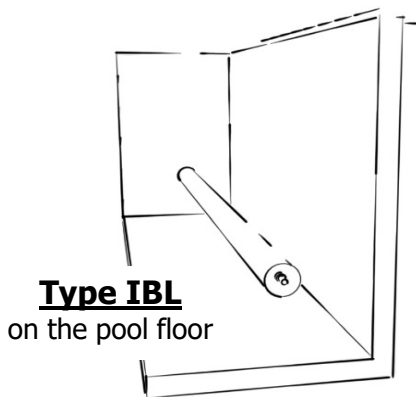
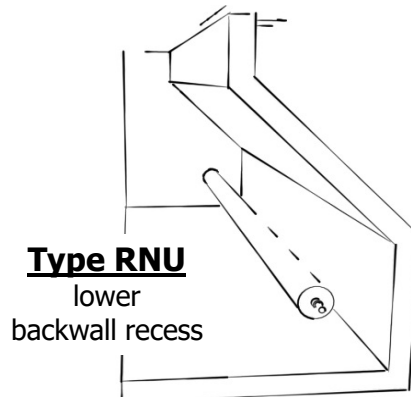


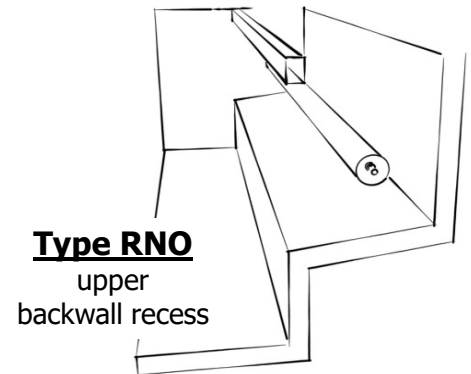
for all installations in the pool



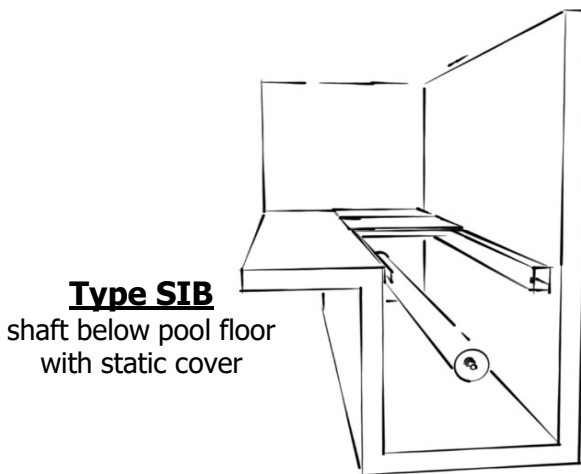
Type IBL
on the pool floor



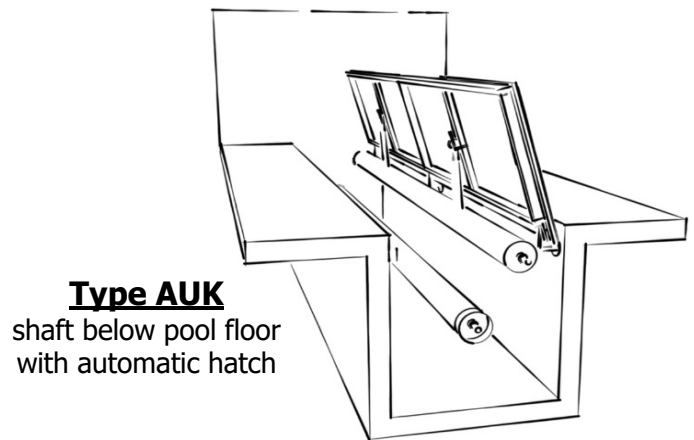
Type RNU
lower
backwall recess



Type RNO
upper
backwall recess



Type SIB
shaft below pool floor
with static cover

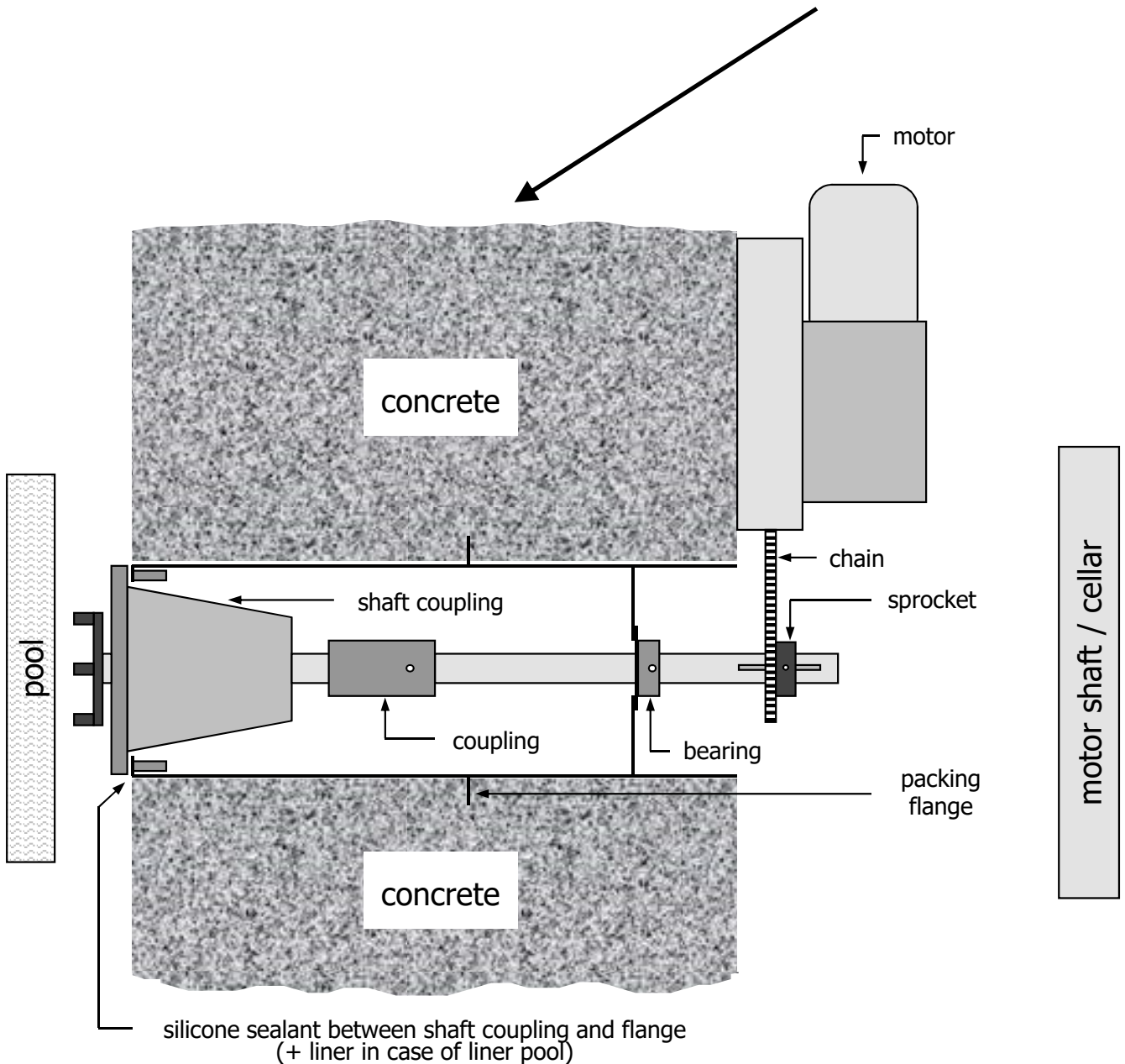
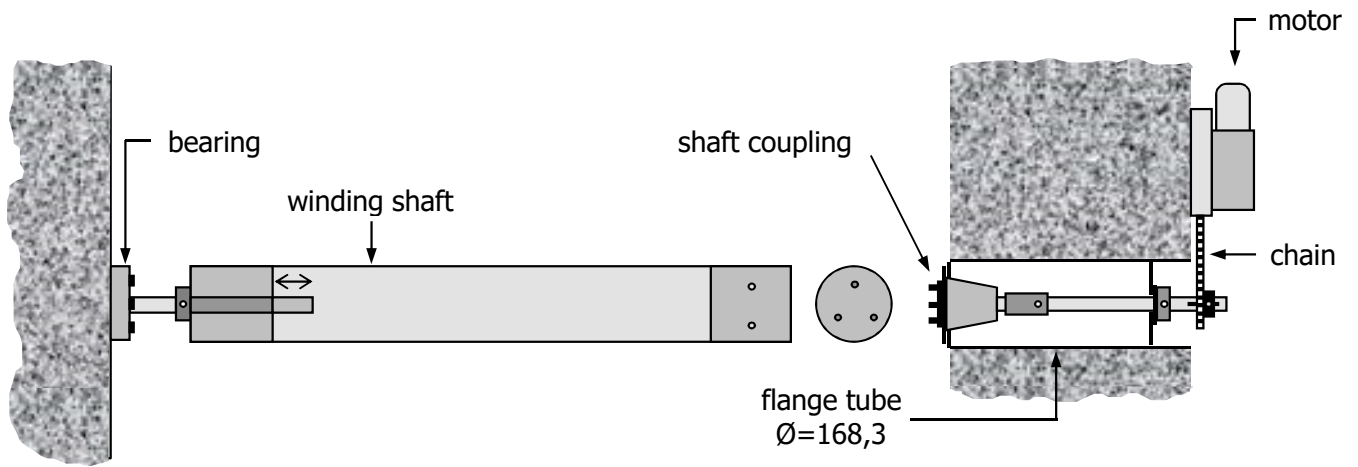


