



Schwimmbad-Abdeckungen seit 1963
pool covers • couvertures de piscines

Technical description grando LIGHT

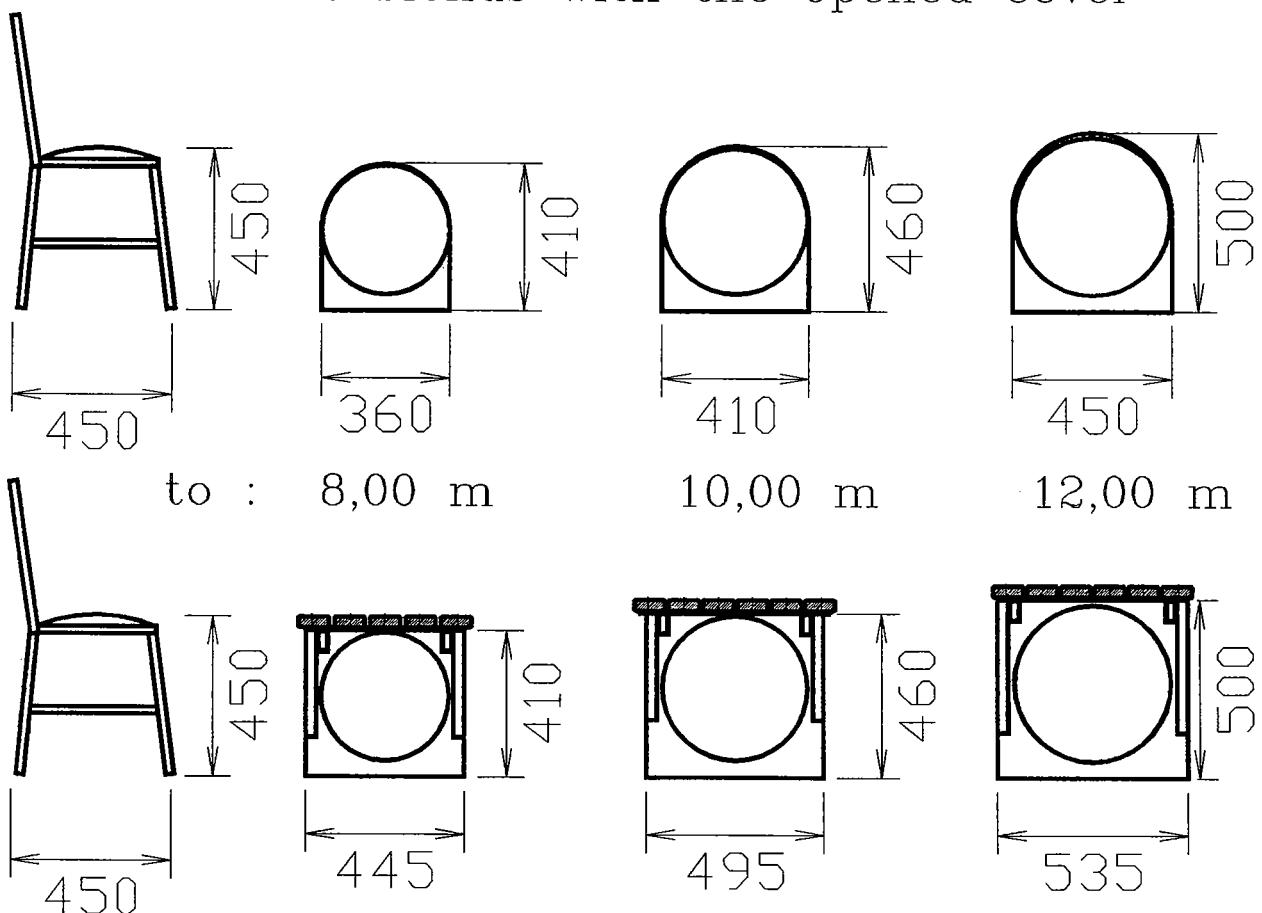
- Pool cover** A special smooth curved PVC profile creates a slatted pool cover with excellent water shedding properties. Available in white, and blue as standard colours. Each slat has three internal hollow sections. Each section has a waterproof multilayered seal that forms a molecular bond with the 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.
- Drive and non drive end supports** Both the drive and non drive end supports are conservated from heavy duty, non biodegradable, solid PVC. The non drive support plate has a ball bearing and an outer seal to prevent water ingress and the smooth rotation of the shaft. The drive motor is protected with a heavy duty PVC housing.
- Drive unit** Direct current motor 24 V DC. Automatic impeding gear motor, travel limitor (limit switch and Additional safety limit switch).
- Carrier shaft** Eloxadized aluminium with stainless steel journal, ball beared and sealed with oil seals.
- Power supply** 230 V/24 V DC transformer, with rectifier, protected primary and secondary.
- Key switch** Lockable, with a removable key for the open/stop/close operations. The key switch is located within the driving unit (available for remote location).

ACCESSORIES

- Upper paneling** Alternative 1 : in white PVC plate. Installed on a self supporting steel frame work, sandblasted, hot dip galvanised and PVC lacquered, For pools over 5 m wide, a centre support is necessary.
- Top bench** Alternative 2 : the top bench is panelled with, either white PVC or treated meranti hardwood slats. The panelling is fixed onto the sandblasted, hot dip galvanised and PVC lacquered steel framework. For pools over 5 m wide a centre support is necessary.
- Front/Rear Panels** The front and rear panels are available with either PVC or meranti hardwood slats to match the top bench.(for alternatives 1 + 2) For pools over 5 m wide the panelling will require a centre support.
- Framework** For pools over 5 m wide the top bench and front and rear panel framework can be supplied to accept panelling by the customer. It is possible to retrospectively fit original grando PVC and timber finishes to the top bench front and rear panels

THE LIGHT COVER

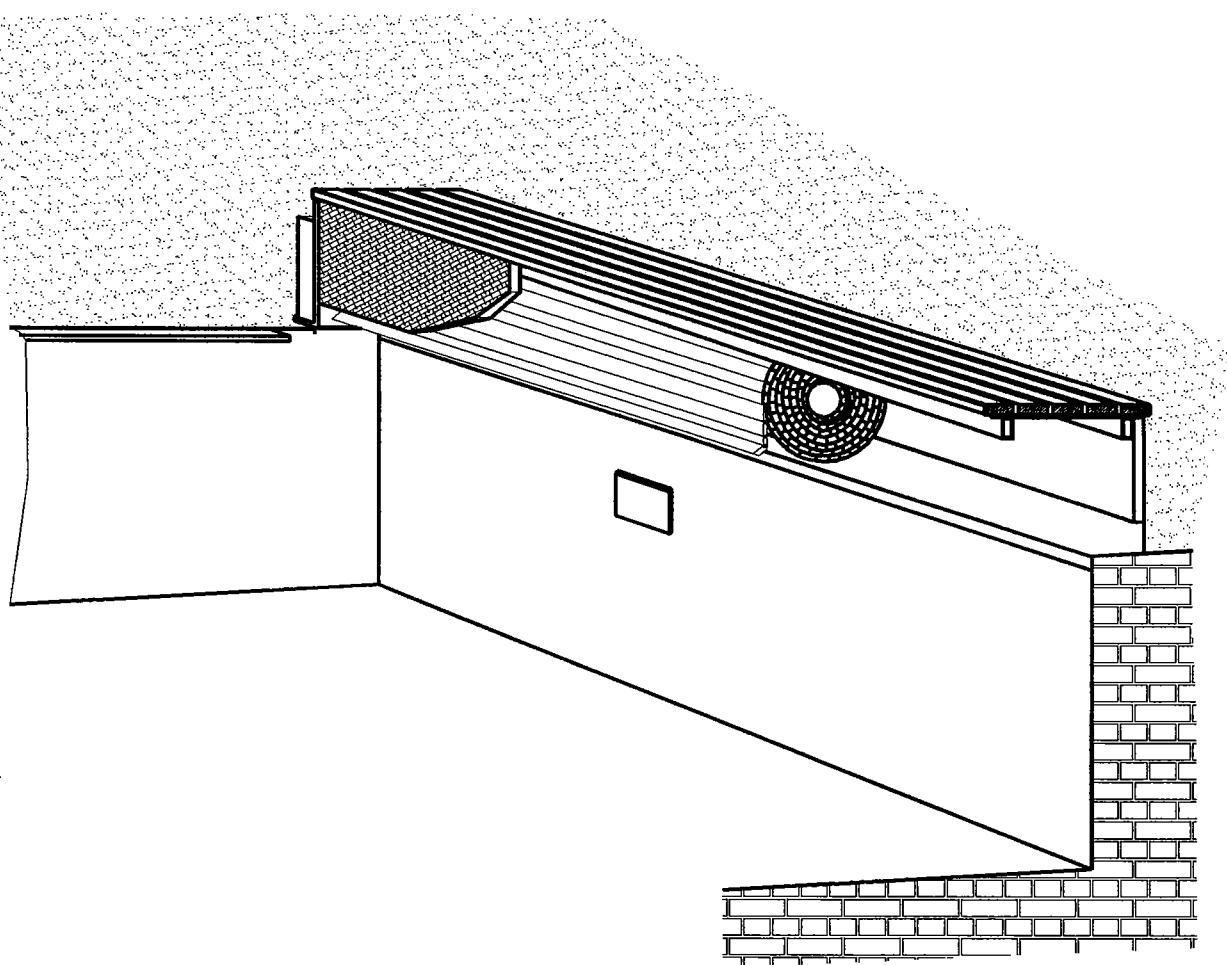
- The 10 mm thick LIGHT slats have a smaller roll up diameter and therefore the overall height of both the drive and non drive units is reduced compared to the COMPACT model
- Unless otherwise stated the drive and non drive end supports have a semicircular top section that blends with the opened cover

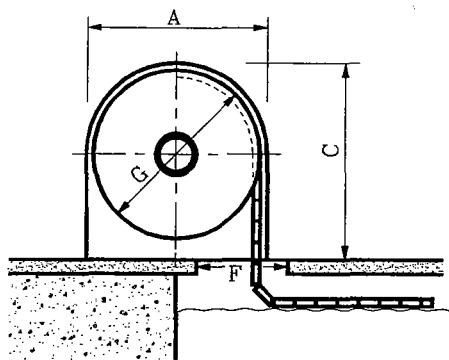
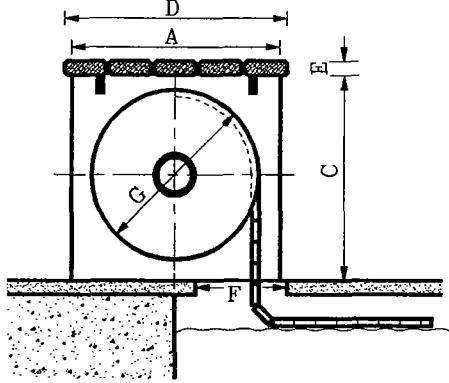
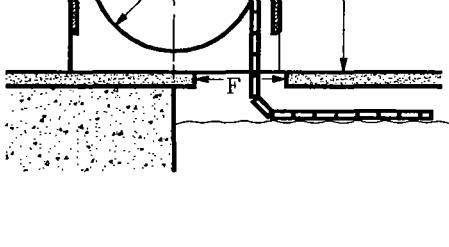
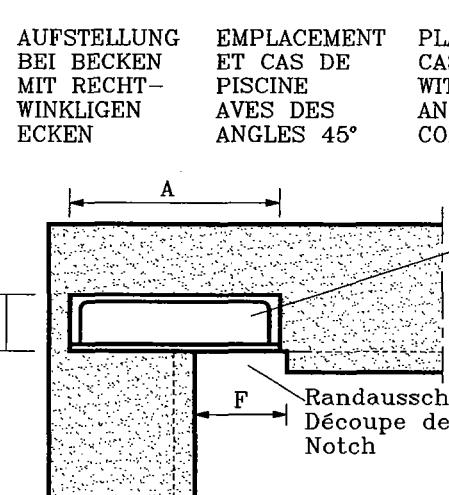
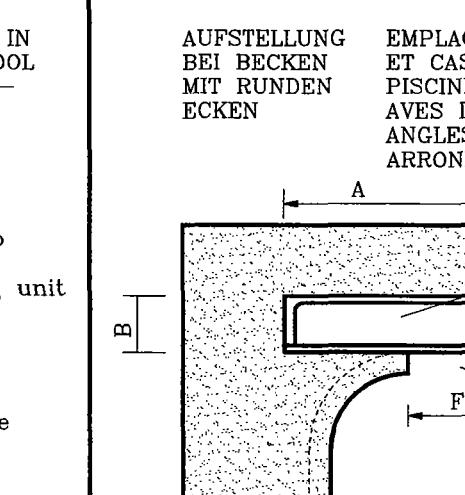


- Compact driving unit constructed in moulded and welded PVC
- 24 V DC motor
- Reduction-gear
- The limit switches incorporate a safety limit
- The carrier shaft is constructed in lightweight anodised aluminium

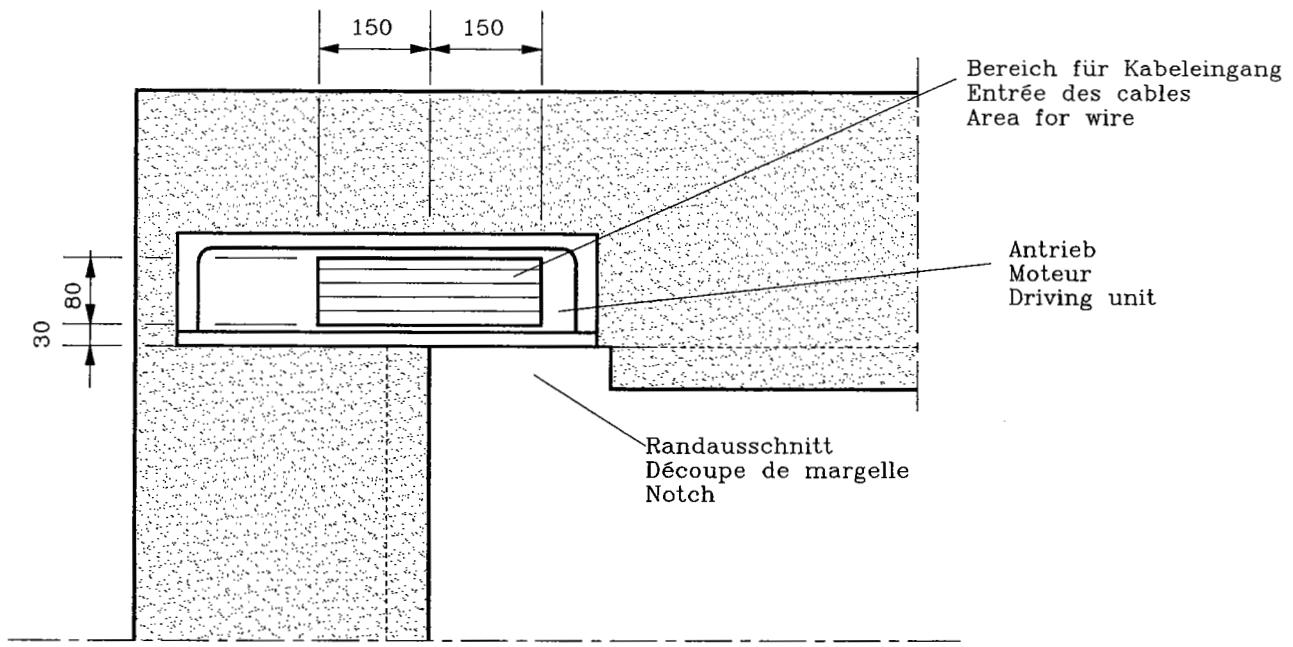
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LIGHT with paneling – normal position

