coverseal

Technical Specifications

Focus
Technical Configuration

1. Technical Data Sheets
2. Presentation and choice of rail
3. Dimensions of the cover
4. Permitted obstacle(s)
5. Required water level

2025

1. Technical Data Sheet (V7) Manual model

Specifications

4-season safety cover that complies with the **AFNOR regulation NF P 90-308 December 2013**

- **Manipulation:** Ratchet spanner to be placed on the central drum for closing and opening
- **Membrane:** PVC pre-stressed membrane 670 g/m²
- **Belt:** Polyurethane with stainless steel cables
- **Mechanical:** All the metallic parts involved in the security are in anodized aluminium and 316 stainless steel
- **Rails:** Anodised aluminium
- **Casing:** Polyester powder-coated aluminium, matt finished of RAL colour 7037 (standard)
- **Length:** min 2 meters -> max 24 meters
- **Width:** min 2 meters -> max 8,5 meters (depending on the length of the cover)[1]
- **Speed:** Closing/opening time: 60 seconds for a length of 5 meters

Available membrane colours

RAL 7037	RAL 7035	RAL 1015	RAL 1019	RAL 5015	RAL 5002	RAL 6021	RAL 6026	RAL 9005
Dust grey	Light grey	Light ivory	Taupe	Sky blue	Cobalt blue	Provence green	Opale green	Pure black

Available casing colours

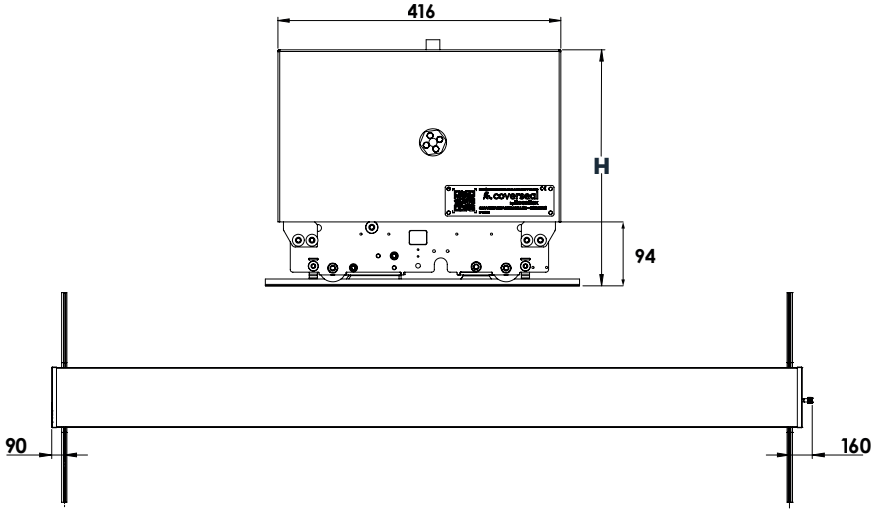
RAL 7037	K7 Classic[1]
Dust grey	

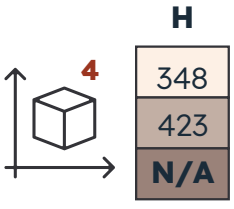
[1]Except fluorescent and metallic

Available options

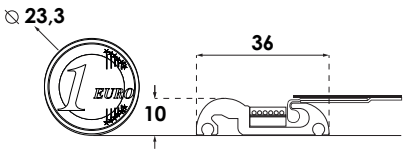
- All-terrain rail (RTT) 72,0 mm x 10,6 mm (unregular surface or low density)
- Mechanical closing sensor
- “Champagne color rail” (Only standard rail)

Measures (in mm)





[4] **Please refer to chapter 3 C**



1. Technical Data Sheet (V7) Semi-Automatic model

Specifications

4-season safety cover that complies with the **AFNOR regulation NF P 90-308 December 2013**

- **Manipulation:** · Portable control box equipped with 2 batteries 12V 5,5 Ah
  · Ratchet spanner only in case of an electrical failure
- **Power supply:** Independent charger to plug into a 220V socket