Type AUK
shaft below pool floor
with automatic hatch

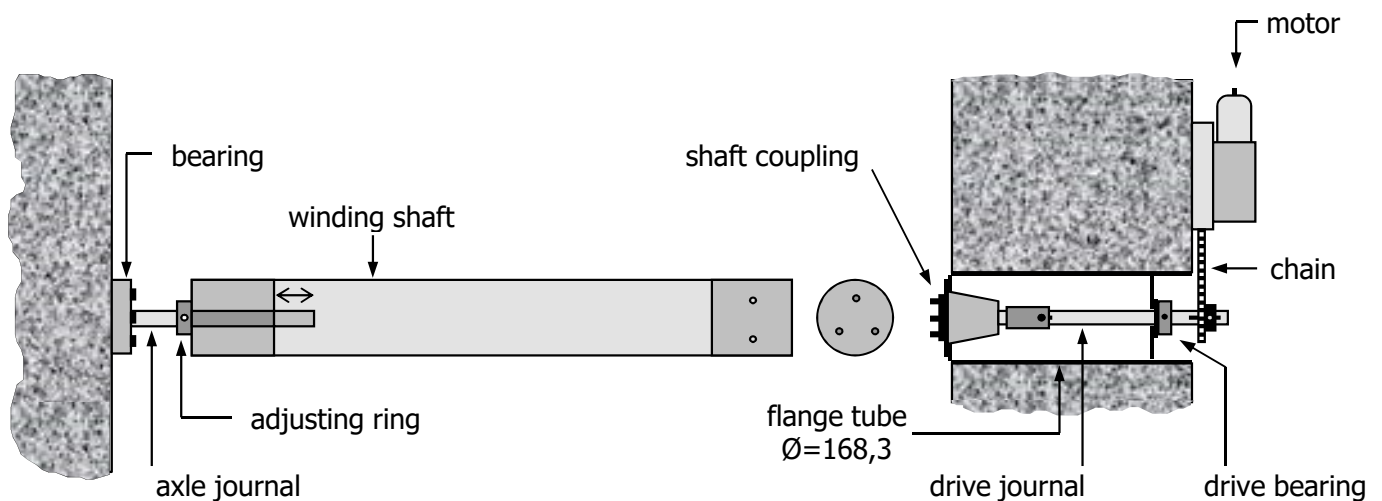
you have to attend the following notes
when using an
automatic pool-cleaner :

Before setting the cover in motion
(OPEN or CLOSE)
the automatic pool-cleaner
has to be removed !

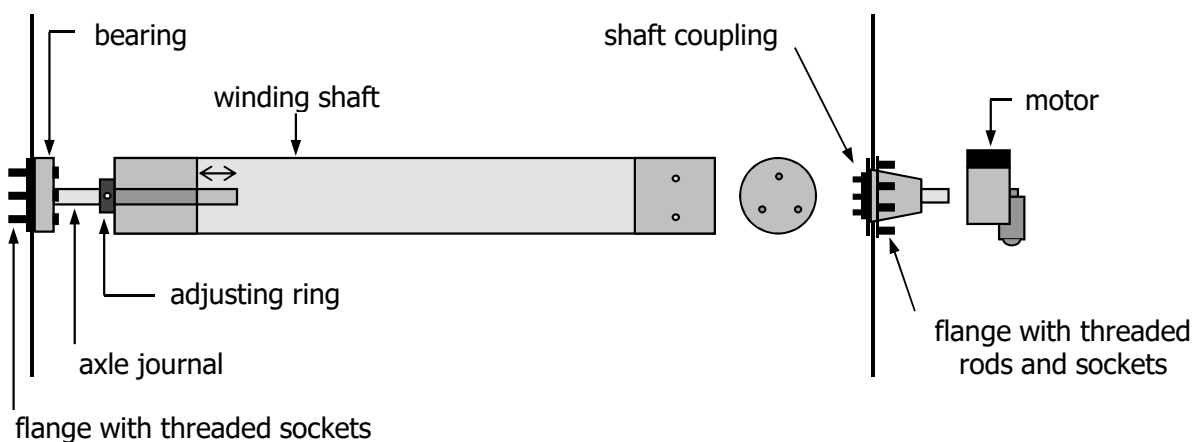
Disregarding may cause damage
to the pool cover
as well as
to the automatic pool-cleaner !



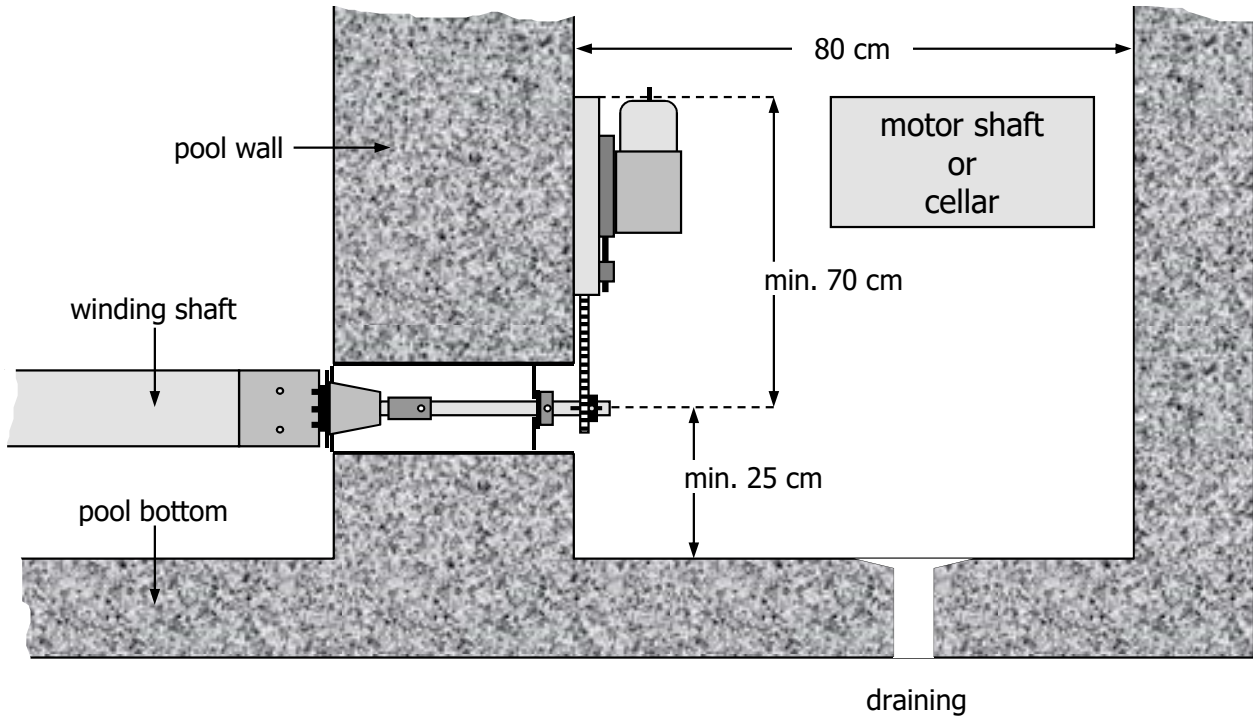
1. Put some silicone sealant on the shaft coupling and fix it to the flange tube by screws.
2. Fix the bearing to the opposite wall on a level with the flange tube by screws, washers and wall plugs.
3. Insert the winding shaft into the pool and put in the drive-side (PVC-block with 3 bore holes) on the shaft coupling.
 At the bearing-side pull out the axle journal and put it into the bearing up to the stop.
4. Lock the adjusting ring on the axle journal by the socket set screws flush to the winding shaft.
5. Loose the adjusting ring, remove the whole winding shaft, pull the axle journal out of the winding shaft and bore the marks of the socket set screws slightly (by that the locking of the adjusting ring is fastened once more).
6. Mount the winding shaft again.
7. Fasten the belts (including the first slats of the shutter) on the winding shaft (screws are already prepared).
8. Fit in the drive journal on the shaft coupling, fasten the drive bearing at the inner flange by the screws and tighten the socket set screws in the bearing.
9. direct drive: Put the motor on the drive journal and fasten the motor-clamp by the screws and wall plugs.
drive by chain: Put the sprocket wheel on the drive journal, lay the chain on the motor-pinion and the sprocket wheel, fasten the motor-clamp by the screws and wallplugs (pull the chain tight).
 Align the sprocket wheel on the drive journal and tighten the chain.