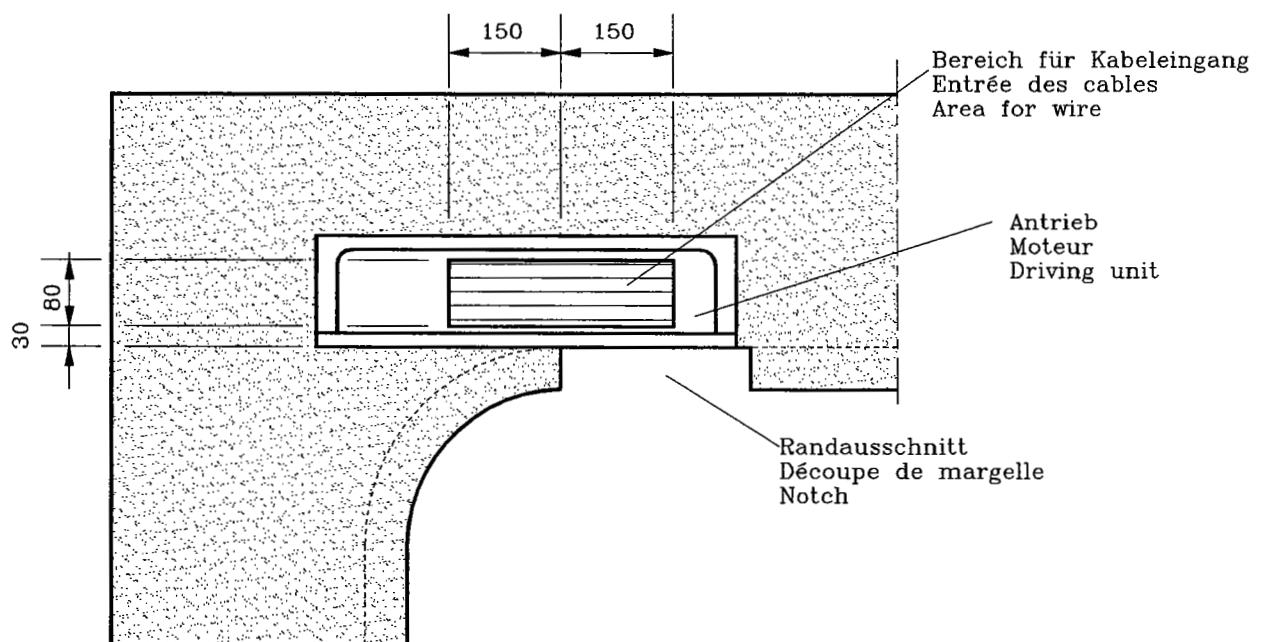


	<p>LIGHT MIT HALBRUNDEN SEITENTEILEN OHNE VERKLEIDUNG</p> <p>Bis max. 6 m Beckenbreite</p>	<p>LIGHT AVEC PARTIES LATÉRALES ARRONDIES SANS HABILLAGE</p> <p>Largeur piscine jusqu'à 6 m max.</p>	<p>LIGHT WITH SIDE PLATES HAVE A ROUND BUT WITHOUT PANELING</p> <p>Pool width up to 6 m max.</p>																																					
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<p>Alle Maße sind Fertigmäße 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.</p> <p>grando grando GmbH SCHWIMMBAD-ABDECKUNGEN De-Gasperi-Straße 6 D-51469 Bergisch Gladbach Telefon: 02202/1049-0 Telefax: 02202/104910</p>	<p>01.07.91</p>	<p>bg</p>	<p>1/anl/101-001</p>	<p>101-001</p>																																				
<p>SCHWIMMBAD-ABDECKUNG TYP: LIGHT VOLET COVERTURE TYPE: LIGHT POOL COVER TYPE: LIGHT</p>				<p>L I G H T</p>																																				

AUFPSTELLUNG BEI BECKEN MIT RECHTWINKLIGEN ECKEN
 EMPLACEMENT ET CAS DE PISCINE AVES DES ANGLES 45°
 PLACEMENT IN CASE OF POOL WITH RIGHTANGLED CORNERS



AUFPSTELLUNG BEI BECKEN MIT RUNDEN ECKEN
 EMPLACEMENT ET CAS DE PISCINE AVES DES ANGLES ARRONDIS
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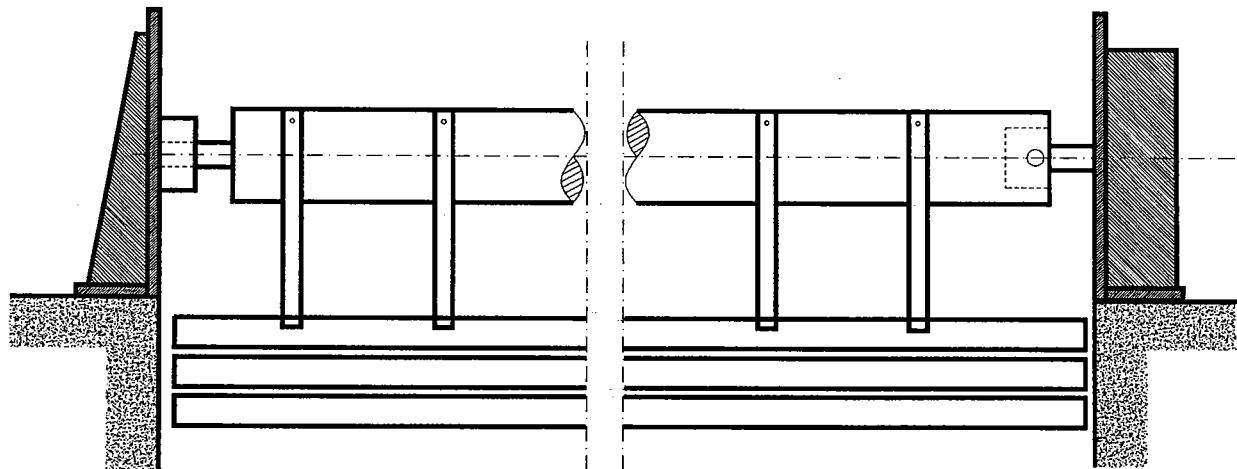
KABELEINGANG FÜR ABDECKUNG LIGHT
ENTREE DES CABLES VOLET LIGHT
WIRE AREA FOR COVER LIGHT

L I G H T

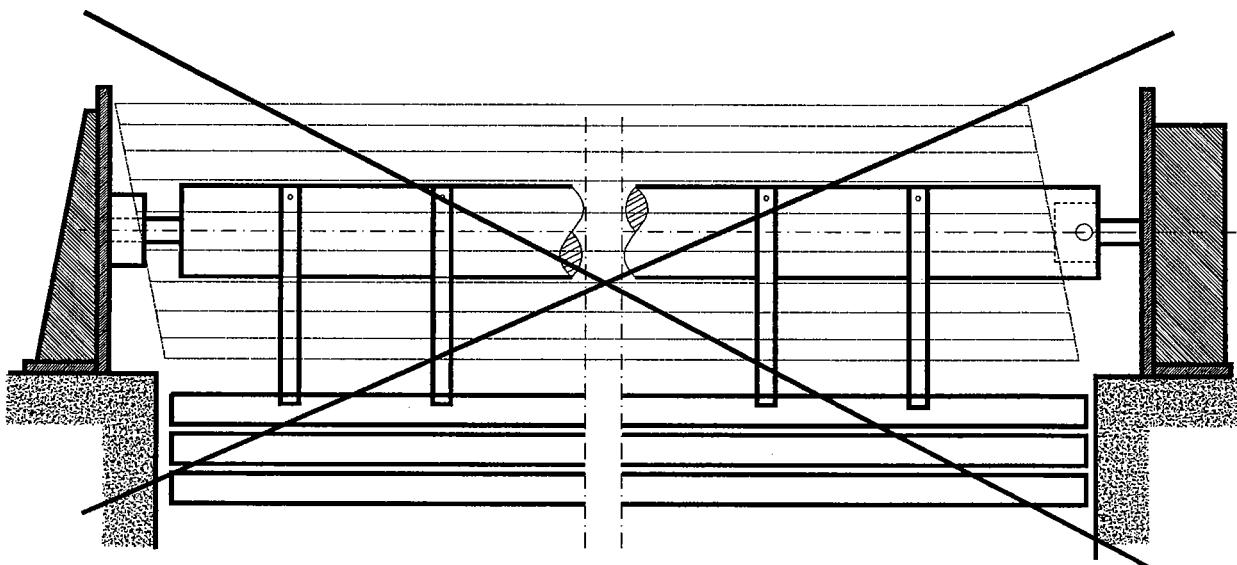


Normal position

Flusch with the pool wall and respective edge tile



Position beyond the pool wall



Dangers :

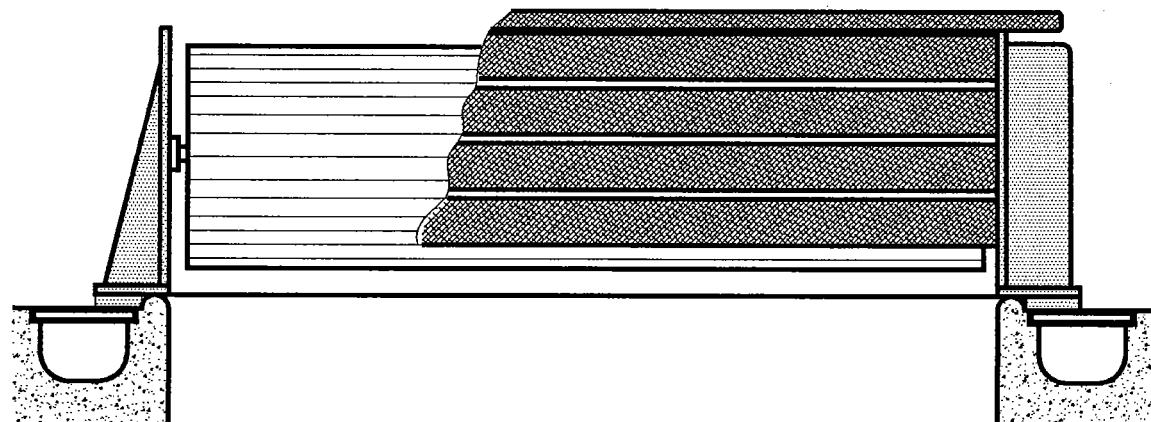
- The cover can travel either left or right on the carrier shaft
- When opening or closing the cover can rest or rub on the pool edge



Installation with a leveldeck-pool

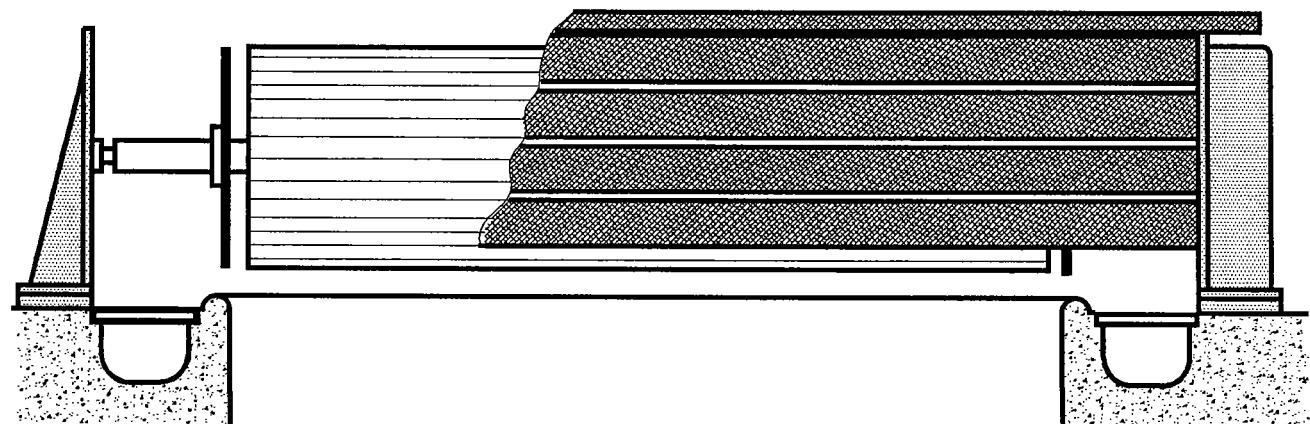
Mounting over level deck channels :

- Special plates can be provided upon receipt of accurate templates to enable the drive and non drive units to be firmly secured

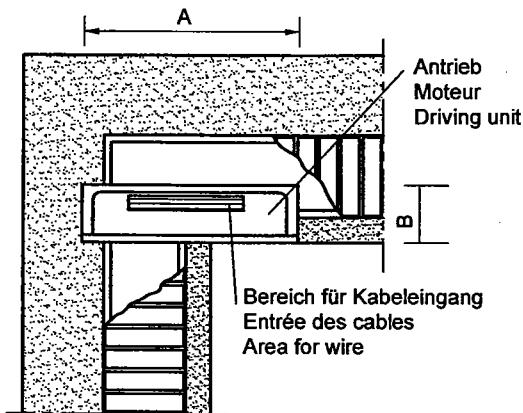
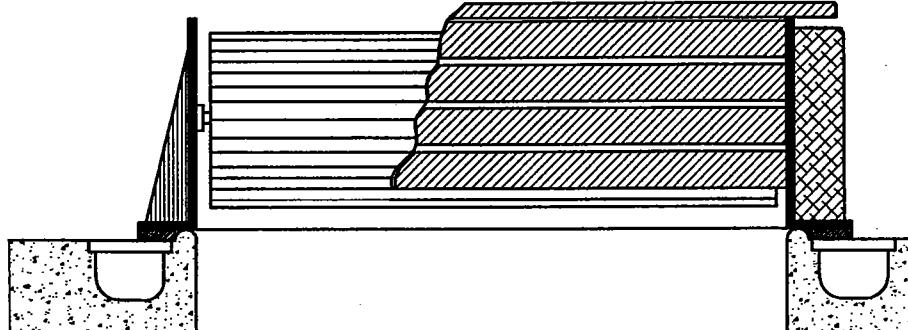
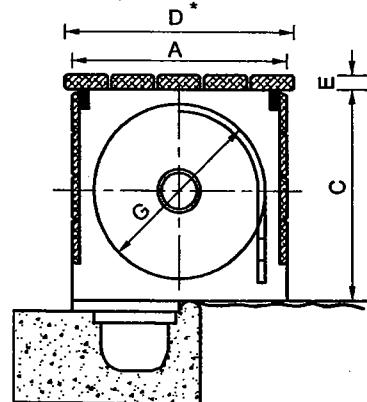


Mounting behind the level deck channels :

- To prevent misalignment when opening and closing the cover guide discs are provided



ALTERNATIVE I



Bis max. 6 m
Beckenbreite und
max. 12 m Becken-
länge

Largeur piscine
jusqu'à 6 m max.
et longueur piscine
jusqu'à 12 m max.

