



Schwimmbad-Abdeckungen seit 1963  
pool covers • couvertures de piscines

## Technical description grando IBS

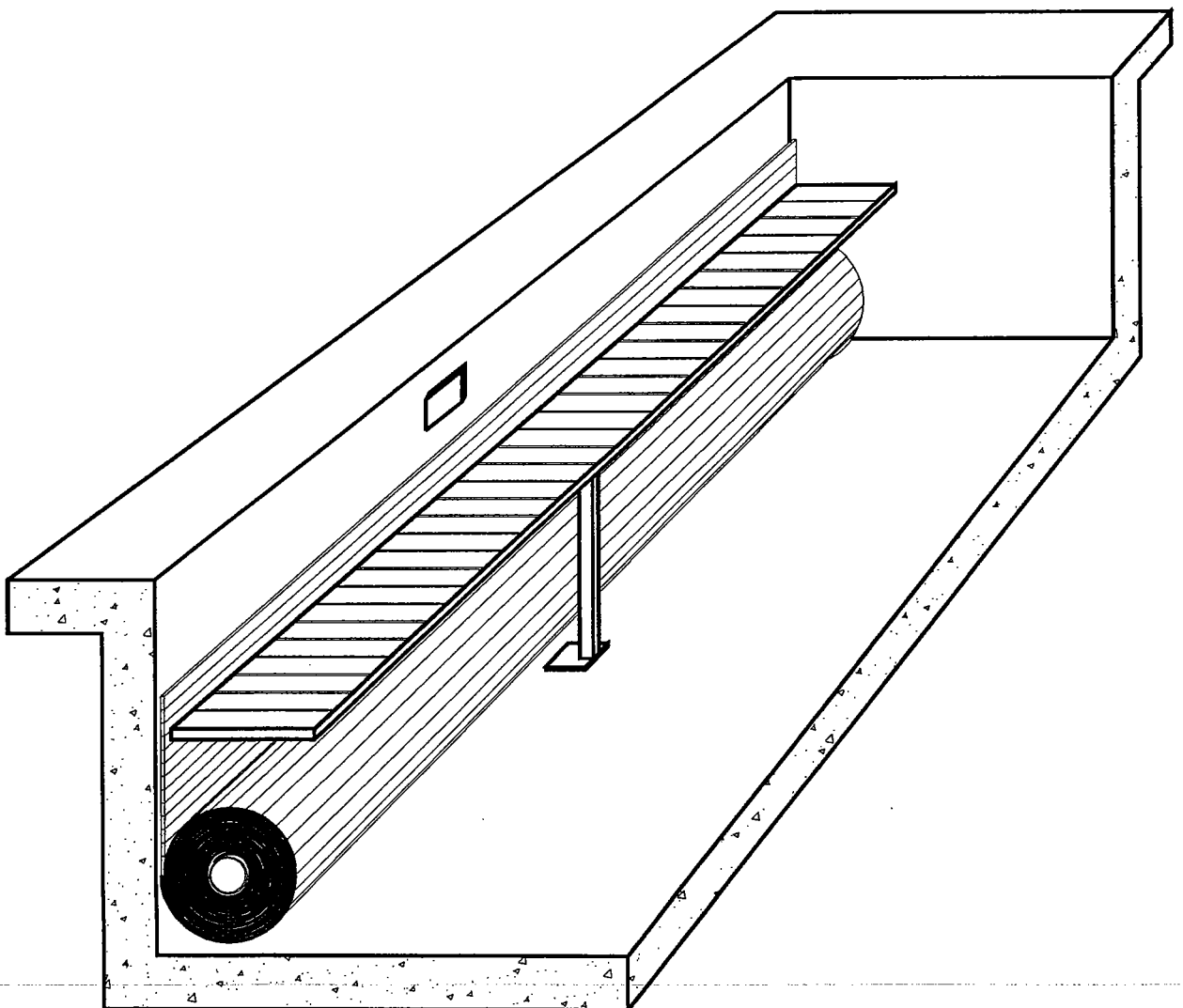
- Pool cover** A special smooth curved PVC profile creates a slatted pool cover with excellent water shedding properties. Available in white, blue and grey as standard colours. A solar version is available at an extra cost. The standard slats are reversible and can be turned over periodically to combat the build up of calcium deposits. Each slat has three internal hollow sections. Each section has a waterproof multilayered seal that forms a molecular bond with the PVC slat, this eliminates any differential expansion of the materials used and ensures a watertight seal. The system for joining the slats utilising stainless steel pins and plastic locking blocks, eliminates any lateral displacement of the slats and facilitates the removal and replacement of individual slats. The combination of the slat joining and end sealing systems means that radius corners, roman ends, cut outs and slanting cuts can be accurately reproduced. The slats are joined by a double hook system which provide a high tensile, very flexible joint between the slats. The PVC slats are resistant to ultra violet light, non biodegradable, non corrosive and completely hygienic. COMPACT covers are suitable for any pool up to 25 m x 10 m. With solar slats the heat energy from the sun is transferred into the pool water via the transparent upper side and block underside of the slats, therefore creating a saving on heating bills.
- Design** The non drive bearing and wall sleeve are formed from solid PVC.
- Drive unit** The drive unit is either 400 V/24 V DC or 230 V/24 V DC motor with integral PVC board, reduction gears, limit and safety limit switches and thermal trip protection mounted in an aluminium casing. The drive casing is covered with a PVC casing once installed.
- Carrier shaft** The carrier shaft and end journals are conserved from high grade stainless steel. The carrier shaft is driven by the motor through a sealed wall sleeve. The wall sleeve contains a bearing and water seals to prevent water ingress. The bearing is packed with special grease.
- Power supply** The transformer is either 400 V/24 V or 240/24 V with thermal protection. The transformer is supplied within an IP 55 rated casing.
- Key switch** The key switch is remotely located and consists of an anodised face plate with a removable key for the open/close operation and an emergency stop switch. The key switch is designed to be installed in the wall.

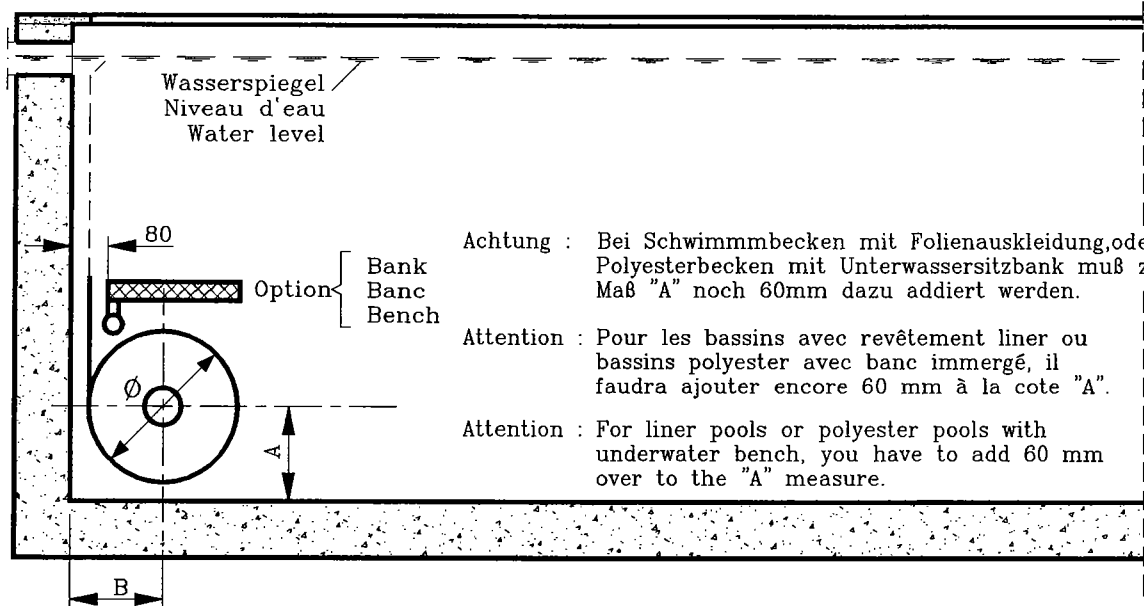
## ACCESSORIES

- Underwater - bench** An underwater bench is available for the IBS-1 type cover. The rectangular hollow section high grade stainless steel frame has white PVC slatted inserts. For pools over 3.5 m wide a centre support is necessary.
- Underwater-pit cover** An underwater cover assembly is available for the IBS-2 type cover. The high grade stainless steel angle section framework has either white PVC slatted inserts or PVC inserts to accept tiles to match the floor tiling. The PVC inserts to accept tiles are available at an extra cost. Guide rollers are fitted to the rear of framework to protect the cover slats and connecting straps.
- Handrail** Special polished stainless steel handrail and brackets are essential for the prevention of accidents on standard pools. Accident prevention cannot be guaranteed with level deck pools.

IBS-1

- Possible to retrofit to existing pools (specially for indoor pools)
- Underwater bench stainless steel frame with guide rollers and removable PVC panels
- Underwater front pannel available
- Let enough place for the ground-vacuum cleaner

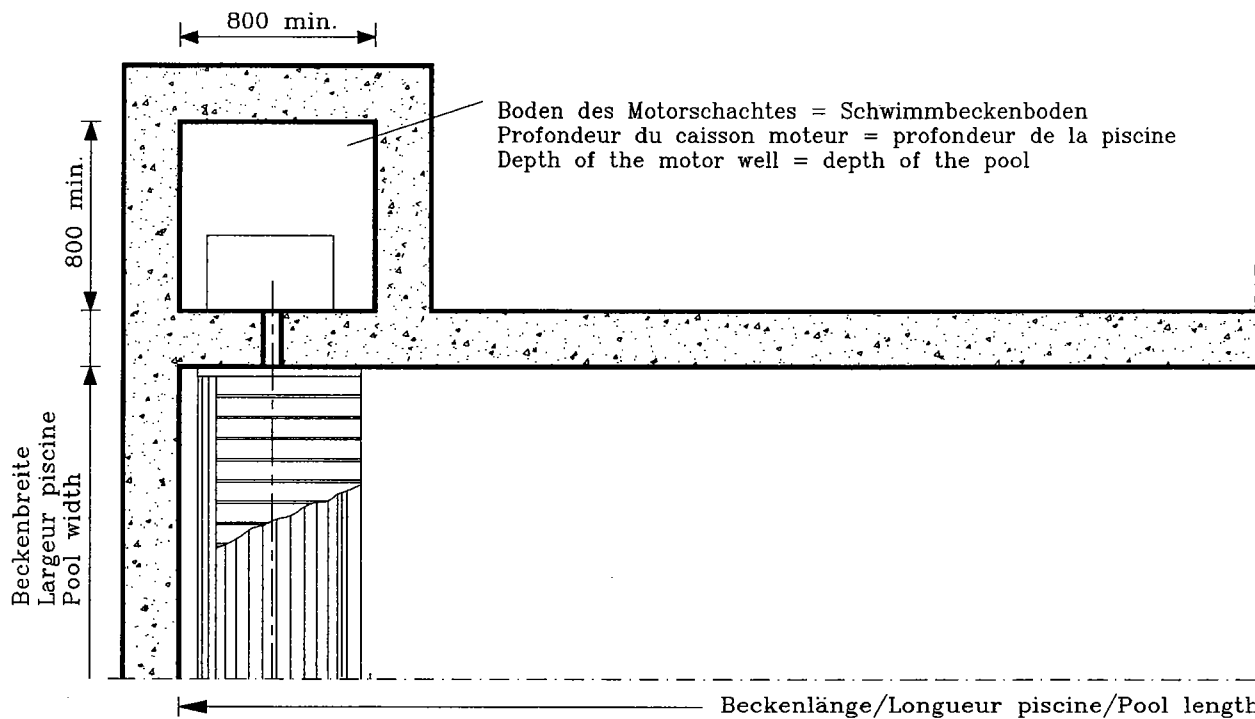




Achtung : Bei Schwimmbecken mit Folienauskleidung, oder Polyesterbecken mit Unterwassersitzbank muß zu Maß "A" noch 60mm dazu addiert werden.

Attention : Pour les bassins avec revêtement liner ou bassins polyester avec banc immergé, il faudra ajouter encore 60 mm à la cote "A".

Attention : For liner pools or polyester pools with underwater bench, you have to add 60 mm over to the "A" measure.



Beckenlänge Longueur pis. Pool length	Ballen $\phi$ mm $\phi$ volet $\phi$ cover	A mm	B mm
6 m	415	260	240
7 m	445	275	255
8 m	460	280	260
9 m	490	295	275
10 m	505	305	285
11 m	530	315	295
12 m	545	320	305
13 m	565	335	315
14 m	605	355	335
15 m	625	360	345
16 m	640	370	350
17 m	650	375	355

Maßangaben nur für Schwimmbecken ohne Schrägen und Rundungen sowie einer max. Beckenbreite von 7,00 m.

Cotes valables uniquement pr bassin sans découpes arrondies ou en biais, ainsi que pr largeur max. de 7,00 m.

Dimensions are only for pools without slant and round lines as well as a max. pool width up to 7,00 m.

Alle Maße sind Fertigmaße in mm.  
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All dimensions are finished dimensions in mm.  
Änderungen vorbehalten.  
Sous réserve de modifications.  
Subject to change

**grando**

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ABDECKUNG AM BECKENBODEN

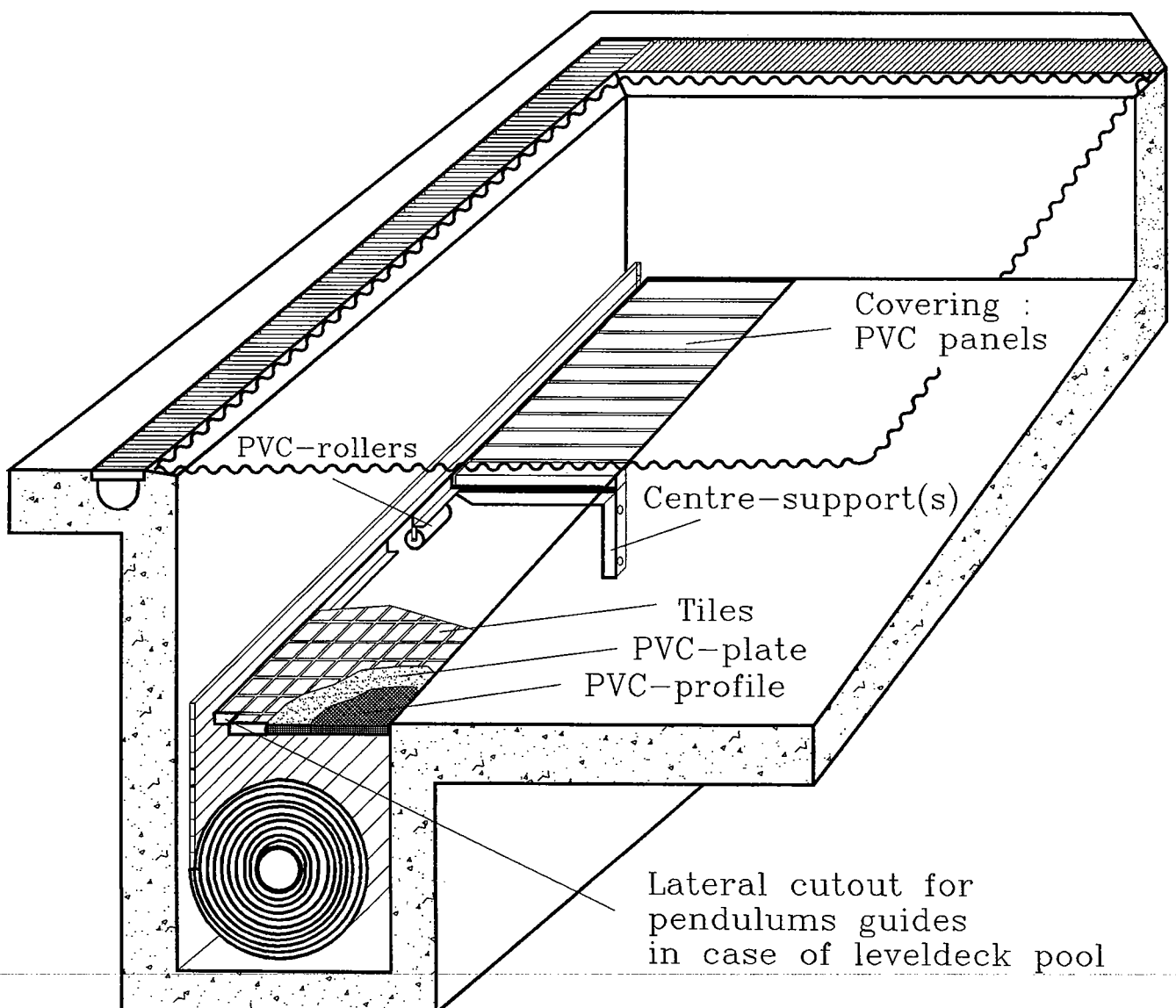
VOLET AU FOND DE LA PISCINE

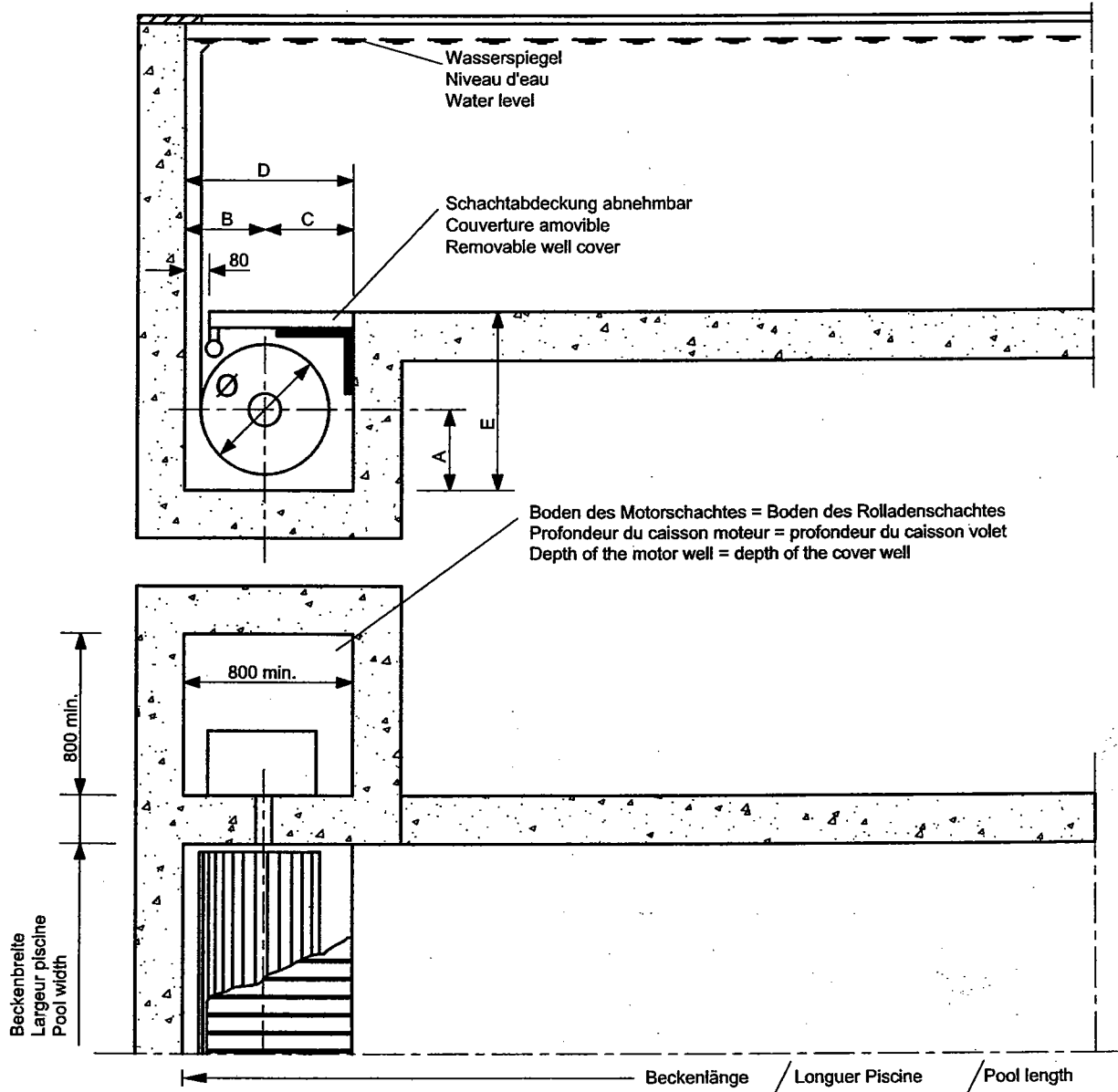
COVER AT THE BOTTOM OF THE POOL

I B S - 1

## IBS-2

- A return inlet and a floor sump should be installed in the cover pit
- Underwater pit cover with stainless steel frame and guide rolls and removable PVC panels
- Underwater pit cover available with PVC panels to accept tiles to match pool floor tiling





