical information

- The type CAMPETTO V is available in two sizes.
- The **GIFAS solid rubber distributor box** assembled into the cover can be mounted with any components required.
- The terminal box is connected to the system and ready to use.
- The cover has a cable outlet and can be operated when closed.
- The cover is available in different load capacities (standard 30 kN, special designs 50 kN).
- Design in stainless steel V2A.
- Simple and rapid opening and closing thanks to gas pressure spring.

for distributor boxes 7200 - 7400



for distributor boxes 7700 - 7900



Floor Pit CAMPETTO VI

Cover can be filled with any material required



Stainless steel construction, two sizes, with cover that can be filled with any material required, load capacity up to 125 kN, gas struts for easier opening, GIFAS solid rubber distributor box according to customer requirements (KSV 7200 to 7900).

- Closed during operation drivable and walkable
- High level of operational safety by closing after when in use
- Simple opening and closing in just seconds thanks to gas struts
- All metal parts from stainless steel
- For power, water, compressed air and IT connections
- GIFAS solid rubber distributor box mounted onto the lid can be assembled with any components required
- The electrical distribution components are mounted based on customer requirements.

⇒ Applications:

Industrial halls, hangars, sports centres, pedestrian zones, town squares and schools and anywhere where power distribution needs to be available quickly and repeatedly.

⇒ Properties

- Minimal installation depth
- Robust, easy to use and safe in operation
- Low maintenance costs
- The GIFAS solid rubber distributor box ensures maximum operational safety
- No problems with condensed water
- Resistant to environmental influences



Floor Pit CAMPETTO VI

⇒ GIFAS components included

The CAMPETTO casing including electrical distributor and connection sockets are supplied fully assembled and wired.

⇒ Work to be completed by the customer

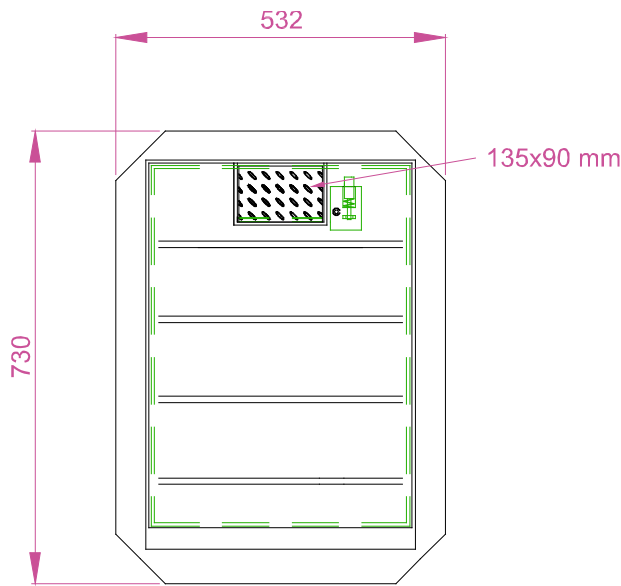
The cover system is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer.

The excavation work and the correct assembly of the design (GIFAS components included) conforming to standards must be carried out by the customer.