Pool width up to
6 m max. and
pool length up
to 12 m max.

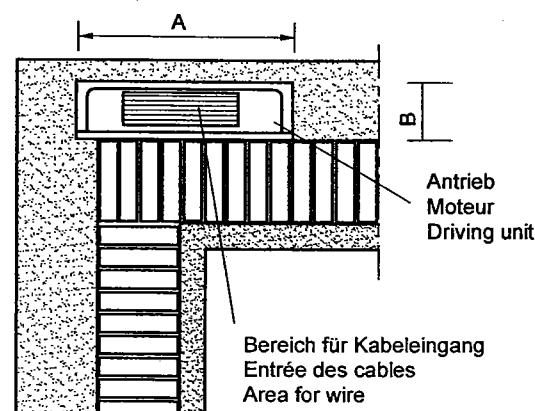
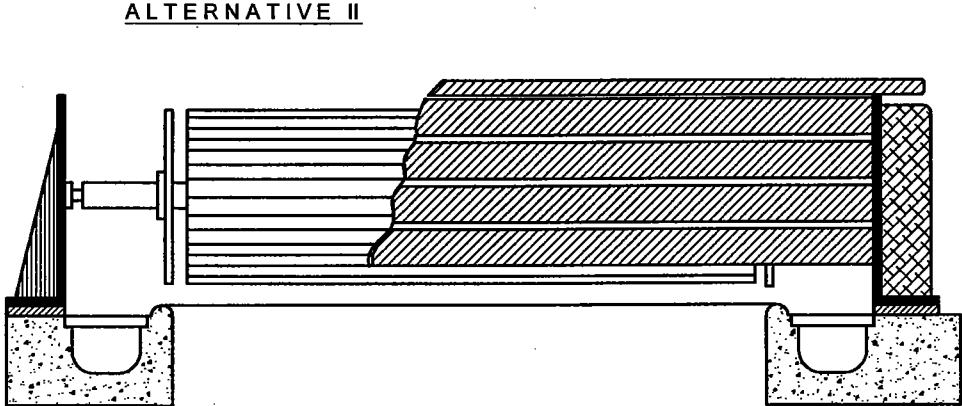
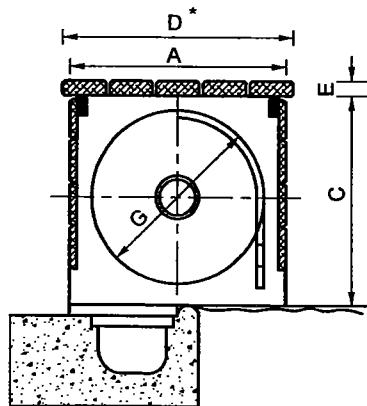
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* über 5 m
Beckenbreite in
stabiler Rahmen-
konstruktion

* Avec ossature
renforcée pour
piscine d'une largeur
supérieure à 5 m

* Extra strong
frame for pools
above 5 m width

ALTERNATIVE II



Bis max. 6 m
Beckenbreite und
max. 12 m Becken-
länge

Largeur piscine
jusqu'à 6 m max.
et longueur piscine
jusqu'à 12 m max.

Pool width up to
6 m max. and
pool length up
to 12 m max.

Breite Largeur Width	Länge Longeur Length	A	B	C	D*	E	F	G
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Anderungen
vorbehalten.
Subject to change

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SCHWIMMBAD-ABDECKUNG LIGHT

BEI ÜBERFLUTUNGSRINNE

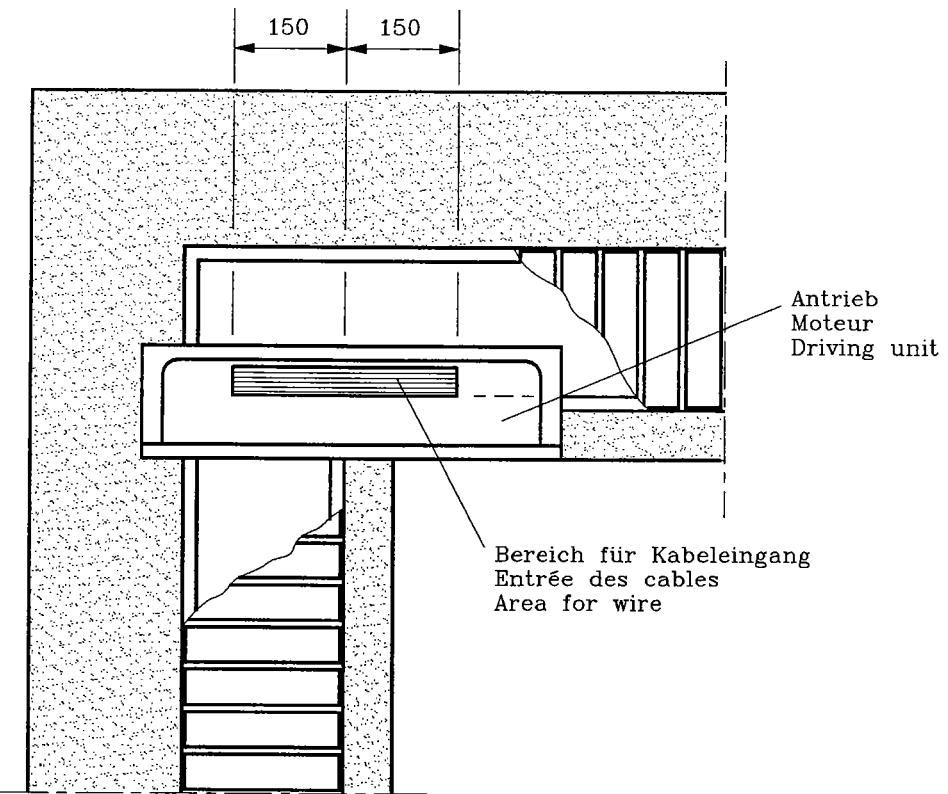
VOLET COUVERTURE LIGHT

AVEC DEBORDEMENT

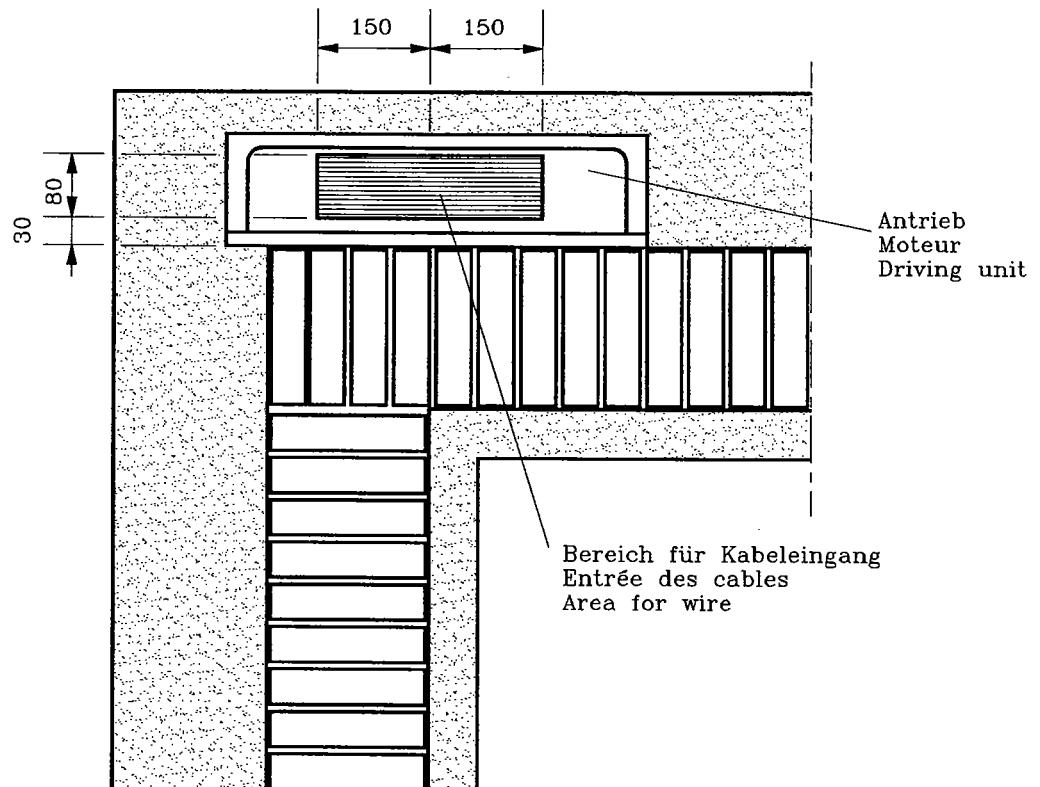
POOL COVER LIGHT FOR OVERFLOW SYSTEM

LIGHT

ALTERNATIVE I



ALTERNATIVE II



Alle Maße sind
Fertigmaße in mm.
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sont des mesures
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Aenderungen
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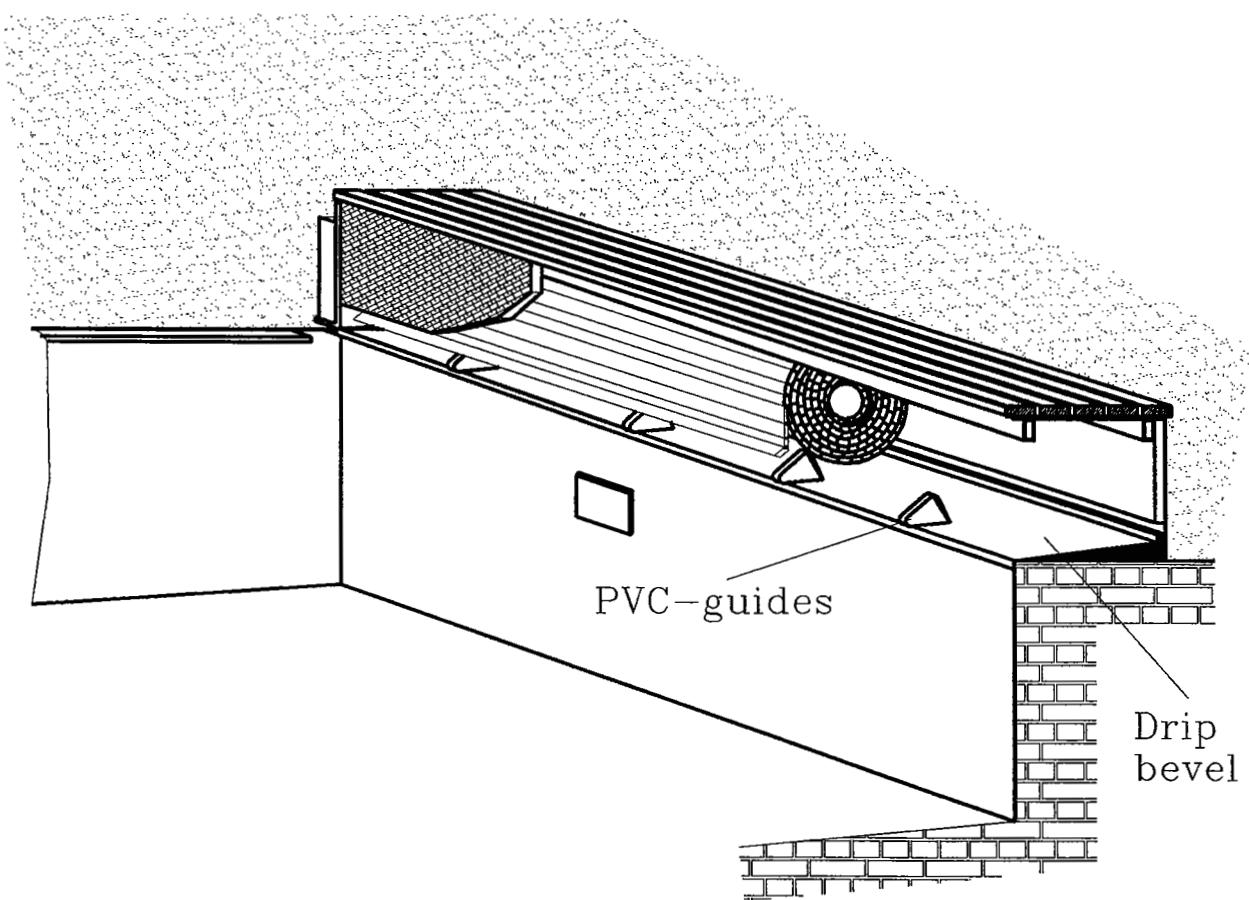
KABELEINGANG ABDECKUNG LIGHT
BEI UBERFLUTUNGSRINNE

ENTREE DES CABLES POUR VOLET
LIGHT AVEC DEBORDEMENT

WIRE AREA LIGHT WITH OVERFLOW SYSTEM

L I G H T

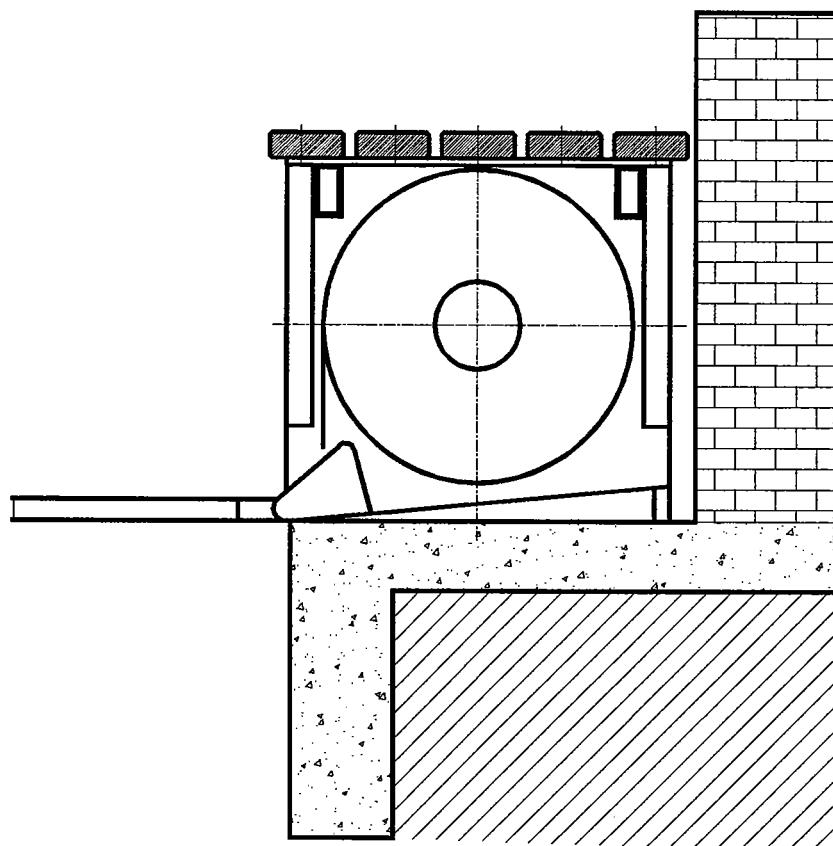
LIGHT cover with paneling flush with the pool edge



- The PVC-guides are individual manufactured according to the measure of the pool edge and installed each 700–800 mm