Beckenlänge Longueur pisc. Pool length	Ø Ballen Ø volet Ø cover	A	B	C	D	E
< 6 m	415	260	240	285	525	615
< 7 m	445	275	255	300	555	645
< 8 m	460	280	260	310	570	660
< 9 m	490	295	275	325	600	690
< 10 m	505	305	285	330	615	705
< 11 m	530	315	295	345	640	730
< 12 m	545	320	305	355	660	745
< 13 m	565	335	315	365	680	765
< 14 m	605	355	335	385	720	805
< 15 m	625	360	345	395	740	825
< 16 m	640	370	350	400	750	840
< 17 m	650	375	355	405	760	850
< 18 m	670	385	365	415	780	870
< 19 m	675	385	370	420	790	875

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02.07.91

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i/anl/302-001

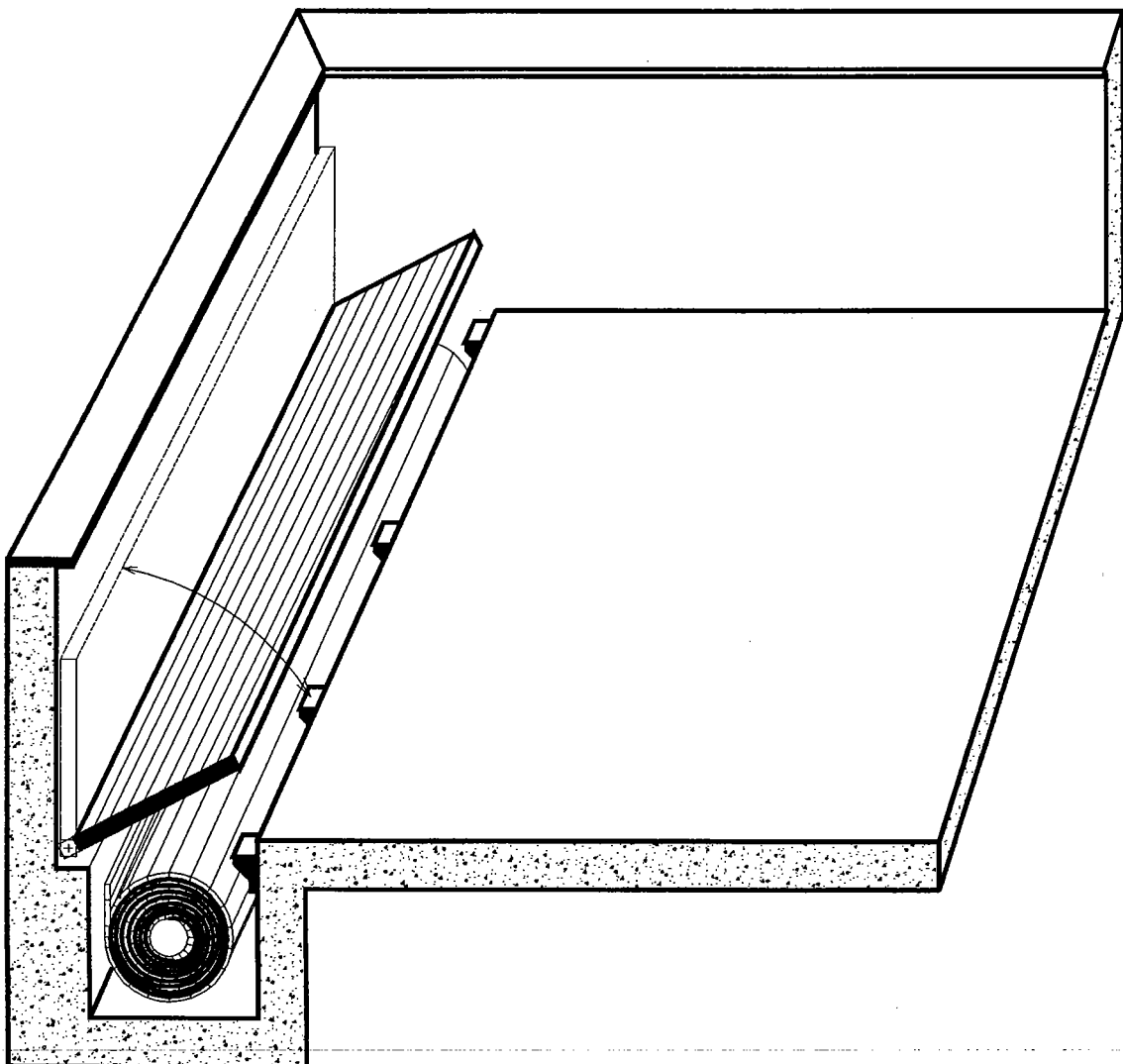
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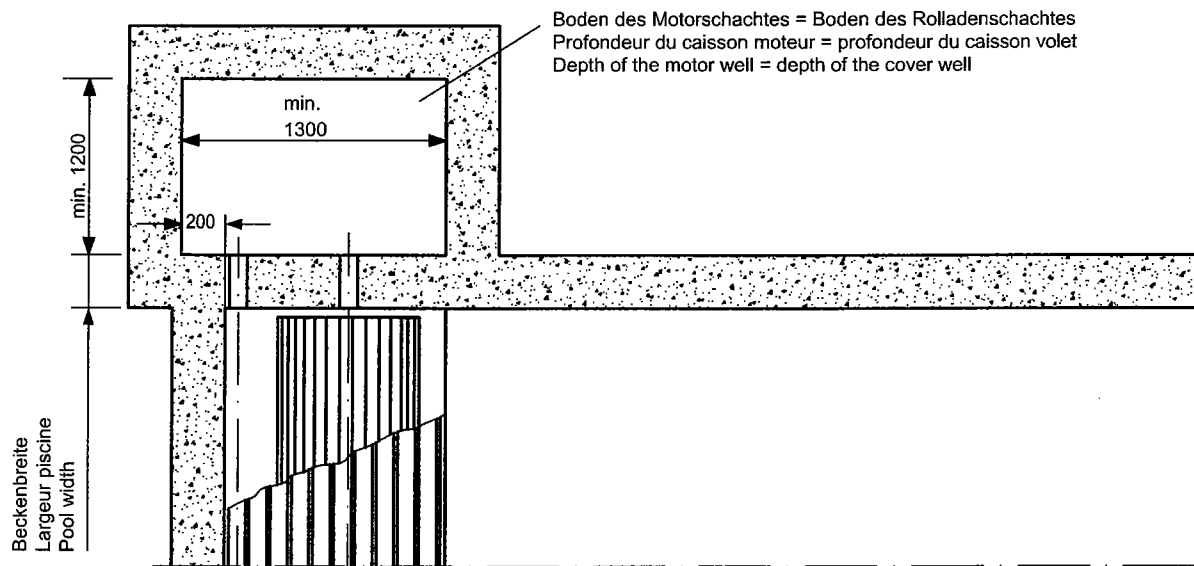
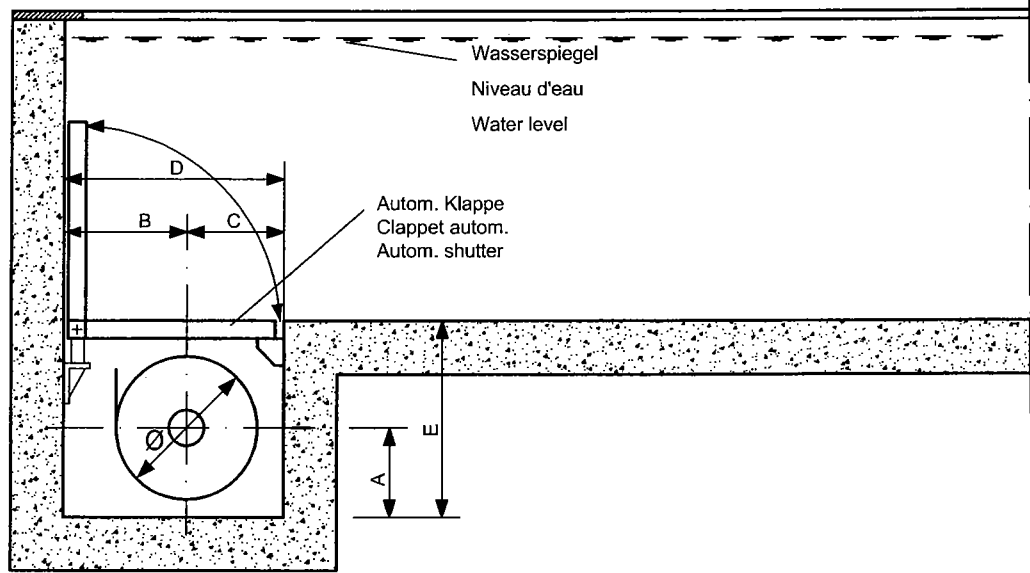
ABDECKUNG UNTER BECKENBODEN  
 VOLET AU-DESSOUS DE FOND DE LA PISCINE  
 COVER BELOW THE BOTTOM OF THE POOL

IBS-2

IBS-3

- Mostly for public pools, because no slop over 8 mm
- Automatic shutter with PVC profiles
- Grando limit-switch system (precise adjustment)
- Interlocked electrics system ensure the timed operation of shutter and slats





Beckenlänge Longueur pisc. Pool length	Ø Ballen Ø volet Ø cover	A	B	C	D	E
< 6 m	415	260	410	260	670	765
< 7 m	445	275	425	275	700	795
< 8 m	460	280	430	280	710	810
< 9 m	490	295	445	295	740	840
< 10 m	505	305	455	305	760	855
< 11 m	530	315	465	315	780	880
< 12 m	545	320	475	325	800	895
< 13 m	565	335	485	335	820	915
< 14 m	605	355	505	355	860	955
< 15 m	625	360	515	365	880	975
< 16 m	640	370	520	370	890	990
< 17 m	650	375	525	375	900	1000
< 19 m	675	390	540	390	930	1025

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 25.10.2006

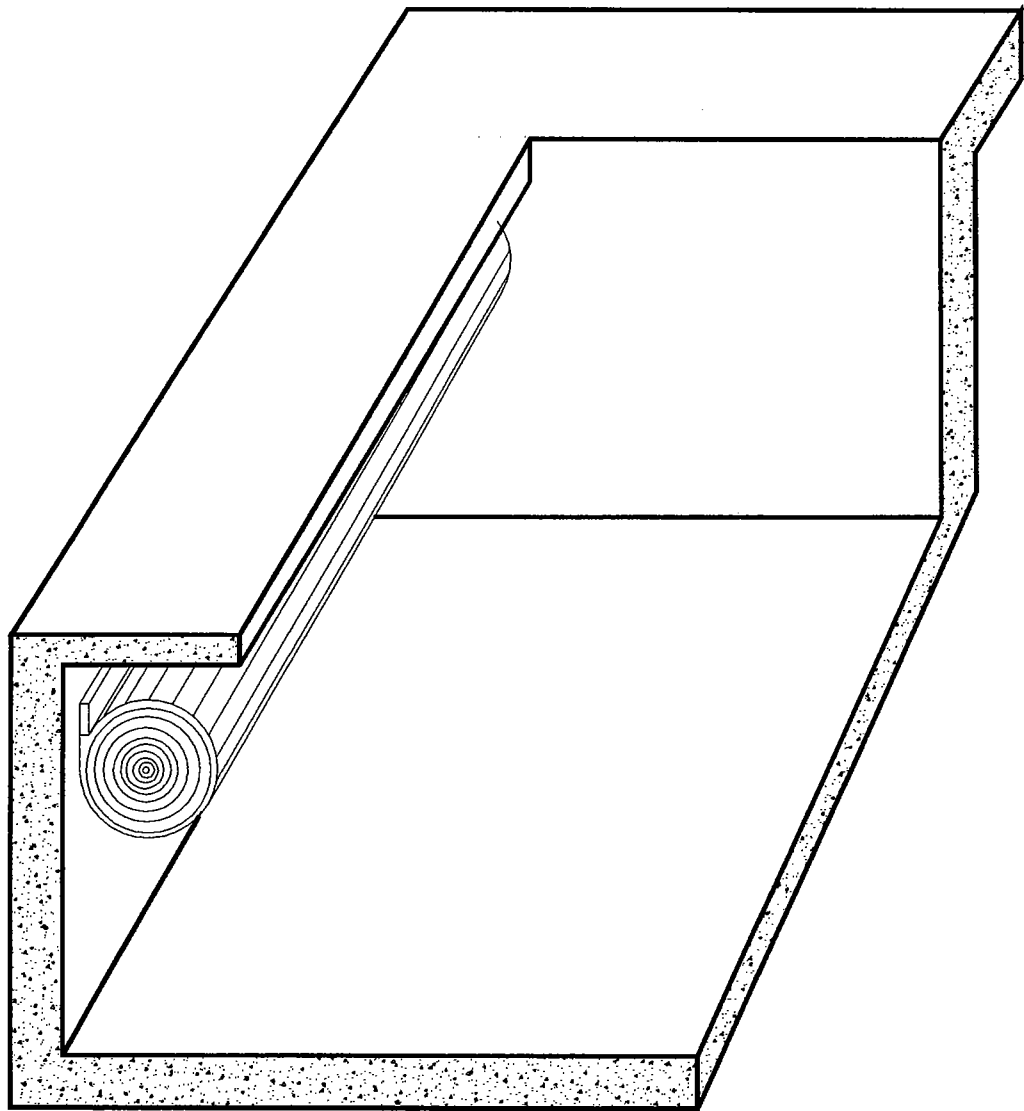
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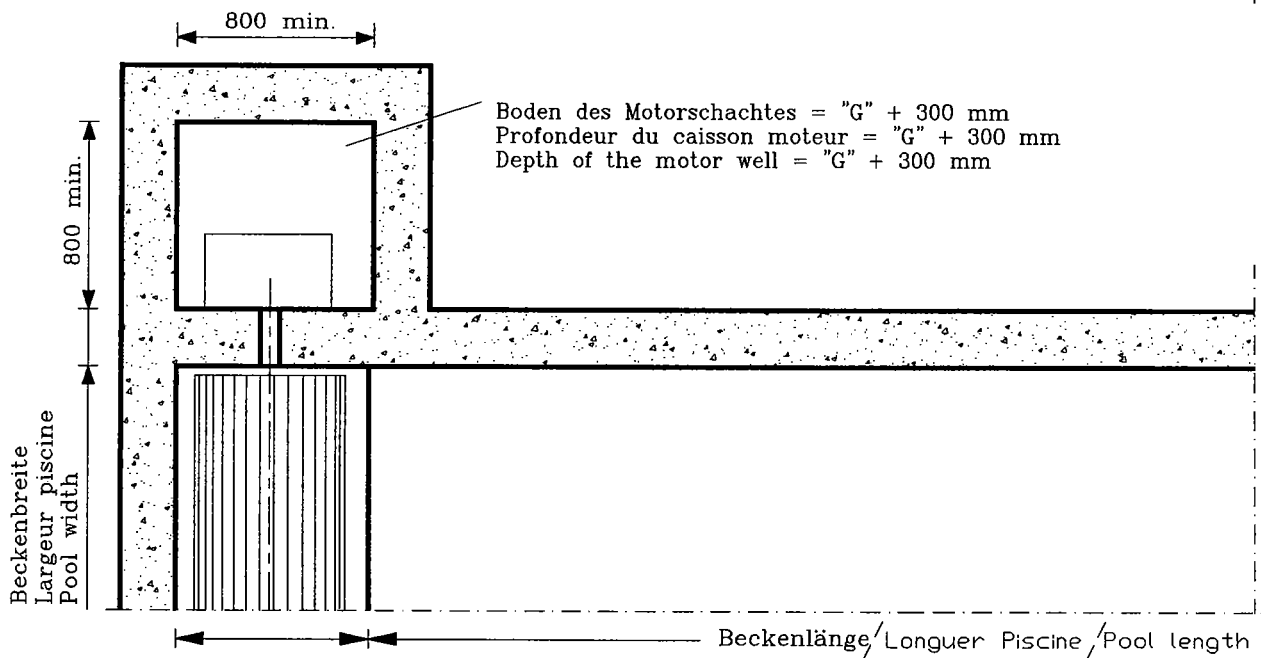
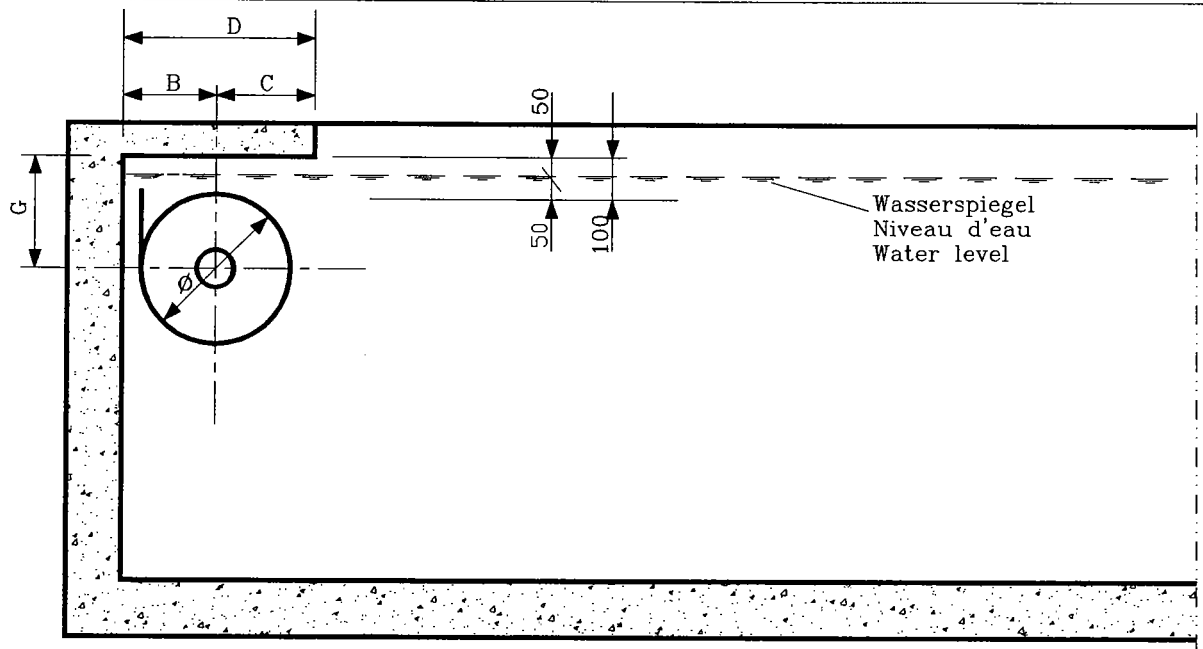
ABDECKUNG IN SCHACHT UNTER BECKENBODEN  
 MIT AUTOM. SCHACHTKLAPPE  
 VOLET AU-DESSOUS DU FOND DE LA PISCINE  
 AVEC CLAPPET AUTOMATIQUE  
 COVER BELOW THE BOTTOM OF THE POOL WITH  
 AUTOMATIC SCHATTER