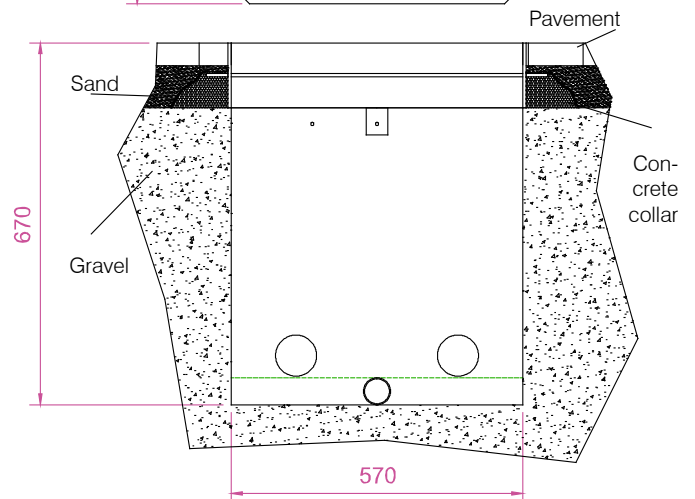
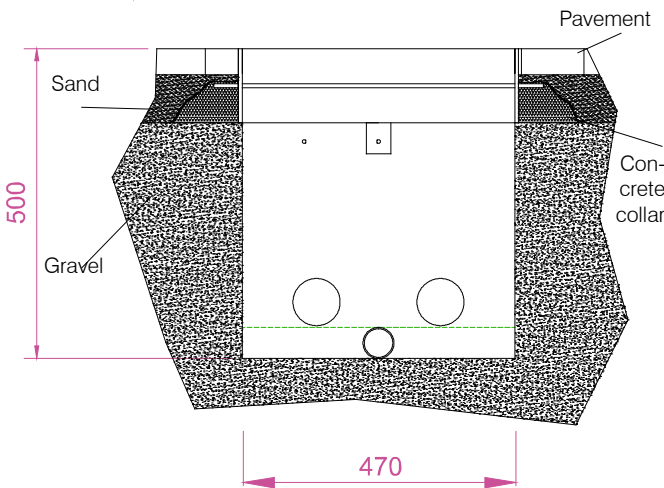
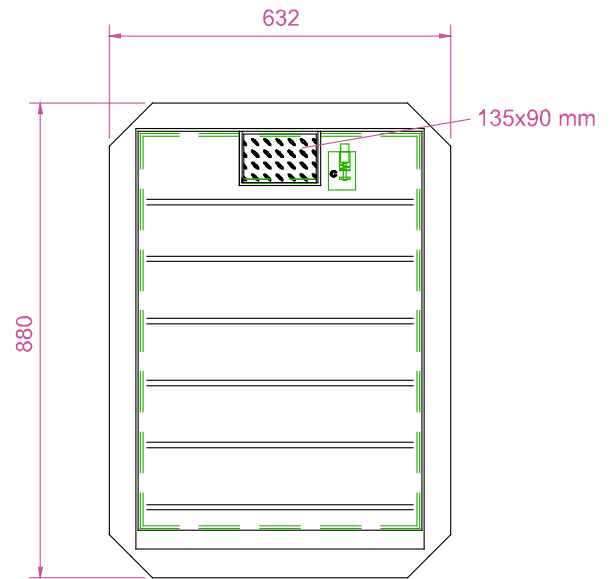
⇒ Technical information

- The type CAMPETTO VI is available in two sizes.
- The **GIFAS solid rubber distributor box** assembled into the cover can be mounted with any components required.
- The terminal box is connected to the system and ready to use.
- The cover hat a cable outlet and can be operated when closed.
- The reservoir cover can be covered with any material required. The load capacity is class B 125.
- Design in stainless steel V2A.
- Simple and rapid opening and closing thanks to gas pressure spring.