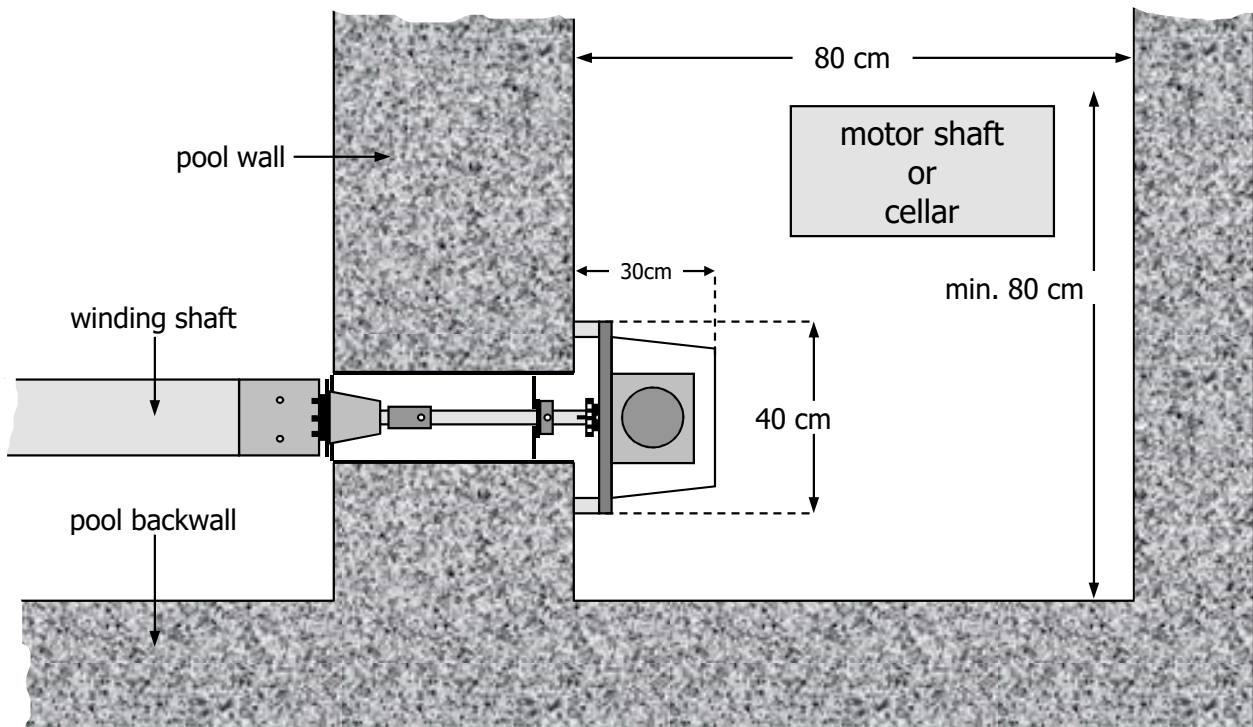
1. Cut a hole ($\varnothing=105\text{mm}$) into the pool wall in the right position.
 Then bore the fastening holes for the shaft coupling into the pool wall.
2. Put some silicone sealant on the shaft coupling and fix it to the flange outside the pool by the screws.
3. Put some silicone sealant on the bearing and fix it to the opposite wall on a level with the shaft coupling by turning the screws through the bore holes into the flange outside the pool.
4. Insert the winding shaft into the pool and put in the drive-side (PVC-block with 3 bore holes) on the shaft coupling.
 At the bearing-side pull out the axle journal and put it into the bearing up to the stop.
5. Lock the adjusting ring on the axle journal by the socket set screws flush to the winding shaft.
6. Loose the adjusting ring, remove the whole winding shaft, pull the axle journal out of the winding shaft and bore the marks of the socket set screws slightly (by that the locking of the adjusting ring is fastened once more).
7. Mount the winding shaft again.
8. Fasten the belts (including the first slats of the shutter) on the winding shaft (screws are already prepared).
9. Put the motor on the drive journal and fasten the motor-clamp on the threaded rods by the nuts.