IBS - 3

IBS-4








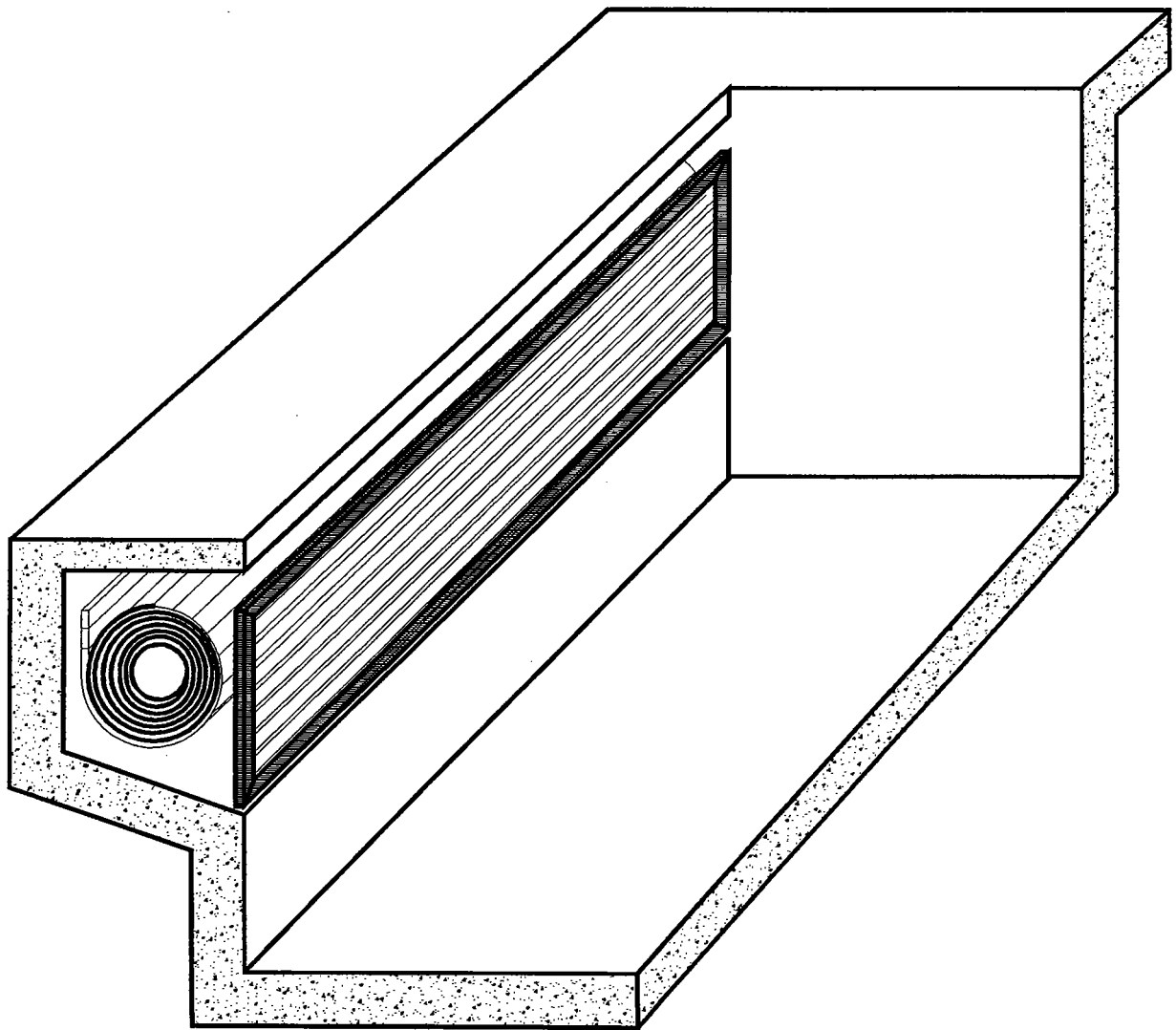
Beckenlänge Longueur pis. Pool length	Ballen $\phi$ mm $\phi$ volet $\phi$ cover	A	B	C	D	E	G
6 m	415		260	360	620		360
7 m	445		275	375	650		375
8 m	460		280	380	660		380
9 m	490		295	395	690		395
10 m	505		305	405	710		405
11 m	530		315	415	730		415
12 m	545		325	425	750		425
13 m	565		330	435	765		435
14 m	605		355	455	810		445
15 m	625		360	465	825		465
16 m	640		370	470	840		470
17 m	650		375	475	850		475

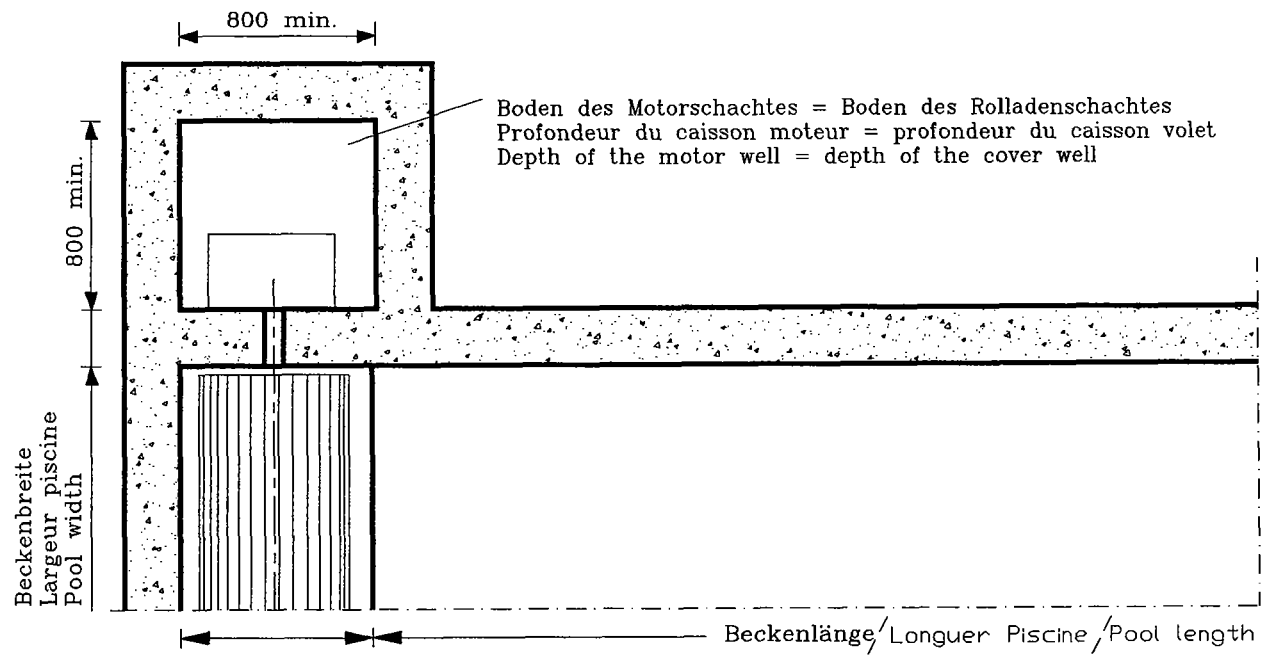
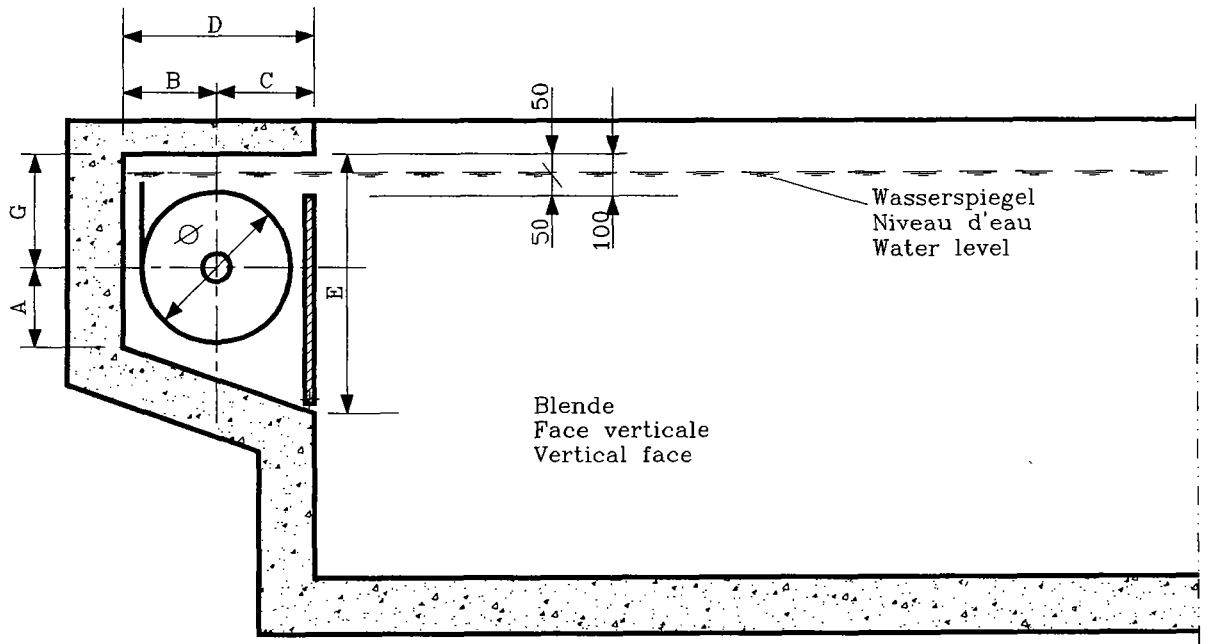
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		ABDECKUNG DIREKT UNTER DEM WASSERSPIEGEL VOLET JUSTE EN DESSOUS DU NIVEAU D'EAU COVER DIRECTLY BELOW THE WATER LEVEL			

IBS-5

- Front panelling
- Stainless steel frame with PVC-slats
- Depending on the dimensions of the front panel it may be necessary to install in sections





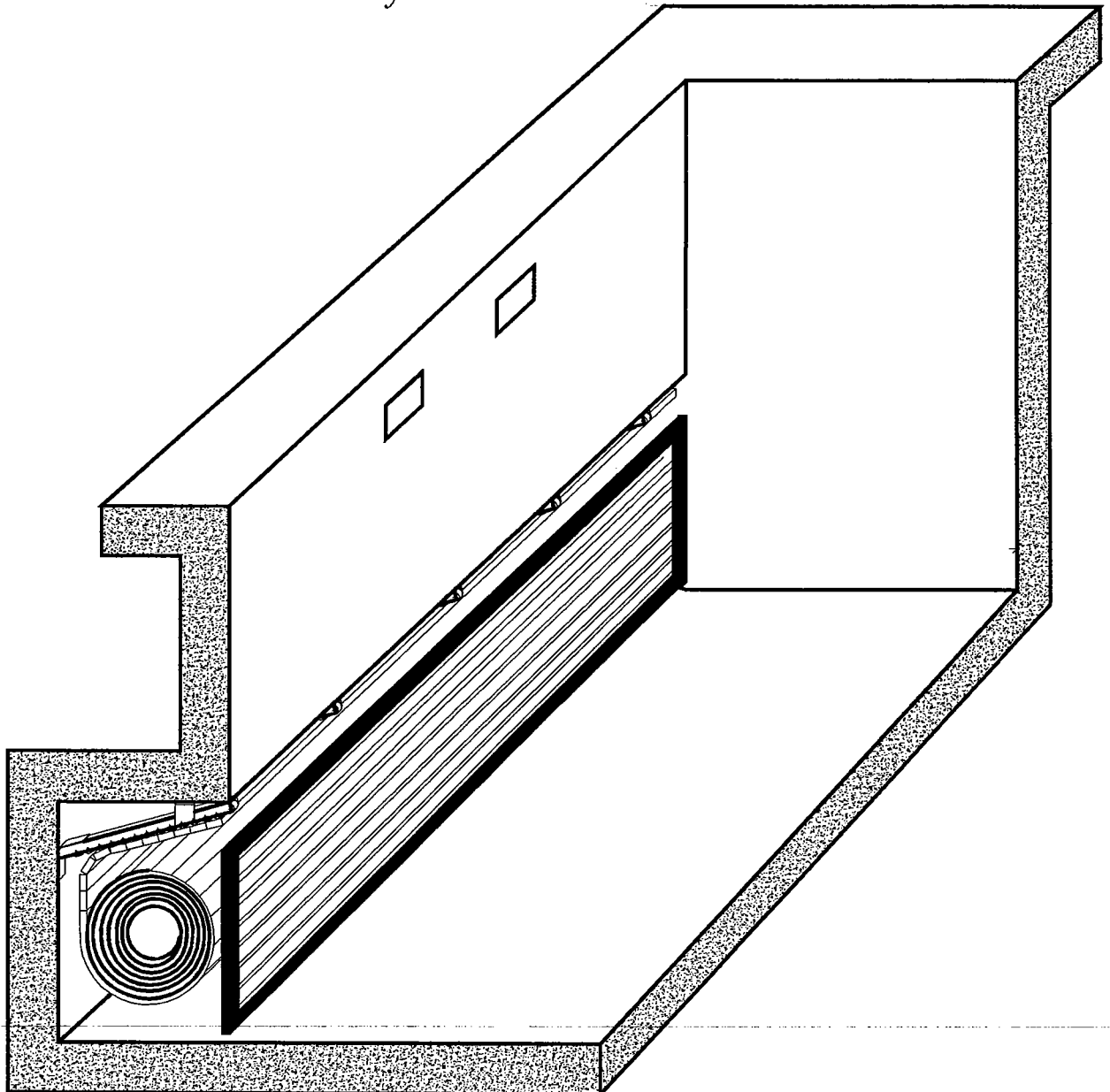
Beckenlänge Longueur piscine Pool length	Ballen $\varnothing$ mm $\varnothing$ volet $\varnothing$ cover	A	B	C	D	E	G
6 m	415	260	260	360	620	715	360
7 m	445	275	275	375	650	745	375
8 m	460	280	280	380	660	760	380
9 m	490	295	295	395	690	790	395
10 m	505	305	305	405	710	805	405
11 m	530	315	315	415	730	830	415
12 m	545	325	325	425	750	845	425
13 m	565	335	335	435	770	865	435
14 m	605	355	355	455	810	905	445
15 m	625	360	360	465	830	925	465
16 m	640	370	370	470	840	940	470
17 m	650	375	375	475	850	950	475

