SolidPool

The pool with peace of mind

Assembling instruction

IMPLANTATION

LOCATION :

A GOOD LOCATION IS VERY IMPORTANT, IT WILL ALLOW PLEASANT SWIMMING, REDUCED MAINTENANCE...

SUNSHINE is essential, preferably facing south, taking care that trees or buildings do not come not give shade when the sun moves from east to west.

The pool will be **SHELTERED FROM THE WIND,** for better bathing comfort and more temperature. We will monitor the **PROXIMITY** of neighbors' eyes and the vegetation whose abundant foliage will pollute the swimming pool by falling.

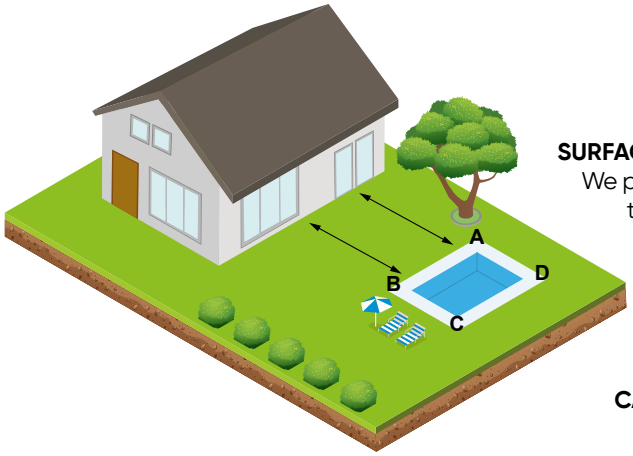
The **TECHNICAL ROOM** will be next to the swimming pool and preferably in charge (under the water level of the swimming pool).

TYPE OF SOIL :

The **FONDATIONS** of the swimming pool must not include recent fill : it takes between 5 and 10 years for the constituents of the fill to be well interwoven, the pool can then be built on it.

Grounds containing **CLAY AGGLOMERATED WITH PEBBLES AND GRAVEL** are perfectly suited to the foundations of the swimming pool.

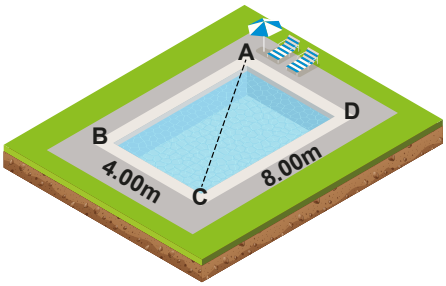
A land where clay predominates may require some precautions, in fact it will be useful to make a **DECOMPRESSION WELL** to prevent the clay by retaining water from forming a "second" pool around the pool.
In the event of a significant presence of water, it will be essential to create **PERIPHERAL DRAINAGE CONNECTED TO A DECOMPRESSION WELL.** It will sometimes also be necessary to provide drainage under the slab. **IN ANY CASE, TAKE ADVICE FROM YOUR NAVVY OR DO A FIELD STUDY.**

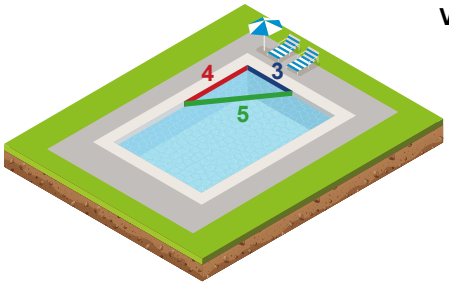


SURFACE POSITIONING

We proceed to the drawing of the pool with respect to to a line: side of the house, fence, etc...
We check that the diagonals **AC** and **BD** are identical as well as sides **AD** and **BC**.

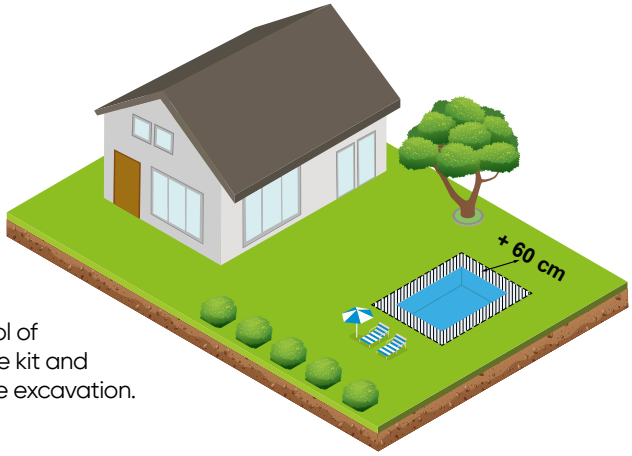
CALCULATE A DIAGONAL
PYTHAGORAS:
$AB^2 + BC^2 = AC^2$
8x8 +4x4 = 80
64 + 16 = 80
√80 = 8,944m = **AC**





VALIDATE A 90° ANGLE

'' 3, 4, 5 '' :
3 X ... 50 CM = **150 CM**
4 X ... 50 CM = **200 CM**
5 X ... 50 CM = **250 CM**

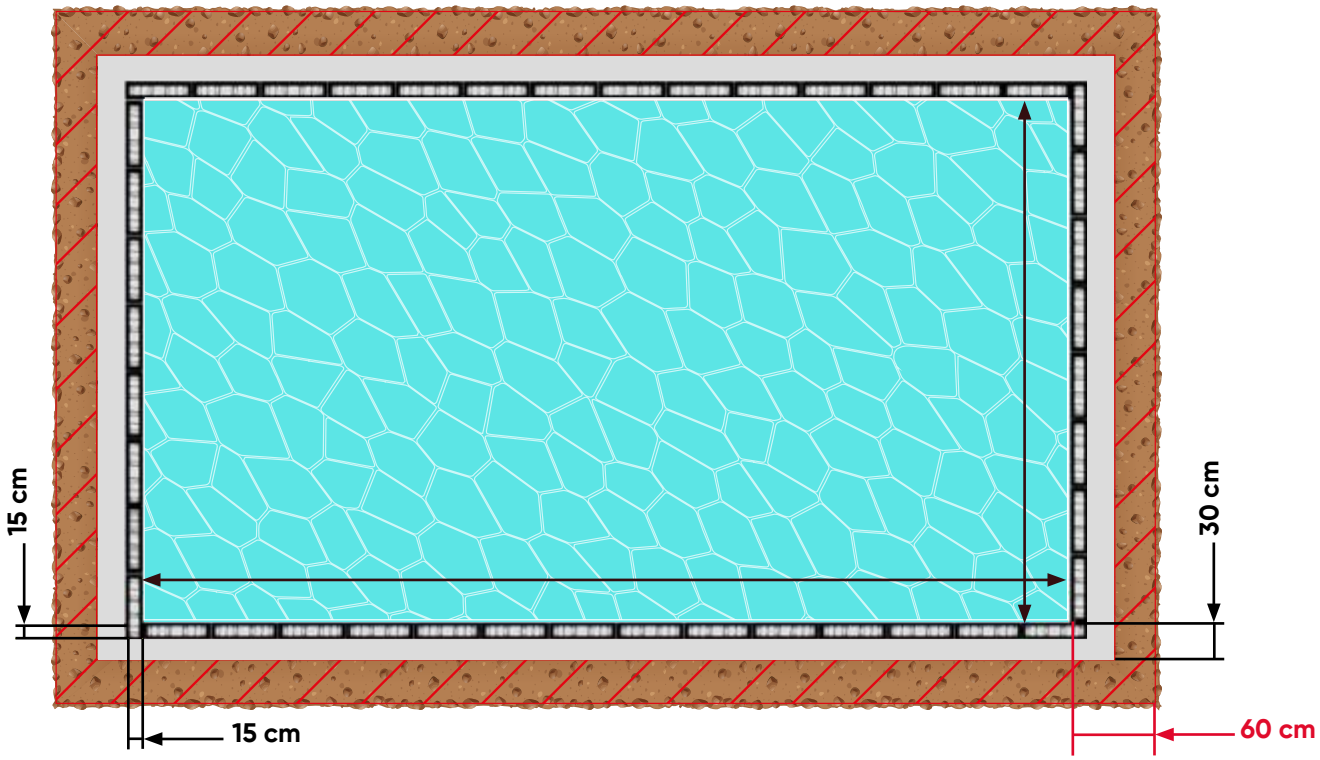


TRACING - EARTHWORK
We will add 60 cm all around the pool of
so that you can comfortably mount the kit and
to easily install the piping at the bottom of the excavation.

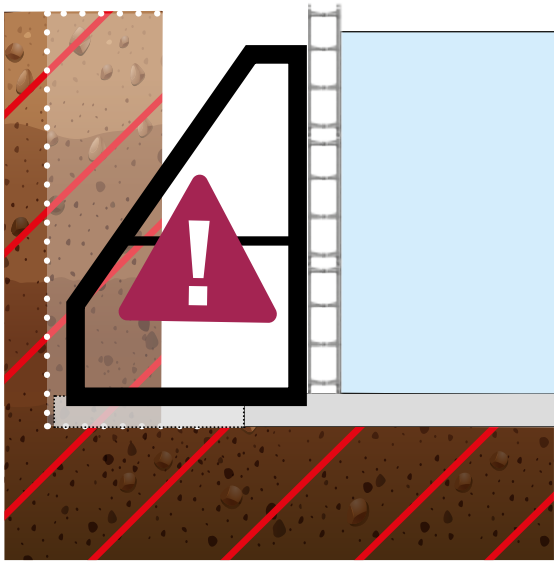
BEFORE STARTING WORK REFER TO PAGE 51 TO SEE THE RECOMMENDED MATERIAL

After the topsoil layer has been removed, the interior dimensions of the pool are marked on the ground