- **Membrane:** PVC pre-stressed membrane 670 g/m²
- **Belt:** Polyurethane with stainless steel cables
- **Mechanical:** All the metallic parts involved in the security are in anodized aluminium and 316 stainless steel
- **Rails:** Anodised aluminium
- **Casing:** Polyester powder-coated aluminium, matt finished of RAL colour 7037 (standard)

- **Length:** min 2 meters -> max 24 meters
- **Width:** min 2 meters -> max 8,5 meters (depending on the length of the cover)[1]

- **Speed:** Closing/opening time : 60 seconds for a length of 13 meters

Available membrane colours

RAL 7037	RAL 7035	RAL 1015	RAL 1019	RAL 5015	RAL 5002	RAL 6021	RAL 6026	RAL 9005
Dust grey	Light grey	Light ivory	Taupe	Sky blue	Cobalt blue	Provence green	Opale green	Pure black

Available casing colours

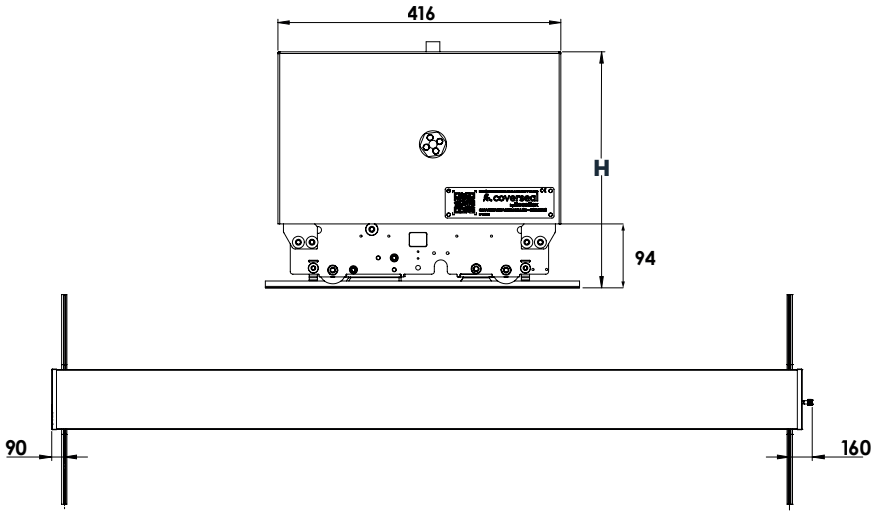
RAL 7037	K7 Classic[1]
Dust grey	

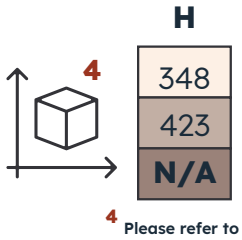
[1]Except fluorescent and metallic

Available options

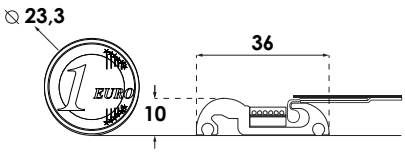
- All-terrain rail (RTT) 72,0 mm x 10,6 mm (unregular surface or low density)
- Mechanical closing sensor
- “Champagne color rail” (Only standard rail)

Measures (in mm)





4 Please refer to chapter 3 C



1. Technical Data Sheet (V7) Automatic model

Specifications

4-season safety cover that complies with the **AFNOR regulation NF P 90-308 December 2013**

- **Manipulation:** · Wireless control with maintained contact
  · Wired control with 3 buttons
  (Ratchet spanner only in case of an electrical failure)
- **Power supply:** Rechargeable by 2 solar panels 12v/ 12W/ 0.78Ah of 2 batteries 12V - 5,5 Ah
  (except indoor pool = on power supply)

- **Membrane:** PVC pre-stressed membrane 670 g/m²
- **Belt:** Polyurethane with stainless steel cables
- **Mechanical:** All the metallic parts involved in the security are in anodized aluminium and 316 stainless steel
- **Rails:** Anodised aluminium
- **Casing:** Polyester powder-coated aluminium, matt finished of RAL colour 7037 (standard)