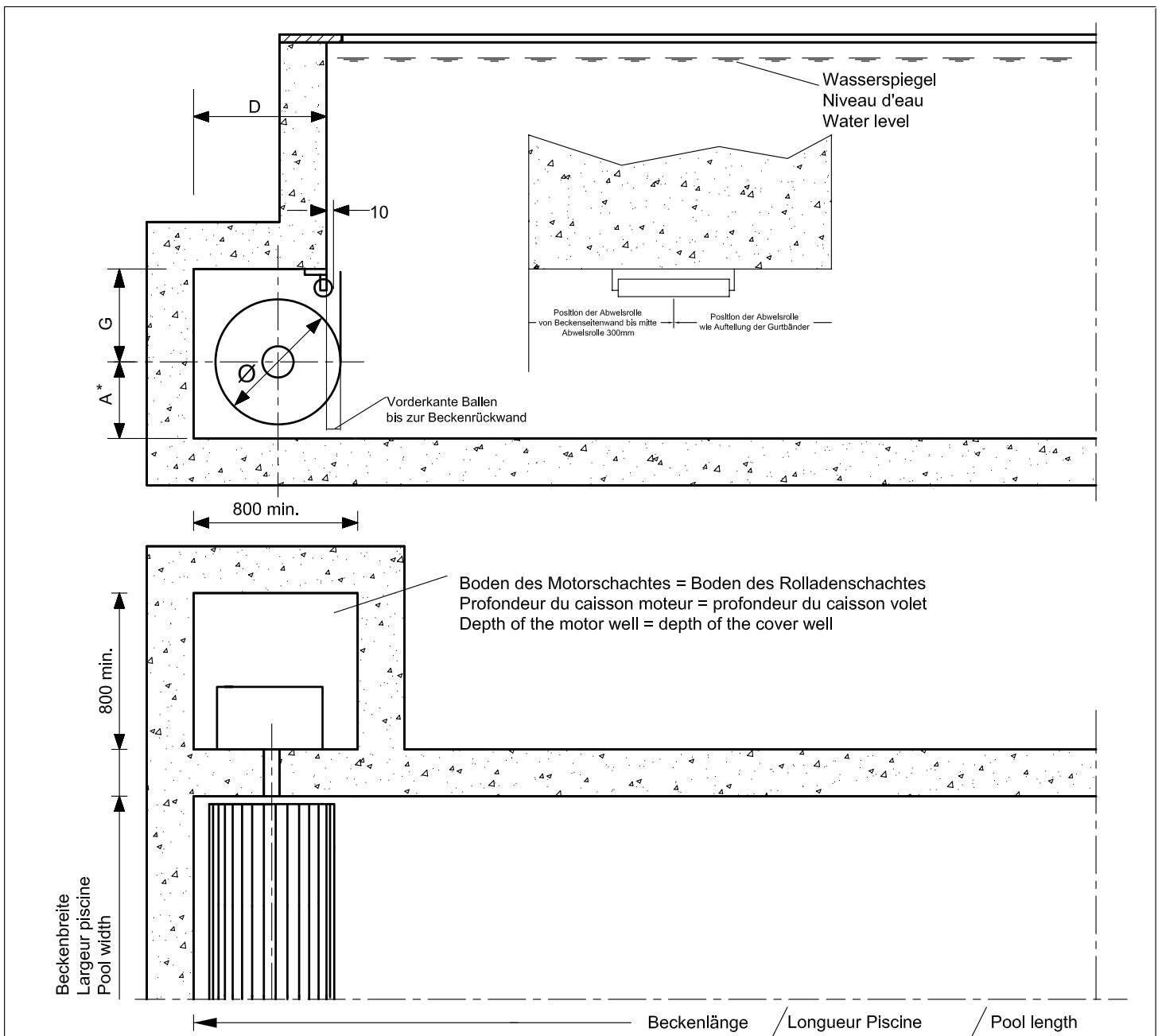
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		ABDECKUNG IN GESCHLOSSENER NISCHE VOLET DANS UNE NICHE FERMEE COVER IN CLOSED RECESS			I B S - 5

## IBS-6

- PVC guide rollers are necessary
- The opening and closing of the cover is a gentle movement
- It is possible to stop the cover at any point during the opening and closing procedure
- For the underwater panelling, the roll guides are necessary



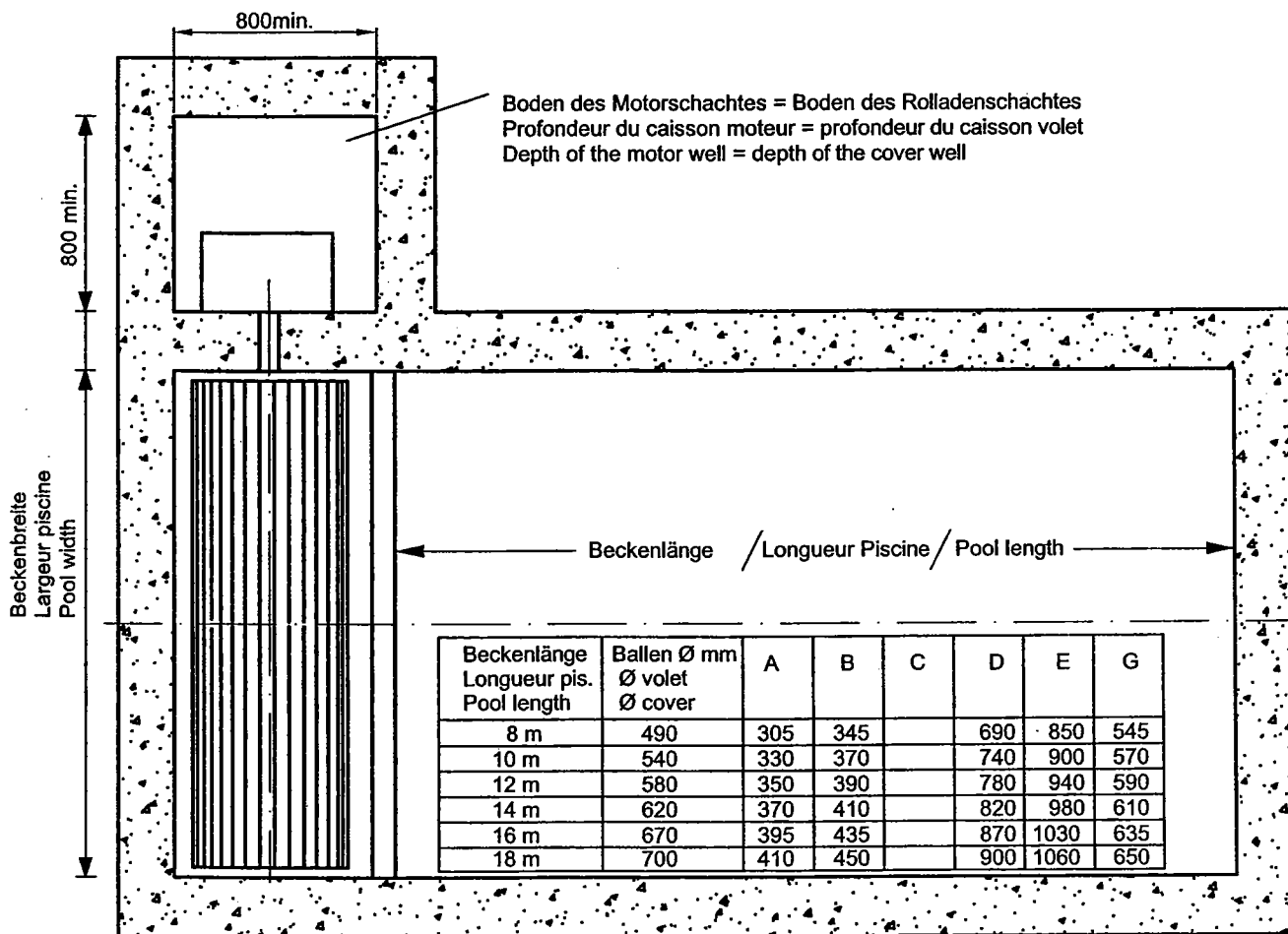
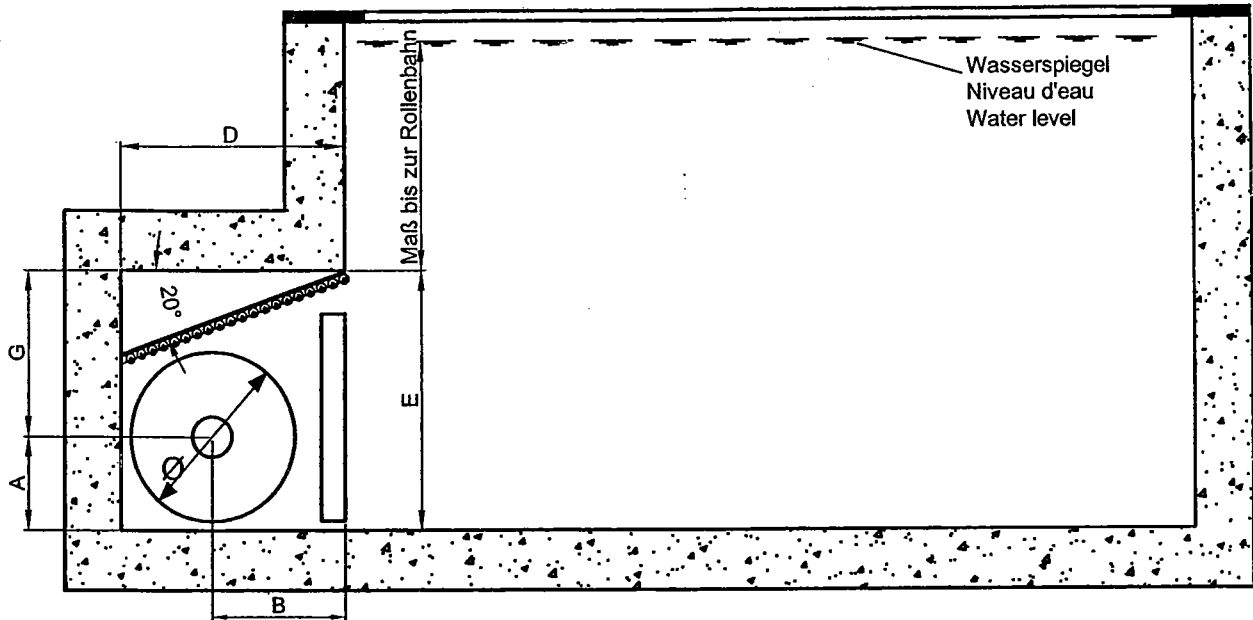


\* Bei Einsatz von autom. Bodenstaubsauger Maß "A" + 300 mm.  
 En cas d'un aspirateur de fond = cote "A" + 300 mm  
 In case of an automatic pool vacuum cleaner = measure "A" + 300 mm

Beckenlänge Longueur pis. Pool length	Ballen Ø mm Ø volet Ø cover	A*	B	C	D	E	G
6 m	415	260			465		270
7 m	445	275			495		285
8 m	460	280			510		295
9 m	490	295			540		305
10 m	510	305			560		315
11 m	535	315			585		325
12 m	545	320			595		330
13 m	585	335			635		345
14 m	605	355			655		365
15 m	630	360			680		370
16 m	640	370			690		380
17 m	655	375			695		385

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		ABDECKUNG AUF BECKENBODENNIVEAU IN DIE BECKENWAND EINGELASSEN VOLET DANS LE MUR DE LA PISCINE CETTE FOIS CI AU NIVEAU DU SOL COVER RECESSED INTO THE POOL WALL AT FLOOR LEVEL			



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04.11.2002

Richartz

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ABDECKUNG AUF BECKENBODENNIVEAU IN DIE  
BECKENWAND EINGELASSEN

VOLET DANS LE MUR DE LA PISCINE  
CETTE FOIS CI AU NIVEAU DU SOL

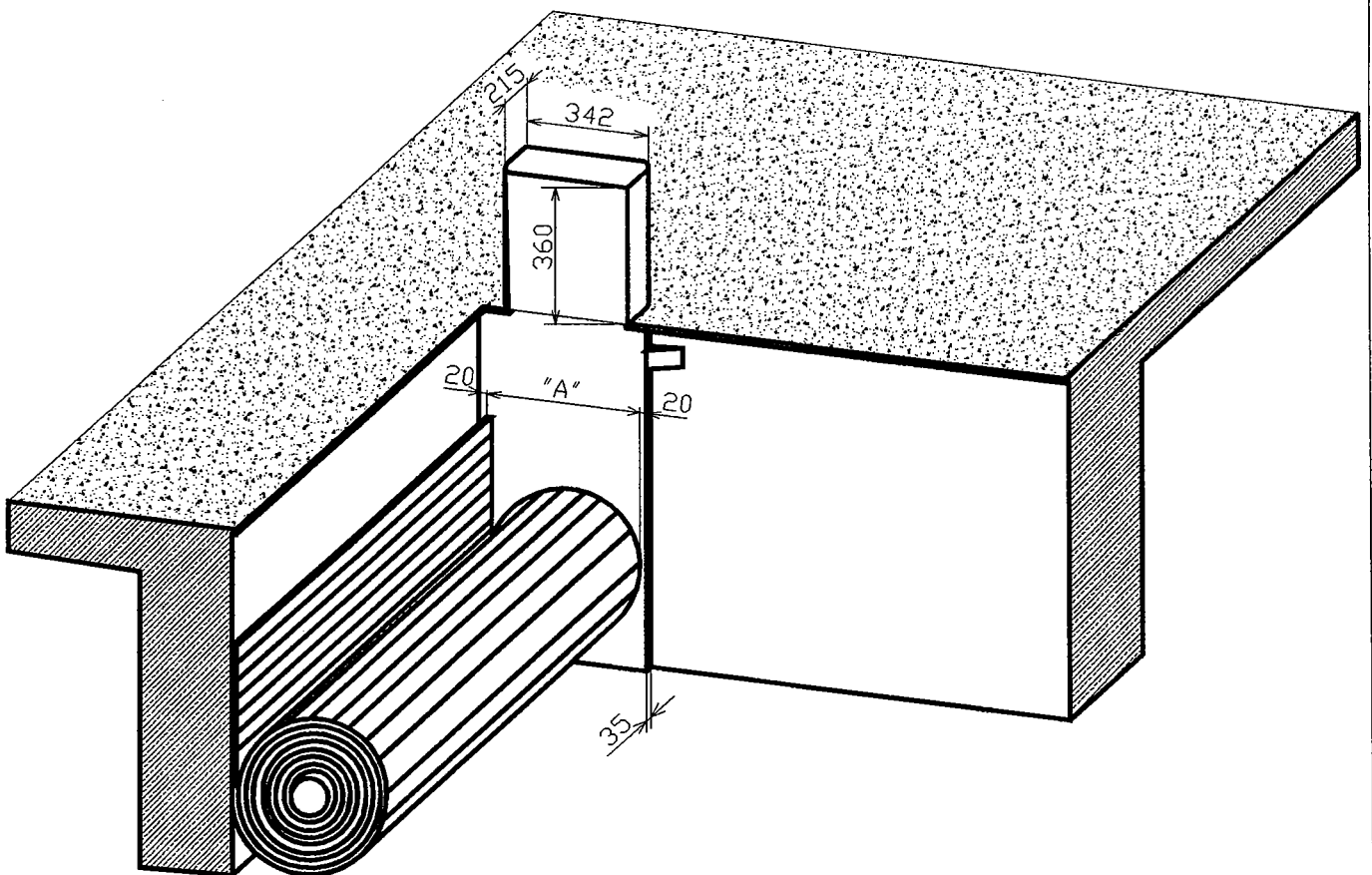
COVER RECESSED INTO THE POOL WALL  
AT FLOOR LEVEL

IBS - 6



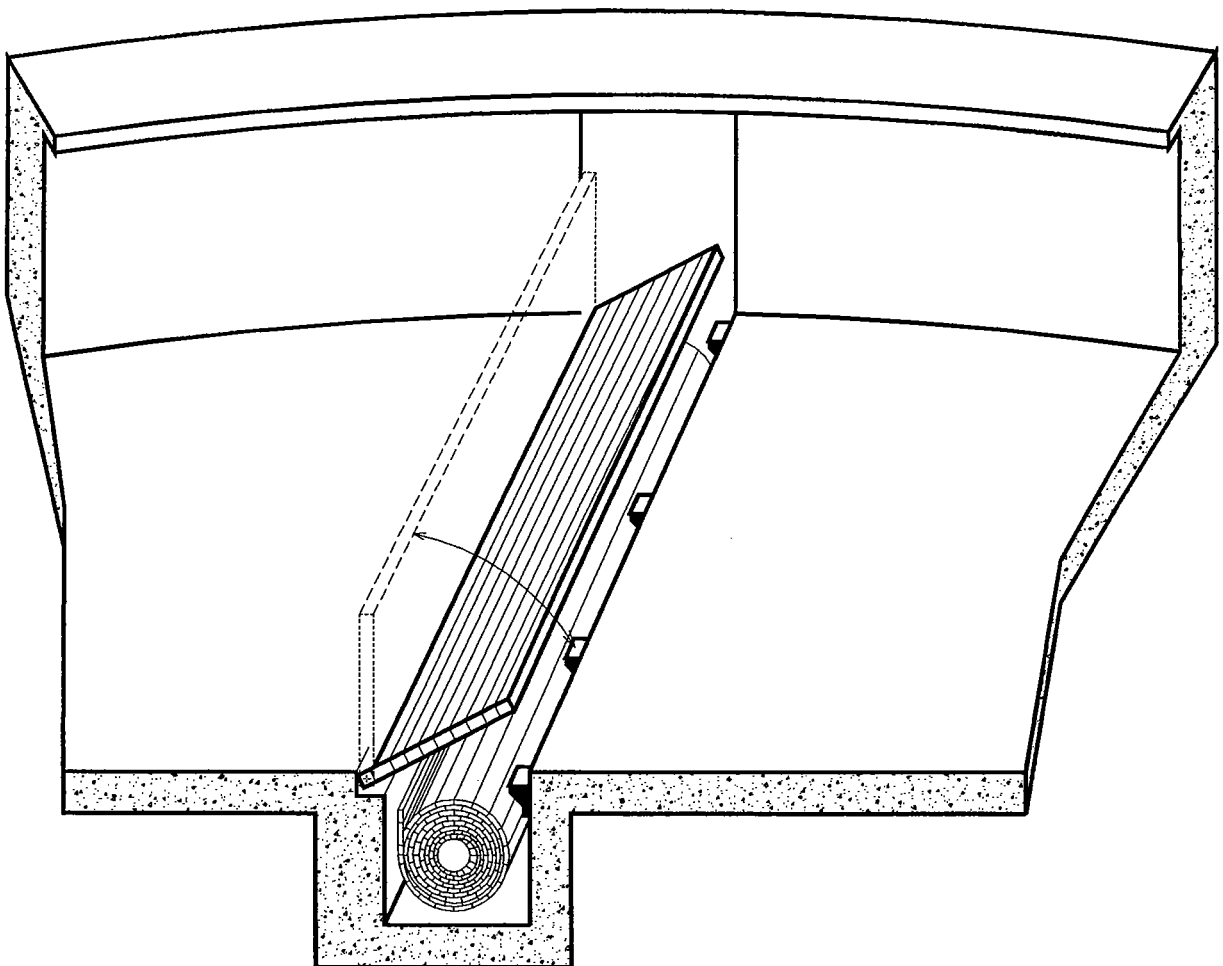
## IBS-7

- Allows on underwater IBS cover to be installed without a wall sleeve
- Driving-unit in a PVC box installed on the pool-edge
- Connexion between the motor and the shaft via stainless steel chain covered with a PVC panel
- The PVC plate is 35 mm from the pool wall to allow for movement in the chain