→ **ADDING 60 CM ALL THE WAY AROUND.**

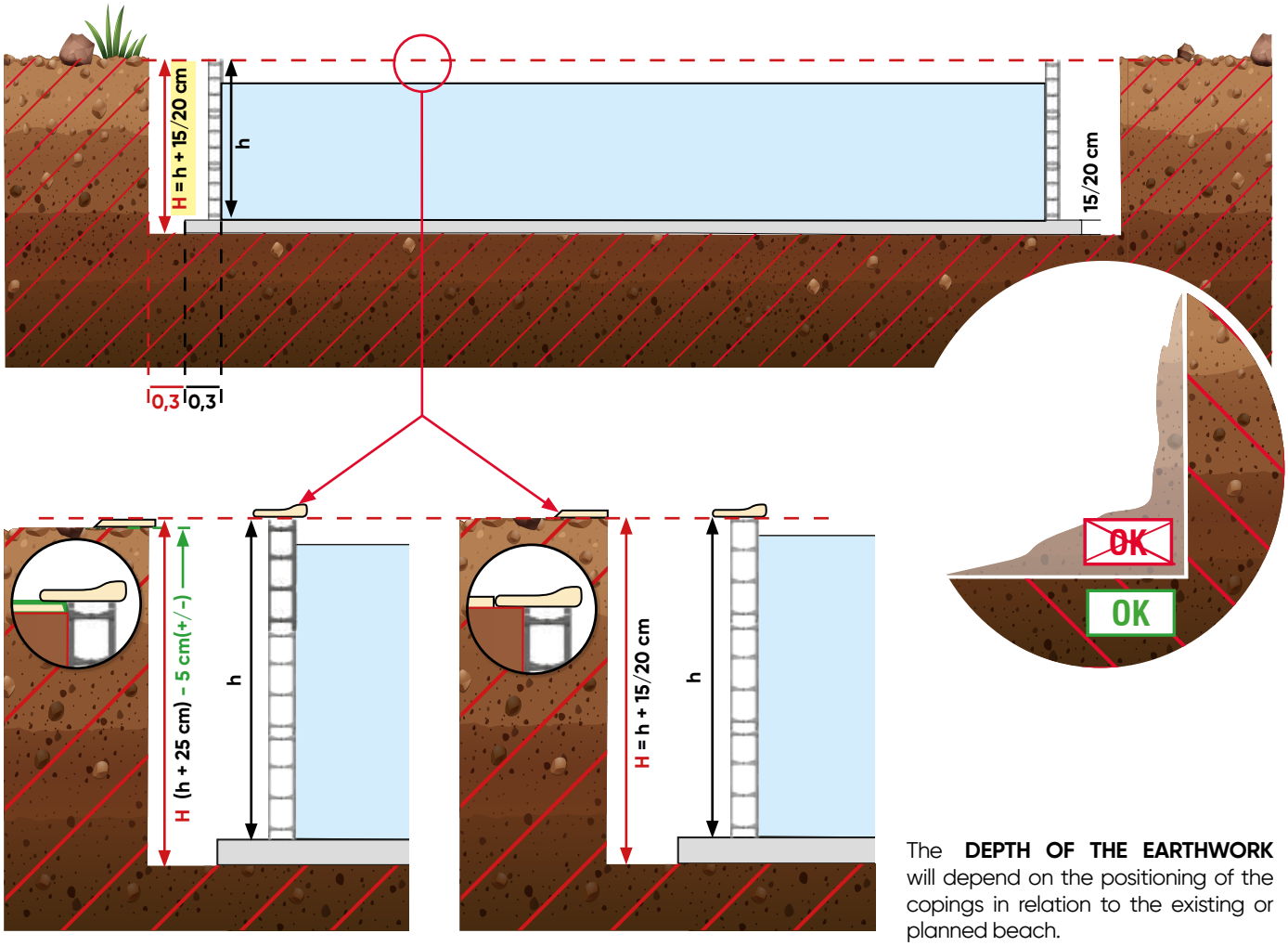


EARTHWORK



EARTHMOVING can be kept to a **MINIMUM** with this self-supporting structure, which does not require a strut. However, it is prudent to provide a space allowing the correct positioning of the pipes.

IMPLANTATION



The **DEPTH OF THE EARTHWORK** will depend on the positioning of the copings in relation to the existing or planned beach.

CONSTRUCTION SCHEDULE

STAGE 01
EARTHWORK

STAGE 02
CONCRETE SLAB

STAGE 03
CONSTRUCTION WITH SOLIDPOOL BLOCKS THEN CASTING

STAGE 04
END OF THE WORKS BIG WORK

SOLIDPOOL IS ALSO...

EASY ASSEMBLY WITHIN THE REACH OF ANY GOOD HANDYMAN, AND CHILD'S PLAY FOR PROFESSIONALS!

- Few tools, simple reinforcement and easy to install equipment.
- Easy pouring.
- A self-supporting structure: possibility of having an above-ground swimming pool or semi-buried
- An unbeatable value for money !
- Small team and unskilled labor.
- A flexible schedule (slab and walls can be poured together or separately) and for professionals, excellent synchronization site (assembly/casting/finishing).
- A fast, efficient and economical solution.

SWIMMING POOLS & BASINS:

- Buried or completely or partially above ground (roof, sloping ground, etc.).
- Optimizing the buildable surface (self-supporting structure = no legs of force = minimum earthwork), ideal solution for small surfaces or indoor swimming pools,
- In inaccessible areas (light materials, easy storage).
- With any type of finish: Tile, Liner or reinforced PVC.
- An ecological structure in regenerated and regenerable polypropylene !

SOLIDPOOL® IT'S...

A REAL REINFORCED CONCRETE SWIMMING POOL
IN JUST 3 DAYS !

1. EXCAVATION ... 1 DAY
2. SLAB CASTING ... 1/2 DAY
3. ASSEMBLY OF THE STRUCTURE ... 1 DAY
4. CASTING OF THE STRUCTURE ... 1/2 DAY

Quick, easy and economical !
No need to be a
specialist !

1 | EXCAVATION ... 1 DAY

2 | SLAB CASTING ... 1/2 DAY

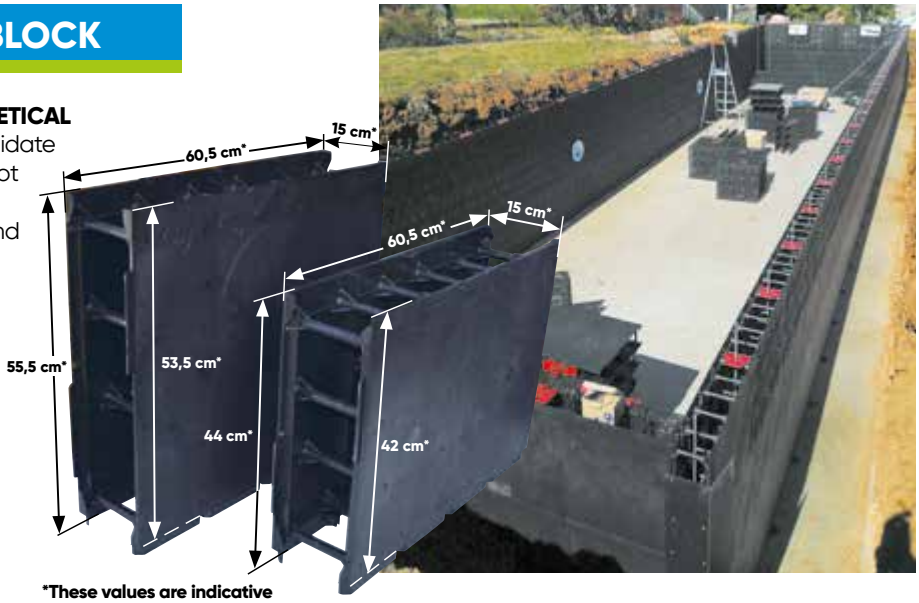
3 | ASSEMBLY OF THE STRUCTURE ... 1 DAY

4 | CASTING OF THE STRUCTURE ... 1/2 DAY

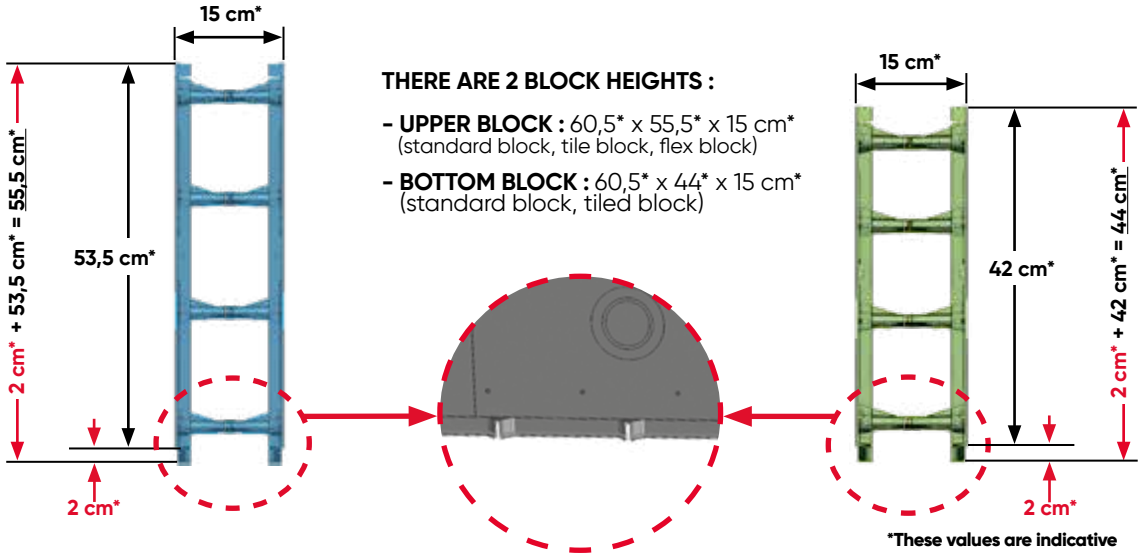
LINER / PVC FINISH BLOCK

This guide gives you **GENERAL AND THEORETICAL ADVICE** that should be adapted and to validate according to the nature of the project.Do not hesitate to contact us forany technical questions. In any case, comply local laws and standards.