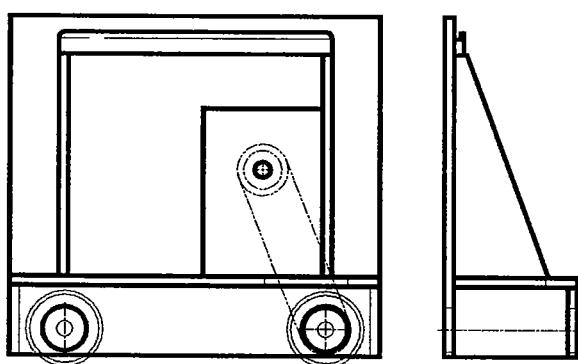
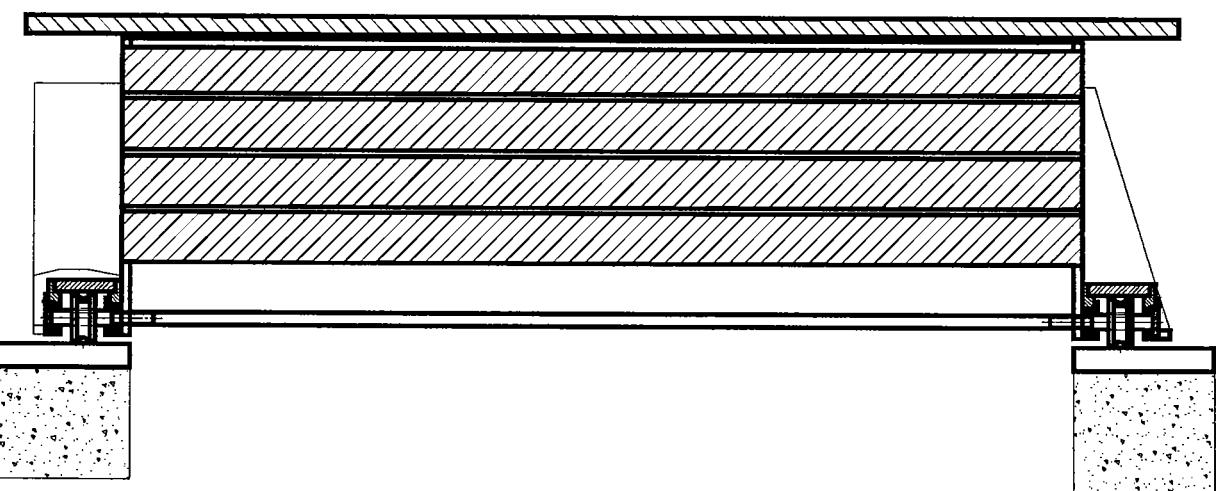
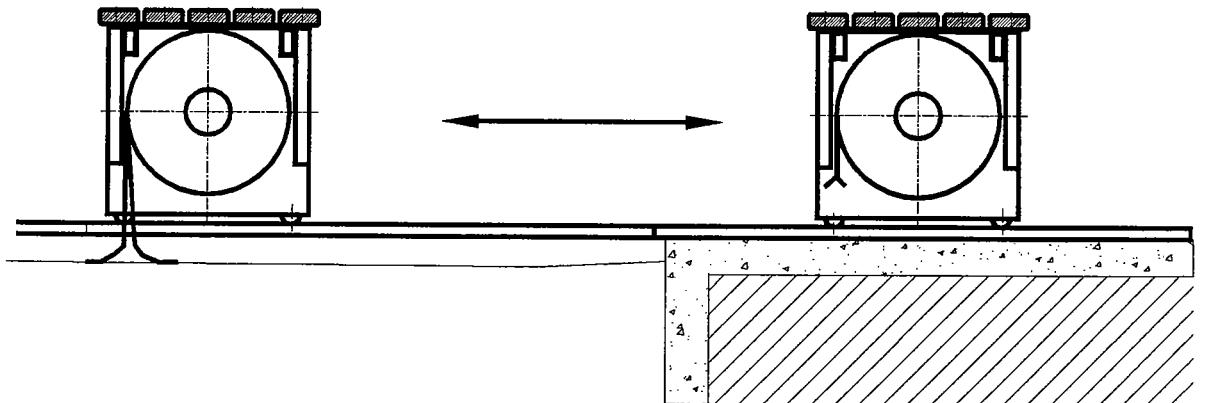


Flush with the pool edge

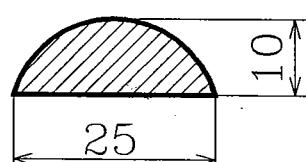


- Installation of PVC-guides
- For indoor-swimming pools, a drip bevel can be installed to allow the water from the opened cover to drain back into the pool

MOBILE

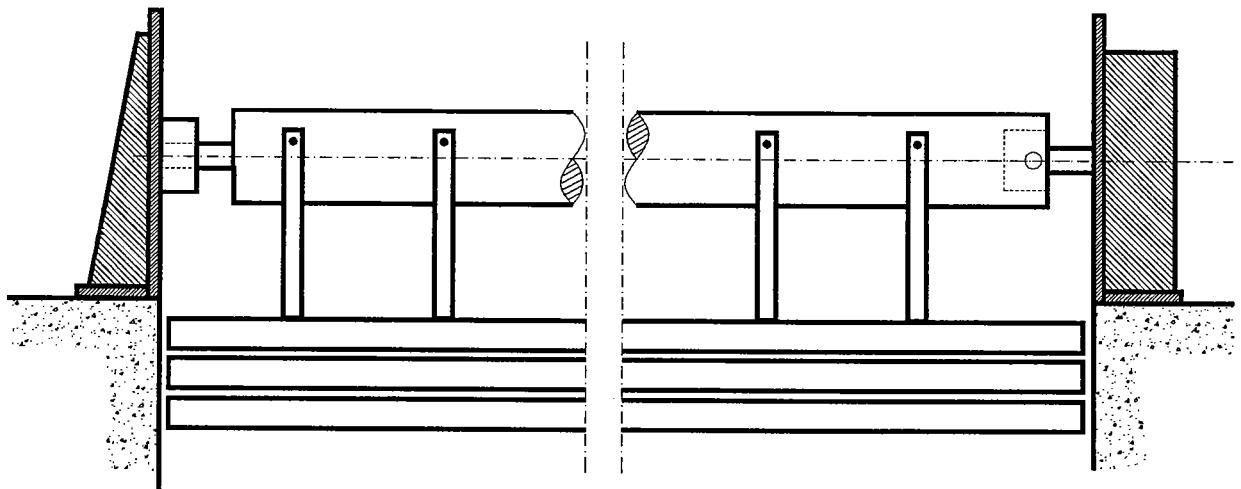


- Cover assembly can be either manually or electrically operated
- Cove assembly runs on brass tracks
- This cover is only available with panelling to all 3 sides

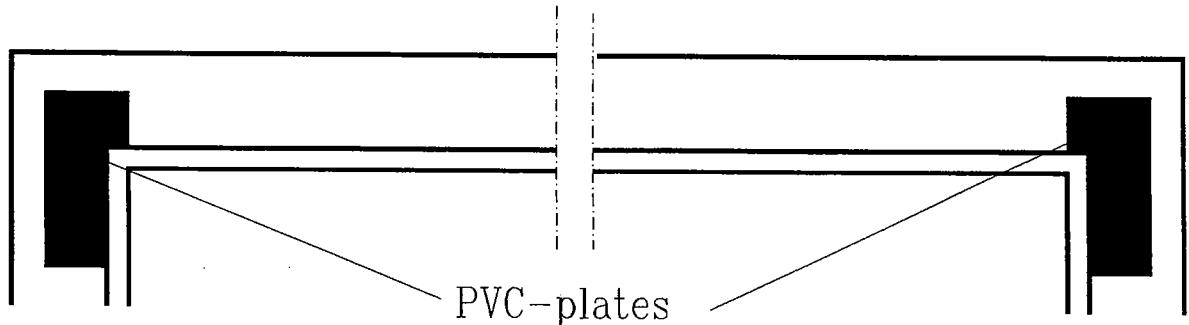
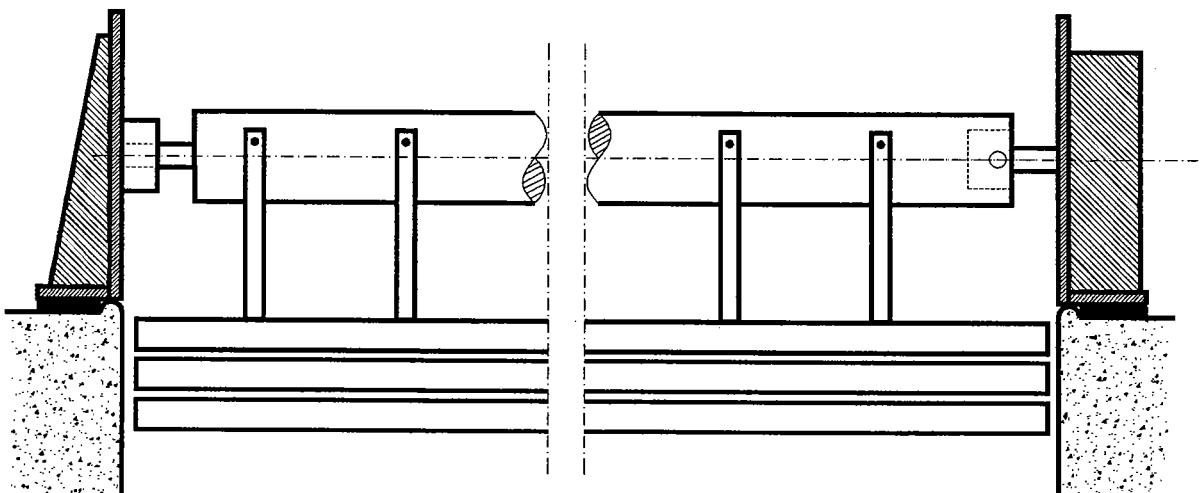




For pool with no top edge overhang

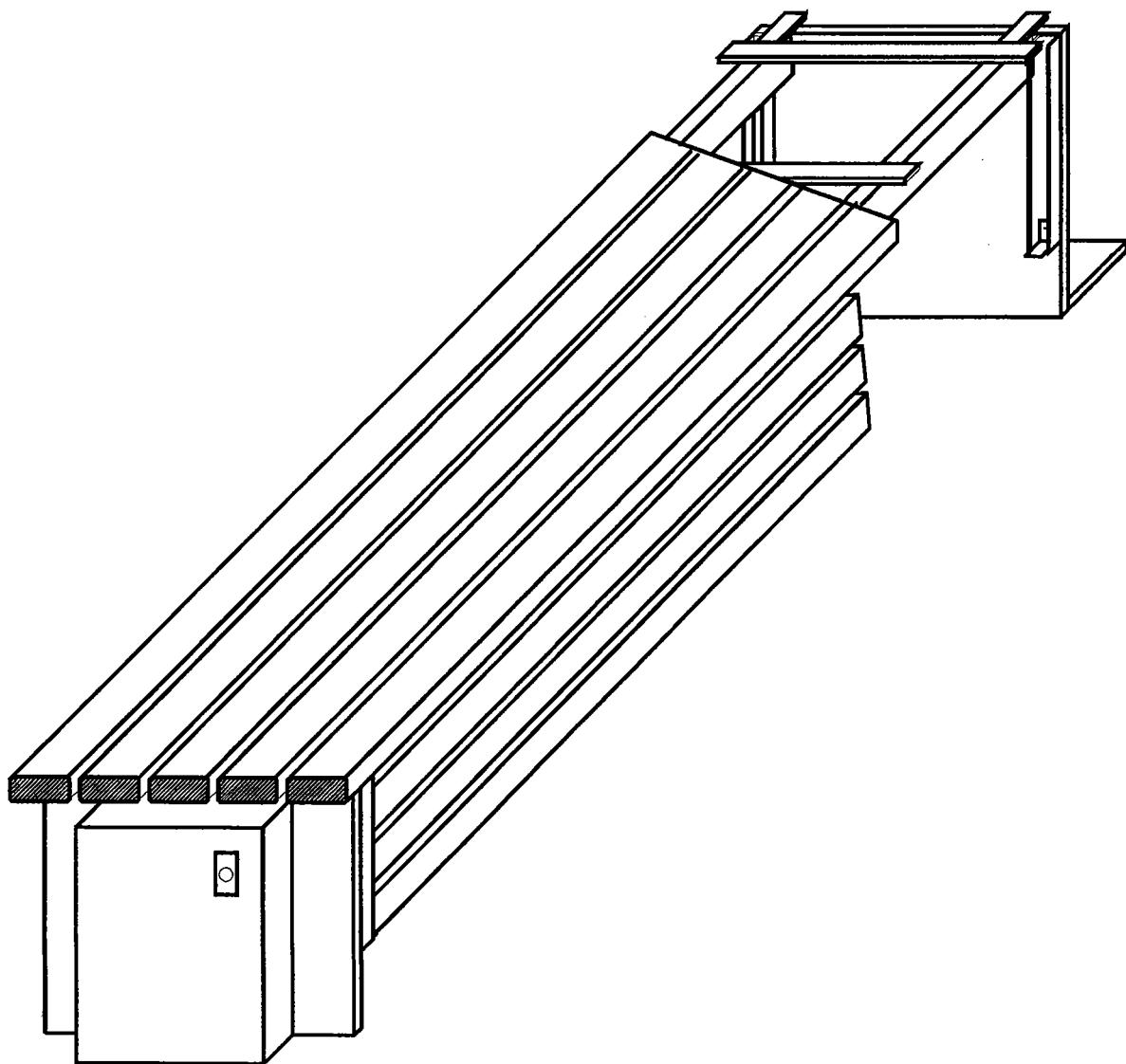


Depending on the edge tile detail the drive
and non drive units must be at the same height.
If necessary PVC-plates can be produced to
provide the necessary clearance