- **Length:** min 2 meters -> max 28 meters
- **Width:** min 2 meters -> max 12 meters (depending on the length of the cover)[1]
- **Speed:** Closing/opening time : 60 seconds for a length of 13 meters

Available membrane colours

RAL 7037	RAL 7035	RAL 1015	RAL 1019	RAL 5015	RAL 5002	RAL 6021	RAL 6026	RAL 9005
Dust grey	Light grey	Light ivory	Taupe	Sky blue	Cobalt blue	Provence green	Opale green	Pure black

Available casing colours

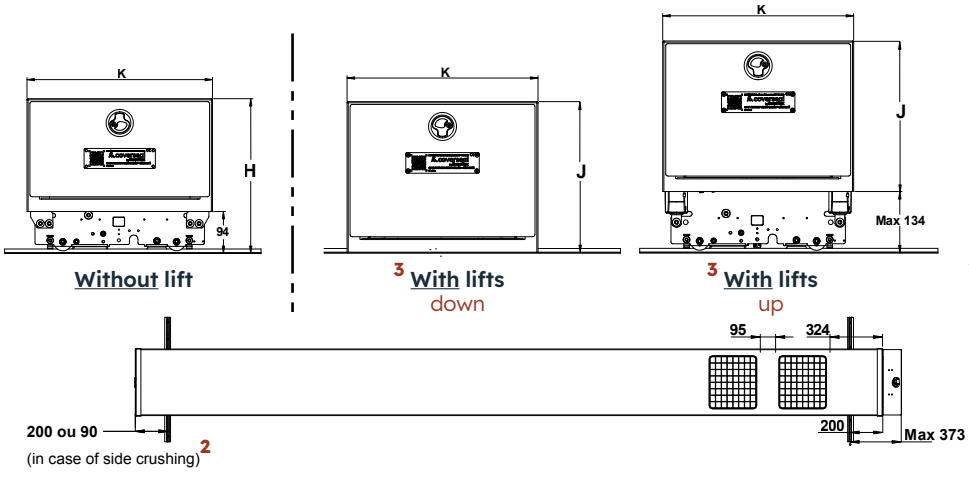
RAL 7037	K7 Classic	Mirror Effect*	Bronze Metallic Effect*	Grey Metallic Effect*
Dust grey				

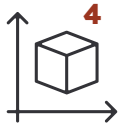
*Only with lifts
[1]Except fluorescent and metallic

Available options

- All-terrain rail (RTT) 72,0 mm x 10,6 mm (unregular surface or low density)
- 2 solar panels additional
- Mechanical closing sensor
- Charging station for indoor pool
- Side Crushing[2]
- Lifts[3] in case of obstacle and low clearance
- "Champagne color rail" (Only standard rail)
- 3 button secondary remote control

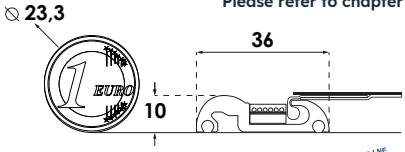
Measures (in mm)