Locking clips between two blocks



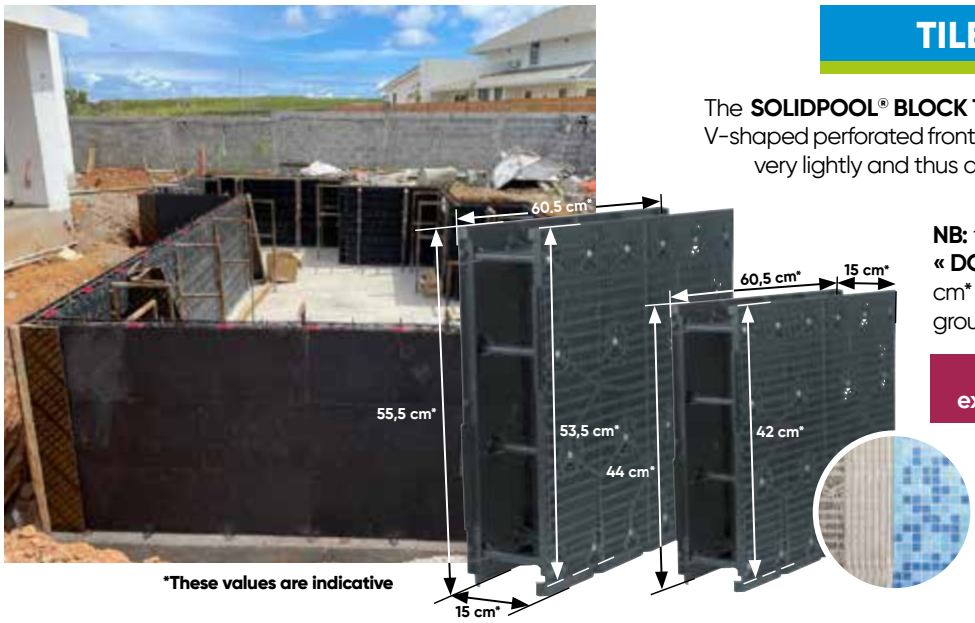
*These values are indicative



THERE ARE 2 BLOCK HEIGHTS :

- **UPPER BLOCK :** 60,5* x 55,5* x 15 cm* (standard block, tile block, flex block)
- **BOTTOM BLOCK :** 60,5* x 44* x 15 cm* (standard block, tiled block)

*These values are indicative



*These values are indicative

TILE FINISHING BLOCK

The **SOLIDPOOL® BLOCK TILE** 60.5 cm* x 55.5 cm* x 15 cm*, has a V-shaped perforated front face which allows the concrete to pass very lightly and thus allows exceptional adhesion of the tiles. it's enough sealant and tile!

NB: there is also a block **« DOUBLE-SIDED TILES »** of 60.5 cm*x 55.5 cm* x 15 cm*, for the construction of above-ground swimming pools, spas, hammams...

NEW :
exists in low block for the 2 versions

Locking clips between two blocks

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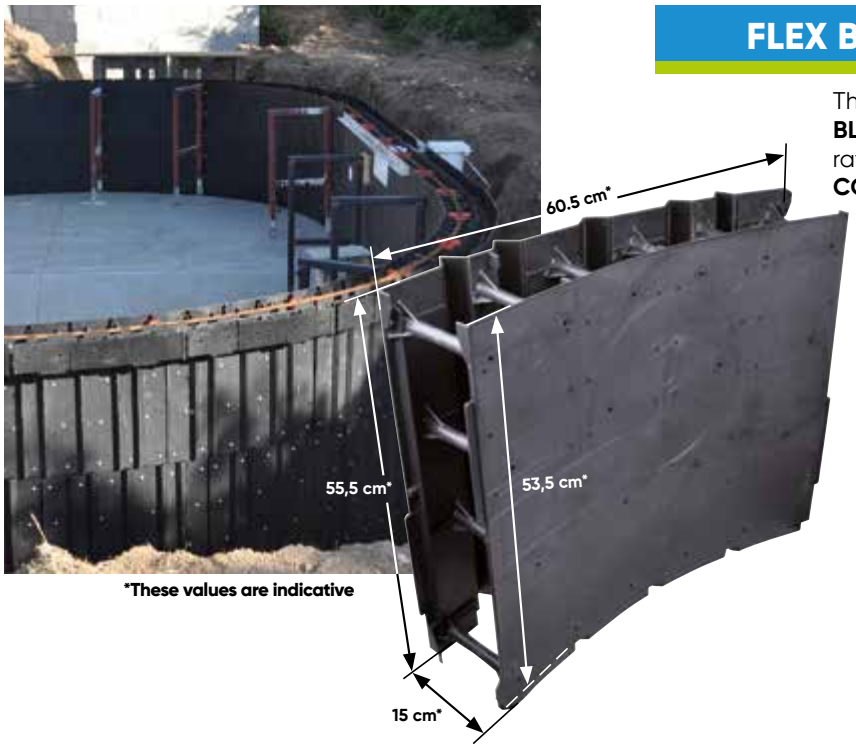
PRESENTATION



*These values are indicative

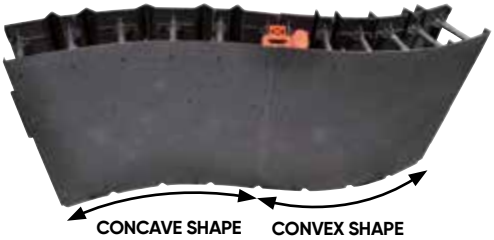
FLEX BLOCK LINER/PVC FINISH

The 60.5 cm* x 55.5 cm* x 15 cm* **FLEX BLOCKS** allow **ALL FREE SHAPES,** incoming rays (concave), outgoing rays (convex). **COMPATIBLE WITH STANDARD BLOCKS.**

EVERYTHING IS POSSIBLE !

ATTENTION :
These blocks are not available in low block

Locking clips between two blocks



TILE FINISH FLEX BLOCK

Identical to the **FLEX BLOCK** in the **TILED** version. **COMPATIBLE WITH STANDARD BLOCKS.**

ATTENTION :
These blocks are not available in low block

Locking clips between two blocks

*These values are indicative

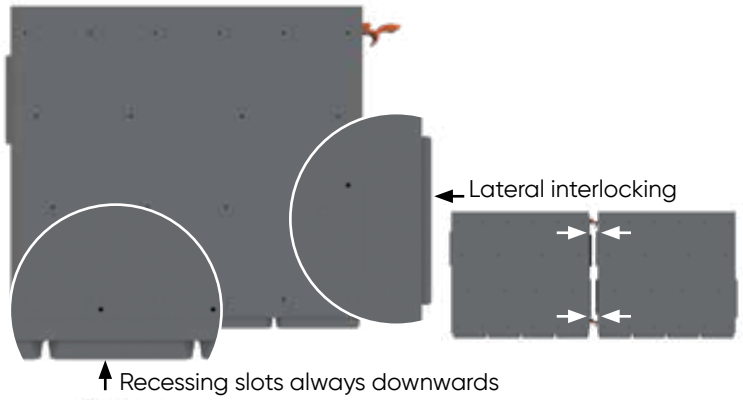
! | MINIMUM DIAMETER OF 2M

ONLY FOR COUNTRIES OUTSIDE EUROPE !

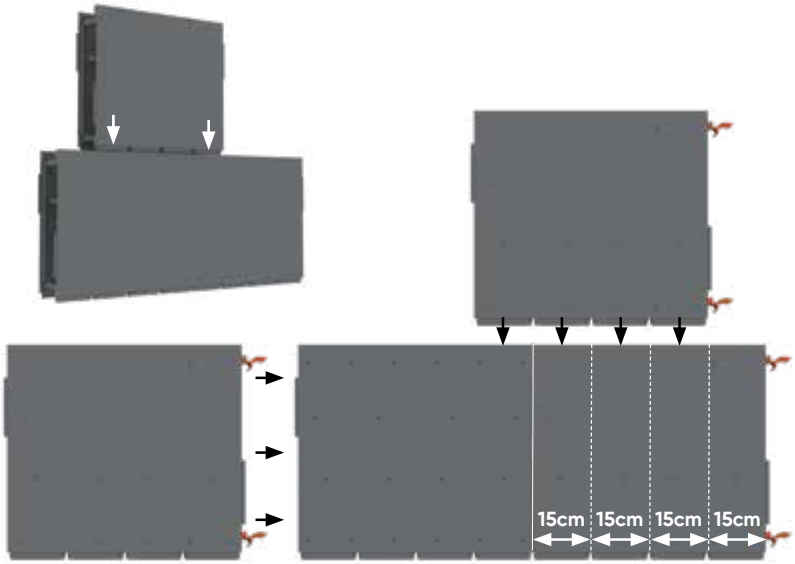
A **SolidPool**® formwork block consists of 2 polypropylene plates, 20 "insert" screws and 2 fixing clips (top and bottom): high quality materials for extraordinary reliability and durability, an assembly of one exceptional solidity for casting (concrete) without risk.

! | ALREADY SOLD IN EUROPE !

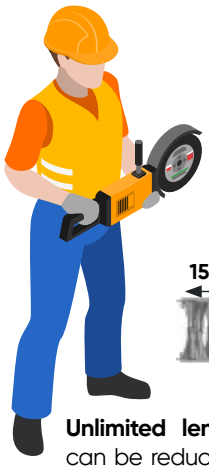
PRESENTATION

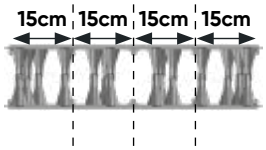


Clips align blocks and lock them to each other so to obtain a **one-piece structure.**



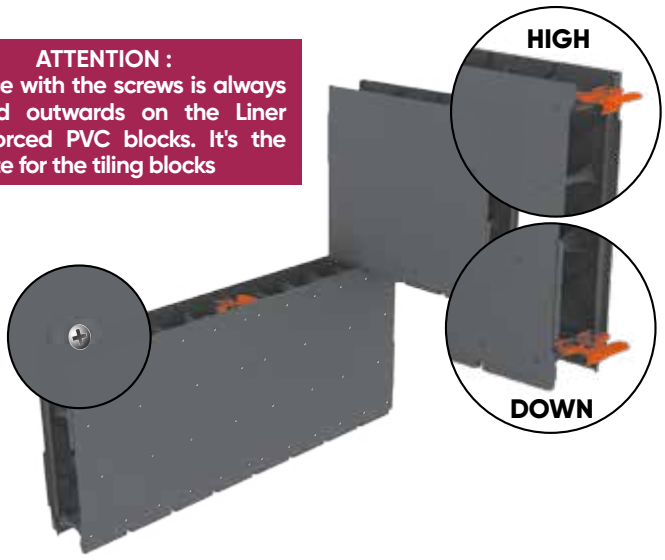
Be sure to assemble the blocks in the right direction: smooth (liner) or perforated (tile) side inside the pool, and the recessing "slots" down.