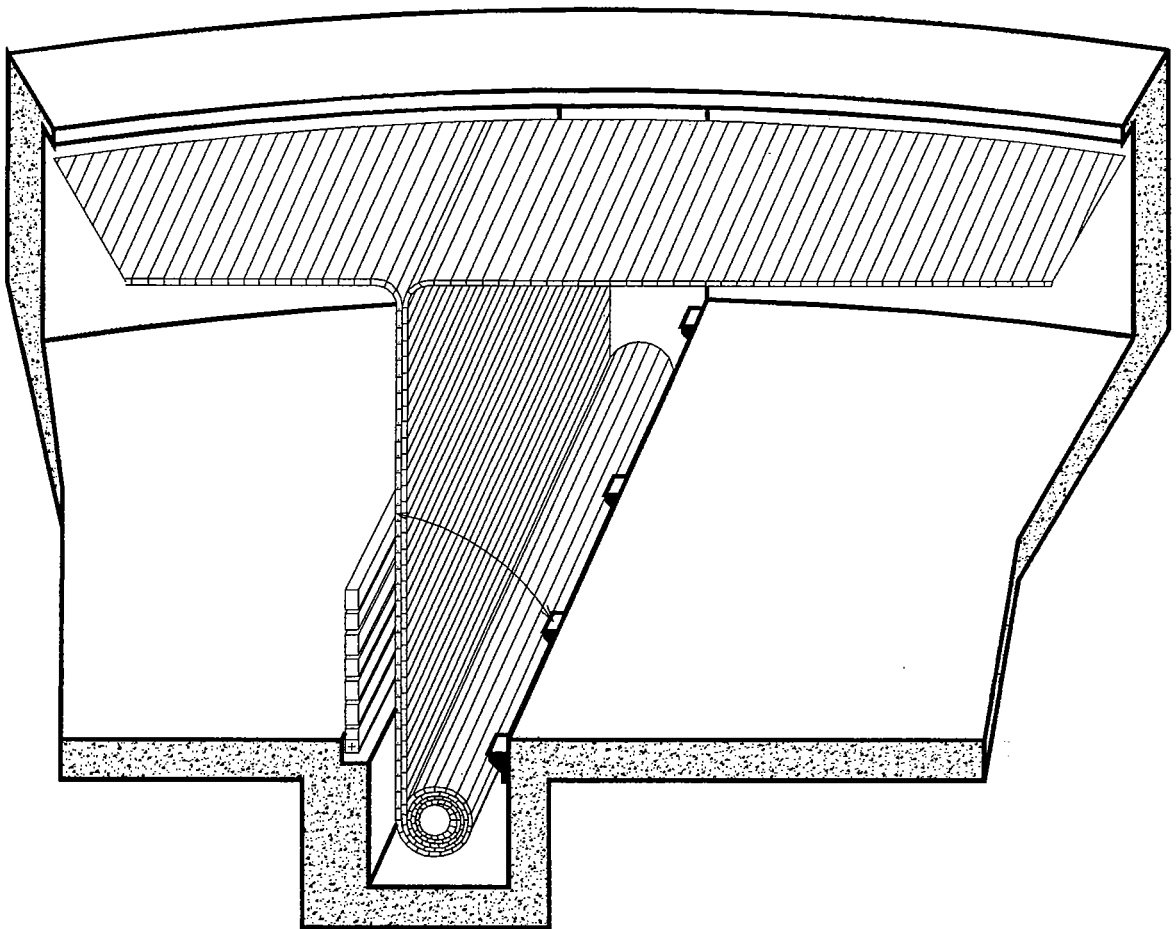
IBS-8

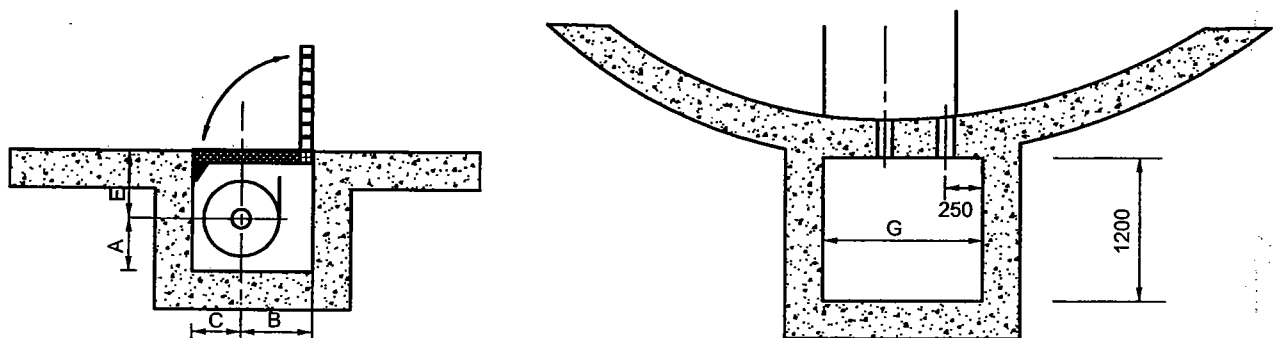
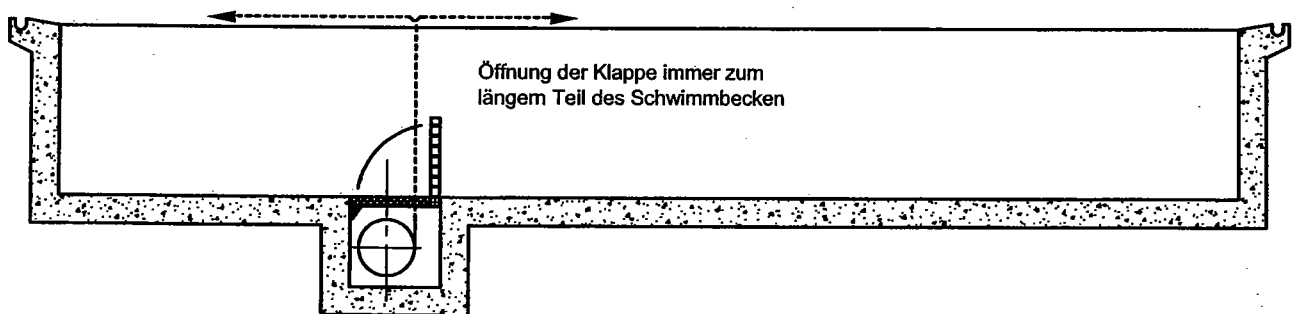
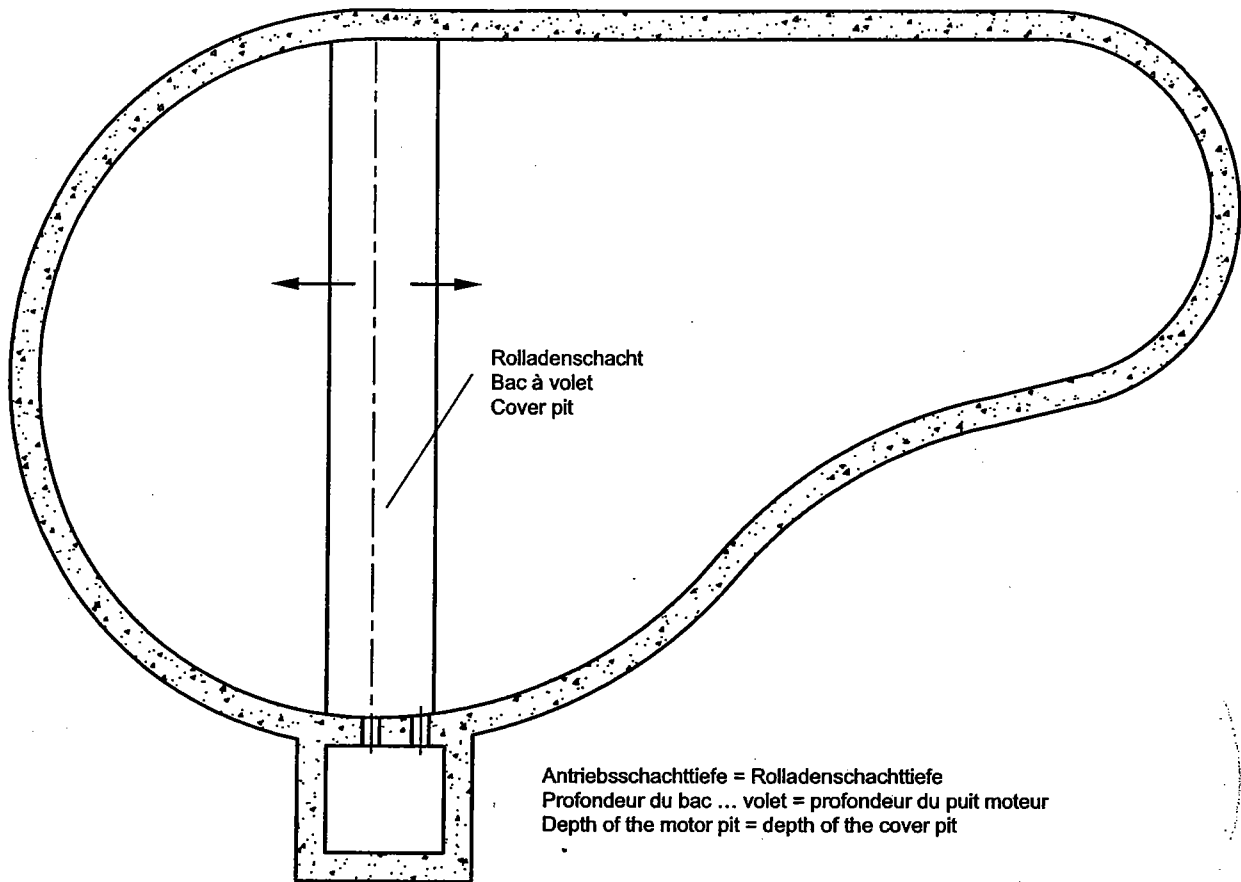
- Designed to cover free pool forms
- Only one shaft for 2 covers, consequently a smaller pit
- Protected by patent






**grando®**





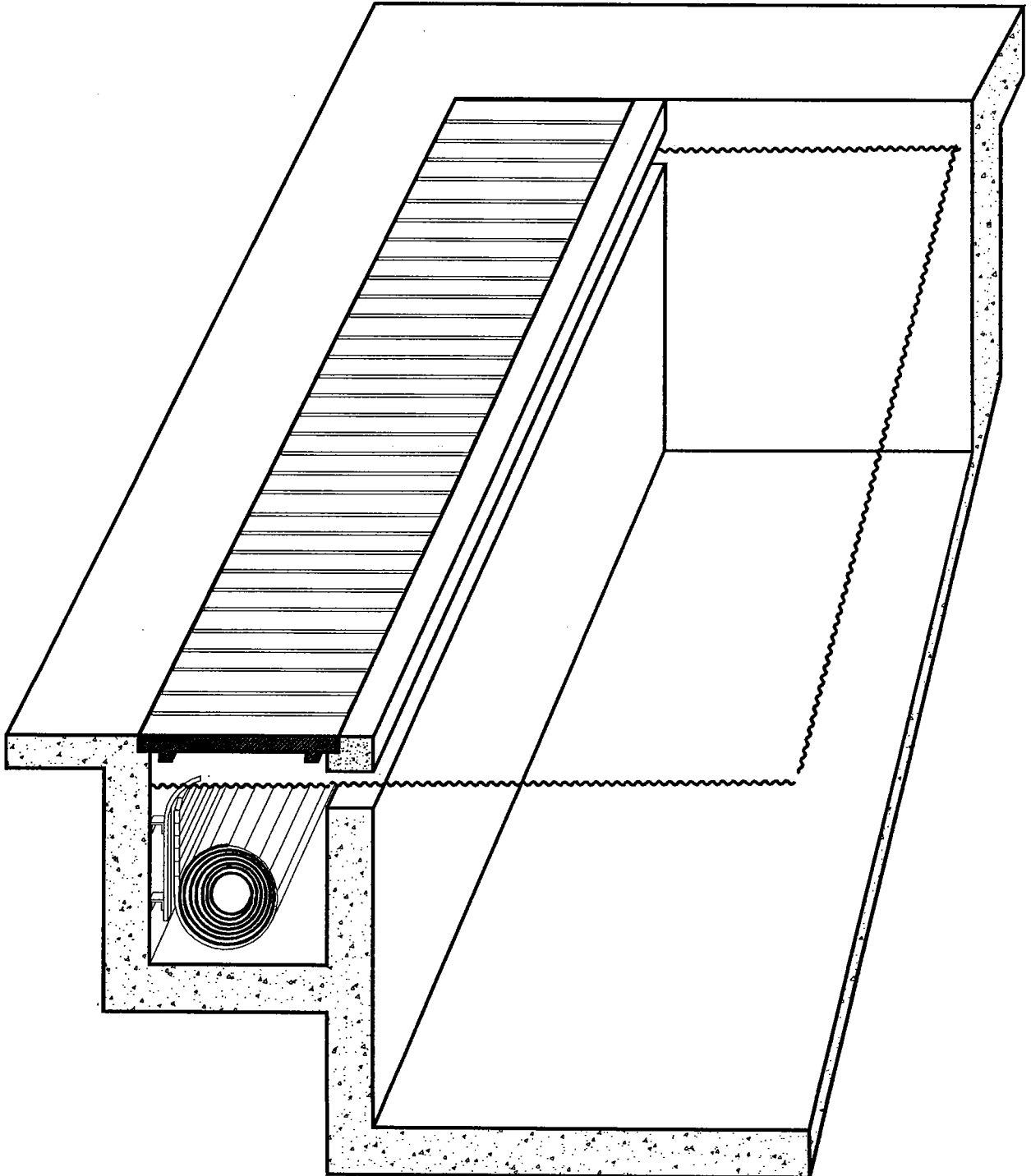
Die Maße A - G können erst nach Vorlage der genauen Beckenform- und Maße mitgeteilt werden.  
Indication de toutes mesures après réception de la forme et des dimensions.  
All dimensions from A - G will be given after the poolshape and size has been received.

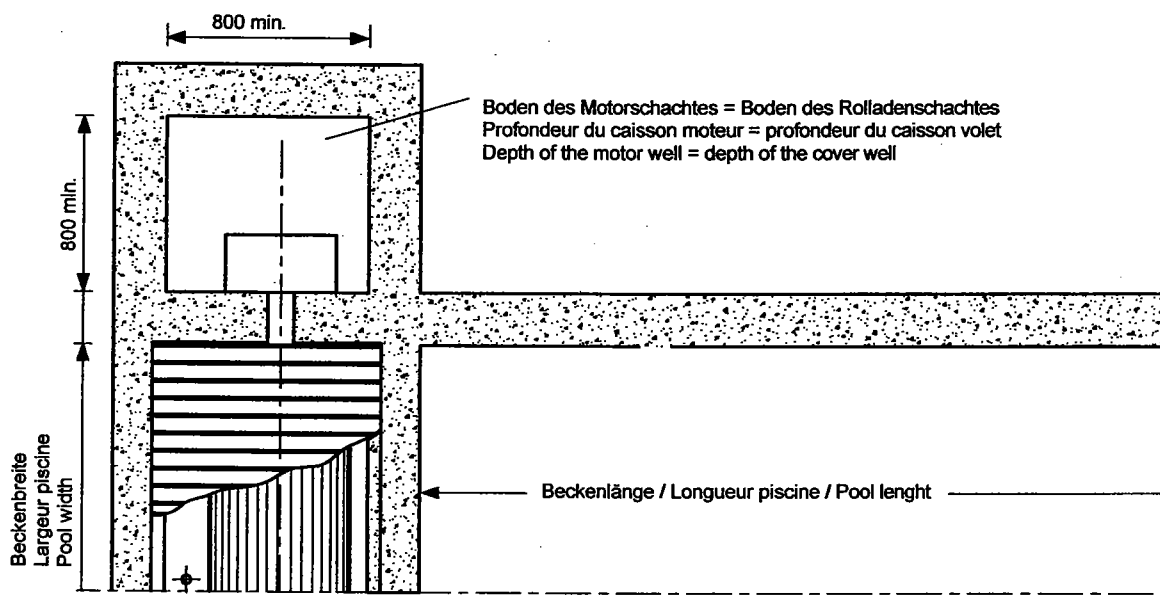
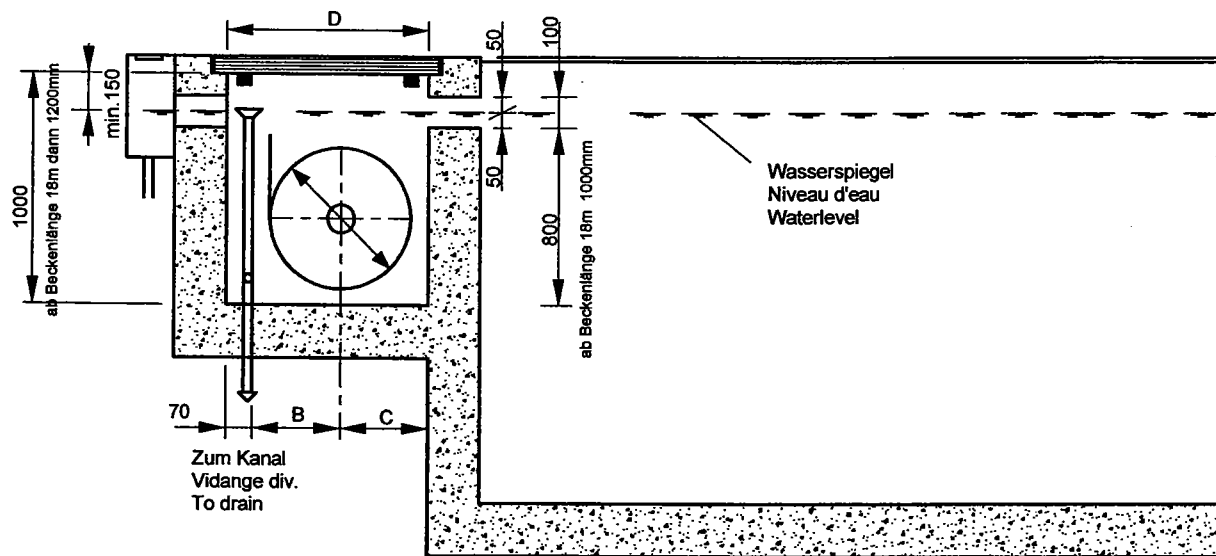
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	ABDECKUNG FÜR FREIE BECKENFORMEN VOILET POUR PISCINE DE FORME LIBRE COVER FOR FREE SHAPE POOL			IBS-8

**grando®**

IBS-9





Beckenlänge Longueur pis. Pool length	Ballen Ø mm Ø volet Ø cover	A	B mm	C mm	D mm
6 m	415		295	235	530
7 m	445		310	250	560
8 m	460		315	255	570
9 m	490		330	270	600
10 m	505		340	280	620
11 m	530		350	290	640
12 m	545		360	300	660
13 m	565		370	310	680
14 m	590		380	320	700
15 m	625		400	340	740
16 m	640		410	345	750
17 m	650		420	350	770
18 m	670		420	365	785
20 m	700		435	380	815
22 m	730		450	395	845
24 m	760		465	410	875
26 m	800		485	430	915

Maßangaben nur für Schwimmbecken ohne Schrägen und Rundungen sowie einer max. Beckenbreite von 7,00 m.