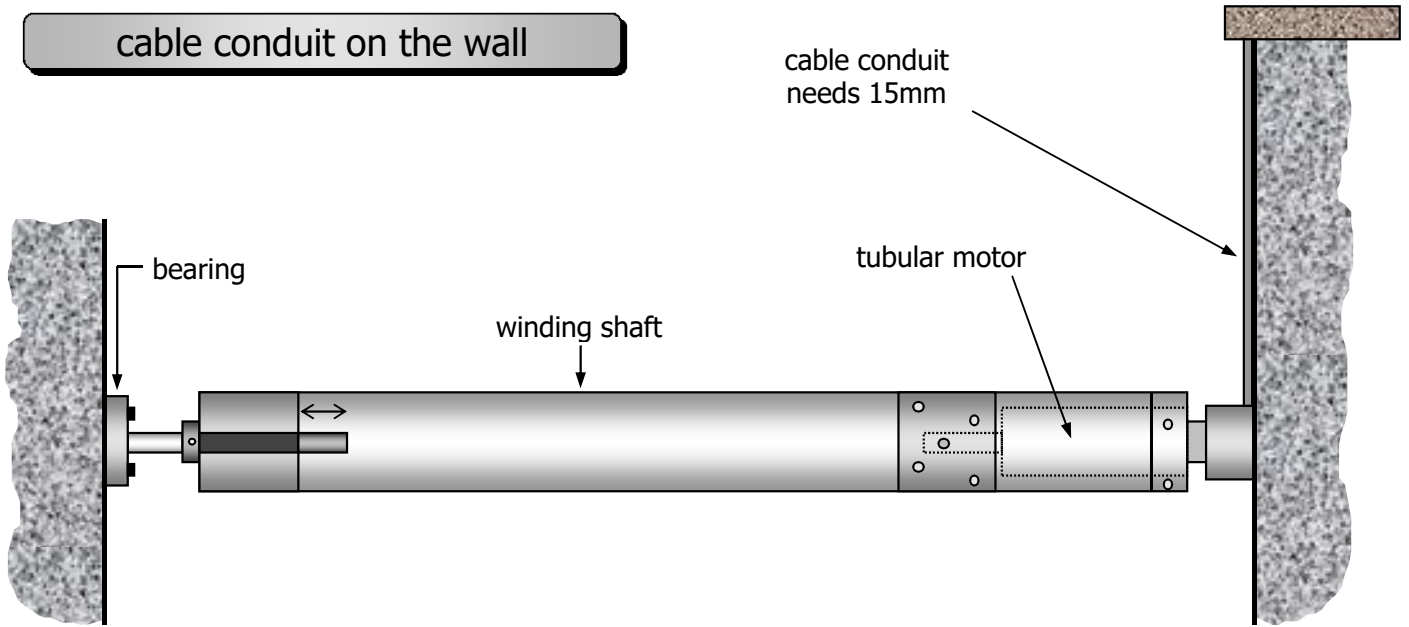
front view



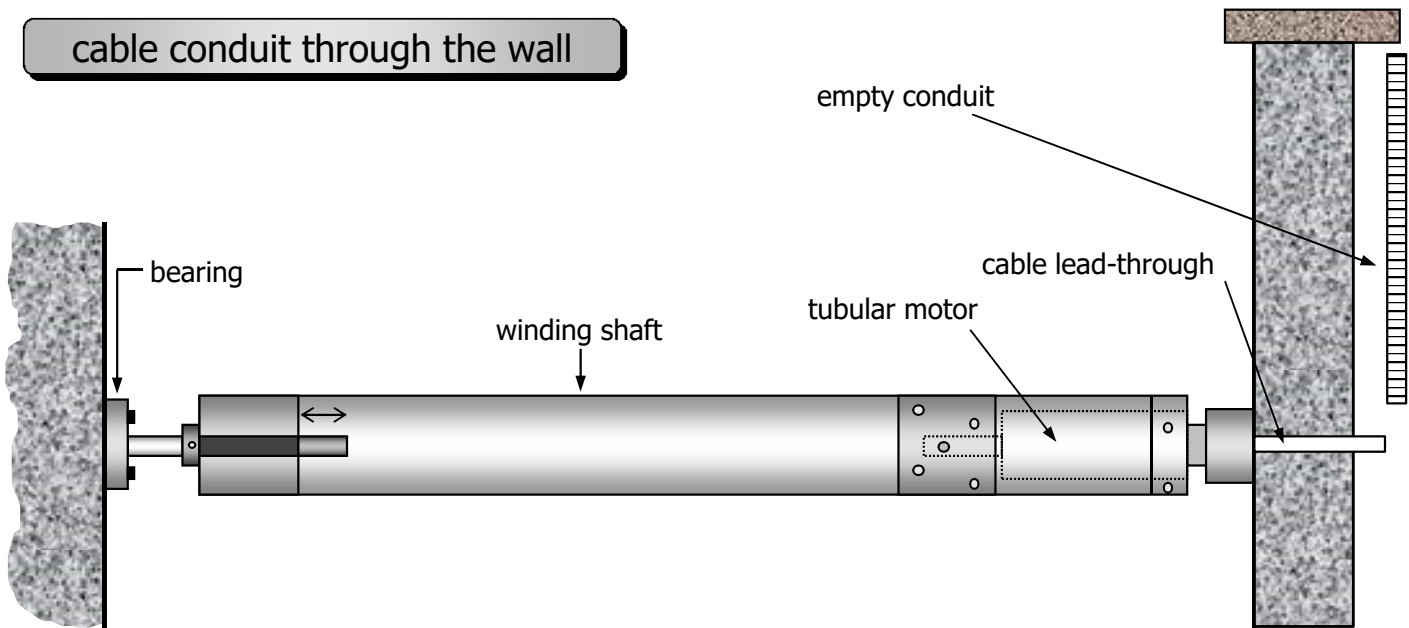
plan view



cable conduit on the wall



cable conduit through the wall



When using a tubular motor, which gets its current supply through the pool wall, you have to use a special MKT-cable lead-through.

This cable lead-through can be brought in during the building time or afterwards through a drill hole.

The cable of the tubular motor has a standard length of 10m (longer cable at a premium) and is watertightly grouted.

To replace the motor at a subsequent date it is required to install the cable after passing the lead-through into an empty conduit.

The empty conduit and its connection to the lead-through will be delivered by MKT in the needed length and mounted if required. In case of self-assembly MKT does not warranty the tightness of the connection.

The end of the empty conduit will be sealed against pressing water by a special end plug.

To get extra safety it is advisable to lead the empty conduit higher than the water level at one point.

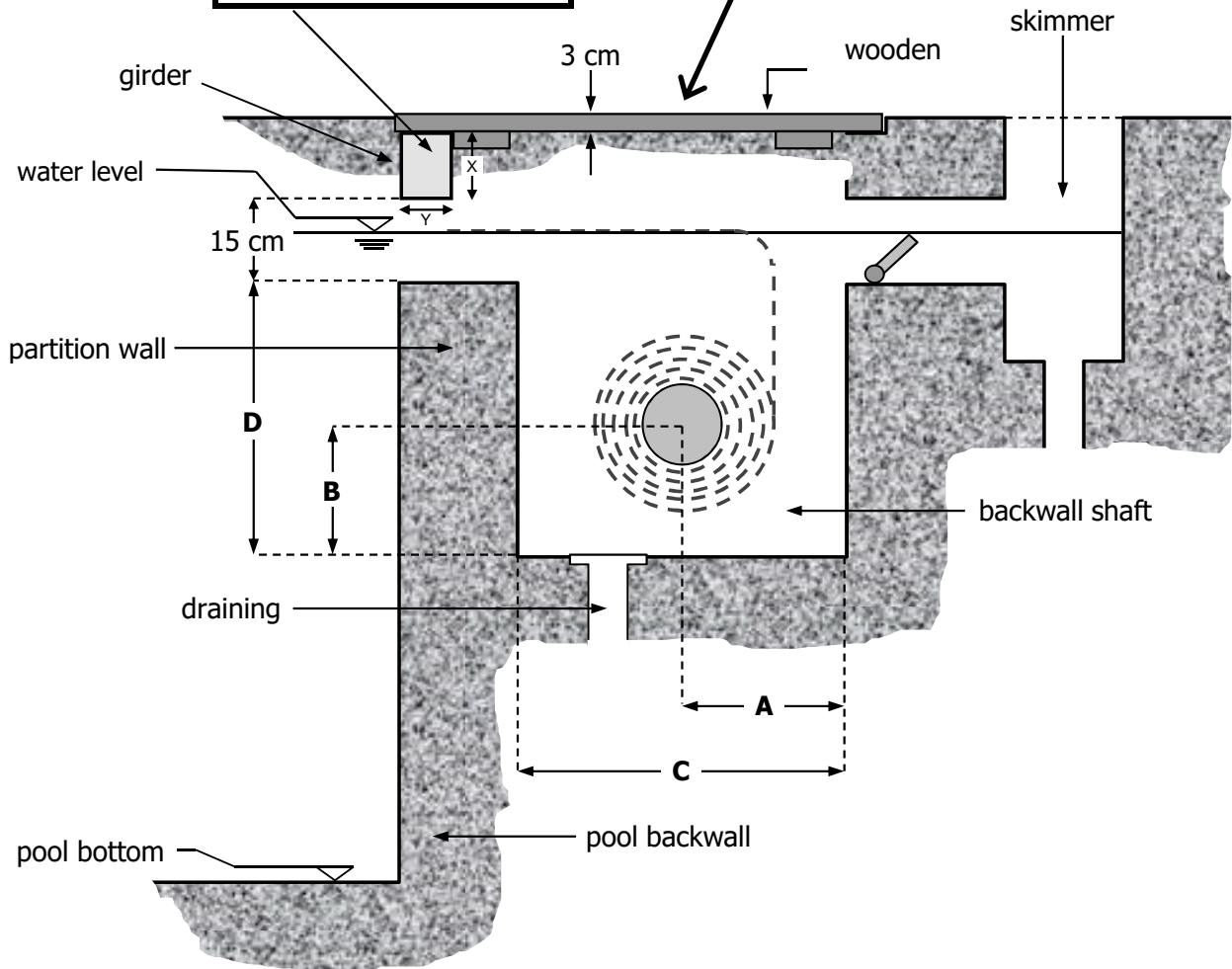
Tight radii should be avoided.

If the distance between motor and transformer/drive control is longer than the motor cable, a tight connecting box, which remains permanently accessible, should be installed.

girder dimensions		
pool width	X	Y
up to 4 m	100 mm	60 mm
up to 6 m	120 mm	80 mm

for higher load
 please ask dimensions !