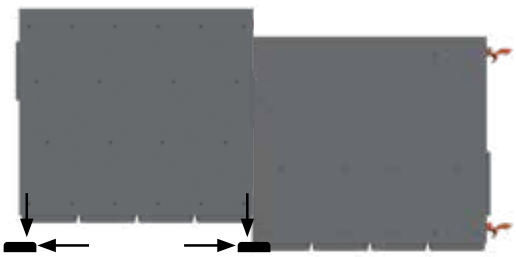




Unlimited length and width... One block can be reduced by quarter, the **dimensions** can be **personalized** as well.

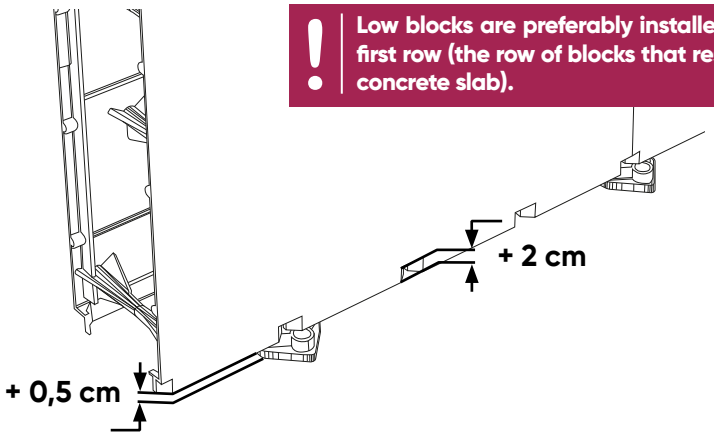
ATTENTION :
The face with the screws is always installed outwards on the Liner / reinforced PVC blocks. It's the opposite for the tiling blocks



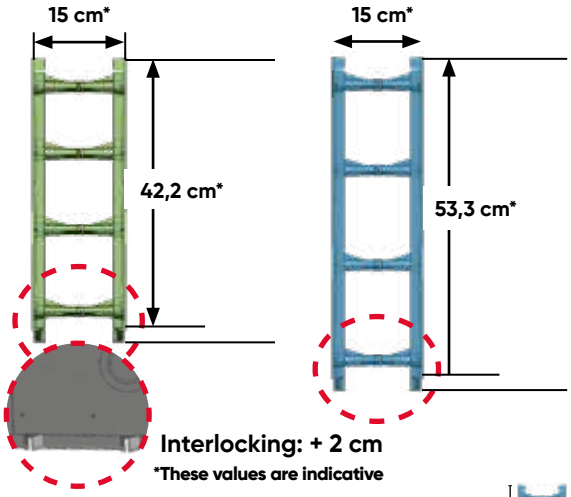


The **soles** make it easier to position the blocks and improve their stability. They are placed at the junction of 2 blocks. It is necessary to count one sole per block (first row on the ground only) plus one for each angle. They are fixed to the slab by the vertical tor iron. Footings are essential for free-form pool constructions with **SolidPool® blocks.**

THE INDISPENSABLE



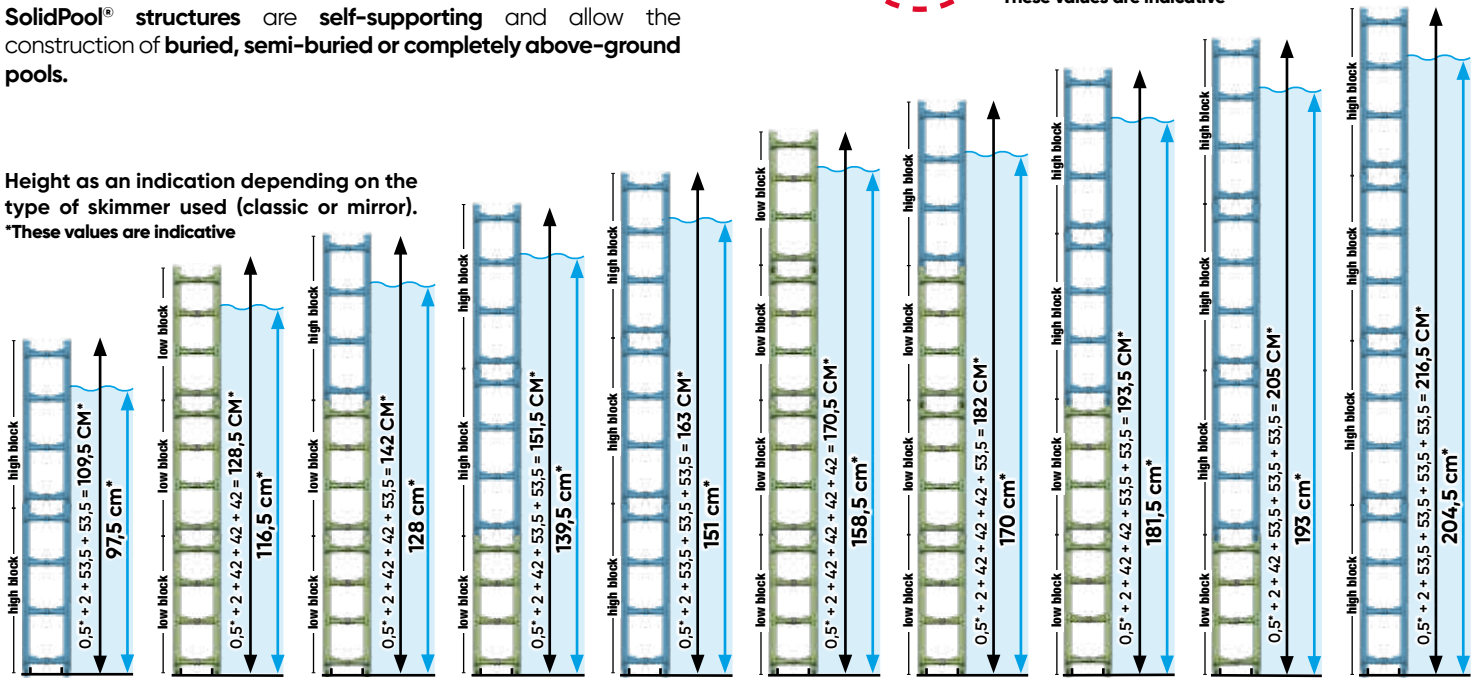
! **Low blocks are preferably installed on the first row (the row of blocks that rest on the concrete slab).**



*These values are indicative

SolidPool® structures are **self-supporting** and allow the construction of **buried, semi-buried or completely above-ground pools.**

Height as an indication depending on the type of skimmer used (classic or mirror).
*These values are indicative



	Dimensions interior (m)	Volume of water in m³		Qty blocks 1,50*/1,63	Qty soles	concrete wall volume (m³)		concrete slab volume (m³)	Irons Vert.	Irons Horiz.
		Comfort at h 1.50 m	Sports at h 1.63m			Comfort at h 1.50 m	Sports at h 1.63m	Thickness 0.15 Overhang 0.30	Ø 10 mm in meter	Ø 8 mm in meter
SQUARE DECOR	4,09 x 4,09	23,1	25,3	84	32	3,7	4,0	3,3	54	115
	5,30 x 5,30	38,8	42,4	108	40	4,8	5,2	5,2	68	148
	5,90 x 5,90	48,0	52,6	120	44	5,3	5,8	6,3	75	165
	6,50 x 6,50	58,3	63,8	132	48	5,9	6,4	7,6	82	182
	7,72 x 7,72	82,2	90,0	156	56	6,9	7,6	10,4	95	216
SWIMMING LANE	2,88 x 8,93	35,5	38,8	120	44	5,3	5,8	5,0	75	165
	2,88 x 11,35	45,1	49,4	144	52	6,4	7,0	6,2	88	199
	2,88 x 11,95	47,5	52,0	150	54	6,7	7,3	6,6	92	208
	3,48 x 11,35	54,5	59,6	150	54	6,7	7,3	7,3	92	208
	3,48 x 11,95	57,4	62,8	156	56	6,9	7,5	7,7	95	216
	4,09 x 11,95	67,4	73,8	162	58	7,2	7,8	8,8	99	225
CLASSIC	2,27 x 4,09	12,8	14,0	66	26	2,9	3,1	2,0	44	89
	2,88 x 5,90	23,4	25,7	90	34	4,0	4,3	3,4	58	123
	2,88 x 6,50	25,8	28,3	96	36	4,2	4,6	3,7	61	131
	2,88 x 7,11	28,3	30,9	102	38	4,5	4,9	4,0	65	140
	3,48 x 7,11	34,1	37,4	108	40	4,8	5,2	4,7	68	148
	3,48 x 7,72	37,1	40,6	114	42	5,0	5,5	5,1	71	157
	3,48 x 8,32	40,0	43,7	120	44	5,3	5,8	5,5	75	165
	4,09 x 8,32	47,0	51,4	126	46	5,6	6,1	6,3	78	174
	4,09 x 10,14	57,2	62,6	144	52	6,4	7,0	7,6	88	199
	4,69 x 9,53	61,7	67,5	138	50	6,4	7,0	8,0	85	199
	4,69 x 10,14	65,6	71,8	150	54	6,7	7,3	8,5	92	208
	5,30 x 10,14	74,2	81,2	156	56	6,9	7,6	9,5	95	216
	5,90 x 11,95	97,3	106,5	180	64	8,0	8,7	12,2	109	250

THE INDISPENSABLE

CALCULATE THE NUMBER OF BLOCKS

STRAIGHT WALLS (-15 cm included*)					
Length (m)	Qty Blocks	Length (m)	Qty Blocks	Length (m)	Qty Blocks
1,06	2	9,53	16	18,00	30
1,67	3	10,14	17	18,61	31
2,27	4	10,74	18	19,21	32
2,88	5	11,35	19	19,82	33
3,48	6	11,95	20	20,42	34
4,09	7	12,56	21	21,03	35
4,69	8	13,16	22	21,63	36
5,30	9	13,77	23	22,24	37
5,90	10	14,37	24	22,84	38
6,50	11	14,98	25	23,45	39
7,11	12	15,58	26	24,05	40
7,72	13	16,19	27	24,66	41
8,32	14	16,79	28	25,26	42
8,93	15	17,40	29	25,87	43