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Telefon: 02202/1049-0  
Telefax: 02202/1049-10

06.05.92      bg

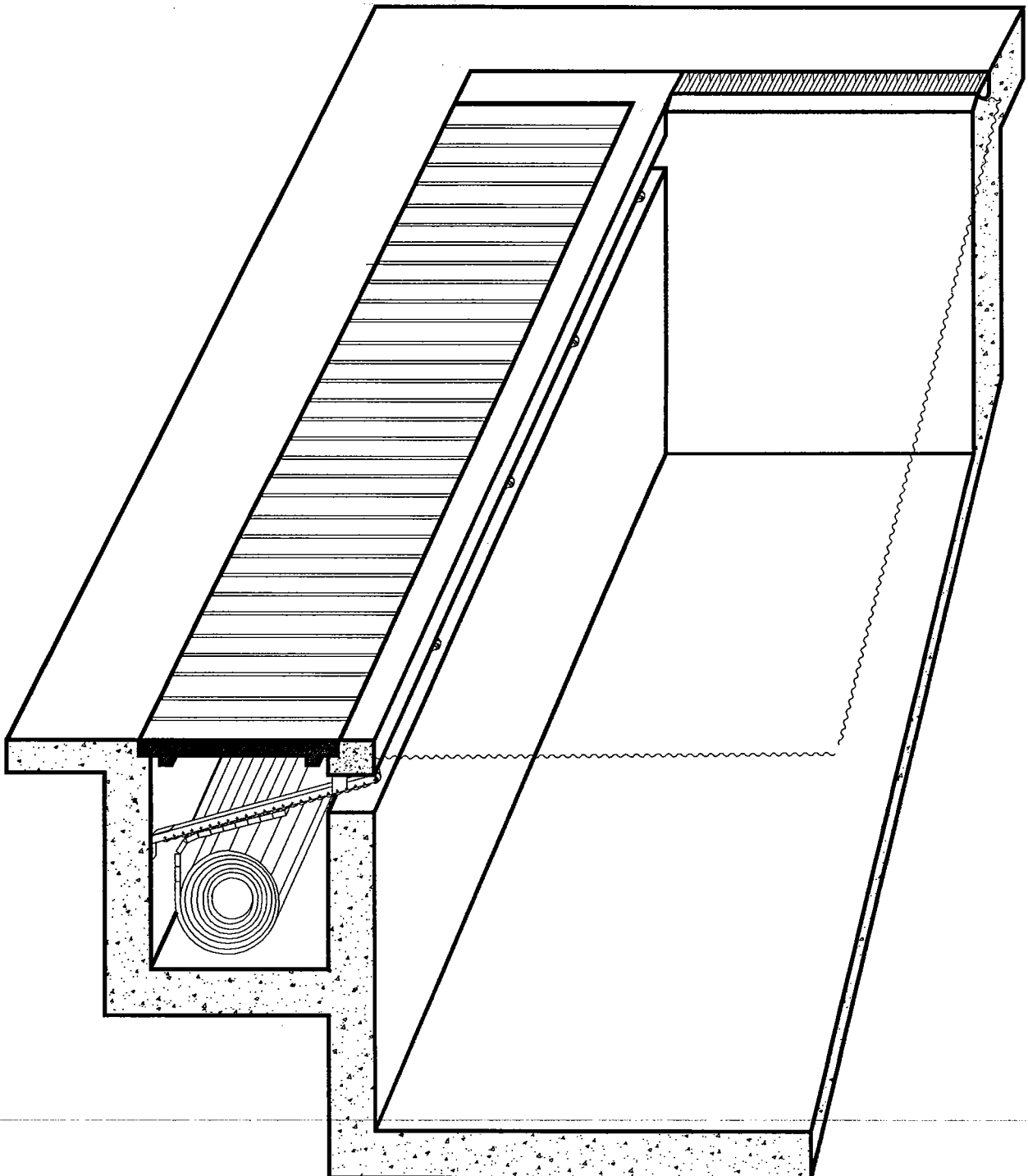
ABDECKUNG HINTER DEM SCHWIMMBECKEN IN SEPARATEM SCHACHT INSTALLIERT (TIEFLIEGENDER WASSERSPIEGEL)  
VOLET DANS UN CAISSON DERRIERE LA PISCINE  
COVER IN A WELL BEHIND THE POOL

309-002

**IBS - 9**

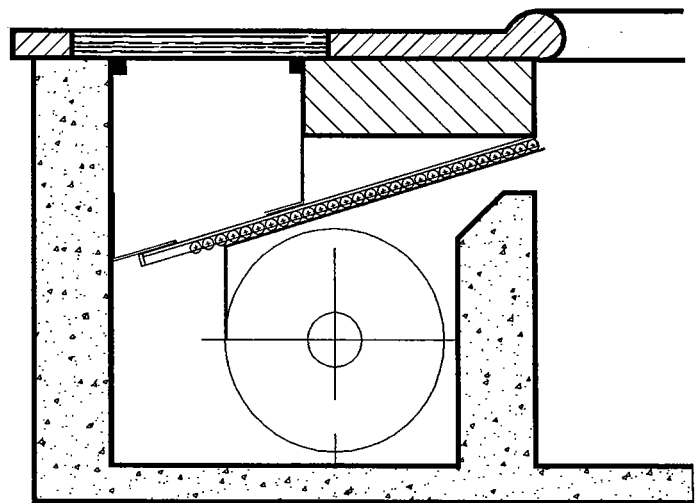
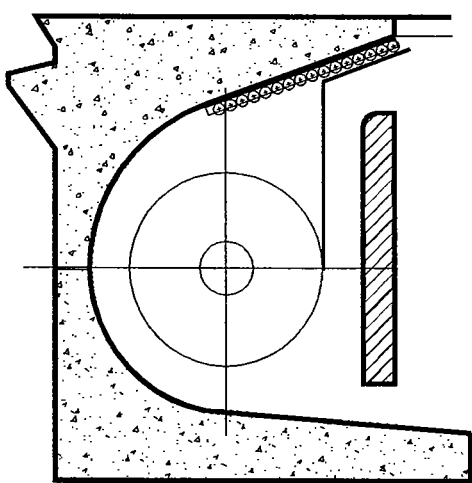
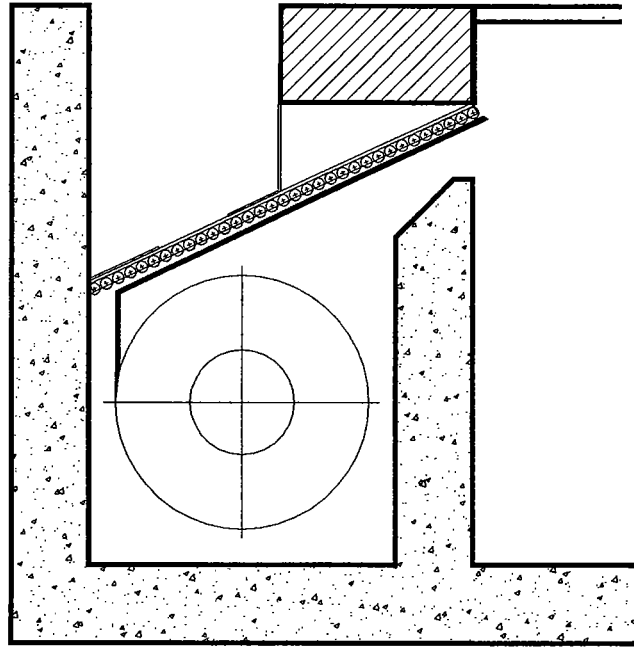
MOUNTING POSSIBILITIES WITH GUIDE ROLLS

- Water level above the cover pit support beam
- Cover travel very smooth



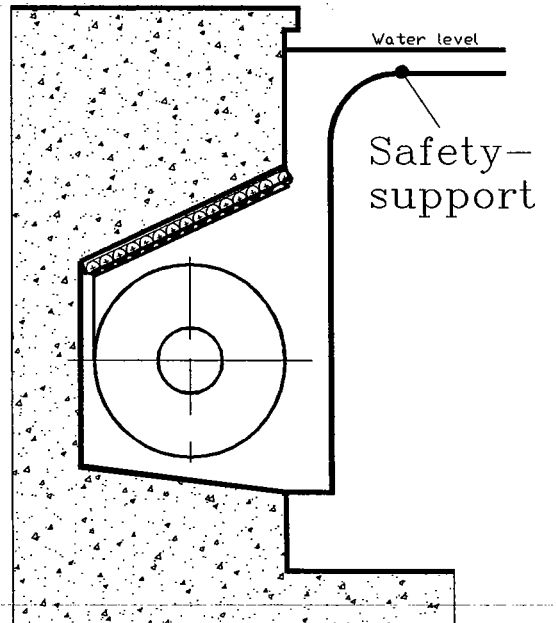
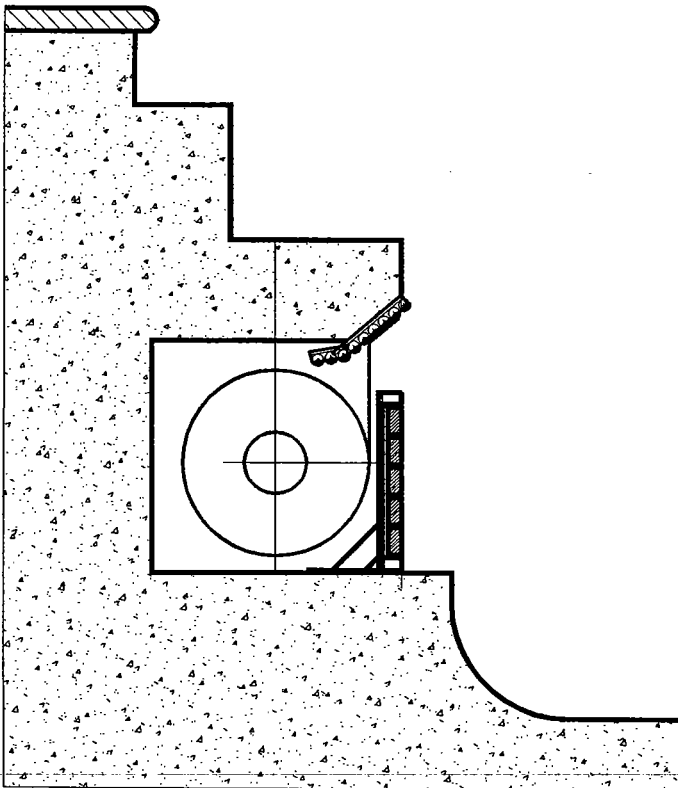
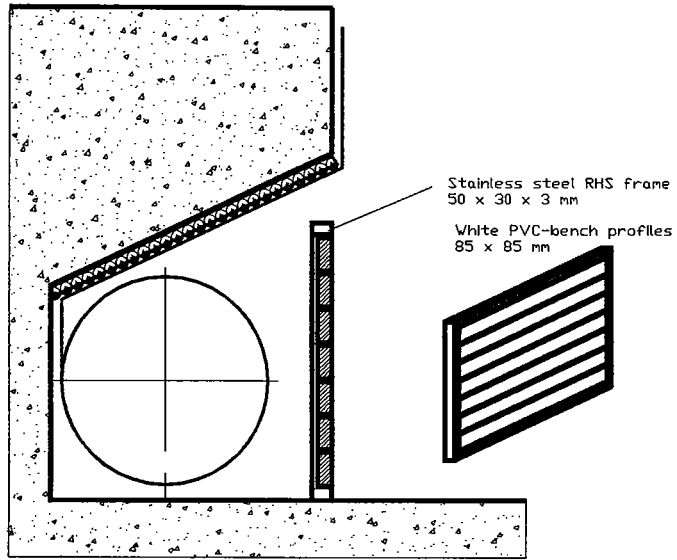


ALTERNATIVE INSTALLATION OPTIONS USING GUIDE ROLLS





ALTERNATIVE INSTALLATION OPTIONS USING GUIDE ROLLERS



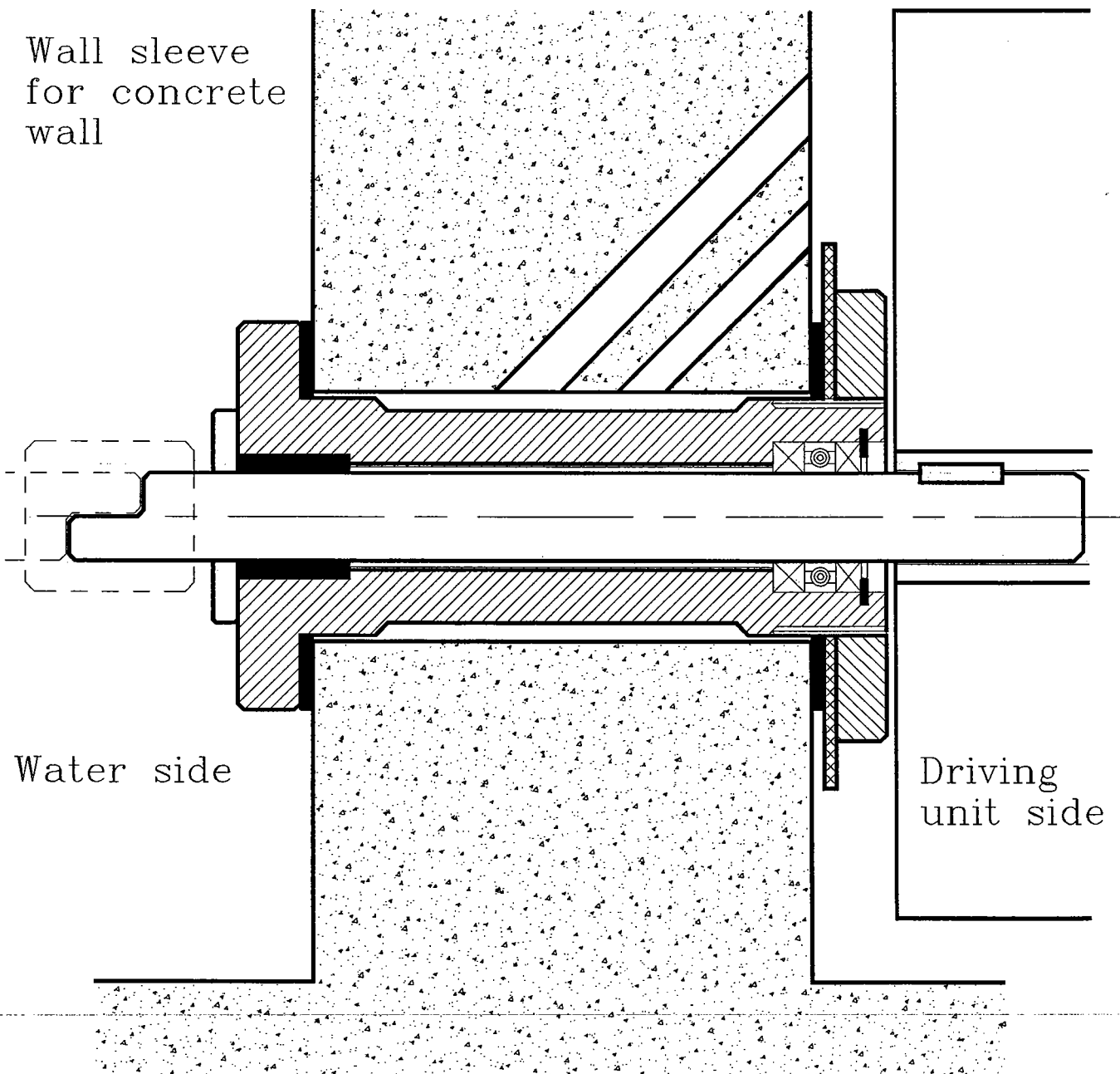
WALL SLEEVE

The wall sleeve consists of a robust PVC outer through which runs the stainless steel drive shaft