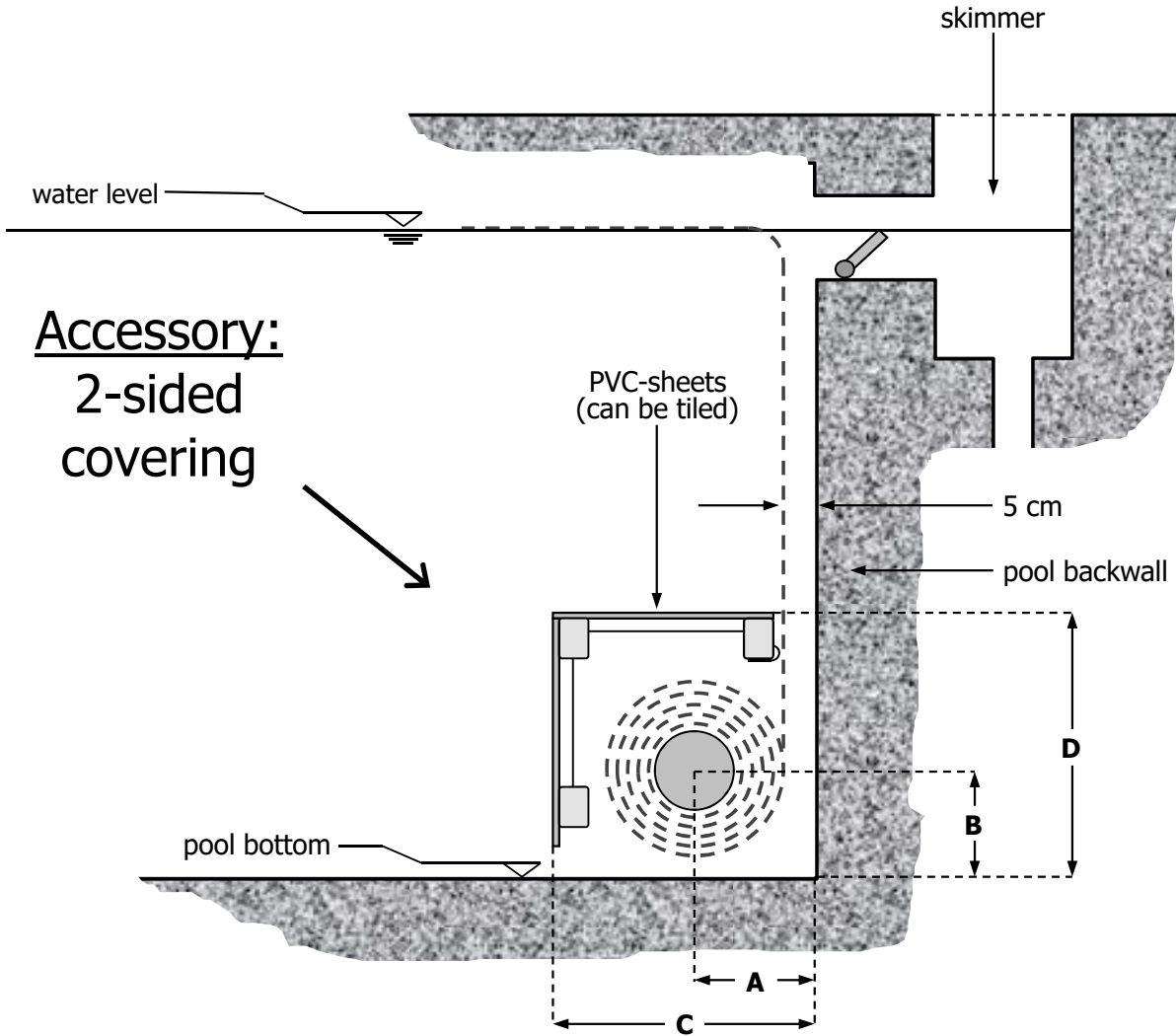
Accessory:
 girder
 with duckboard



pool length	A	B	C	D
up to 6 m	28 cm	28 cm	56 cm	65 cm
up to 8 m	30 cm	30 cm	60 cm	70 cm
up to 10 m	33 cm	33 cm	66 cm	75 cm
up to 12 m	35 cm	35 cm	70 cm	80 cm
up to 15 m	40 cm	40 cm	80 cm	90 cm

for pool shapes with
 Roman Ends, bevels or
 similar formations
 please ask
 shaft depth "D" !

for liner pools consider
 the roundings in the corners !



Accessory:
 2-sided
 covering

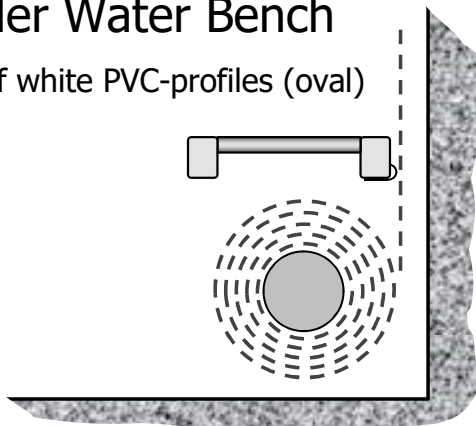
pool length

	A	B	C	D
up to 6 m	28 cm	28 cm	60 cm	65 cm
up to 8 m	30 cm	30 cm	65 cm	70 cm
up to 10 m	33 cm	33 cm	70 cm	75 cm
up to 12 m	35 cm	35 cm	75 cm	80 cm
up to 15 m	40 cm	40 cm	85 cm	90 cm

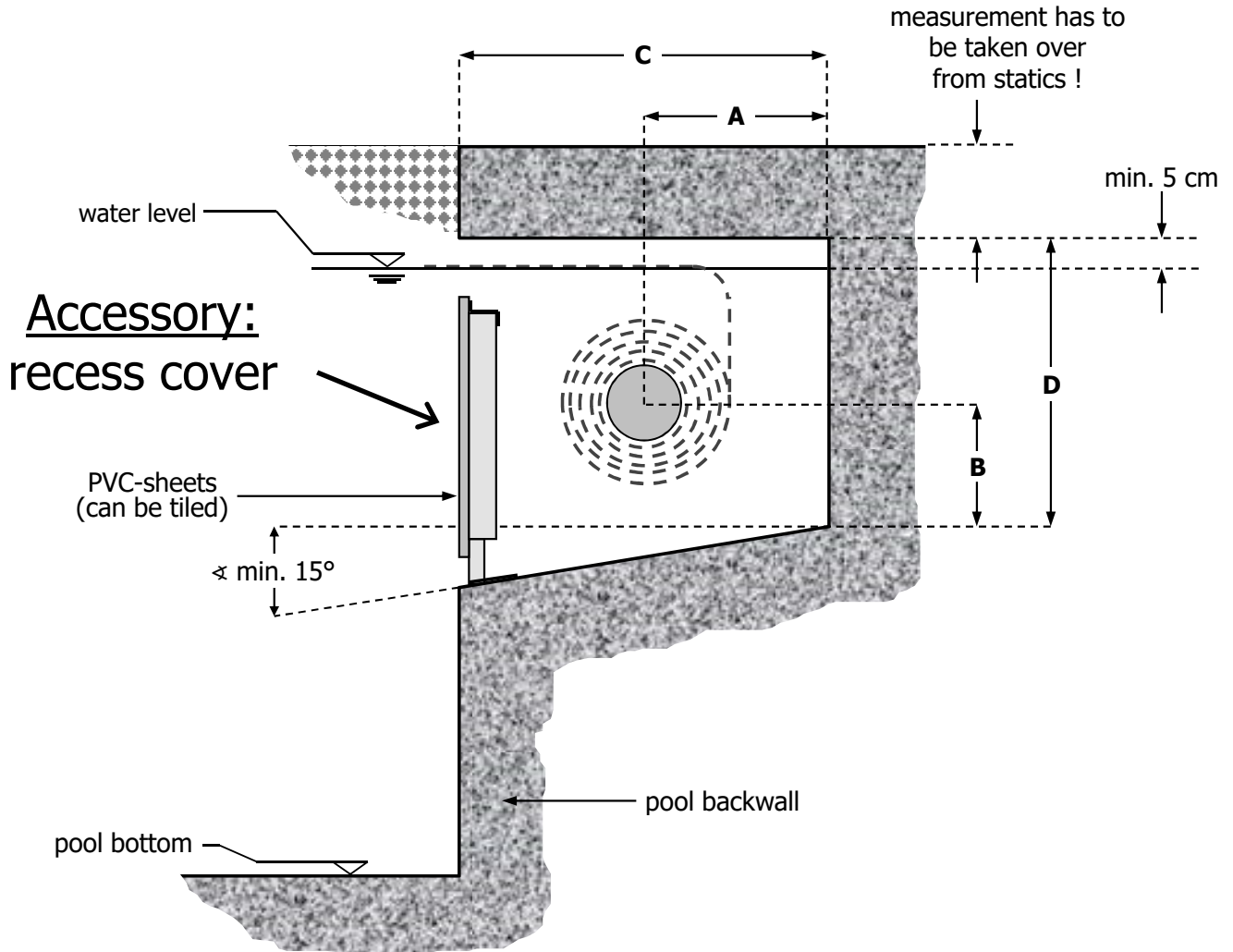
alternative with cantilever

Under Water Bench

made of white PVC-profiles (oval)