H	J	K
348	333	416
423	418	416
508	483	471

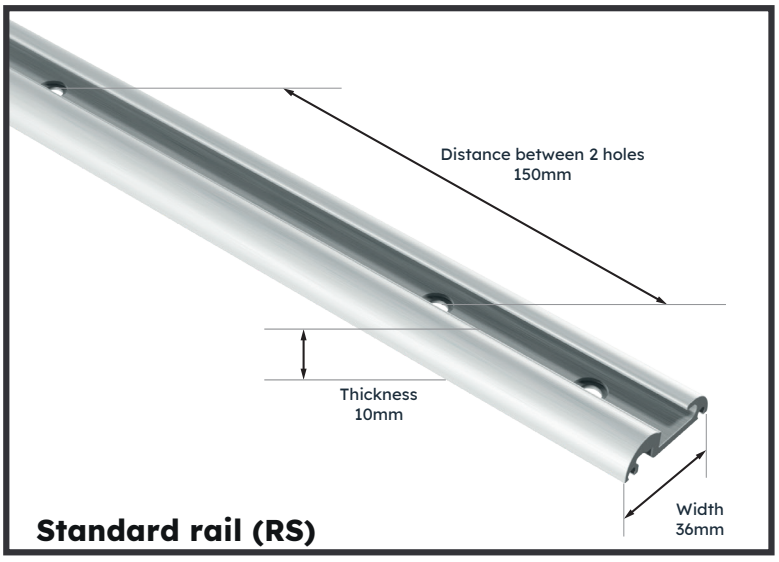
4 Please refer to chapter 3 C



afnor NF

A. Authorised surfaces

1. Dense and regular surfaces



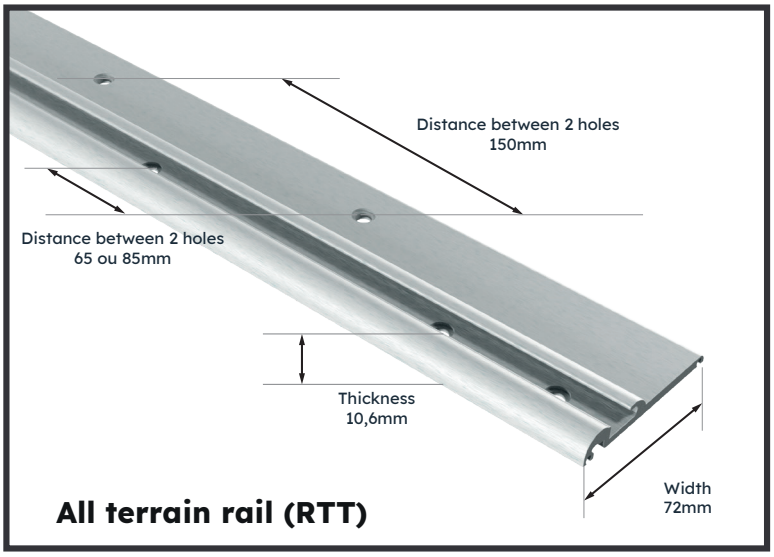

Smooth natural stone


Ceramic


Dense wood
(ρ > 650kg/m³)

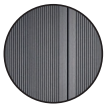

Smooth concrete slab

2. Low density and/or irregular surfaces




Paving stones


Softwood
(ρ < 650kg/m³)


Solid composite


Brick on edge


Klinkers

B. Forbidden surfaces


Hollow composite


Rubber/Stone mat

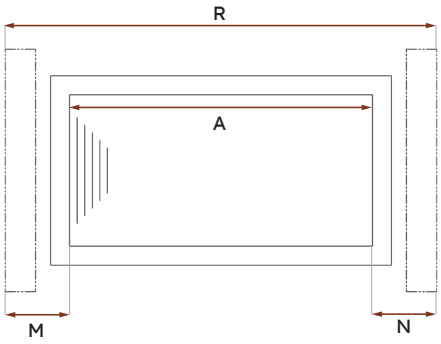

Support with slope toward pool


Support with slope > 4% or 2,3°


Others

A. Opening/closing overlap (R= M+A+N)

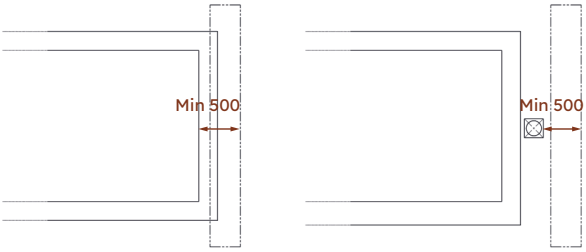
To calculate the minimum total length of the cover(R), take the inside length between coping stones (A) to which must be added the overlap in opening and closing (M+N).