BENCH AND PANELING

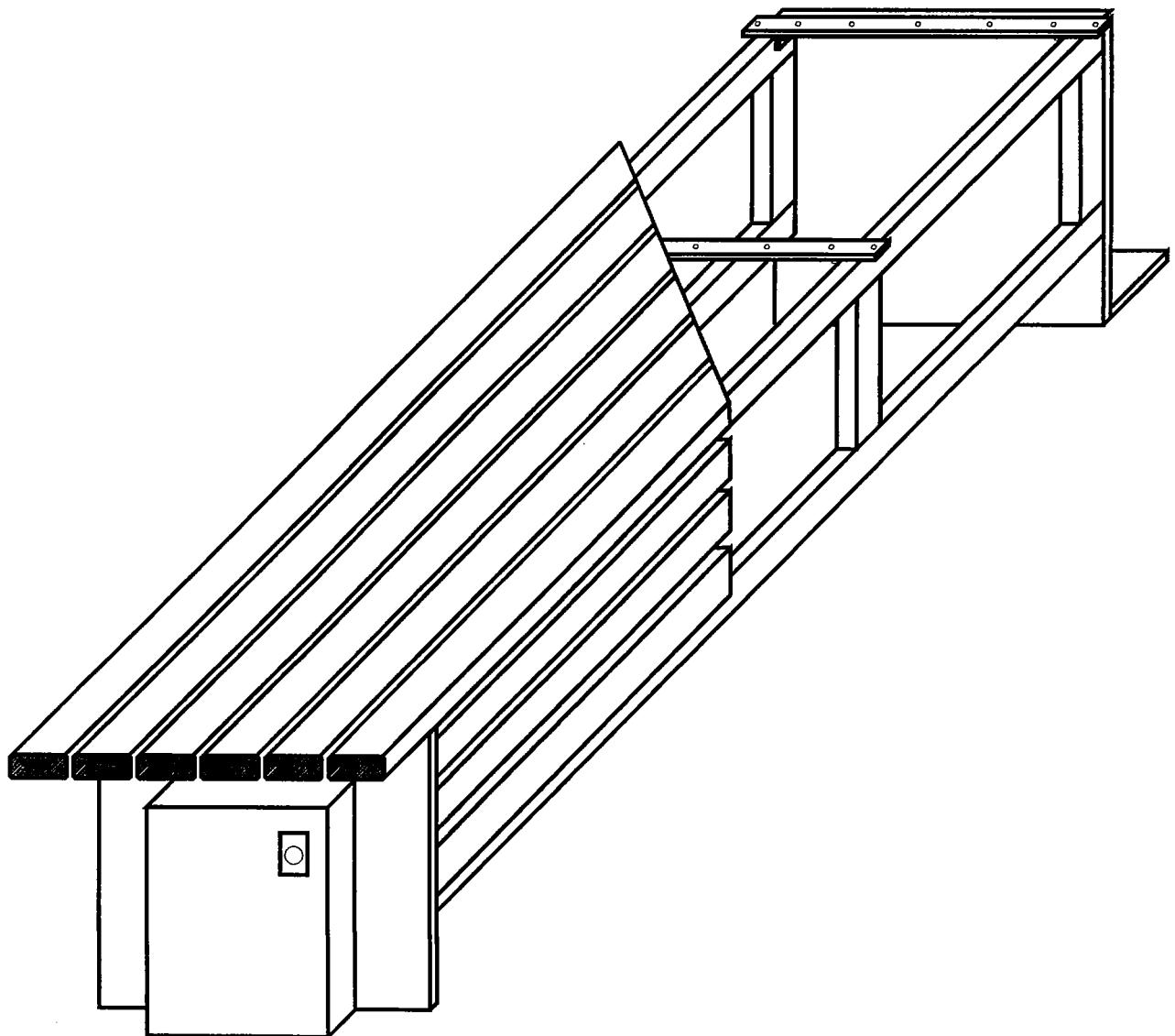
- Bench in wood or PVC with frame construction
- Frame can be constructed to accept paneling by the customer
- Paneling in wood or PVC





FRAME CONSTRUCTION'S PANELING

- In wood or PVC
- To accept panelling by the customer





Schwimmbad-Abdeckungen seit 1963
pool covers • couvertures de piscines

Technical description grando COMPACT

- 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.
- Drive and non drive end supports** Both the drive and non drive end supports are constructed from heavy duty, non biodegradable, solid PVC. The non drive support plate has a ball bearing and an outer seal to prevent water ingress and the smooth rotation of the shaft. The drive motor is protected with a heavy duty PVC housing.
- Drive unit** The drive unit consists of a 24 V DC motor with integral PC board, limit and safety limit switches and thermal trip protection, all housed in an aluminium casing.
- Carrier shaft** The carrier shaft and end journals are constructed from high grade stainless steel.
- Power supply** The 240 V/24 V DC transformer, with protected primary and secondary windings, is supplied within an IP 55 rated casing.
- Key switch** The key switch is located within the driving unit and consists of an anodised face plate with a removable key for the open/close operation and an emergency stop switch. Auxiliary key switches are available for remote location.

ACCESSORIES

- Top bench** The top bench is panelled with, either white PVC or treated meranti hardwood slats. The panelling is fixed onto the sandblasted, hot dip galvanised and PVC lacquered steel framework. For pools over 5 m wide a centre support is necessary.
- Front/Rear Panels** The front and rear panels are available with either PVC or meranti hardwood slats to match the top bench. For pools over 5 m wide the panelling will require a centre support.
- Framework** For pools over 5 m wide the top bench and front and rear panel framework can be supplied to accept panelling by the customer. It is possible to retrospectively fit original grando PVC and timber finishes to the top bench a front and rear panels
- Drip bevel** For indoor pools, a drip bevel can be installed to allow the water from the opened cover to drain back into the pool.
- Handrail** 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.



THE COMPACT COVER

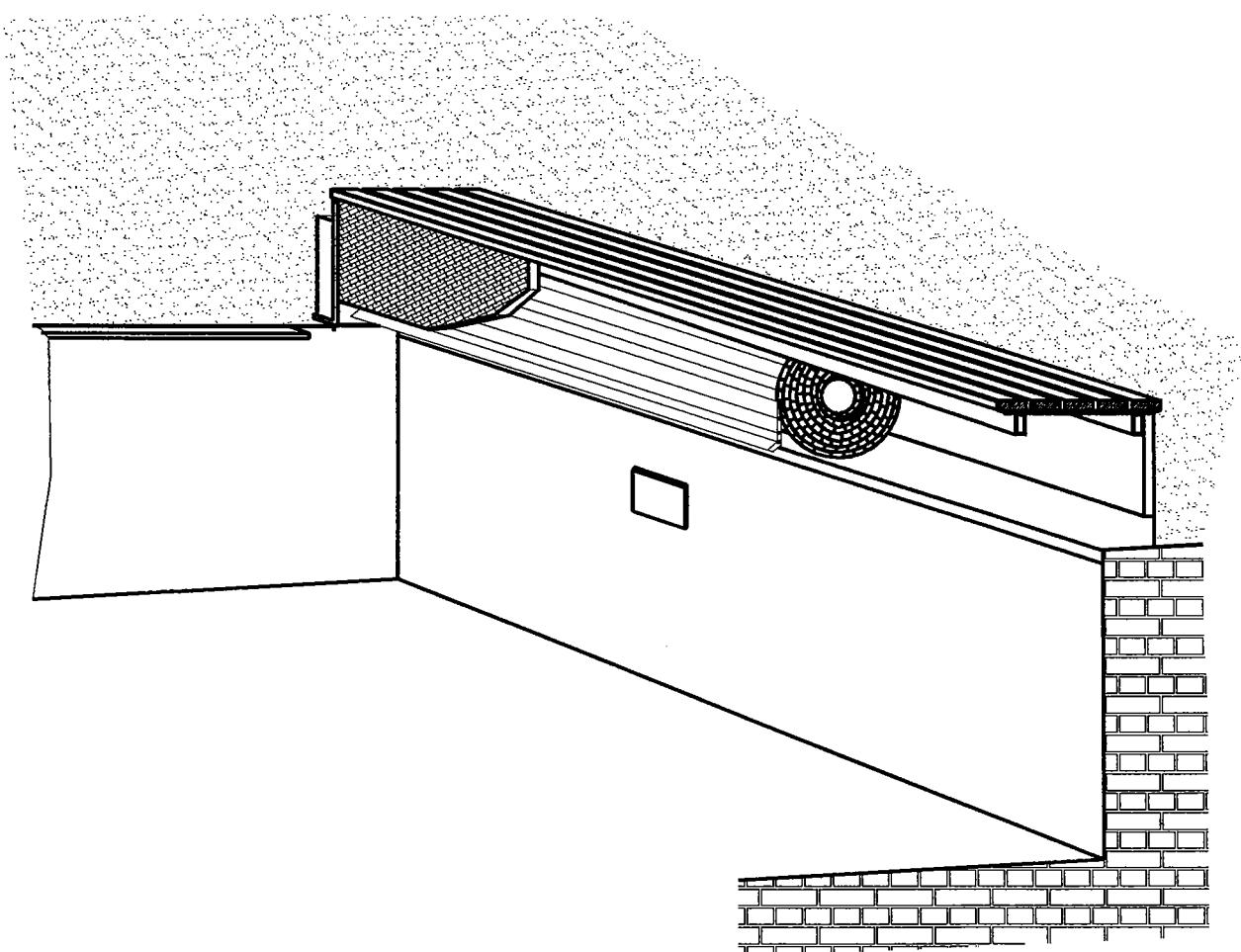
- 14 mm thick standard-profile
- Stainless steel shaft
- Compact drive motor and limits are housed in an aluminium casing

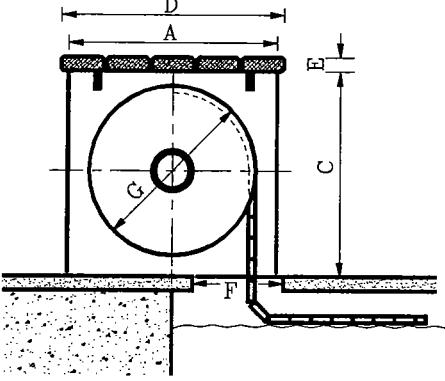
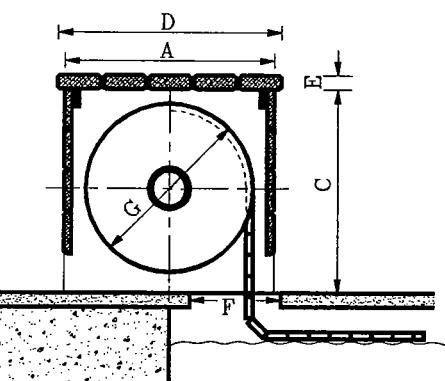
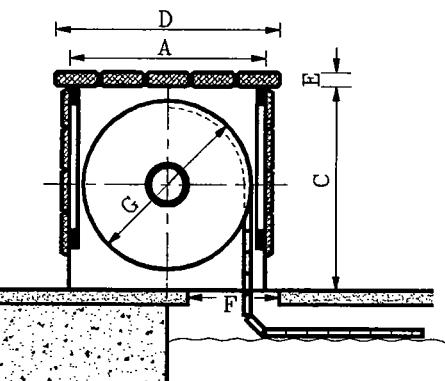
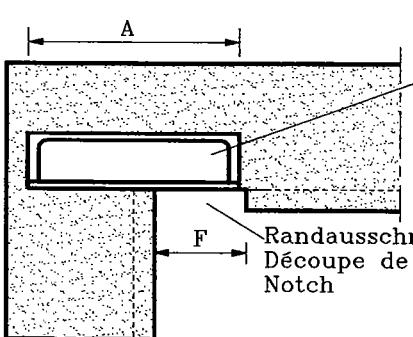
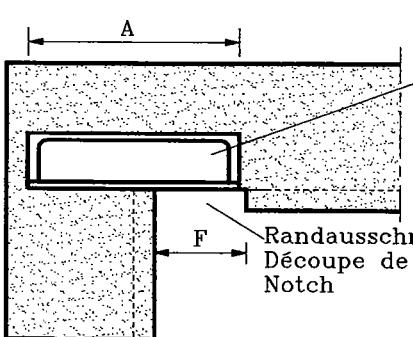
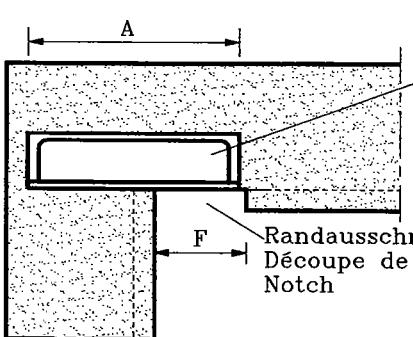
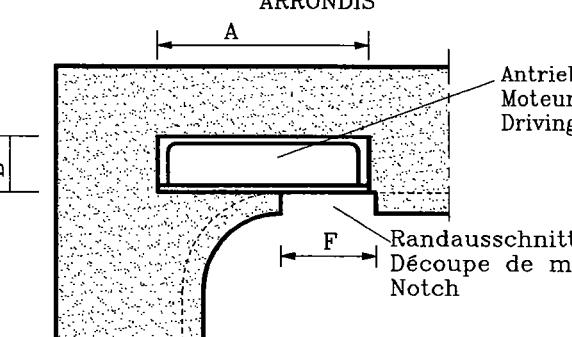
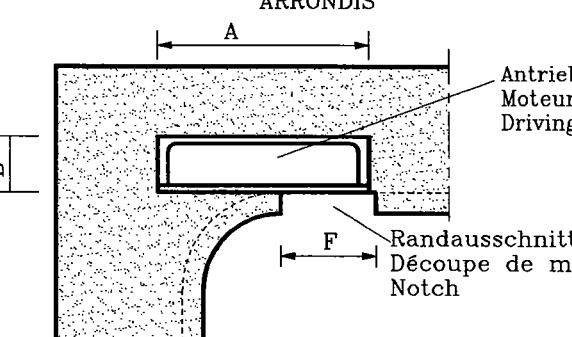
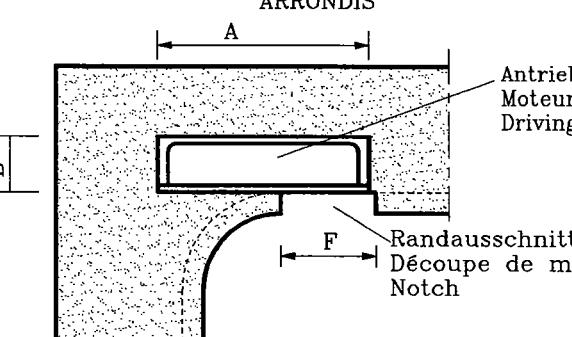
For the LIGHT and COMPACT covers, the end support plates are constructed in heavy duty PVC. This means :