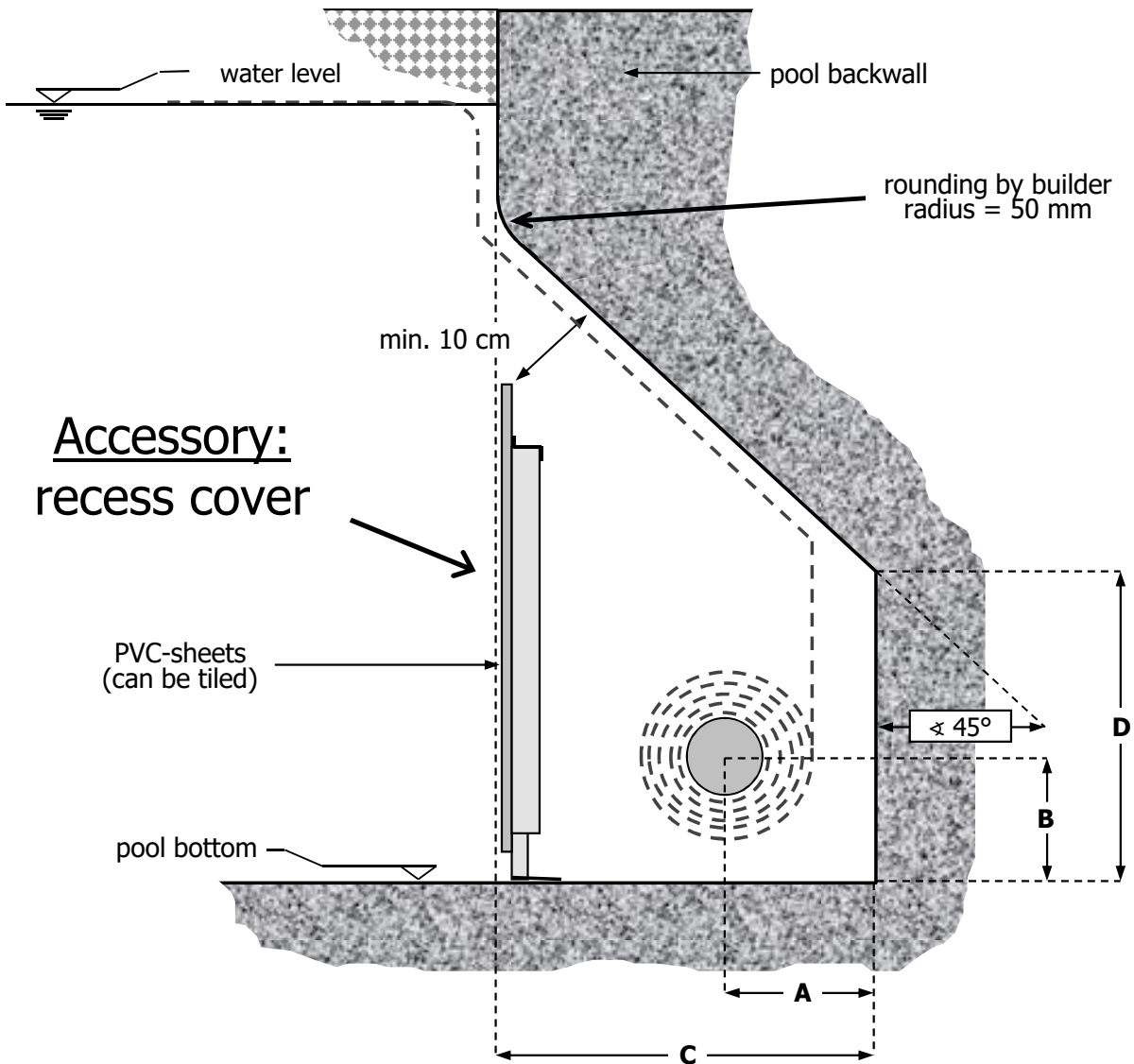
for liner pools consider
 the roundings in the corners !



pool length	A	B	C	D
up to 6 m	28 cm	28 cm	60 cm	65 cm
up to 8 m	30 cm	30 cm	65 cm	70 cm
up to 10 m	33 cm	33 cm	70 cm	75 cm
up to 12 m	35 cm	35 cm	75 cm	80 cm
up to 15 m	40 cm	40 cm	85 cm	90 cm

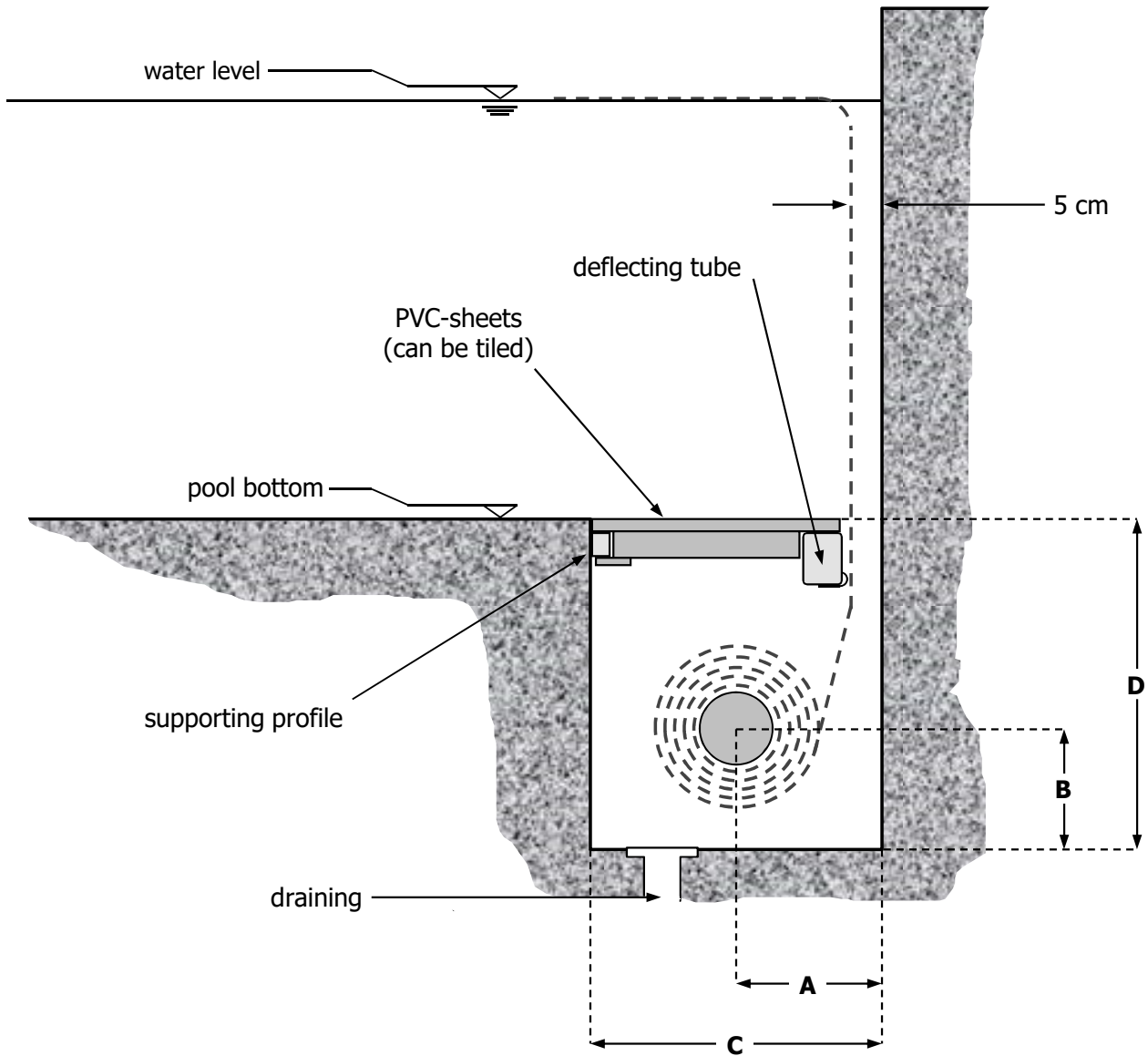
for liner pools consider the roundings in the corners !

for pool shapes with Roman Ends, bevels or similar formations please ask recess height "D" !



pool length	A	B	C	D
up to 6 m	28 cm	28 cm	60 cm	55 cm
up to 8 m	30 cm	30 cm	65 cm	60 cm
up to 10 m	33 cm	33 cm	70 cm	65 cm
up to 12 m	35 cm	35 cm	75 cm	70 cm
up to 15 m	40 cm	40 cm	85 cm	80 cm