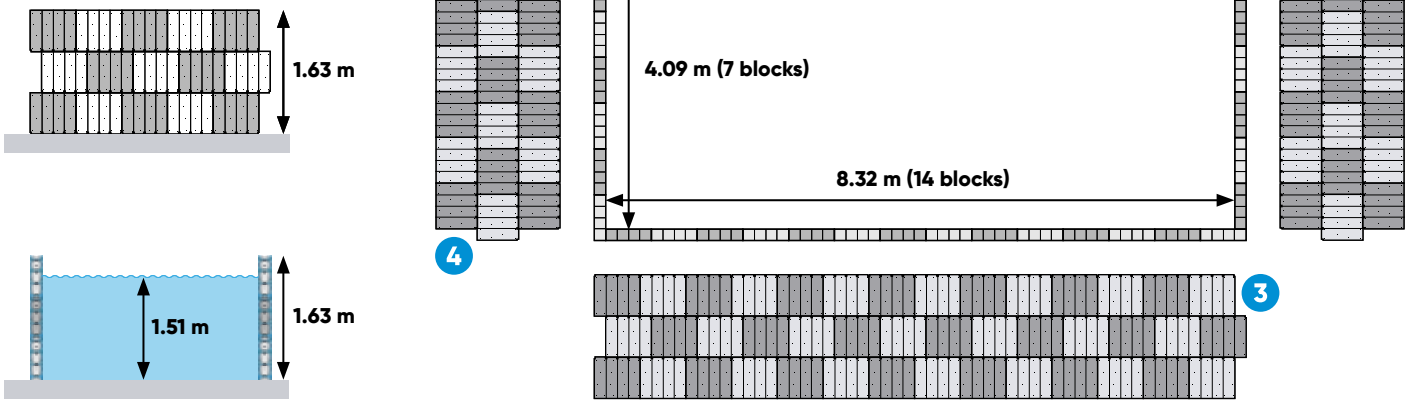
CIRCLE WALLS (flex blocks)					
Ø (m)	Qté Blocs	Ø (m)	Qté Blocs	Ø (m)	Qté Blocs
2,12	11	4,82	25	7,51	39
2,31	12	5,01	26	7,70	40
2,50	13	5,20	27	7,90	41
2,70	14	5,39	28	8,09	42
2,89	15	5,59	29	8,28	43
3,08	16	5,78	30	8,47	44
3,27	17	5,97	31	8,67	45
3,47	18	6,16	32	8,86	46
3,66	19	6,36	33	9,05	47
3,85	20	6,55	34	9,24	48
4,04	21	6,74	35	9,44	49
4,24	22	6,93	36	9,63	50
4,43	23	7,13	37	9,82	51
4,62	24	7,32	38	10,02	52

*** - 15 cm which corresponds to the return and the 15 cm thickness of the block.**

EXAMPLE WITH A POOL OF
4.09 M WIDE X 8.32 M LONG X 1.63 M HIGH (INSIDE DIMENSIONS) = 1.51 M WATER HEIGHT.

1. 14 x 3 = 42 standard blocks (+14 soles)
2. 7 x 3 = 21 standard blocks (+7 soles)
3. 14 x 3 = 42 standard blocks (+14 soles)
4. 7 x 3 = 21 standard blocks (+7 soles)

Total = 126 standard blocks + (42 + 4 soles)



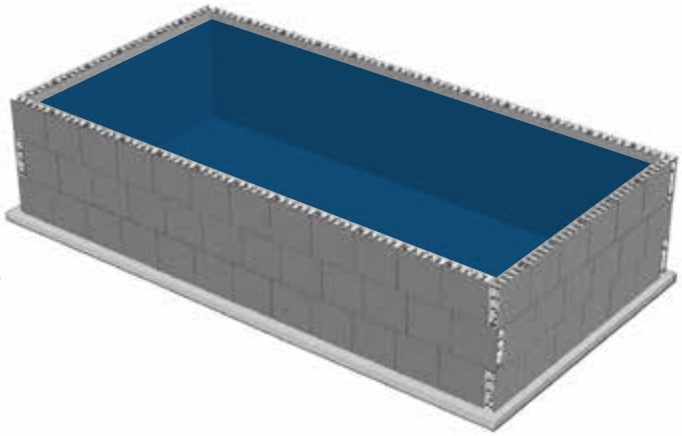
10 YEAR MANUFACTURER WARRANTY

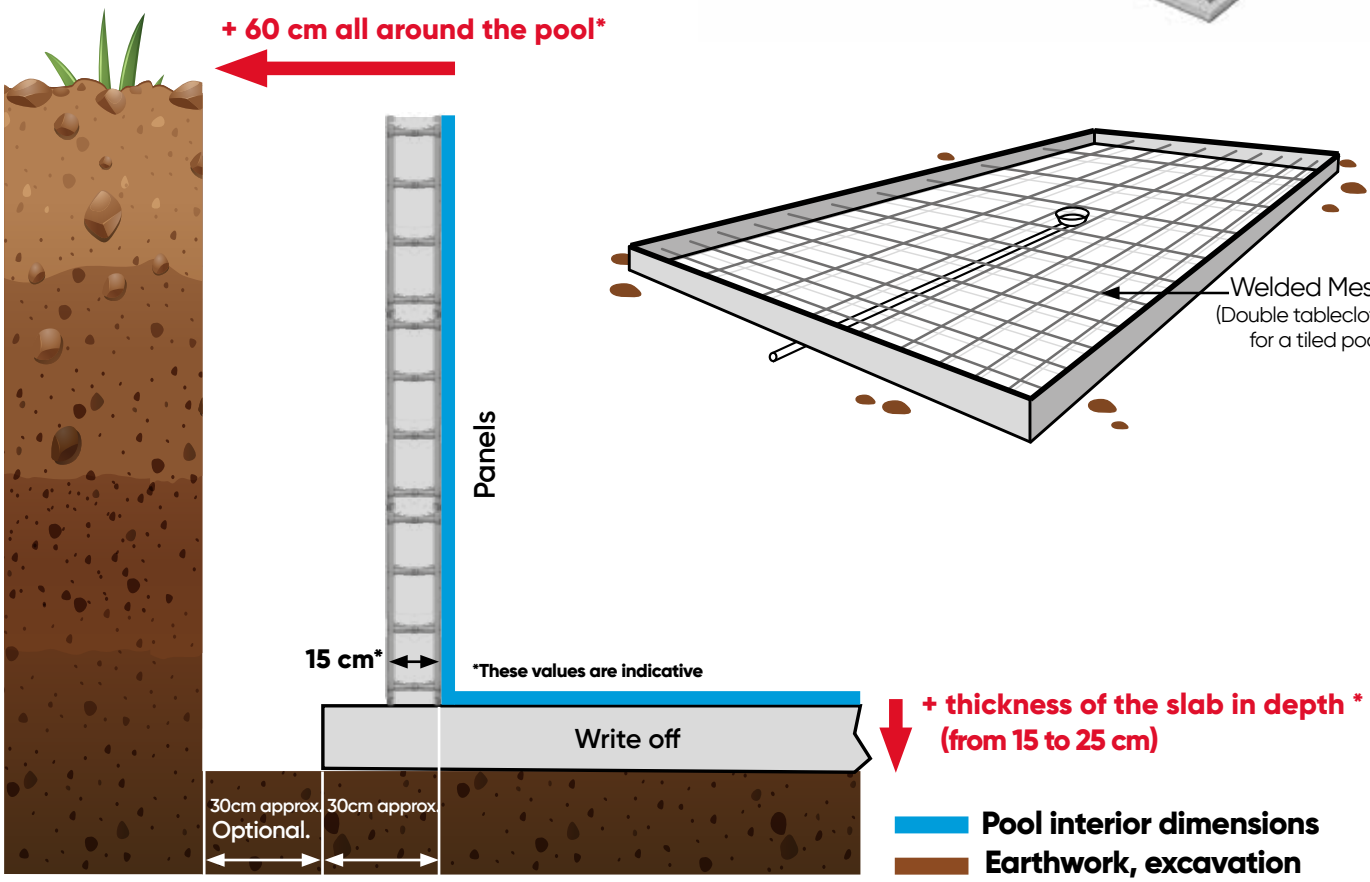
The company Tout Pour l'Eau®, manufacturer of the SolidPool®, holds a civil liability contract n°36978900059187 with the company AXA FRANCE IARD, guaranteeing the damage caused to THIRD PARTIES and in particular to its customers over the same period of 10 YEARS.
This contract includes a guarantee of "removal and removal" costs. Thus we offer for the SolidPool®, coverage of all risks that may arise from our fault.

FLAT BOTTOM EARTHWORK

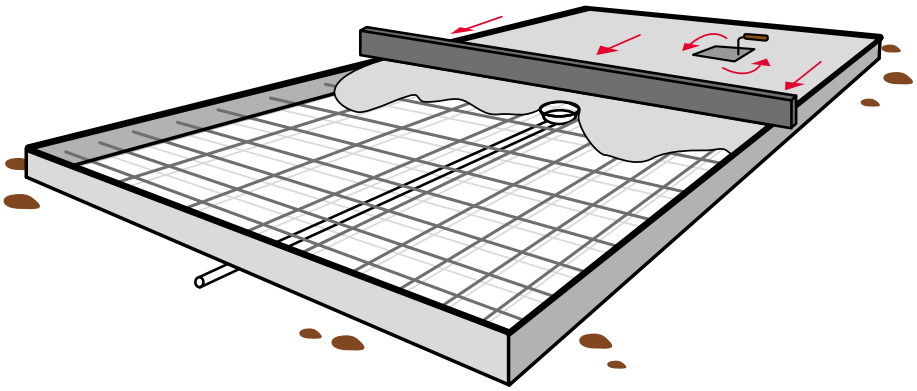
FLAT BOTTOM

Allows full length swimming, playing and diving. It is very safe and very comfortable to have your feet everywhere in a constant height of water. The realization of the bottom slab is very simple.





FLAT BOTTOM EARTHWORK



FLAT BOTTOM

WE POUR A FLAT BOTTOM SLAB

A **peripheral formwork** facilitates the precise adjustment of levels and saves concrete.

NB. For a flat bottom, self-compacting concrete flows and smoothes very easily.