- Simple modification of the bearing plates
- No rust spots
- No lacquered finish necessary and no staining

grando®

COMPACT with panelling normal position

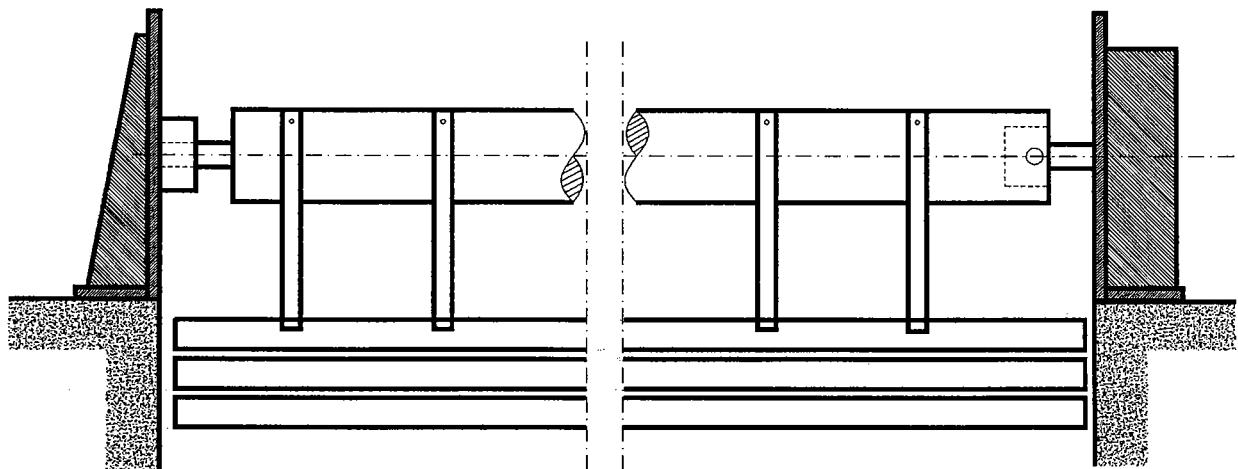


	COMPACT MIT SITZBANK Bis 5 m Beckenbreite <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Länge Longueur Length</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>- - 7 m</td> <td>480</td> <td>165</td> <td>480</td> <td>572</td> <td>30</td> <td>250</td> <td>435</td> </tr> <tr> <td>7 - 9 m</td> <td>530</td> <td>165</td> <td>530</td> <td>585</td> <td>30</td> <td>270</td> <td>475</td> </tr> <tr> <td>9 - 12 m</td> <td>580</td> <td>170</td> <td>580</td> <td>655</td> <td>30</td> <td>300</td> <td>540</td> </tr> </tbody> </table>	Länge Longueur Length	A	B	C	D	E	F	G	- - 7 m	480	165	480	572	30	250	435	7 - 9 m	530	165	530	585	30	270	475	9 - 12 m	580	170	580	655	30	300	540	COMPACT AVEC BANC Largeur piscine jusqu'à 5 m <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Länge Longueur Length</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>- - 7 m</td> <td>480</td> <td>165</td> <td>480</td> <td>572</td> <td>30</td> <td>250</td> <td>435</td> </tr> <tr> <td>7 - 9 m</td> <td>530</td> <td>165</td> <td>530</td> <td>585</td> <td>30</td> <td>270</td> <td>475</td> </tr> <tr> <td>9 - 12 m</td> <td>580</td> <td>170</td> <td>580</td> <td>655</td> <td>30</td> <td>300</td> <td>540</td> </tr> </tbody> </table>	Länge Longueur Length	A	B	C	D	E	F	G	- - 7 m	480	165	480	572	30	250	435	7 - 9 m	530	165	530	585	30	270	475	9 - 12 m	580	170	580	655	30	300	540	COMPACT WITH BENCH Pool width up to 5 m																																																																
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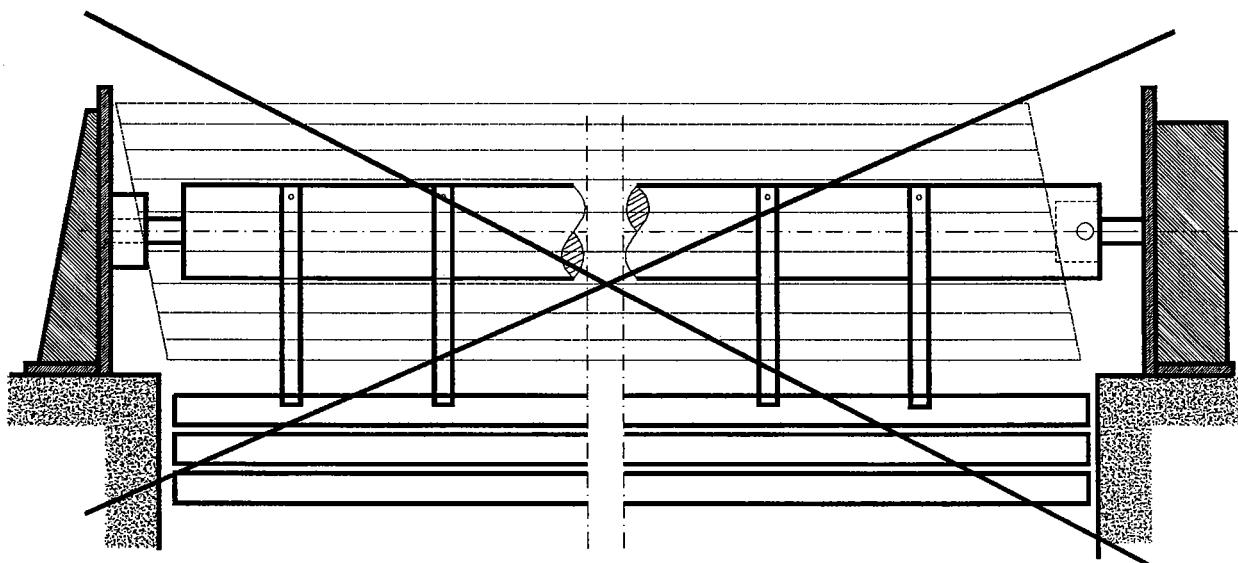


Normal position

Flusch with the pool wall and respective edge tile



Position beyond the pool walls



Dangers :

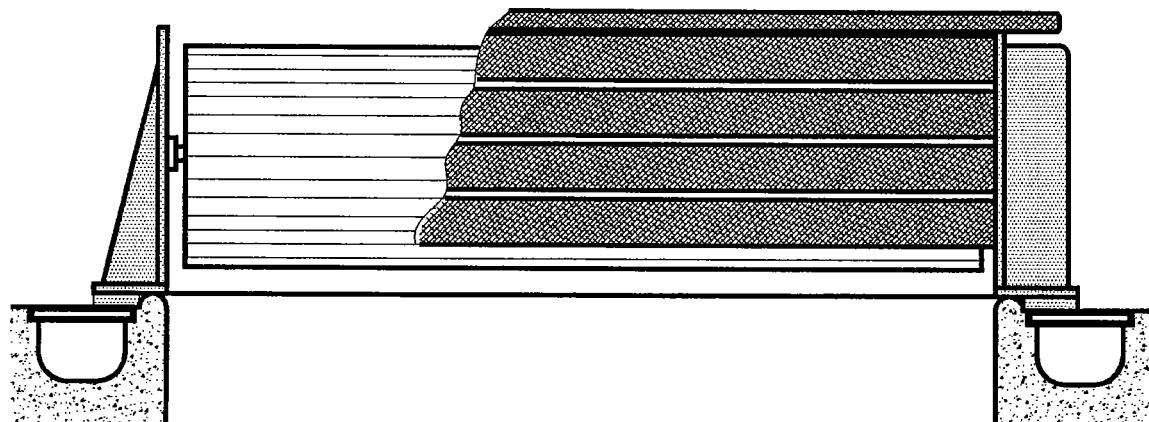
- The cover can travel either left or right on the carrier shaft
- When opening or closing the cover can rest or rub on the pool edge



Installation with a leveldeck-pool

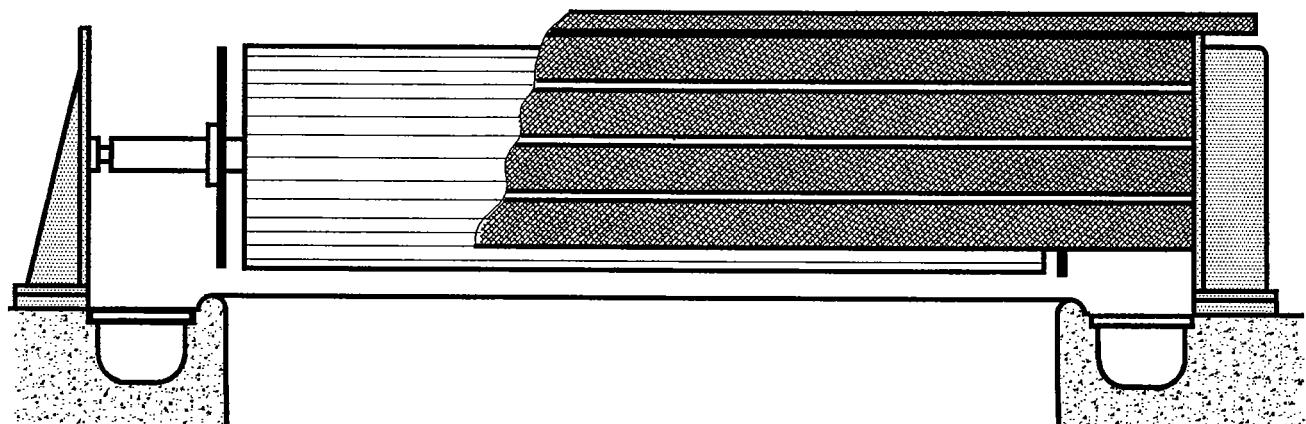
Mounting over level deck channels :

- Special plates can be provided upon receipt of accurate templates to enable the drive and non drive units to be firmly secured

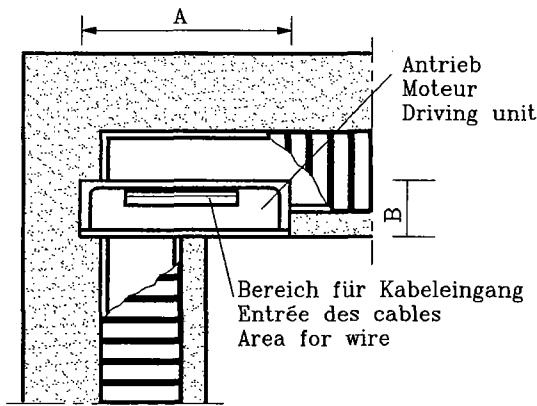
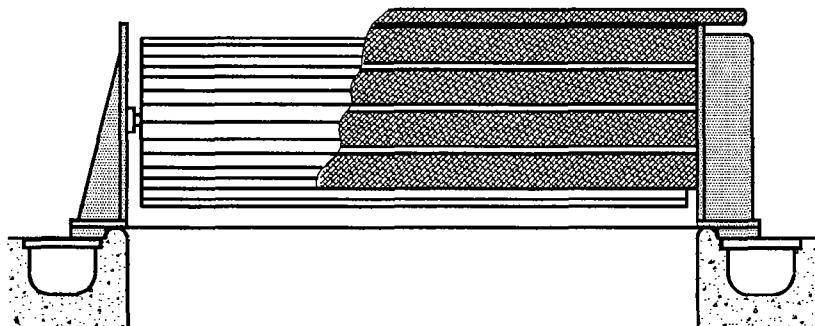
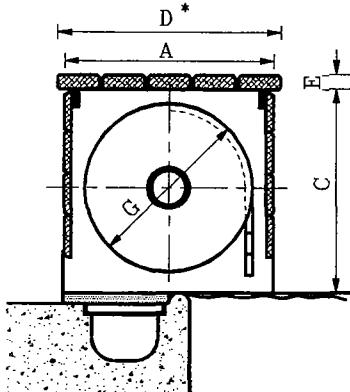


Mounting behind the level deck channels :

- To prevent misalignment when opening and closing the cover guide discs are provided



A L T E R N A T I V E I



Bis max. 7 m
Beckenbreite

Largeur piscine
jusqu'à 7 m max.

Pool width up
to 7 m max.

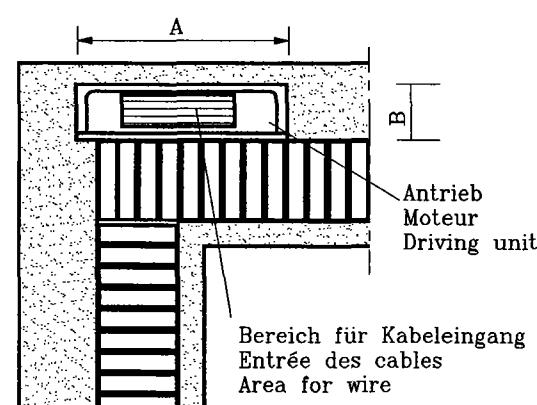
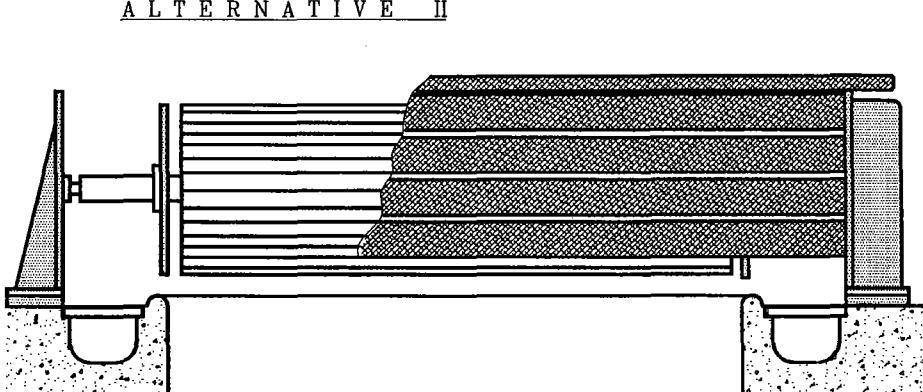
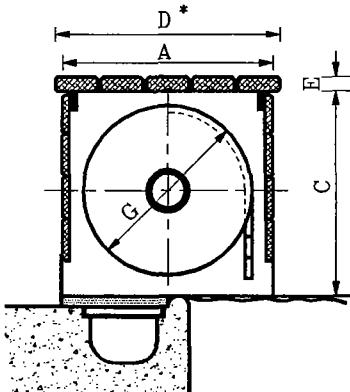
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* Über 5 m
Beckenbreite in
stabiler Rahmen-
konstruktion

* Avec ossature
renforcée pour
piscine d'une largeur
supérieure à 5 m

* Extra strong
frame for pools
above 5 m width

A L T E R N A T I V E II



Bis max. 7 m
Beckenbreite

Largeur piscine
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Pool width up
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Alle Maße sind
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Toutes les mesures
sont des mesures
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All dimensions are
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Anderungen
vorbehalten.
Sous réserve de
modifications.
Subject to change

grando

grando GmbH
SCHWIMMBAD-ABDECKUNGEN
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01.07.91