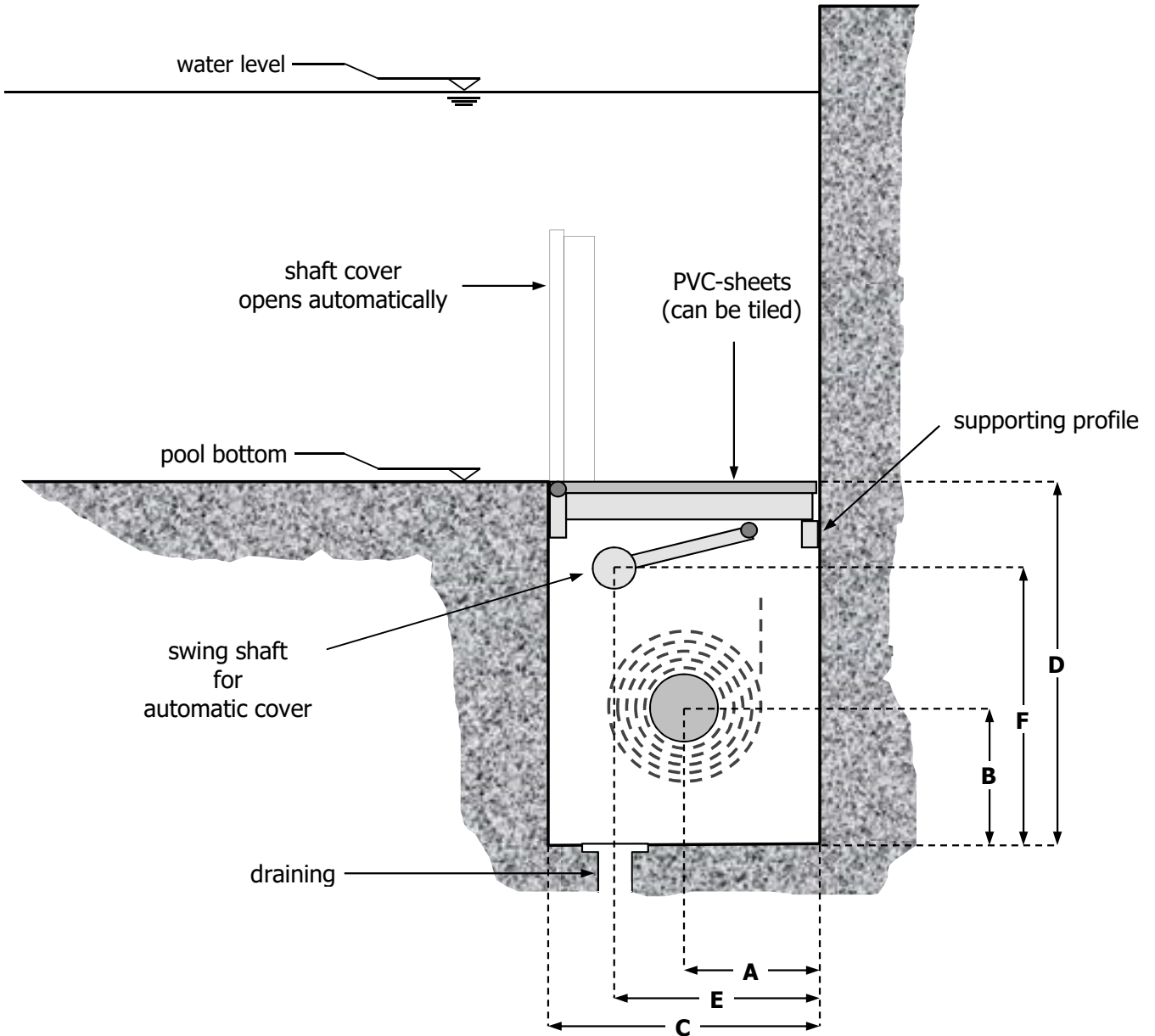
for liner pools consider the roundings in the corners !



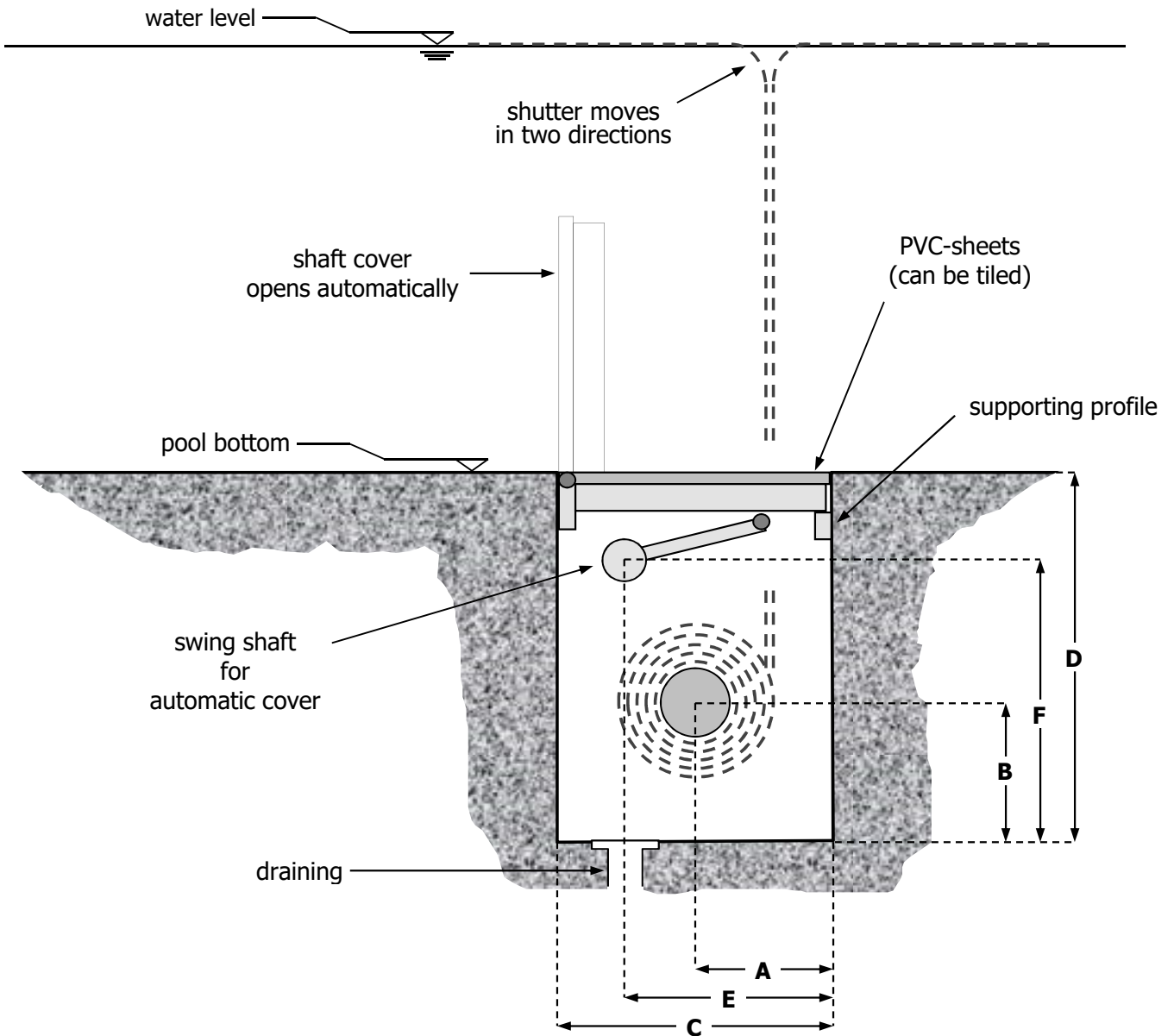
pool length	A	B	C	D
up to 6 m	28 cm	28 cm	60 cm	65 cm
up to 8 m	30 cm	30 cm	65 cm	70 cm
up to 10 m	33 cm	33 cm	70 cm	75 cm
up to 12 m	35 cm	35 cm	75 cm	80 cm
up to 15 m	40 cm	40 cm	85 cm	90 cm

for liner pools consider the roundings in the corners !