To calculate “M/N”

1. In opening (accessible pool)

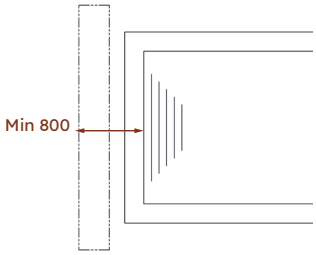
To the length of the pool, must be added a minimum distance of 500mm from the end of the stone or behind a trap that must remain accessible
(example: skimmer).
If it’s impossible to free access to this trap, it’s possible to do a “skimmer cut” in the membrane (maximum Ø 400mm)



2. In closing (inaccessible pool)

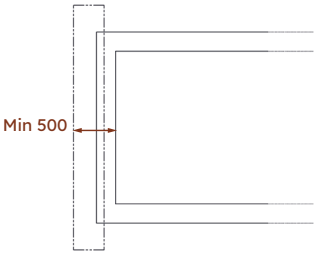
• Manual, Semi-Automatic, Automatic **without lift**

To the length of the pool, must be added **a minimum distance of 800mm** from the end of the stone to provide an optimal sealing.



• Automatic **with lift***

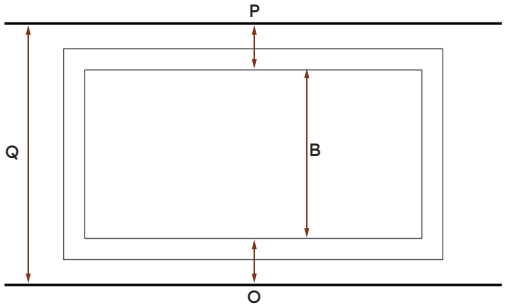
To the length of the pool, must be added a **minimum distance of 500mm** from the end of the stone to provide an optimal sealing.



*The surface must be perfectly flat in the open and closed position to allow the the covering
to rest on the floor.

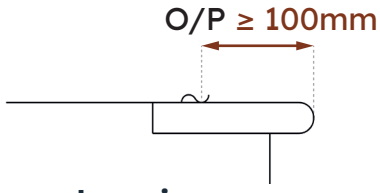
B. Rail spacing (Q= O+B+P)

To calculate the minimum total width of the cover, take the inside width between coping stones (B) to which must be added the necessary distance on each side (O+P) for a good anchoring respecting the following cases.

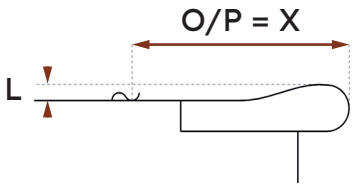


To calculate “O/P”

1. Flat coping / No coping



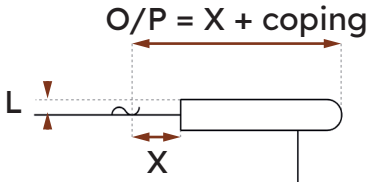
2. Curved coping



Minimum distance “X” mm depending on the height of the obstacle (see formula or table below)

Example: If the width between coping stones (B) is 4000mm and if “L” is 40mm THEN “X” minimum = 40mm (4x60mm)
(Q) = 4000mm (B) + 240mm (O) + 240mm (P) = 4480mm

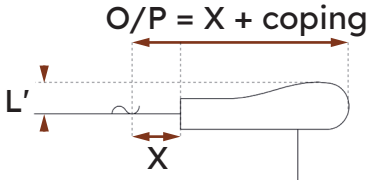
3. Raised flat coping



Minimum distance “X” mm depending on the height (see formula or table below) to which the width of the coping must be added

Example: If the width between copings (B) is 5000mm, if “L” is 20mm and the width of the coping is 300mm THEN “X” minimum = 120mm (2x60mm) and O/P= (120+300)
(Q) = 5000mm (B) + 420mm (O) + 420mm (P) = 5840mm

4. Raised curved coping



Minimum distance “X” mm depending on the total height “L’” (see formula or table below) to which the width of the coping must be added.
Example: if the width between the copings (B) is 4000 mm, if “L’” is 50 mm and if the width of the copings is 250 mm THEN
“X” minimum = 300 mm (5x60 mm) and O/P = (300+250)
(Q)= 4000 mm (B) + 550 mm (O)+ 550 mm (P) = 5100 mm

Formula :