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c/anl/201-002

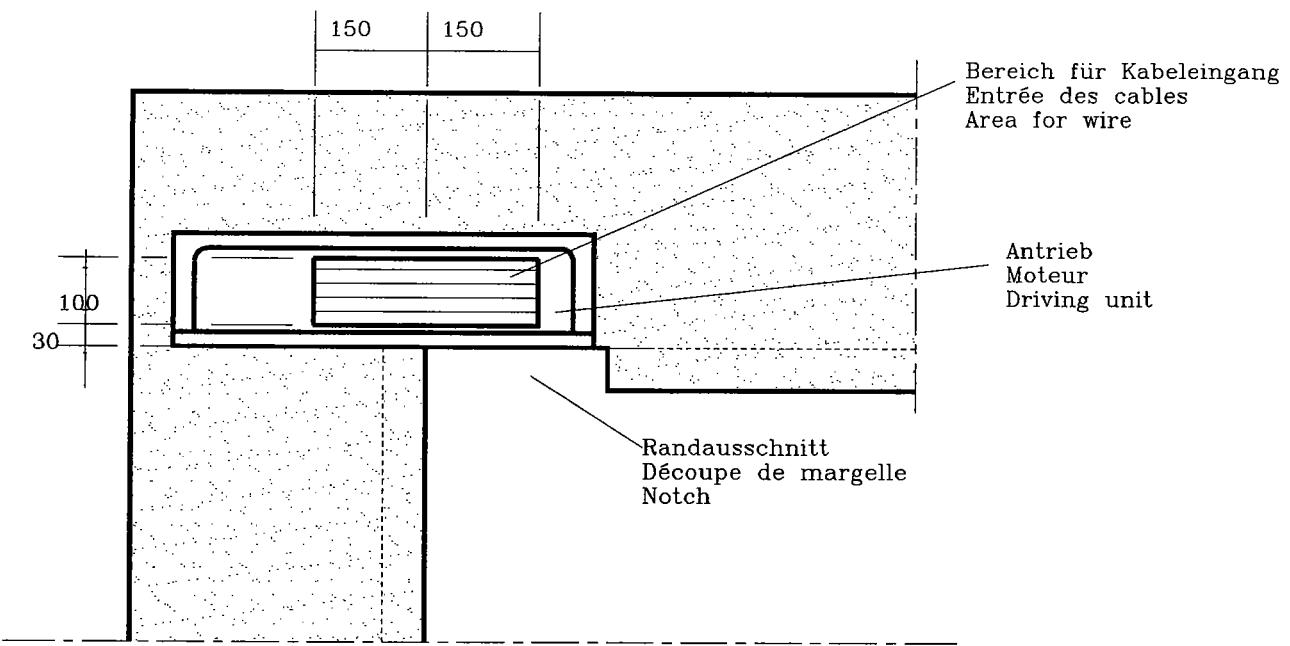
201-002

SCHWIMMBAD-ABDECKUNG COMPACT
BEI ÜBERFLUTUNGSRINNE
VOLET COUVERTURE COMPACT
AVEC DEBORDEMENT

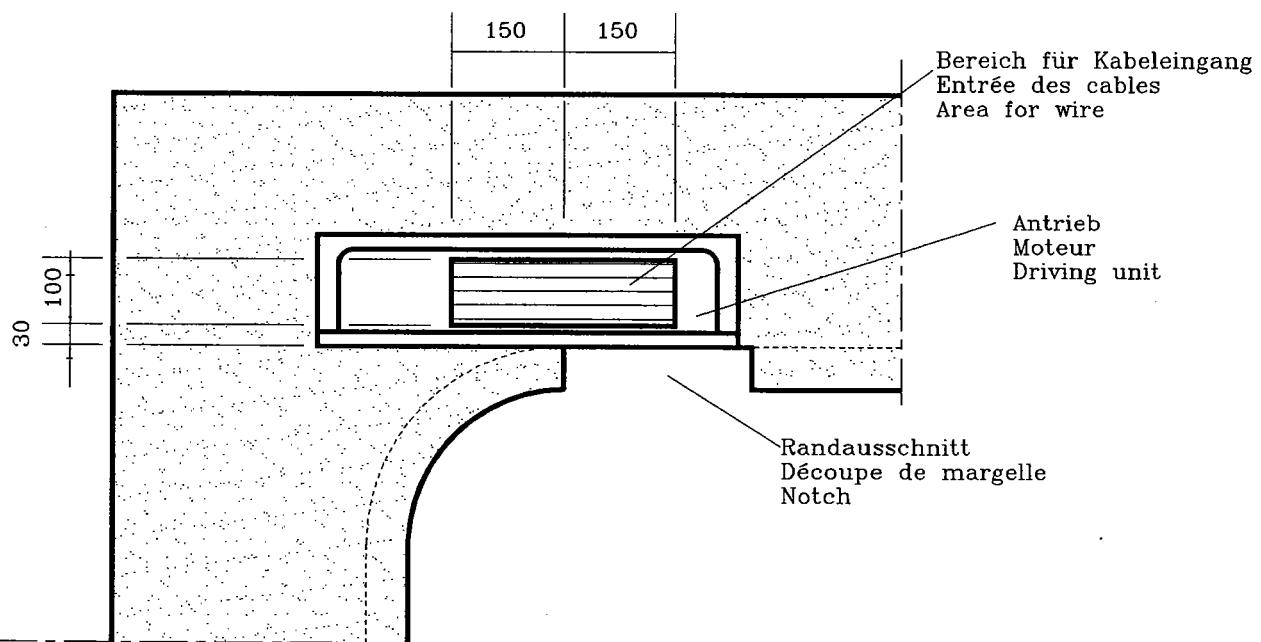
POOL COVER COMPACT FOR OVERFLOW SYSTEM

COMPACT

AUFSTELLUNG BEI BECKEN MIT RECHTWINKLIGEN ECKEN
 EMPLACEMENT ET CAS DE PISCINE AVES DES ANGLES 45°
 PLACEMENT IN CASE OF POOL WITH RIGHTANGLED CORNERS



AUFSTELLUNG BEI BECKEN MIT RUNDEN ECKEN
 EMPLACEMENT ET CAS DE PISCINE AVES DES ANGLES ARRONDIS
 PLACEMENT IN CASE OF POOL WITH ROUND CORNERS



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.

grando

grando GmbH

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 De-Gasperi-Straße 6
 D-51469 Bergisch Gladbach
 Telefon: 02202/1049-0
 Telefax: 02202/104910

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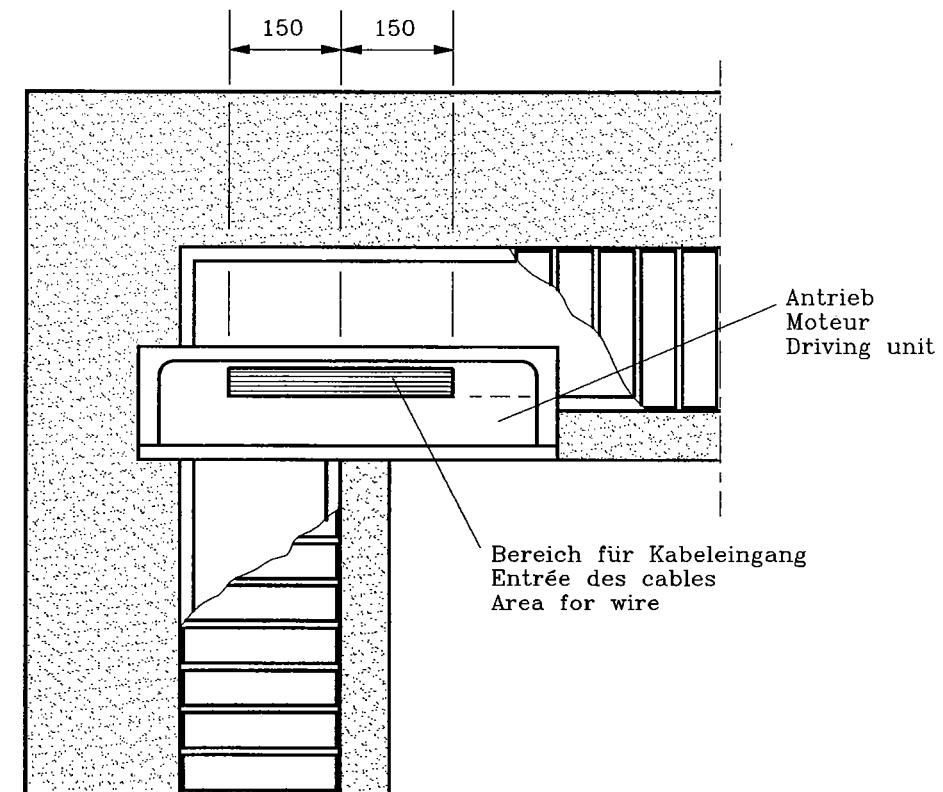
c/anl/201-003

201-003

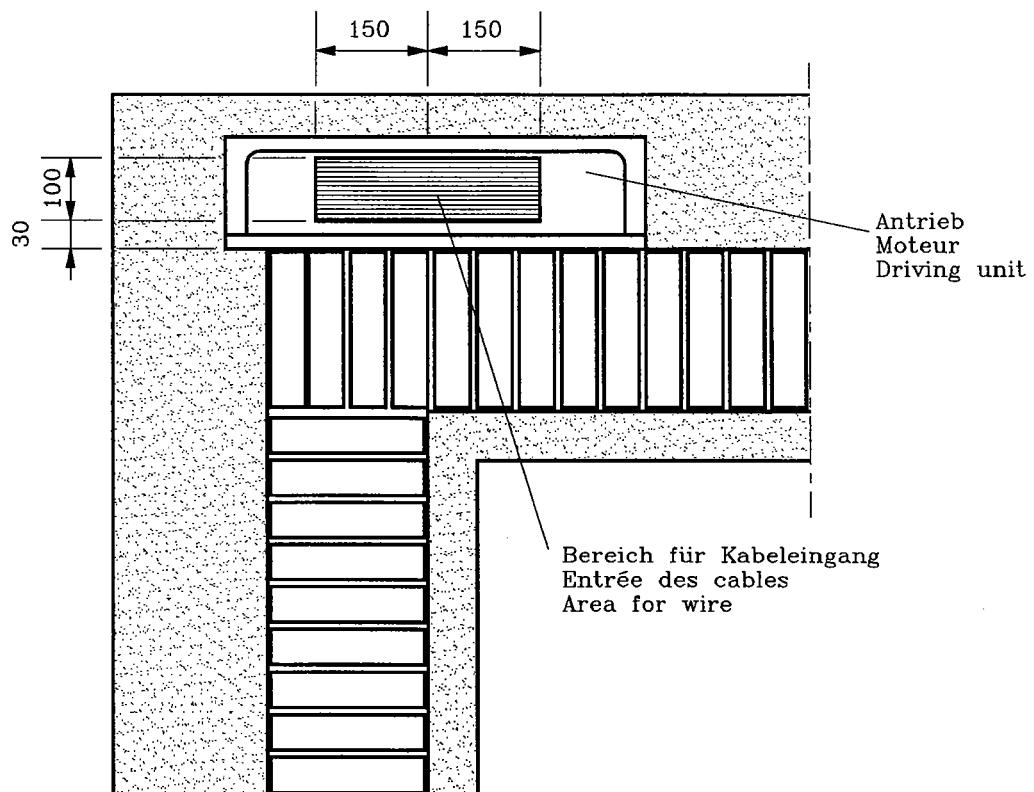
KABELEINGANG FÜR ABDECKUNG COMPACT
 ENTREE DES CABLES VOLET COMPACT
 WIRE AREA FOR COMPACT COVER

COMPACT

ALTERNATIVE I



ALTERNATIVE II



Alle Maße sind
Fertigmaße in mm.
Toutes les mesures
sont des mesures
finales en mm.

All dimensions are
finished dimensions
in mm.

Anderungen
vorbehalten.
Sous réserve de
modifications.
Subject to change

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c/anl/201-004

201-004

KABELEINGANG ABDECKUNG COMPACT
BEI ÜBERFLUTUNGSRINNE

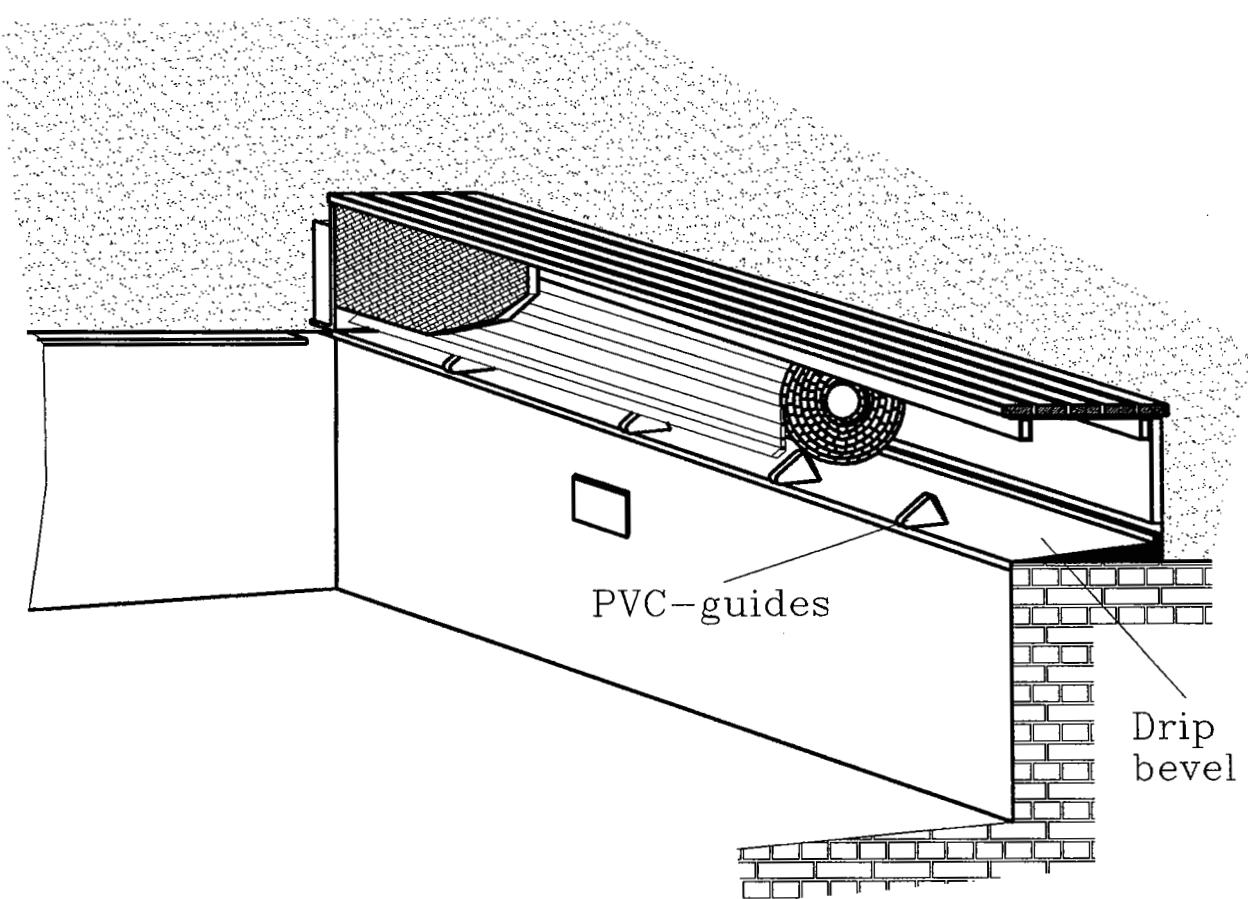
ENTREE DES CABLES POUR VOLET
COMPACT AVEC DEBORDEMENT

WIRE AREA COMPACT WITH OVERFOLW SYSTEM

COMPACT

grando®

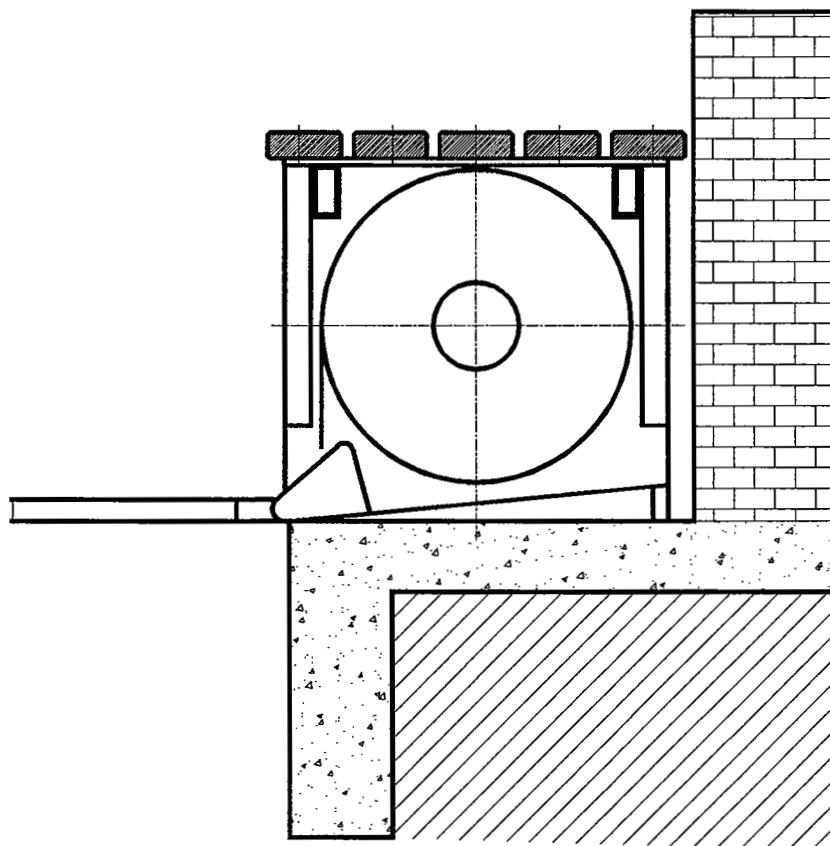
COMPACT cover with paneling flush with the pool edge