for distributor boxes 7200 - 7400



for distributor boxes 7700 - 7900



PIAZZA: Installation

Simple assembly and installation process



Excavation of the hole



Concrete ring provided by customer



Embedding of the unit



Insertion of the entire unit into the prepared hole



Levelling



Filling up with gravel, concrete or other material



Match to the surrounding area with the same covering material



Paving over

CAMPETTO: Installation

Simple assembly and installation process



Excavation of the hole



Filling of the hole



Embedding of the unit



Covering over



Filling up with gravel, concrete or other material



Match to the environment with the same covering material



Completed installation of the CAMPETTO

Floor Pit RETRANT



⇒ Technical information

GIFAS Floor Pit for limited space

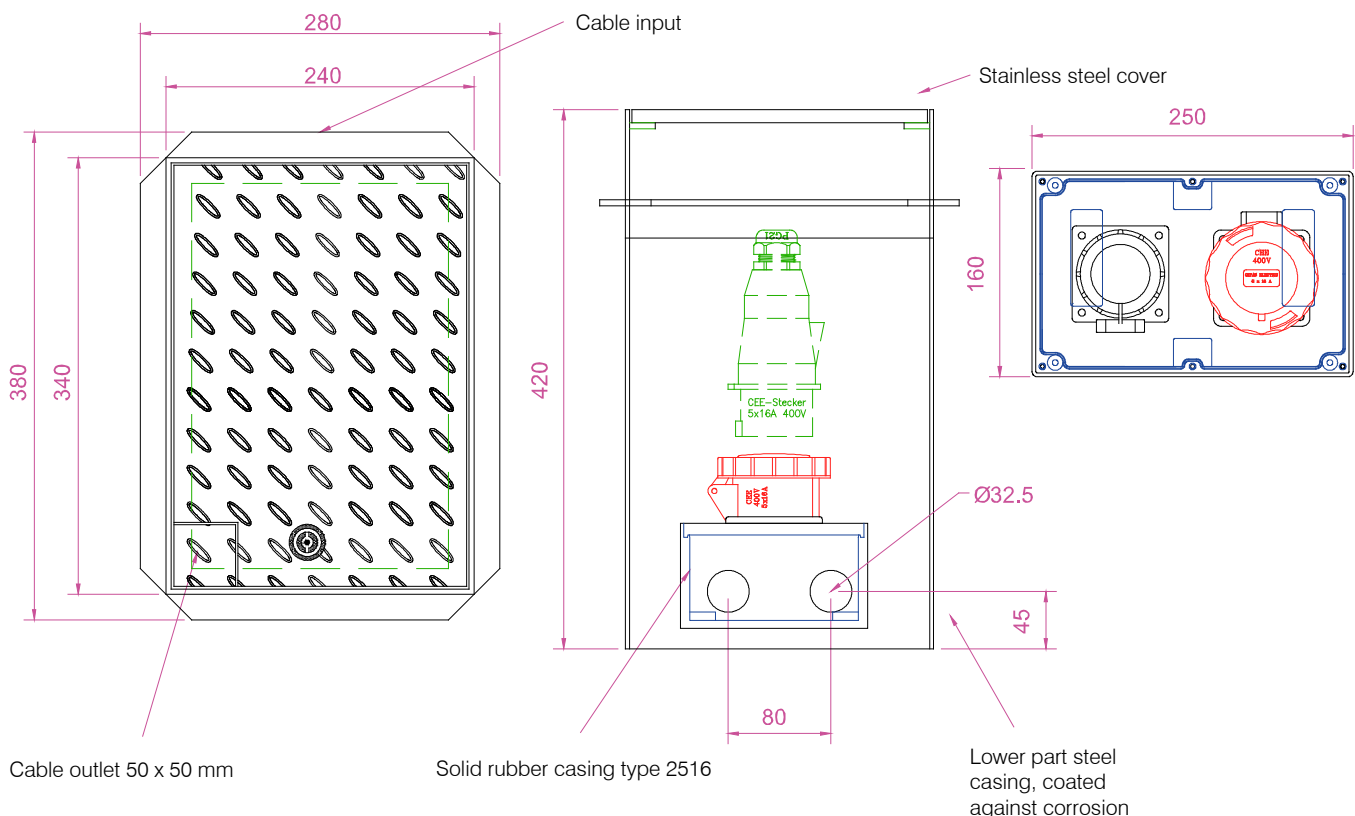
- Solid steel construction with the dimensions:
LxWxD = 340x240x420 mm, load capacity up to 30 kN
- Cover: cover made from V2A checker plate with turning bolt lock and cable outlet
- Casing material: steel tube ST37 coated against corrosion
- Can be fitted with:
 - 1 GIFAS solid rubber distributor box type 2516, protection rating: IP 65
 - 1 built-in socket CEE 5 x 32 A/400 V in straight execution, IP 67
- Weight: approx. 25 kg



⇒ Properties

The floor pit offers a high level of operational safety by closing after connecting. The underfloor pit can be installed flush with ground, e.g. with countersunk turning bolt steel lock V2A.

The cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer.