The stainless steel drive shaft has several seals along its length

- Oil seals in front and behind the bearing
- 1,5 bar grease pressure

Wall sleeve  
for concrete  
wall

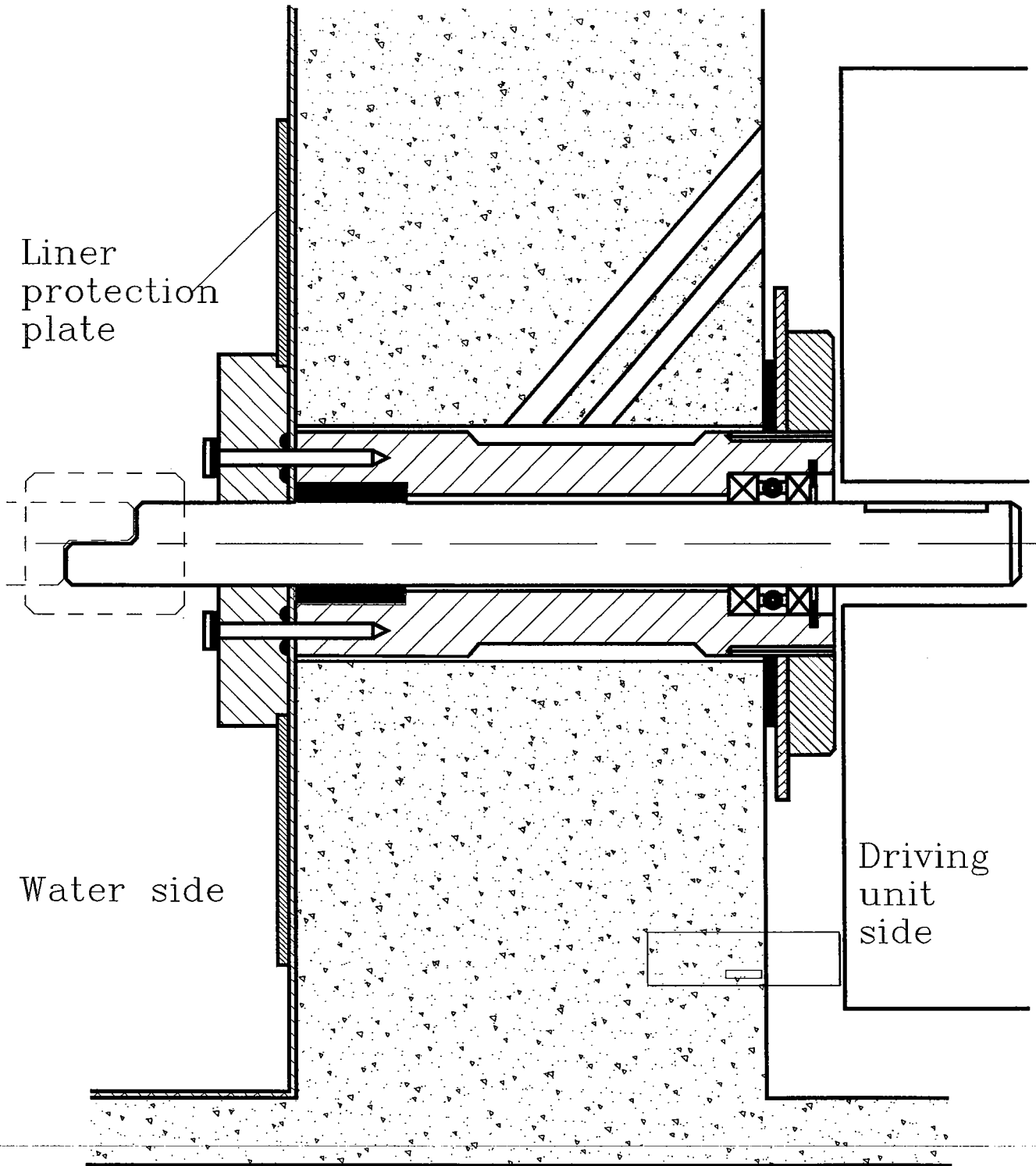


Water side

Driving  
unit side



WALL SLEEVE FOR LINER POOL



Liner protection plate

Water side

Driving unit side



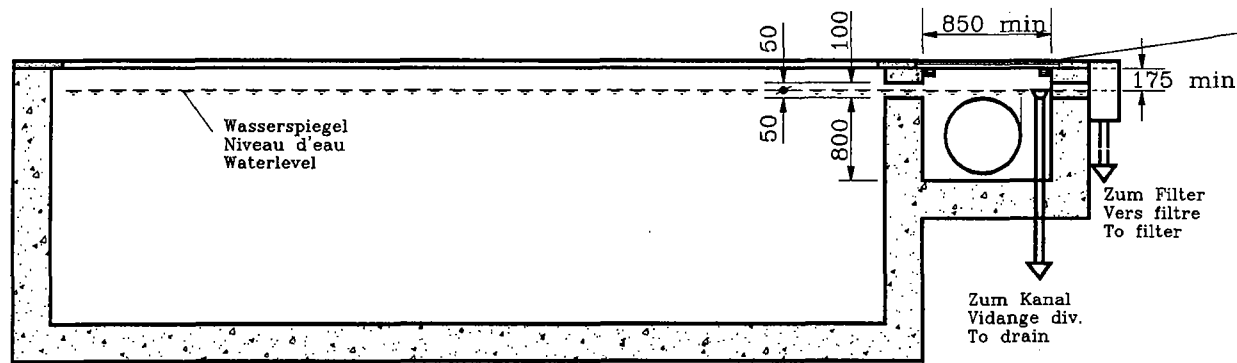
Schwimmbad-Abdeckungen seit 1963  
pool covers • couvertures de piscines

### Technical description grando USA

- Pool cover** A special smooth curved PVC profile creates a slatted pool cover with excellent water shedding properties. Available in white, blue and grey as standard colours. A solar version is available at an extra cost. The standard slats are reversible and can be turned over periodically to combat the build up of calcium deposits. Each slat has three internal hollow sections. Each section has a waterproof multilayered seal that forms a molecular bond with the PVC slat, this eliminates any differential expansion of the materials used and ensures a watertight seal. The system for joining the slats utilising stainless steel pins and plastic locking blocks, eliminates any lateral displacement of the slats and facilitates the removal and replacement of individual slats. The combination of the slat joining and end sealing systems means that radius corners, roman ends, cut outs and slanting cuts can be accurately reproduced. The slats are joined by a double hook system which provide a high tensile, very flexible joint between the slats. The PVC slats are resistant to ultra violet light, non bio-degradable, non corrosive and completely hygienic. COMPACT covers are suitable for any pool up to 25 m x 10 m. With solar slats the heat energy from the sun is transferred into the pool water via the transparent upper side and block underside of the slats, therefore creating a saving on heating bills.
- Design** The USA drive unit is constructed from solid PVC. The drive unit is fixed in a recess in the cover chamber and is immersed in water. The top of the drive unit is above water level. The top of the drive unit has a PVC lid to provide protection against splashing. The PVC drive unit contains a sealed drive bearing, motor unit and chain drive mechanism.
- Drive unit** The drive unit is either a 400 V/24 V DC or 240 V/24 V DC motor with integral PVC board, reduction gears limit and safety switches and thermal protection mounted in an aluminium casing within the immersed PVC outer casing.
- Carrier shaft** The carrier shaft and end journals are constructed from high grade stainless steel. The carrier shaft is driven by the motor, via a chain drive, through a special bearing which passes through the immersed PVC casing.
- Power supply** The transformer is either 400 V/24 V or 240/24 V with thermal protection. The transformer is supplied within an IP 55 rated casing.
- Key switch** The key switch is remotely located and consists of an anodised face plate with a removable key for the open/close operation and an emergency stop switch. The key switch is designed to be installed in the wall.

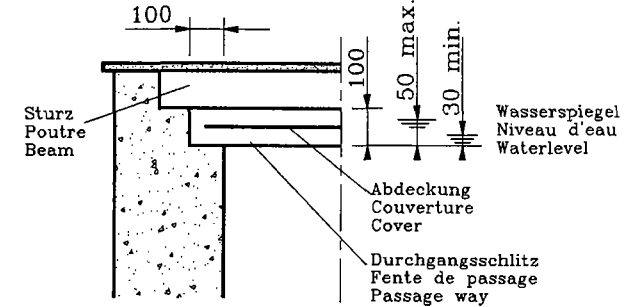
### ACCESSORIES

- Pit cover** A pit cover assembly is available for the USA/IBS-9 type covers. The cover is formed from a high grade stainless steel frame with either a PVC slatted finish or a tiled meranti hardwood finish.
- Frame for cover pit** As above but without PVC or wood finish.
- Support beam** A support beam is available to span the pool, above water level, to create an opening through which the cover slats can pass. The beam can either be galvanised and pointed steel or stainless steel. The support beam is available for pools up to a maximum width of 7 m.
- Magnetic safety switch** The installation of the optional magnetic and tool switch is highly recommended. The switch will not allow the operation of the cover if the pool water level is either too high or too low.
- Handrail** Special polished stainless steel handrail and brackets are essential for the prevention of accidents on standard pools. Accident prevention cannot be guaranteed with level deck pools.

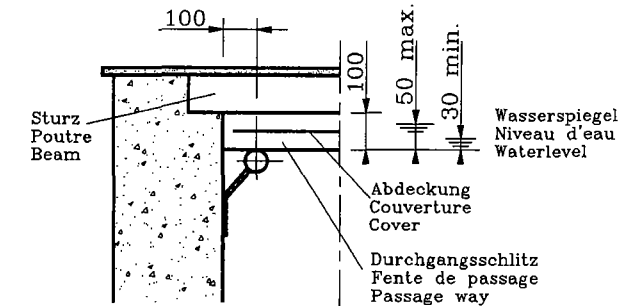


Abnehmbare Schachabdeckung  
Couverture amovible (caillebotis)  
Removable well cover

VORSCHLAG/SOLUTION PROPOSEL A  
Auflagerand / Equalement / Pool ledge



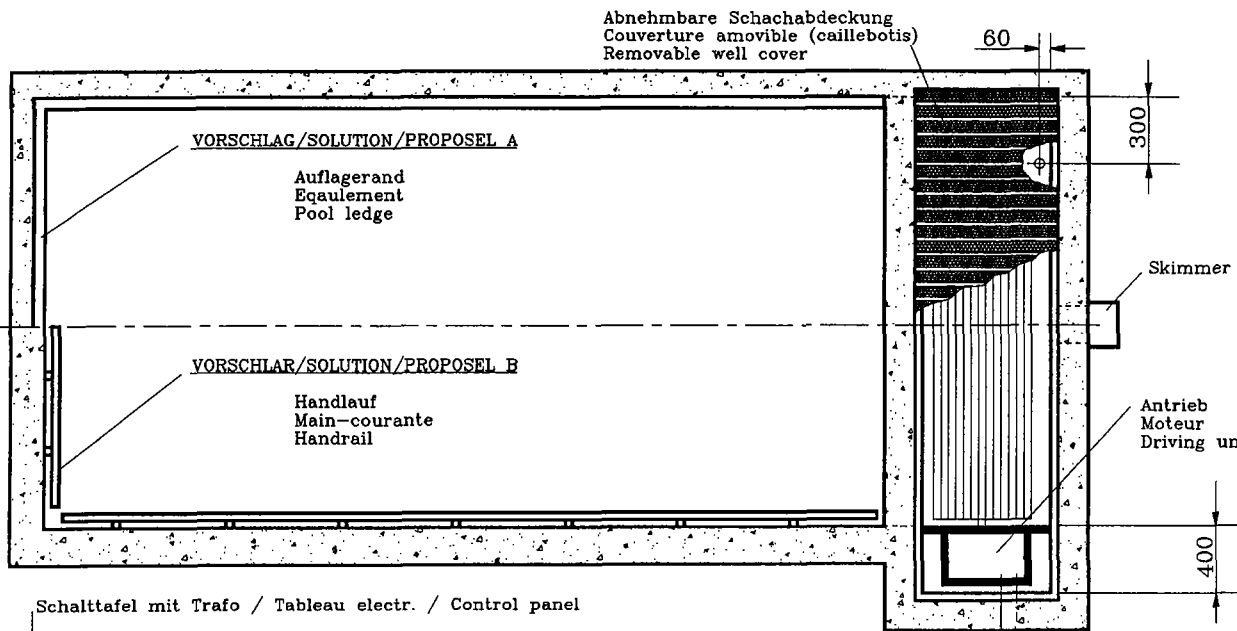
VORSCHLAG/SOLUTION PROPOSEL B  
Handlauf / Main-courante / Handrail



Alle Maßangaben nur für Schwimmbecken ohne Schrägen und Rundungen sowie einer max. Beckenbreite von 7,00 m und einer max. Beckenlänge von 16,00 m.

Cotes valables uniquement pr bassin sans découpes arrondies ou en biais, ainsi que pr largeur max. de 7,00 m et longueur max. de 16,00 m.

Dimensions are only for pools without slant and round lines as well as a max. pool width up to 7,00 m and a max. pool length up to 16,00 m.



Abnehmbare Schachabdeckung  
Couverture amovible (caillebotis)  
Removable well cover

VORSCHLAG/SOLUTION/PROPOSEL A

Auflagerand  
Equalement  
Pool ledge

VORSCHLAG/SOLUTION/PROPOSEL B

Handlauf  
Main-courante  
Handrail

Skimmer

Antrieb  
Moteur  
Driving unit

Schalttafel mit Trafo / Tableau electr. / Control panel

Bedienungsschalter  
Interrupteur à clé  
Key switch

Zum Netz  
Reseau  
Mains

Alle Maße sind  
Fertigmaße in mm.  
Toutes les mesures  
sont des mesures  
finales en mm.  
All dimensions are  
finished dimensions  
in mm.

Änderungen  
vorbehalten.  
Sous réserve de  
modifications.  
Subject to change

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401-001

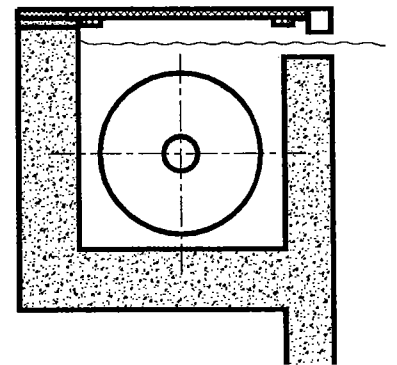
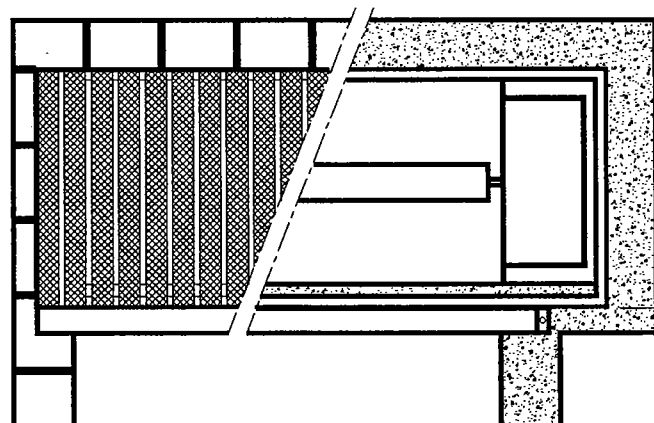
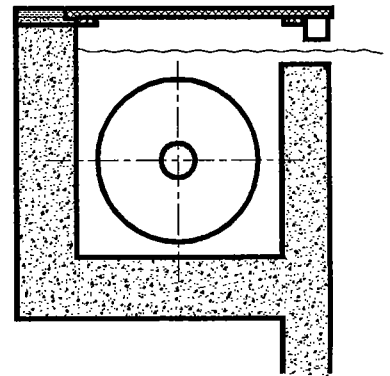
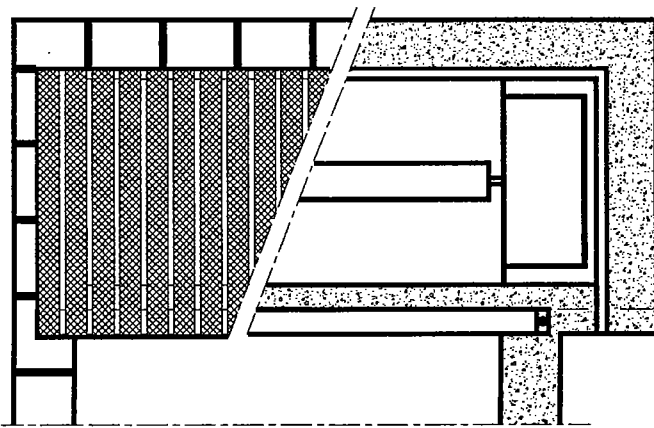
UNTERIRDISCHE SCHWIMMBAD-ABDECKUNG  
SPECIFICATION POUR VOLET SOUTERRAIN  
SPECIFICATIONS FOR IN-GROUND COVER

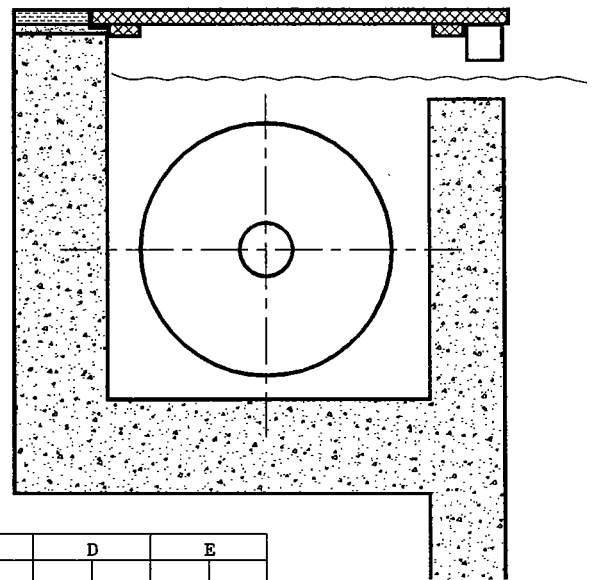
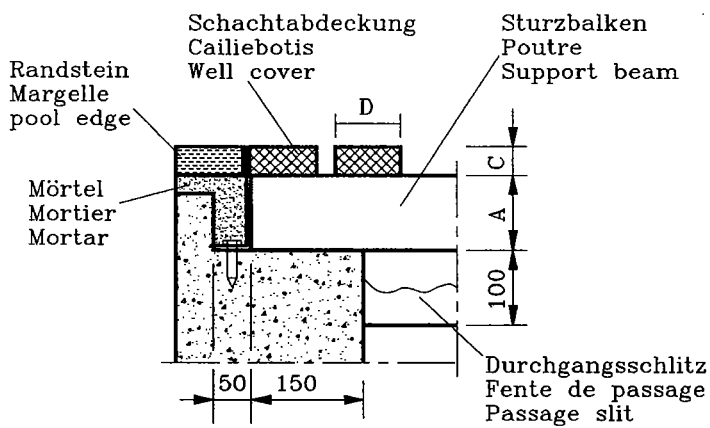
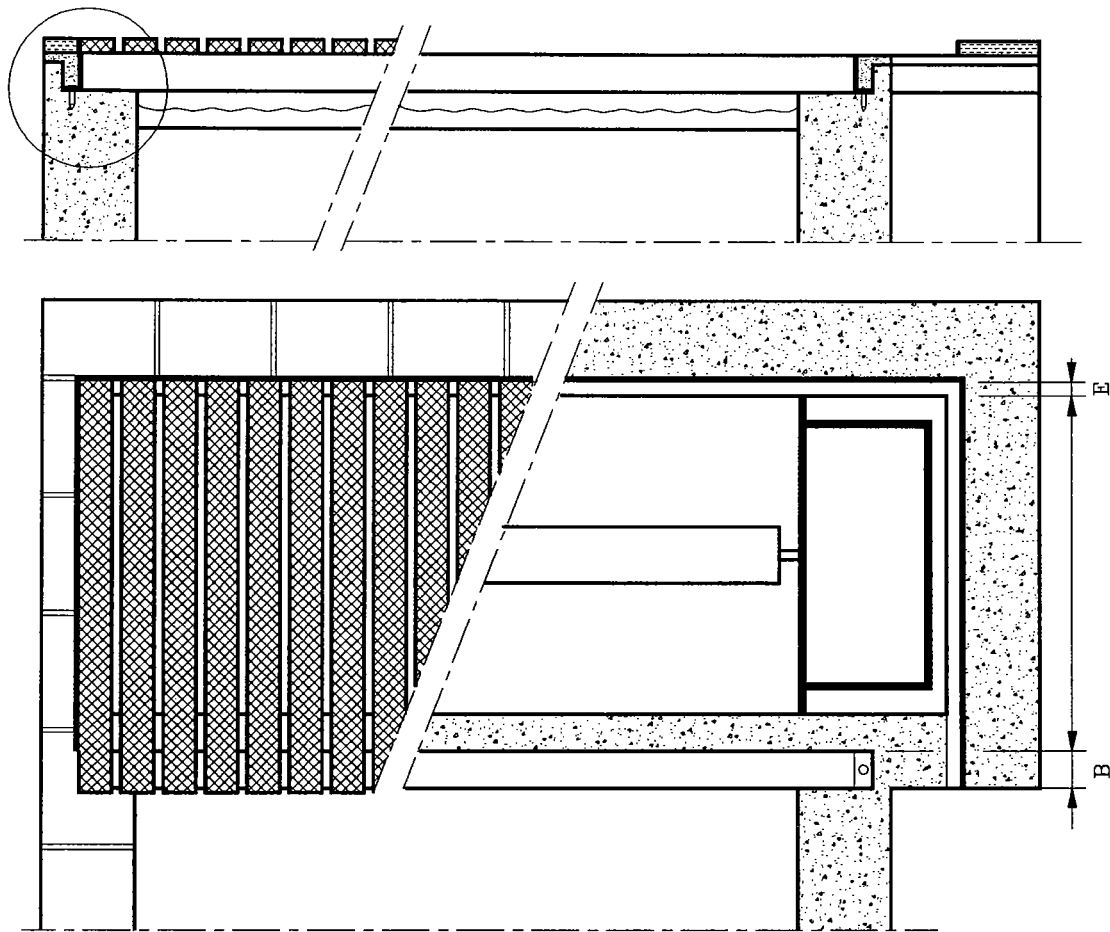
U S A