Distance minimum “X” = 60mm par 10mm (curve/heightening
Exatmple: If curve/heightening = 30mm alors “X” minimum = 180mm (3x60mm)

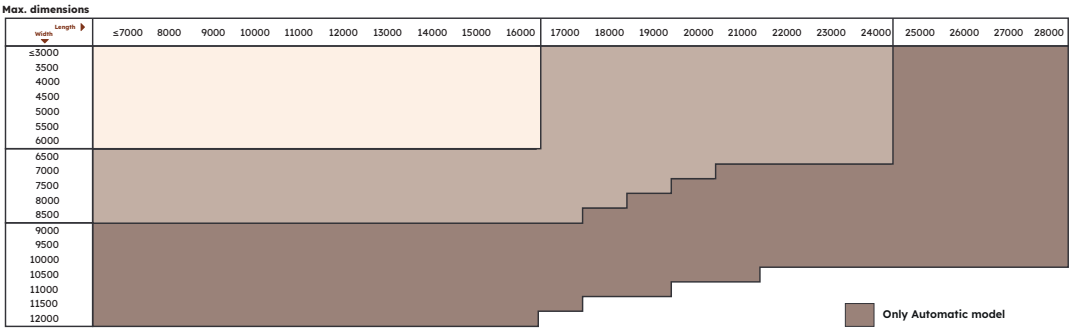
Table :

Minimal distance “X” in mm		Height curve/obstacle “L of L’”						
		50	60	70	80	90	100	110
Inside width of the pool between copings in mm (B)	2 000	430	940	N/A	N/A	N/A	N/A	N/A
	3 000	See Formula	450	630	850	1110	1390	N/A
	4 000			480	640	830	1050	1290
	5 000				520	670	840	1030
	6 000					560	700	860
	7 000							740

* N/A = Not admitted

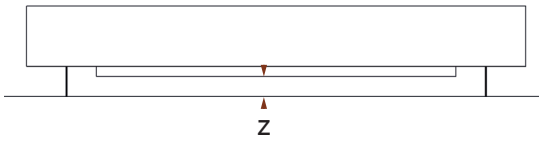
3. Cover Dimensions

C. Maximal dimensions



4. Authorised obstacle(s)

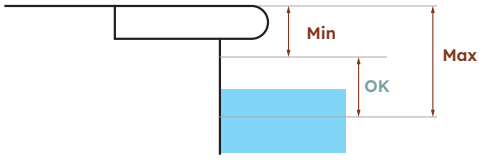
It is imperative to respect the table below to allow the mechanism to pass.



Max height of obstacle "Z" (in mm)		Models					
		Semi-Automatic, Automatic without lift			Automatic with lifts		
Coverseal length (mm)	2 000 to 6000	85	85	85	110	110	110
	7 000	85	85	85	105	110	110
	8 000	85	85	85	100	110	110
	9 000	85	85	85	95	110	110
	10 000	80	85	85	90	110	110
	11 000	80	85	85	85	110	110
	12 000	75	85	85	80	110	110
	13 000	70	85	85	75	110	110
	14 000	70	85	85	70	110	110
	15 000	65	85	85	65	105	110
	16 000	60	85	85	60	100	110
	17 000		85	85		100	110
	18 000		85	85		95	110
	19 000		85	85		95	105
	20 000		85	85		90	105
	21 000		85	85		90	100
	22 000		85	85		85	95
	23 000		80	85		80	90
	24 000		75	85		75	85
	25 000			80			80
	26 000			75			75
	27 000			70			70
	28 000			65			65

5. Required water level

The distance between the top of the coping and the pool water level must always be within the following ranges.



width of the pool	< 4m	4 to 5m	5 to 6m	6 to 7m	7 to 8m	8 to 9m	9 to 10m	10 to 11m	11 to 12m
Minimum distance (Min) "Z"									
Flat curbs (up to 20 mm obstacles) **and dense surfaces**	4cm	5cm	6cm	7cm	8cm	10cm	12cm	14cm	16cm
Other case	8cm	10cm	12cm	14cm	16cm	18cm	20cm	22cm	24cm
Maximum distance (Max) "Z"									
For every case	15cm	17cm	19cm	21cm	23cm	25cm	27cm	29cm	31cm