REINFORCEMENT OF THE SLAB WITH TWIST IRONS

INSTALLATION OF THE BOTTOM DRAIN

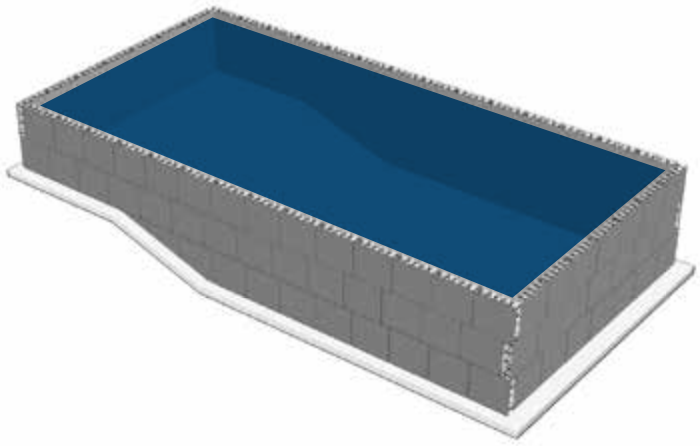
CASTING OF SELF-COMPACTING CONCRETE

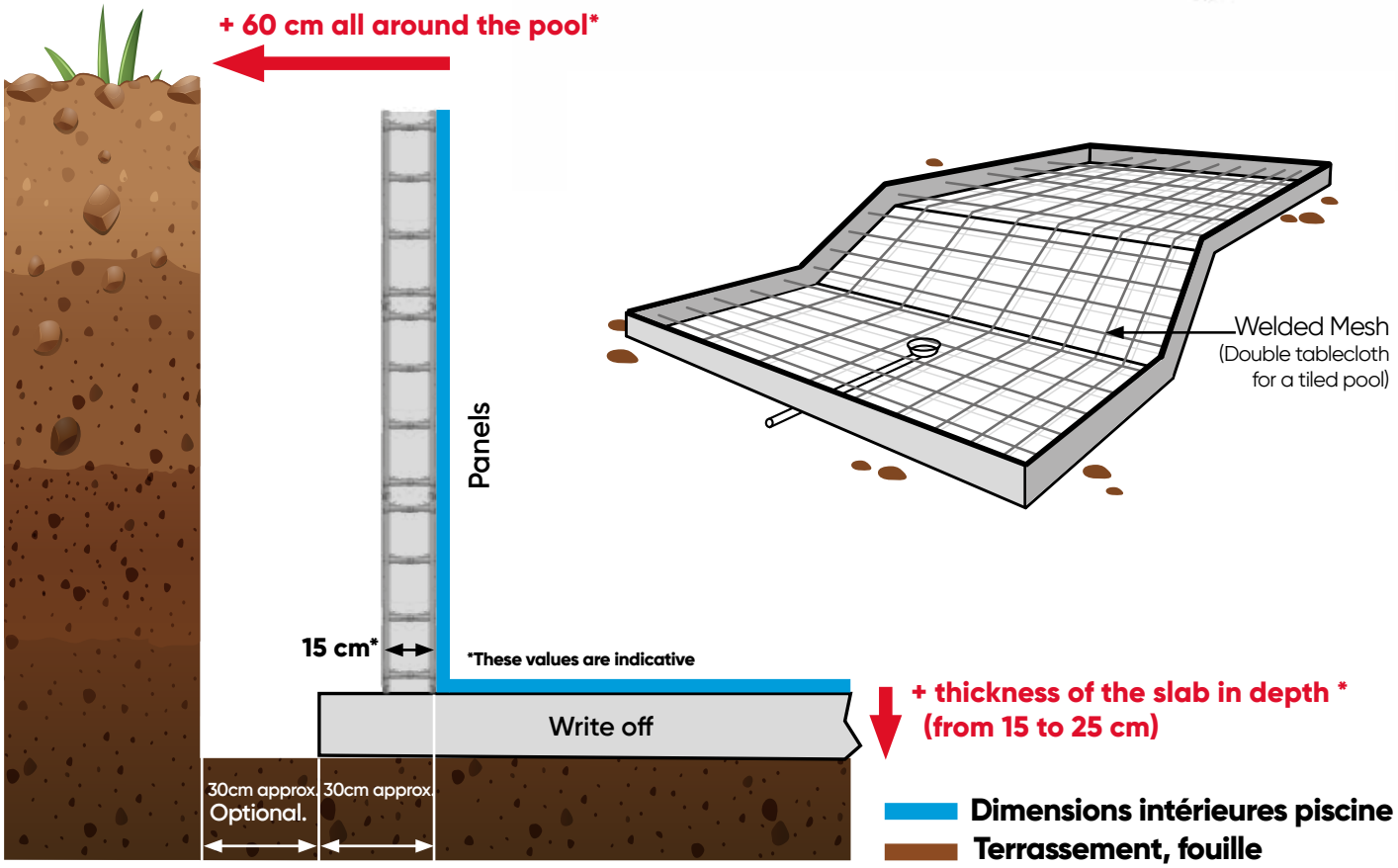
CONCRETE SLAB DRYING

COMPOUND SLOPE BOTTOM EARTHWORK

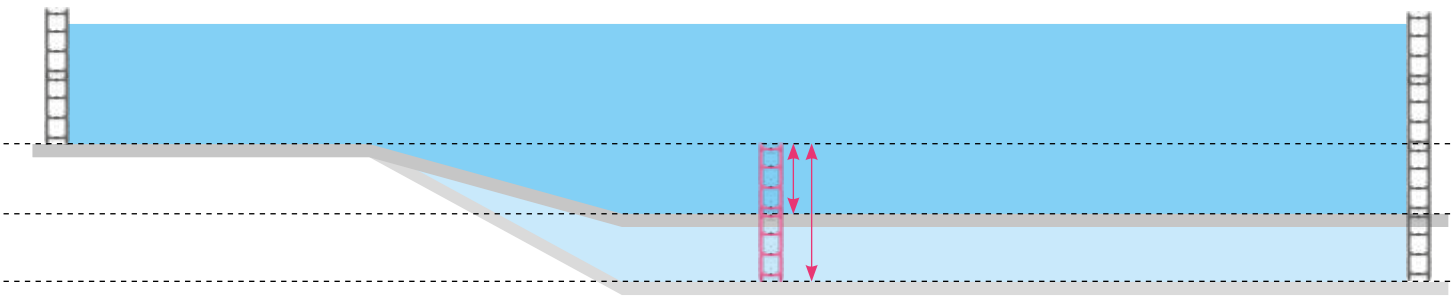
COMPOUND SLOPE

Allows a reduced volume of water. The shallow zone gives insurance to less good swimmers. The bottom slab is less easy to make.





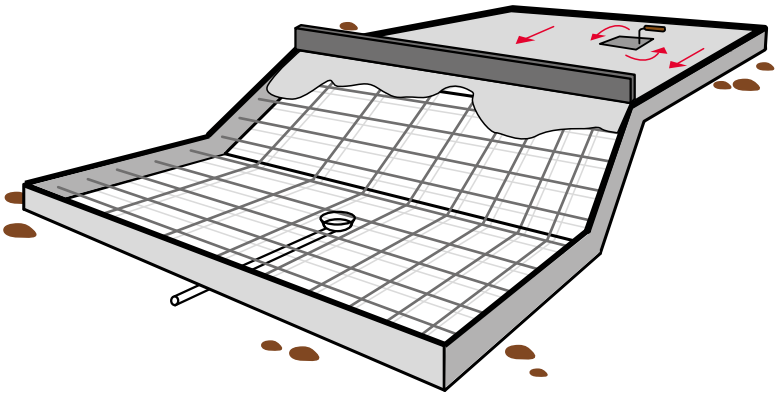
DIFFERENT LEVELS OF SLOPE



The **ifference in height of the slope** should ideally correspond to one or more heights of blocks. Otherwise, additional cutouts and/or precautions will be required. Do not hesitate to contact us.

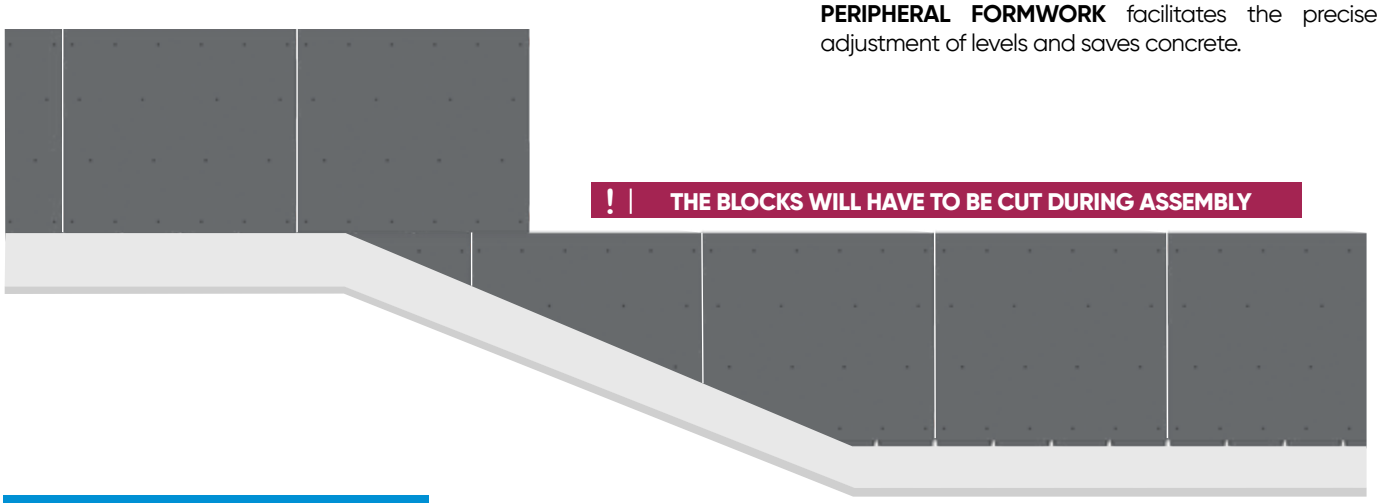
COMPOUND SLOPE BOTTOM EARTHWORK

COMPOUND SLOPE



A SLOPING BOTTOM SLAB COMPOSED OF

PERIPHERAL FORMWORK facilitates the precise adjustment of levels and saves concrete.