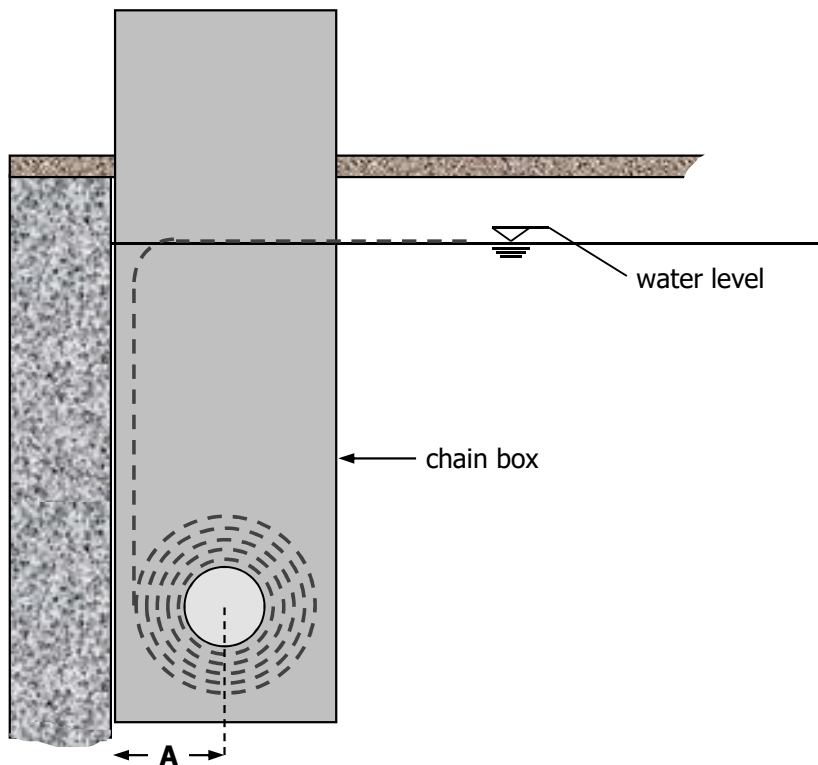
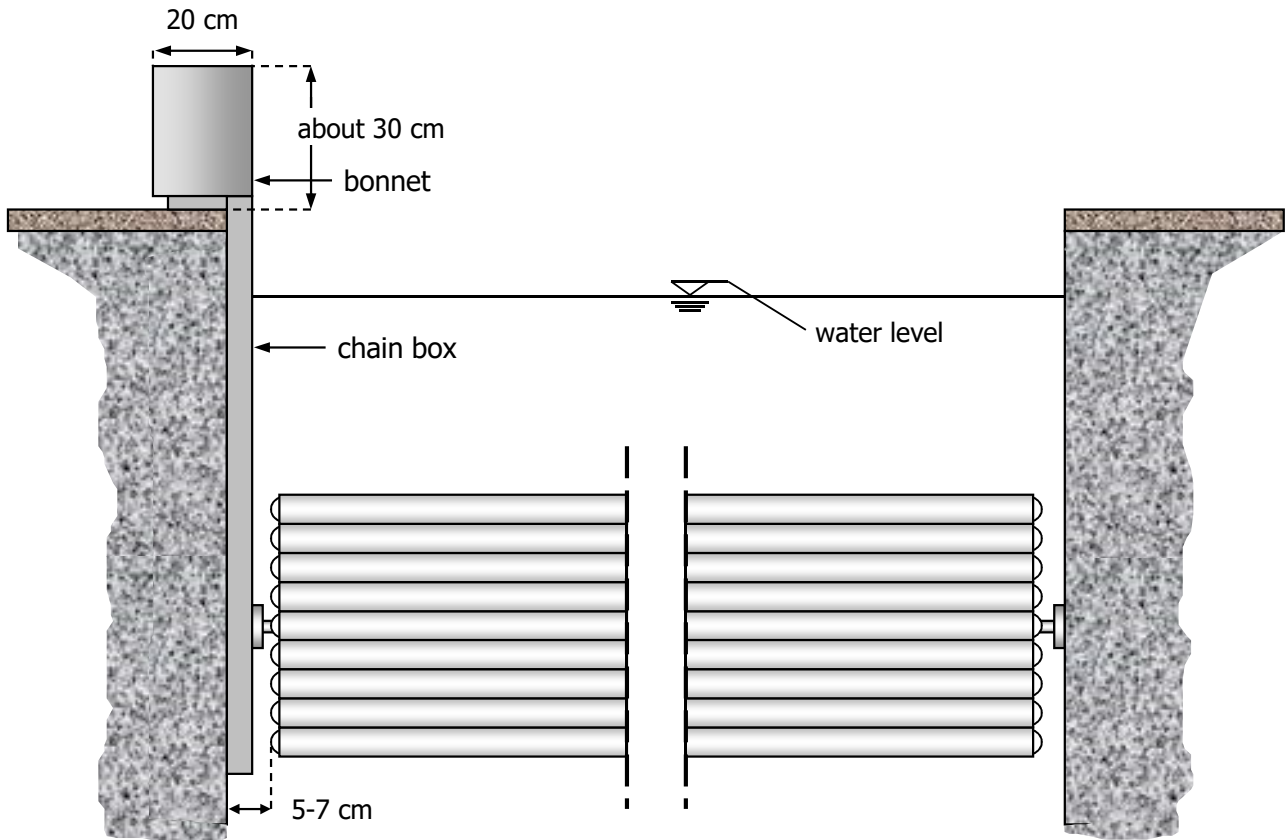
for pool shapes with Roman Ends, bevels or similar formations please ask shaft depth "D" !



pool length	A	B	C	D	E	F	for pool shapes with Roman Ends, bevels or similar formations please ask shaft dimensions "D" and "F" !
up to 6 m	33 cm	28 cm	65 cm	80 cm	48 cm	63 cm	
up to 8 m	35 cm	30 cm	65 cm	85 cm	48 cm	68 cm	
up to 10 m	38 cm	33 cm	70 cm	90 cm	53 cm	73 cm	
up to 12 m	40 cm	35 cm	75 cm	90 cm	58 cm	73 cm	
up to 15 m	45 cm	40 cm	85 cm	110 cm	68 cm	93 cm	
for liner pools consider the roundings in the corners !							



pool length	A	B	C	D	E	F	for pool shapes with Roman Ends, bevels or similar formations please ask shaft dimensions "D" and "F" !
up to 6 m	33 cm	28 cm	65 cm	80 cm	48 cm	63 cm	
up to 8 m	35 cm	30 cm	65 cm	85 cm	48 cm	68 cm	
up to 10 m	38 cm	33 cm	70 cm	90 cm	53 cm	73 cm	
up to 12 m	40 cm	35 cm	75 cm	90 cm	58 cm	73 cm	
up to 15 m	45 cm	40 cm	85 cm	110 cm	68 cm	93 cm	
for liner pools consider the roundings in the corners !							



pool length	A
up to 6 m	28 cm
up to 7 m	30 cm
up to 8 m	30 cm
up to 9 m	32 cm
up to 10 m	34 cm
up to 11 m	35 cm
up to 12 m	36 cm

• Handling

The pool cover works fully automatic and is basically activated by the operating switch.
 In case of malfunction of the operating switch the pool cover can be activated by the tip switches "AUF" and "ZU" inside the control enclosure.
 The operating switch works as a tip switch, that means after pushing it in one direction it returns into the central position and the pool cover runs into the stored end position.
 You can stop the pool cover by pushing the switch in any direction.

 **Attention !**

Before activating the pool cover you have to make sure that there is no person or object in the pool and that the water has calmed !

The opening and closing process has to be observed the whole time by an instructed Person !

If the cover is retarded or stopped by an obstacle, you have to switch it off immediately and take away the obstacle. After that you have to check if the shutter is still rolled up tightly.
 The tight fit of the shutters is very significant for the perfect reliability, especially for the correct shut down.

• Malfunction

If the cover does not work after pushing the switch, you have to check the electric supply at first (mains voltage, micro-fuse at the transformer, circuit-breaker at the transformer enclosure).
 If the power supply is given, but the cover still does not work, there is a malfunction message on the control board (see "Operating Instructions for Electronic Drive Control").
 In this case please call our technical support:

+49 / 2204 / 66277

• Maintenance

Under normal operating conditions the drive of the pool cover is maintenance-free.

As with all equipment that's in constant use or exposed to changing ambient conditions, there are several points you should bear in mind with our slatted covers :
 With outdoor pools, it is generally impossible to prevent leaves or other vegetation debris falling onto the pool cover when it is closed. Please ensure that these objects are not left on the cover for any prolonged period as the organic rotting process will result in permanent profile staining. Depending on the quality of water (water hardness in particular) in your swimming pool, deposits of limescale will build up on your pool cover. Please make sure you remove these deposits on a regular basis as they are difficult to get off by mechanical means once they are allowed to accumulate. As long as you take early action, deposits can be removed with relative ease using descaler products (e.g. pH Minus).
 Although leaf staining and limescale deposits (up to a certain degree) will not impair the way your swimming pool cover works, they should be avoided for the sake of appearance.

Please see separate information sheet for transparent shutters !

• Overwintering of outdoor pools

If you put your outdoor pool out of operation in winter, you should roll up the shutter and cover it with a tarpaulin to protect it against wind and dirt.
 To avoid unintended actuation of the shutter during this time you can disconnect the power supply by removing the micro-fuse at the transformer.

 **Attention !**

It is strictly recommended that the shutter does not come in contact with ponding water when the water treatment of the pool is out of operation. Organic rotting process will result in permanent profile staining.

• Emptying of the pool

If you intend to empty your pool, please keep in mind that the shutter comes to the water surface only through its own buoyancy. That means that the first part of the shutter, which is standing upright at the back wall in a filled pool, will drop to the bottom in an empty pool. Therefore it is recommended to fasten this part to the bale and unfasten it not until the water level is above the bale.
 Disregarding these instructions makes it necessary to adjust the end positions once again.

Type SIB

After filling the shaft you have to lead the shutter through the slit between the back wall and the girder of the shaft cover.
 Disregarding these instructions may cause significant damages to the shutter and the shaft cover !

Type AUK

To open and close the hatch you have to disconnect the shutter motor. As a result you can move the hatch without moving the shutter.