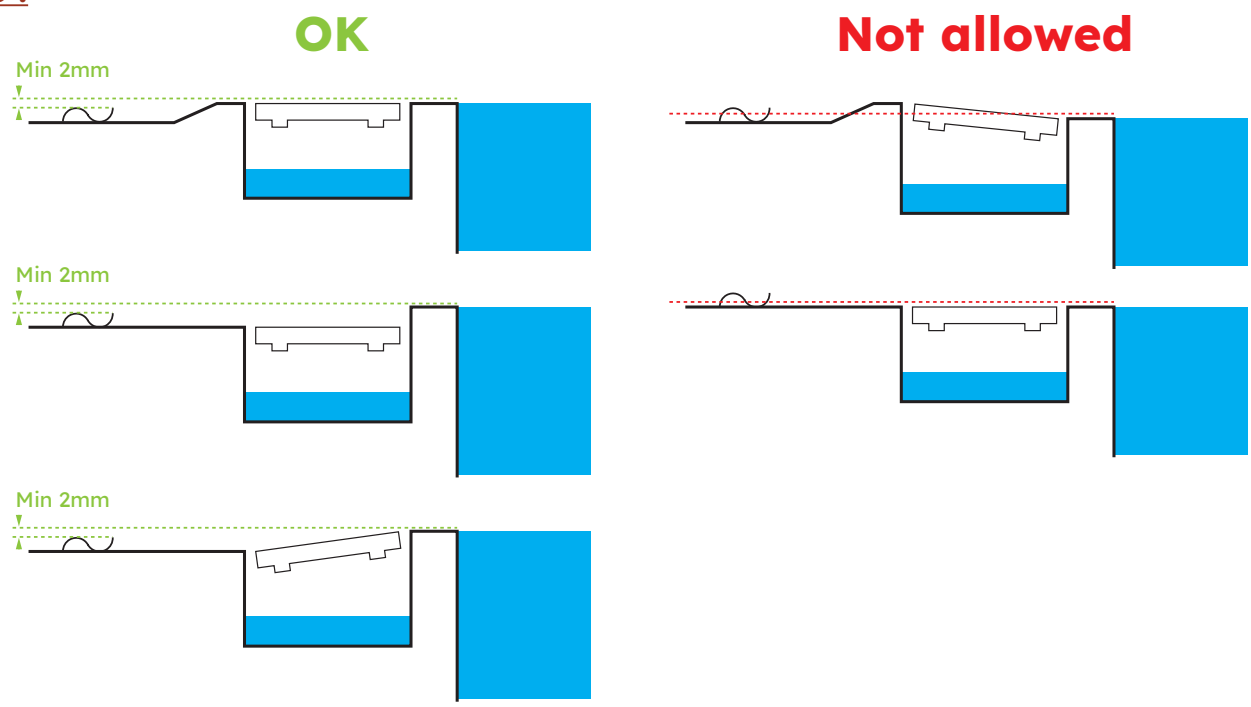
Unlike a traditional pool, the water in a mirror pool does not follow a simple circuit: skimmers -> pump -> filter -> pumps.
Instead it follows: overflow, trough -> buffer tank -> pump -> filter -> discharge
Hence the water line and the deck sections are at the same level.

Storm water release:

• The highest lip of the Coverseal rail should be at least 2mm lower than the pool water level once the pump is in operation.
• In the event of rain, it is essential to run the filtration system (pump) continuously to prevent water accumulating on the membrane and to allow it to escape, thereby maintaining the coverage to the AFNOR standard.

However, if the filtration has to be stopped and a quantity of rainwater has collected on the cover, the pump must be put back into operation to allow the water to be removed.

Cases :



Pre-sale inspection at the customer's premises:

- **The slope of the surround must always drain the water to the outside of the pool**
- **The water level must be higher than all the elements between it and the rails.**

In production :

In the case of a mirror pool, no drainage hole is made during the manufacture of the membrane.