Floor Pit ROTRANT

⇒ Technical information

GIFAS column floor pit for limited space

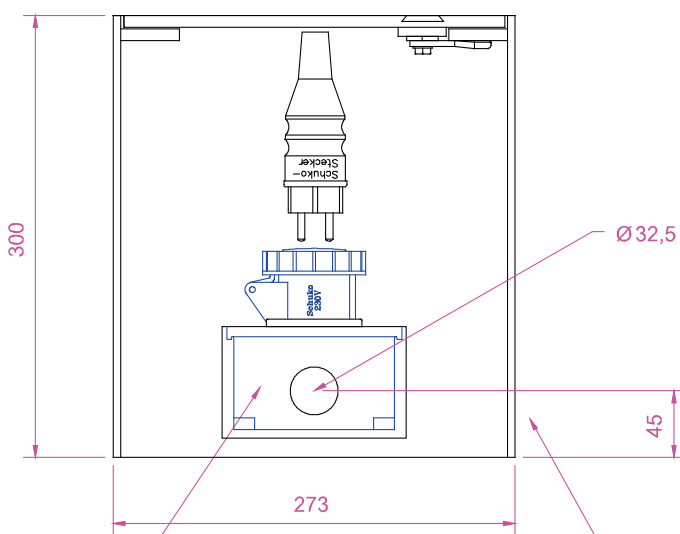
- Robust steel construction with the dimensions:
L x Ø = 300 x 273 mm, load capacity up to 30 kN
- Cover: cover made from V2A checker plate with turning bolt lock and cable exit flap
- Casing material: steel tube ST37 coated against corrosion
- Can be fitted with:
 - 1 GIFAS solid rubber distributor box type 1212 (IP 54)
 - 1 safety contact built-in socket 230V (IP 68) with bayonet joint cover (sealed against pressure water)
- Supply line: can be putted on clamps, max. 3x2,5 mm²
- Weight: approx. 25 kg



⇒ Properties

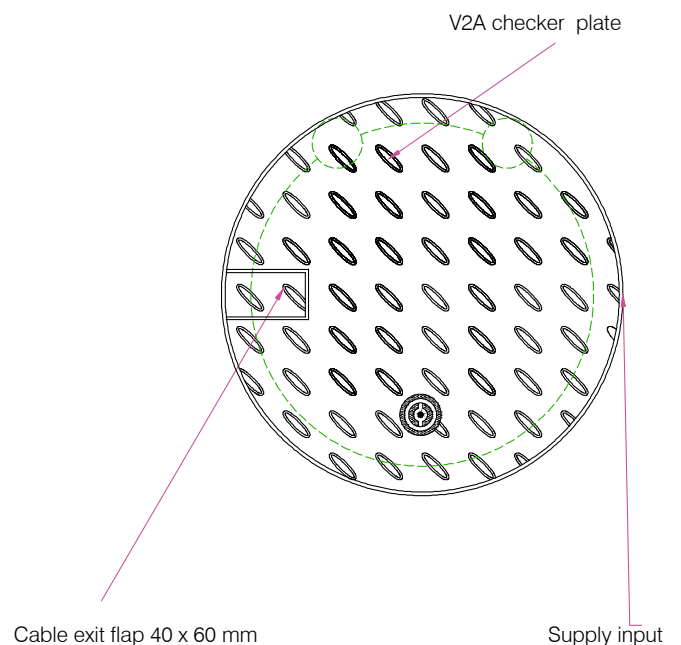
The floor pit offers a high level of operational safety by re-sealing after commissioning. The underfloor pit can be installed flush with ground, e.g. with countersunk turning bolt steel lock V2A.

The shaft cover is not sealed against surface water; sufficient drainage of the shaft should be provided by the customer.



Solid rubber casing type 1212
120 x 120 mm

Lower part steel casing, coated against corrosion



V2A checker plate

Cable exit flap 40 x 60 mm

Supply input

Applications



Applications



Contact us



We look forward to become acquainted with you personally!

Custom made solutions

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Phone 0049 (0) 2137 105-0 • Fax (0) 2137 105-230
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