THE PIT COVER FOR USA AND IBS-9 COVERS

- The pit cover is constructed either in meranti hardwood or PVC with stainless steel frame





Beckenbreite Largeur piscine Pool width	A  B		A  B		A  B		A  B		A  B		C		D		E	
	A	B	A	B	A	B	A	B	A	B	Holz Bois Wood	PVC	Holz Bois Wood	PVC	Holz Bois Wood	PVC
	-4,00 m	80	120									30	35	85	85	35
4,00-4,50 m			120	80	100	100					30	35	85	85	35	40
4,50-6,00 m							110	110			30	35	85	85	35	40
6,00-7,50 m									200	120	30	35	85	85	35	40

Alle Maße sind Fertigmaße in mm.  
Toutes les mesures sont des mesures finales en mm.  
All dimensions are finished dimensions in mm.



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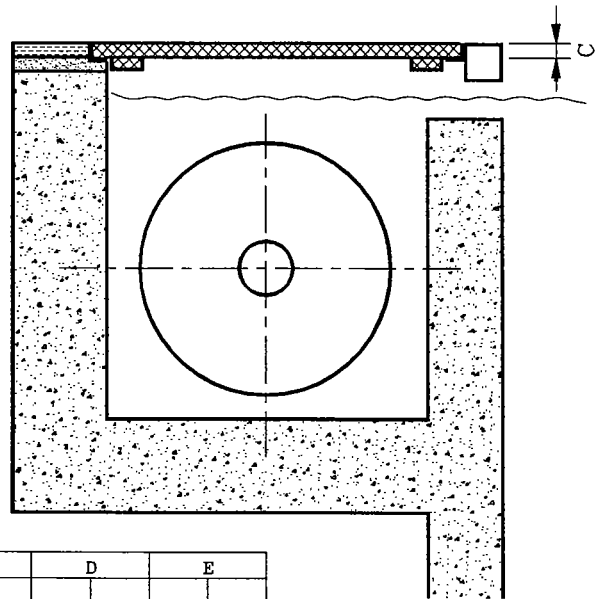
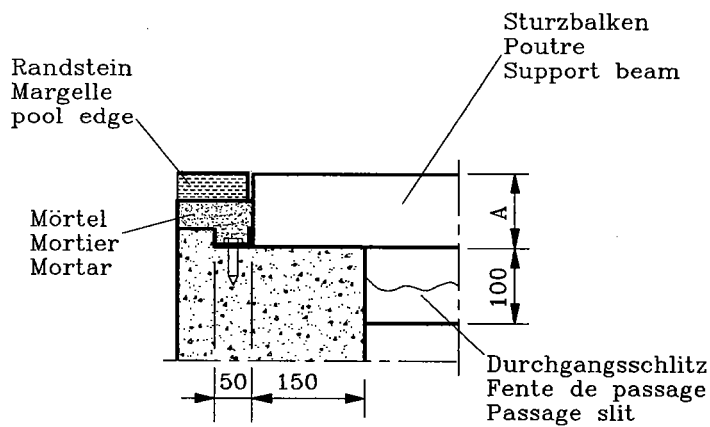
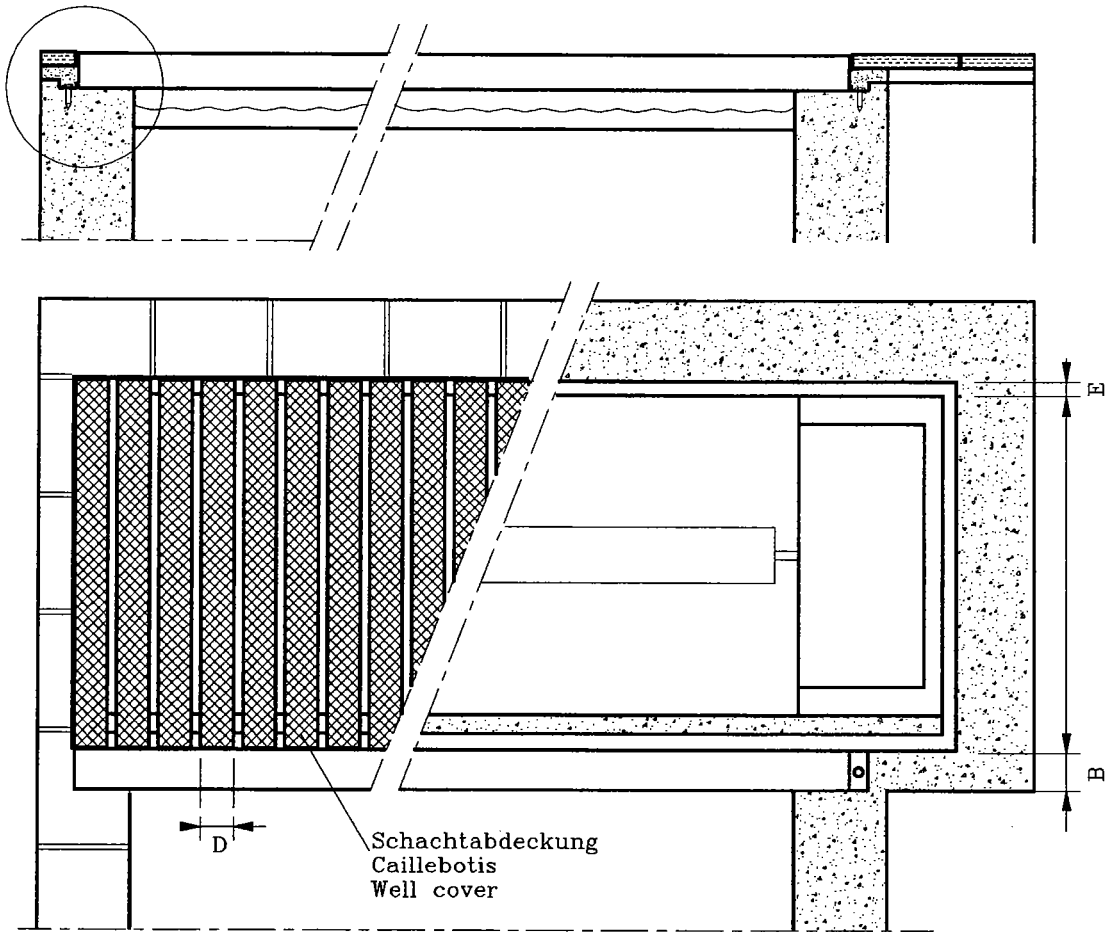
401-011

STAHLSTURZ UND SCHACHTABDECKUNG ALTERNATIVE A

POUTRE EN ACIER ET CAILLEBOTIS ALTERNATIV: A

SUPPORT BEAM AND WELL COVER ALTERNATIV: A

U S A



Beckenbreite Largeur piscine Pool width	A		A		A		A		A		C		D		E	
	B		B		B		B		B		Holz Bois Wood	PVC	Holz Bois Wood	PVC	Holz Bois Wood	PVC
	A	B	A	B	A	B	A	B	A	B						
-4,00 m	80	120									30	35	85	85	35	40
4,00-4,50 m			120	80	100	100					30	35	85	85	35	40
4,50-6,00 m							110	110			30	35	85	85	35	40
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**grando**

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STAHLSTURZ UND SCHACHTABDECKUNG ALTERNATIVE: B

POUTRE EN ACIER ET CAILLEBOTIS ALTERNATIVE: B

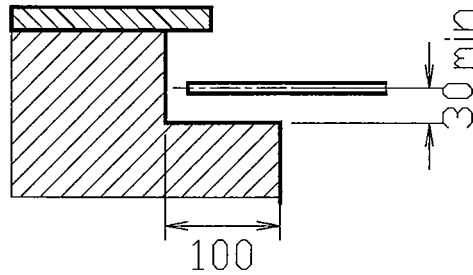
SUPPORT BEAM AND WELL COVER ALTERNATIVE: B

U S A

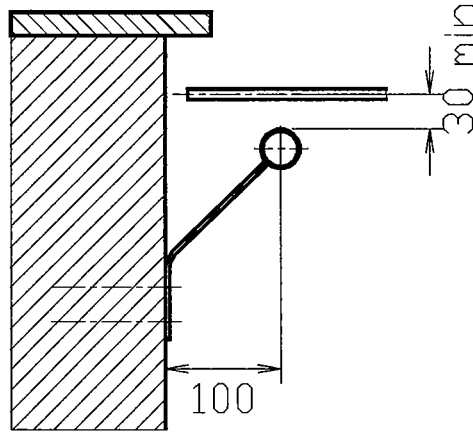
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Subject to change

ACCIDENT PREVENTION

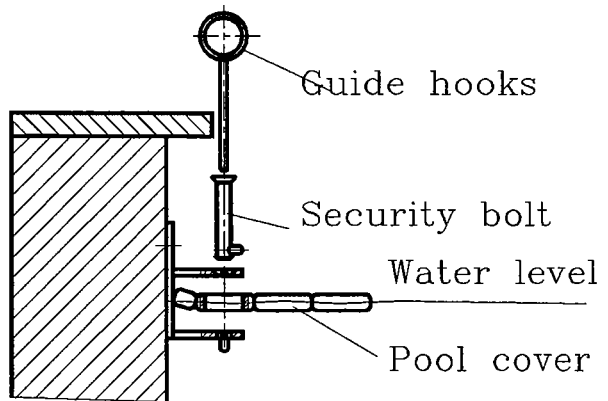
Safety support  
provided by  
pool edge

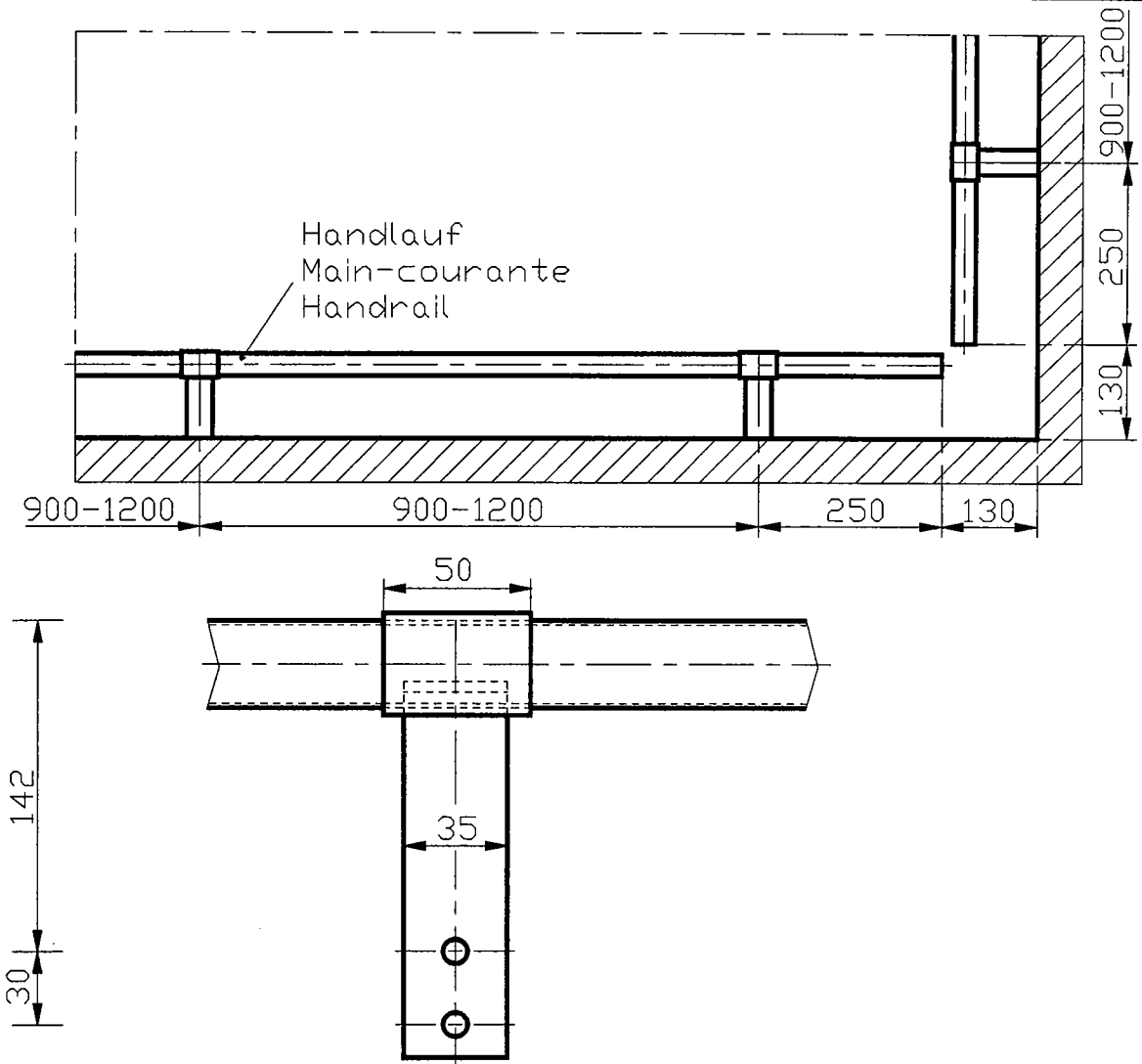
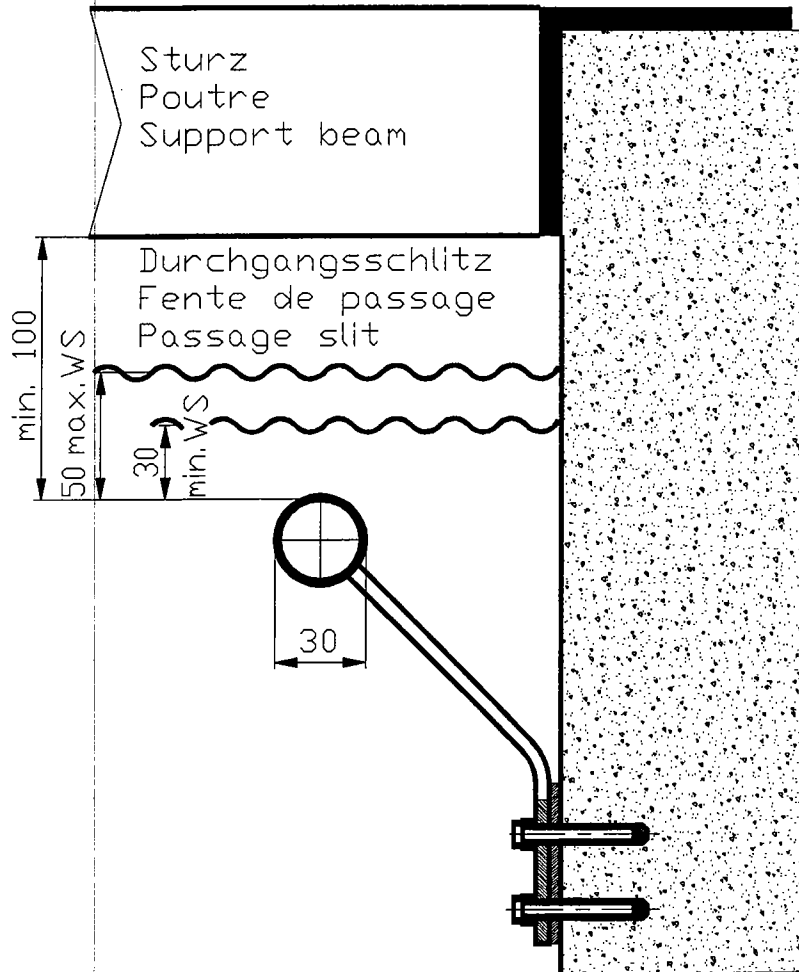


Safety support  
provided by  
handrail



Manual  
locking bolt





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<b>grando</b> grando GmbH SCHWIMMBAD-ABDECKUNGEN De-Gasperi-Straße 6 D-51469 Bergisch Gladbach Telefon: 02202/1049-0 Telefax: 02202/104910	Datum	Name	USER	17B\HDL
	Gez.	01.12.98	Zahr	Maßstab -----
	Gepr.		Typ.	Handlauf
	Bez.	EDELSTAHL-HANDLAUF FÜR SICHERHEITSUNTERSTÜTZUNG MAIN-COURANTE DE SECURITE EN INOX HANRAIL IN STAINLES STEEL FOR SAFETY FEATURE		