! | THE BLOCKS WILL HAVE TO BE CUT DURING ASSEMBLY

EXAMPLE OF COMPOUND SLOPE

POURING CONCRETE

CONCRETE SMOOTHING

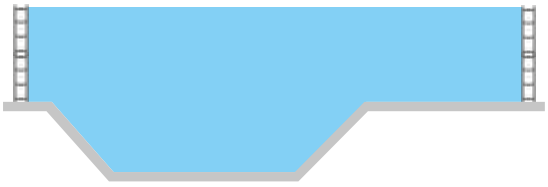
CUT BLOCKS

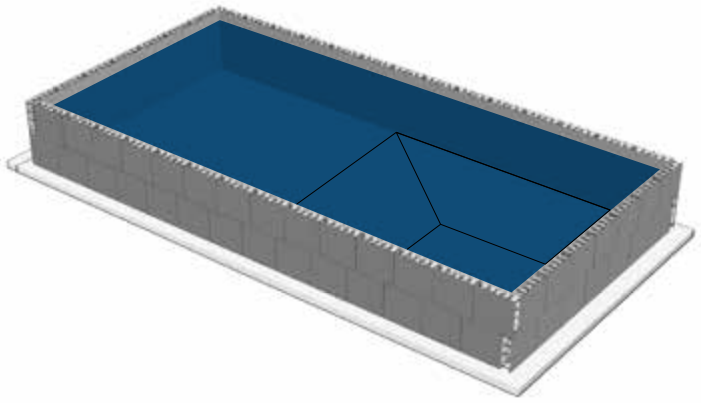
COMPOUND SLOPE STRUCTURE

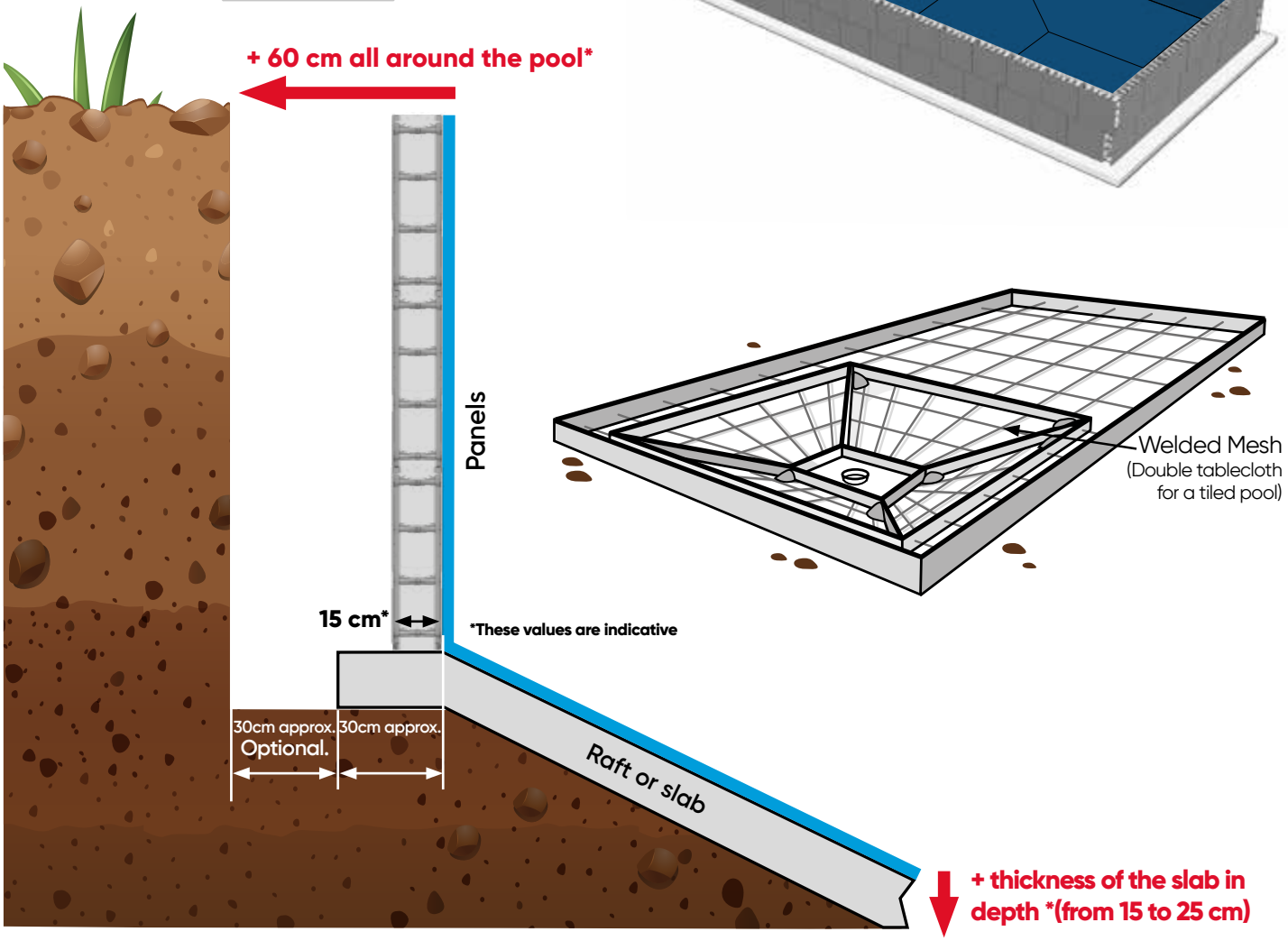
EARTHWORK BACKGROUND TRUNCATED PYRAMID

TRUNCATED PYRAMID

Sparse pool bottom, allows a low volume of water, while having a diving pit. **The shallow area gives insurance to less good swimmers. THE BOTTOM SLAB IS A LITTLE MORE COMPLEX TO MAKE.**





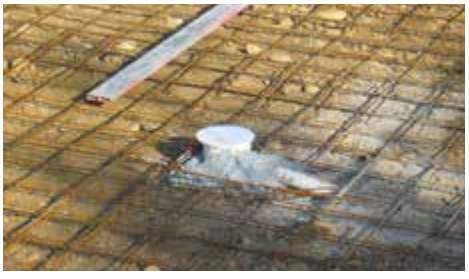


Pool interior dimensions
Earthwork, excavation

TRUNCATED PYRAMID EXAMPLE

EARTHWORK

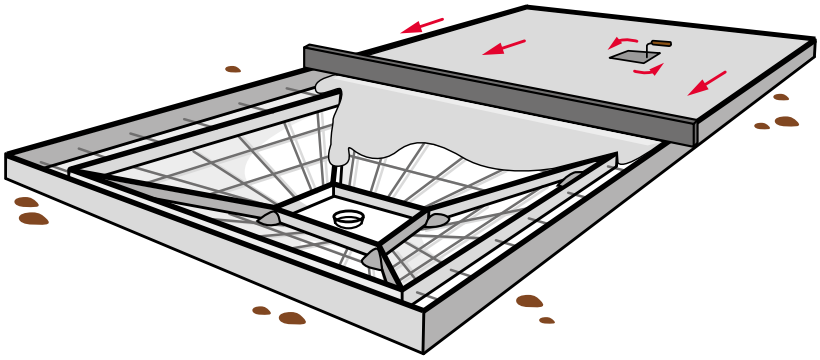
PYRAMID BACKGROUND

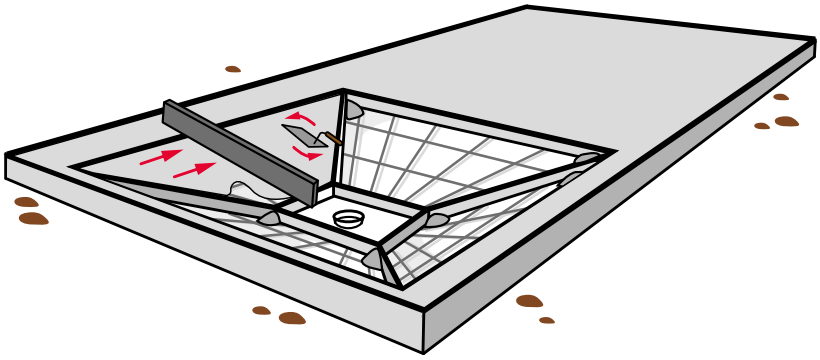


INSTALLATION OF THE MAIN DRAIN

EARTHWORK BACKGROUND TRUNCATED PYRAMID

TRUNCATED PYRAMID





PREPARATION OF THE BOTTOM

SLAB REINFORCEMENT

A BOTTOM SLAB IS CASTED (TRUNK OF PYRAMID).
PERIPHERAL FORMWORK facilitates the precise adjustment of levels and saves concrete.

TRUNCATED PYRAMID EXAMPLE

EARTHWORK

CONCRETE SMOOTHING

BOTTOM DRAIN IN THE SLAB

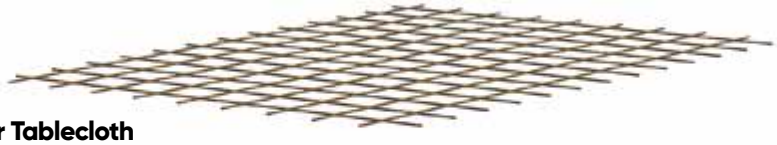
STRUCTURE FOR PYRAMID BACKGROUND

! | INFORMATION

It is possible to put the vertical irons after pouring the slab. It will suffice to drill the slab every 30 cm (without crossing it) then to put the twisted irons in place using a chemical seal. Seek advice from a professional for this solution.