- The PVC-guides are individual manufactured according to the measure of the pool edge and installed each 700–800 mm

grando®

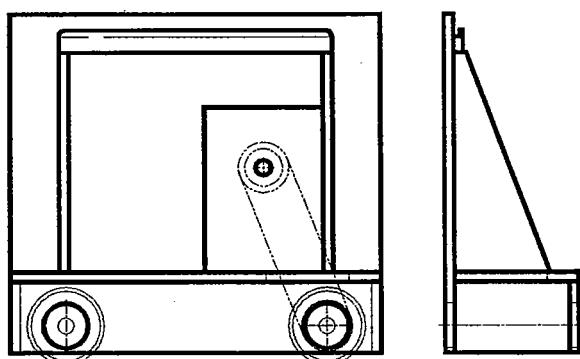
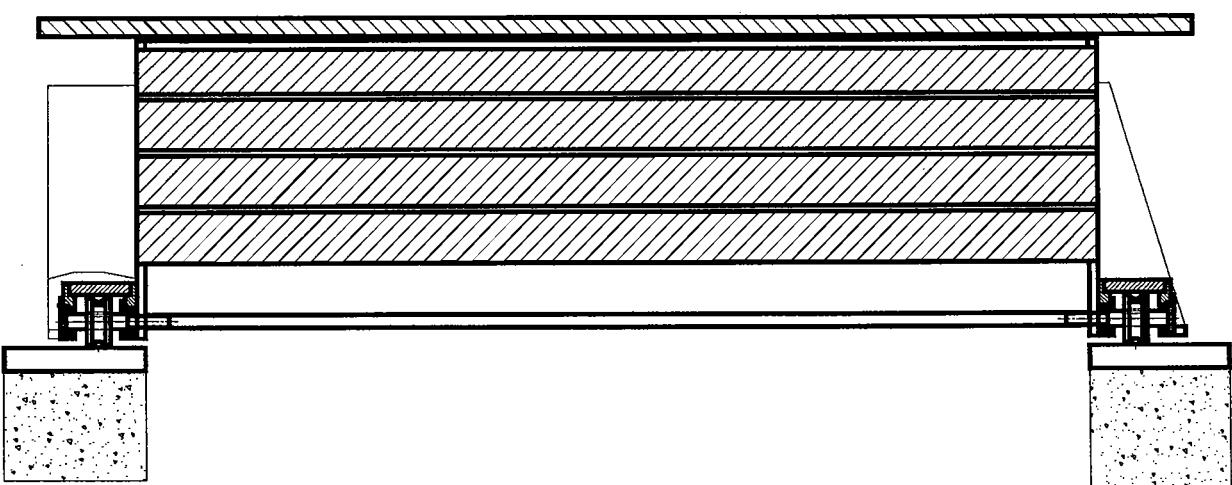
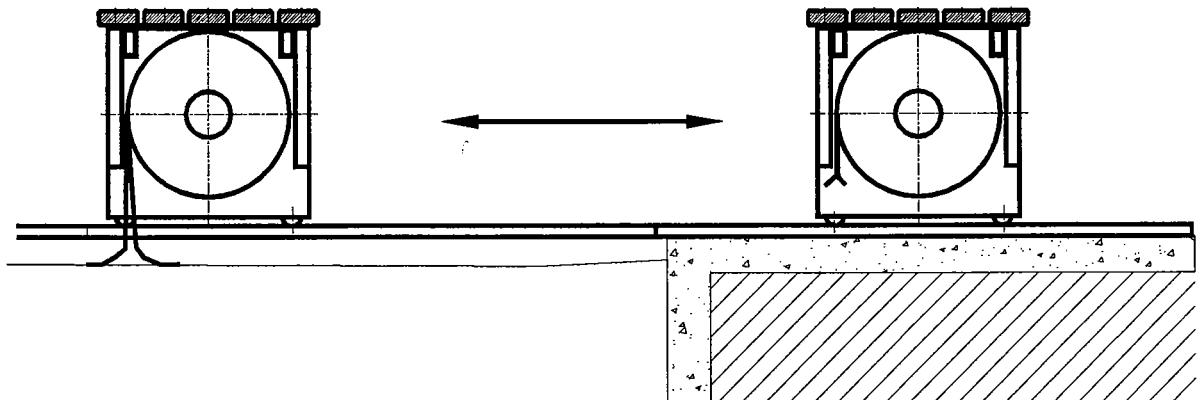
Flush with the pool edge



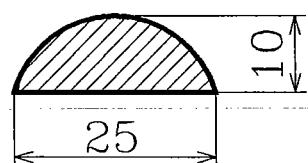
- Installation of PVC-guides
- For indoor-swimming pools, a drip bevel can be installed to allow the water from the opened cover to drain back into the pool



MOBILE

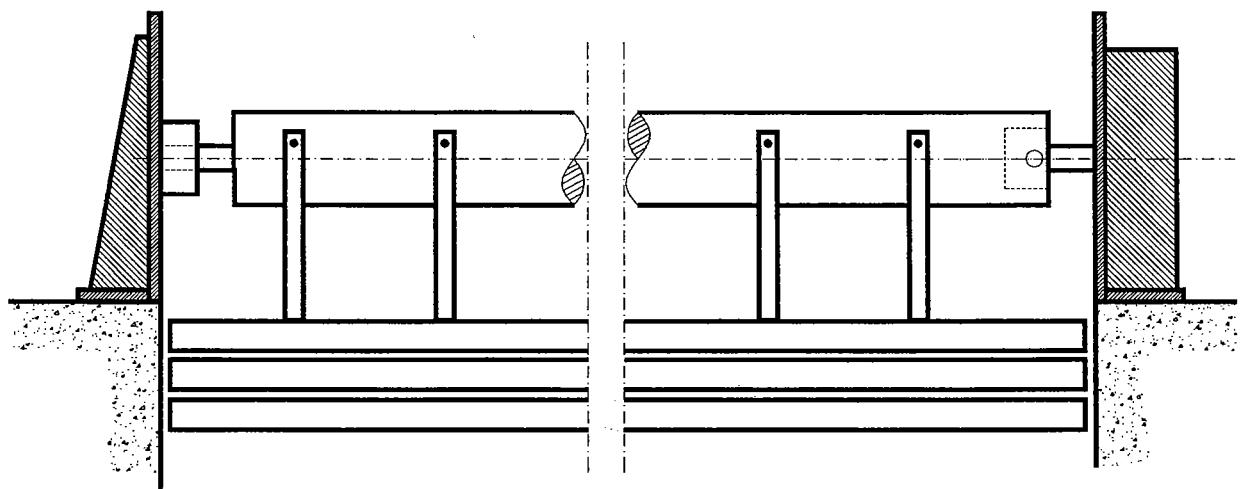


- Cover assembly can be either manually or electrically operated
- Cove assembly runs on brass tracks
- This cover is only available with panelling to all 3 sides

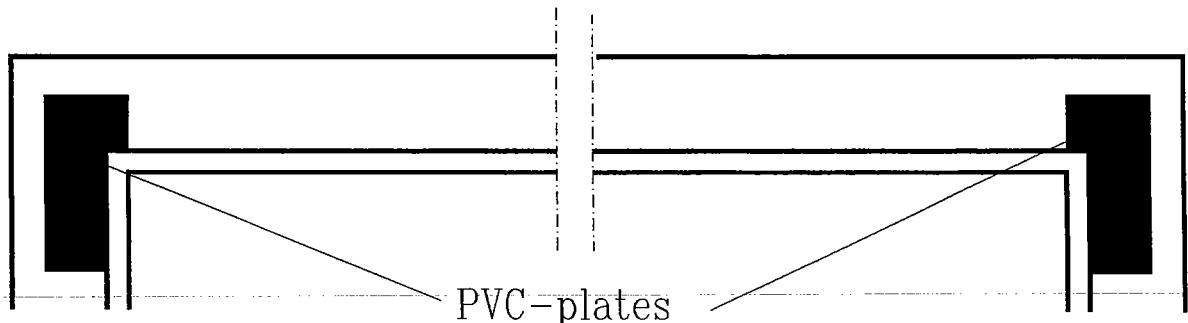
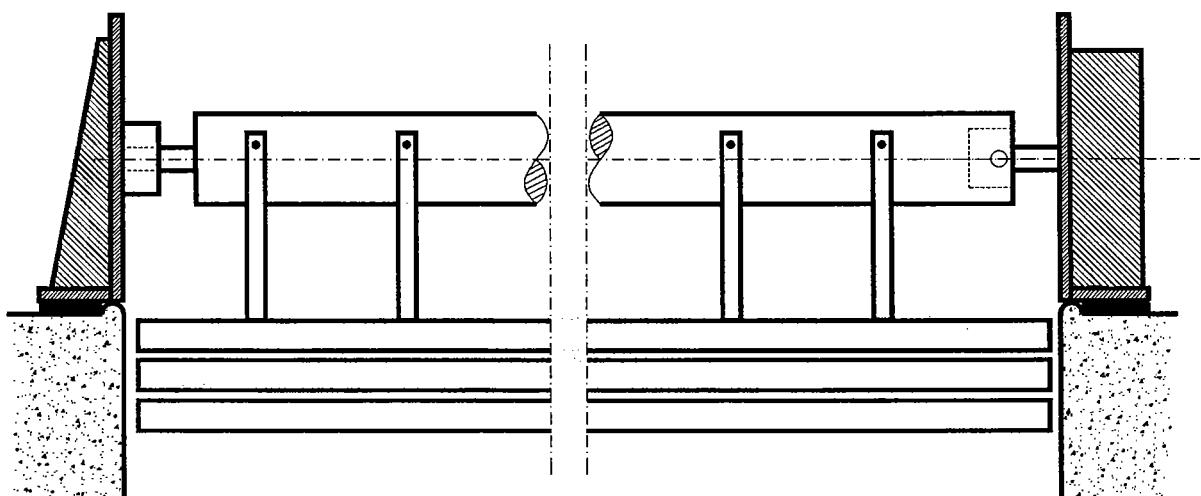




For pool with no top edge overhang



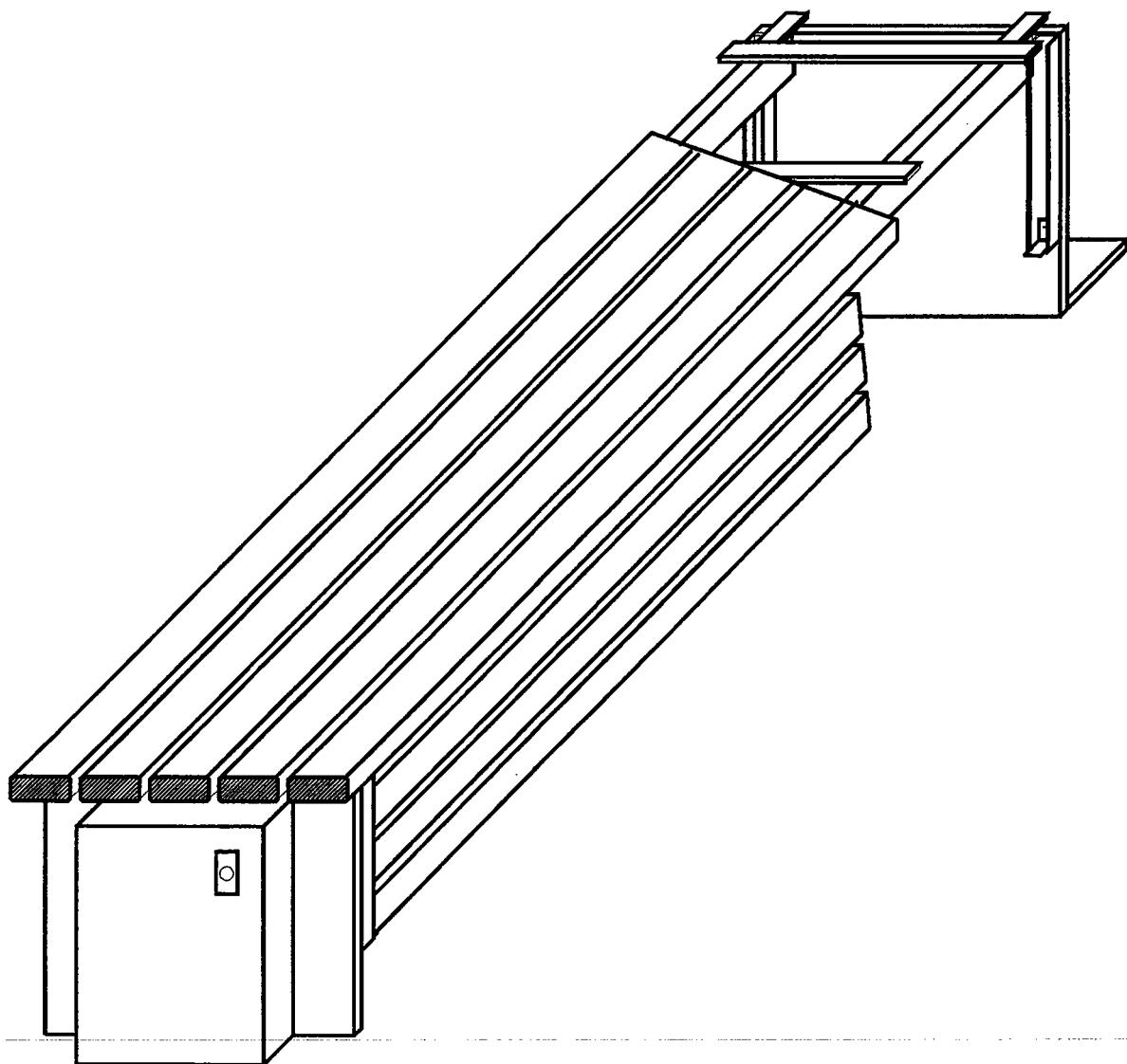
Depending on the edge tile detail the drive and non drive units must be at the same height.
If necessary PVC-plates can be produced to provide the necessary clearance





BENCH AND PANELING

- Bench in wood or PVC with frame construction
- Frame can be constructed to accept paneling by the customer
- Paneling in wood or PVC





FRAME CONSTRUCTION'S PANELING

- In wood or PVC
- To accept panelling by the customer