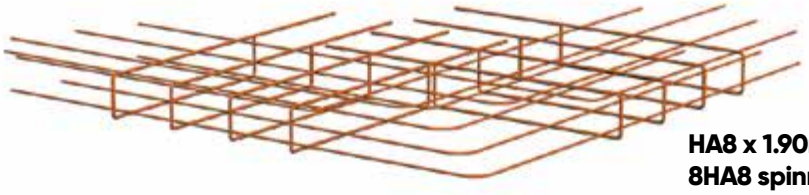
BACKGROUND SLAB EXPLODED VIEW

Surface concrete slab

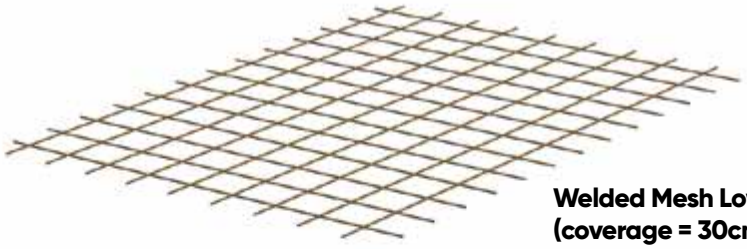


Welded Mesh Upper Tablecloth
ST25C (overlap = 40cm)
15 x 30 diameter 7mm

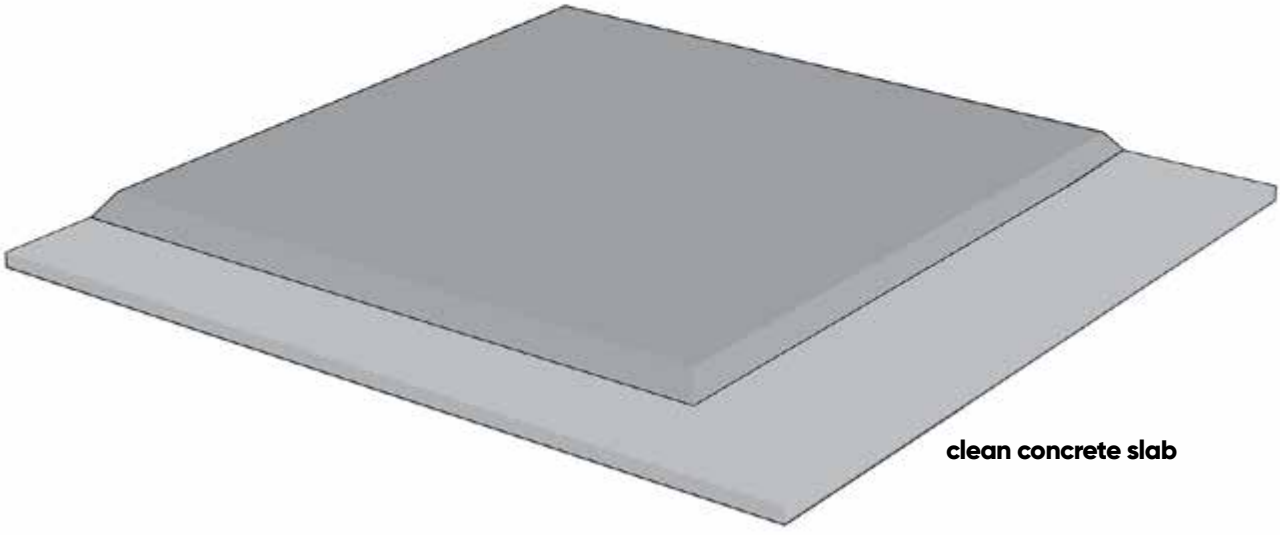
Tablecloth spacers htr = 5cm



HA8 x 1.90m (e=0.20)
8HA8 spinners (r=40cm)



Welded Mesh Lower Layer ST15C
(coverage = 30cm)
20 x 20 diameter 6mm

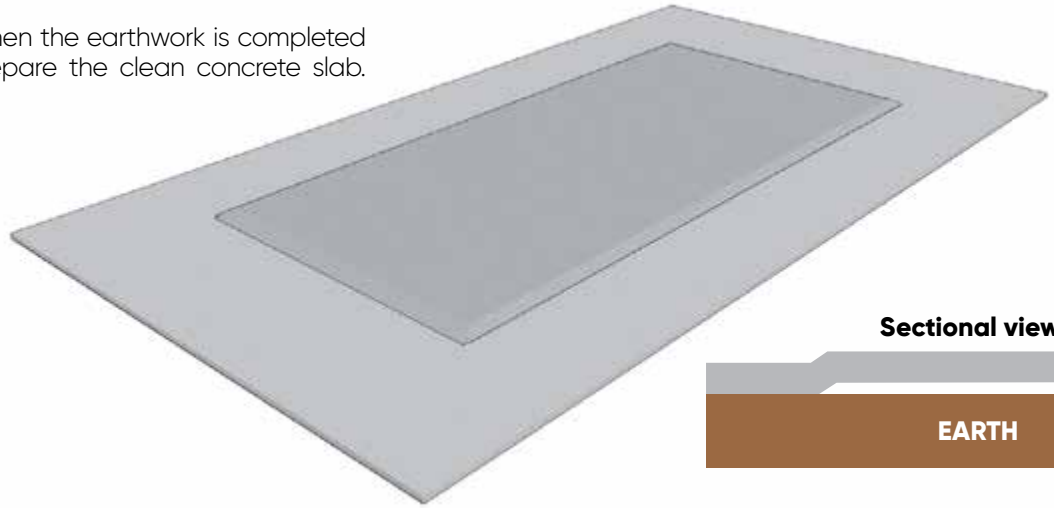


clean concrete slab

! | RESPECT THE LOCAL STANDARDS TO MAKE THE CONCRETE SLAB

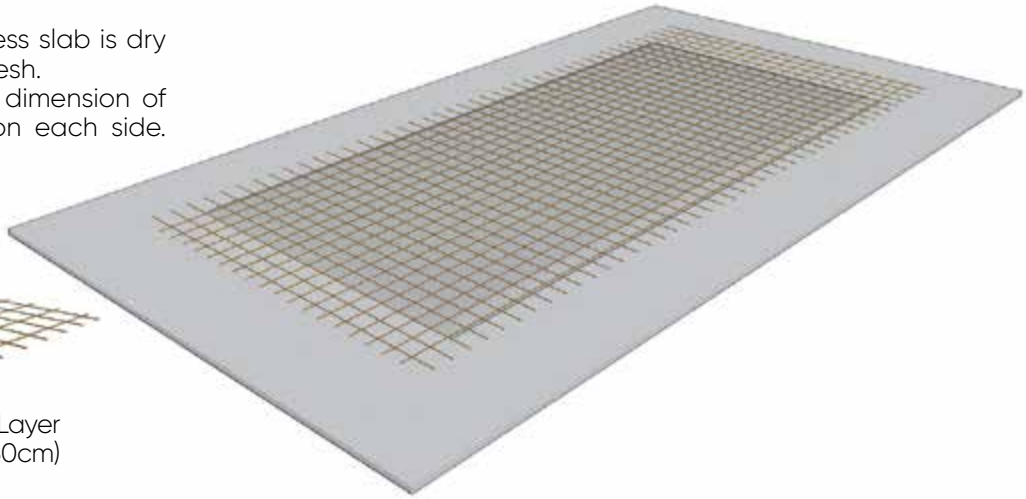
BOTTOM SLAB WITH REINFORCEMENT

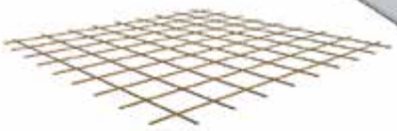
1 When the earthwork is completed prepare the clean concrete slab.



Sectional view

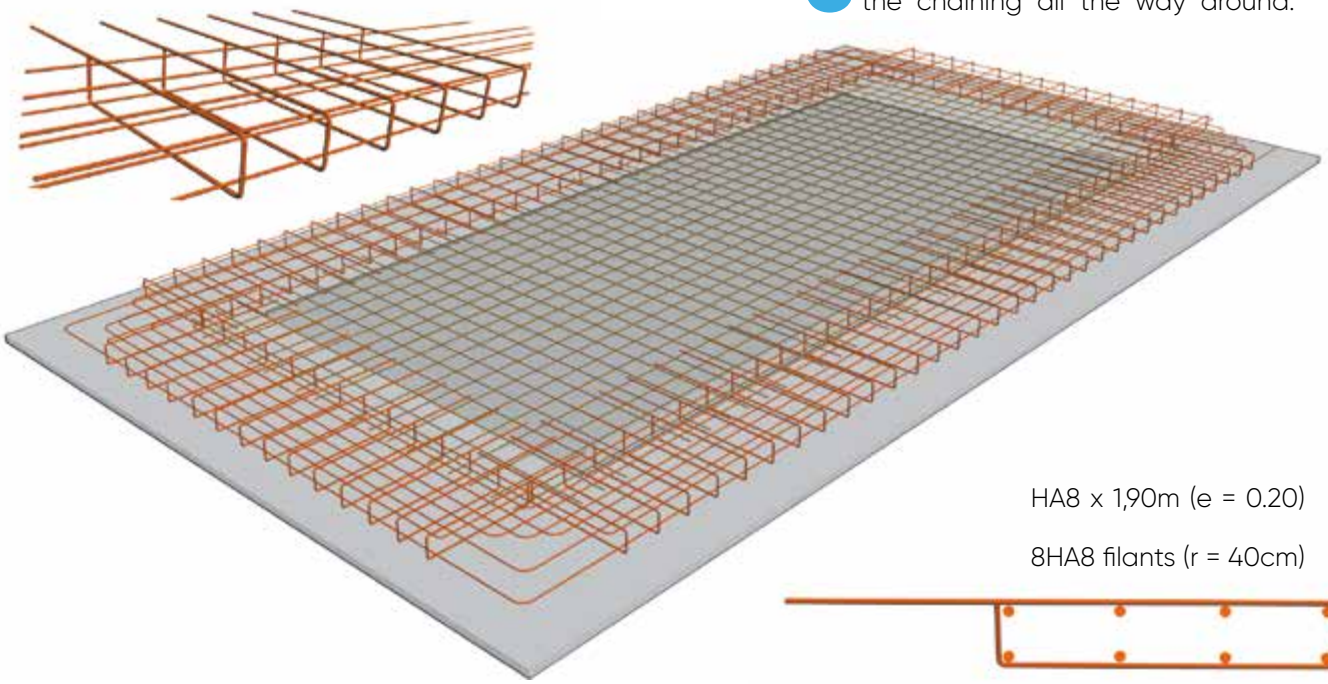
2 When the cleanliness slab is dry then lay welded mesh.
Trellis dimension = dimension of the pool + 15cm on each side.





Welded Mesh Lower Layer ST15C (coverage = 30cm) 20 x 20 diameter 6mm

3 At the end of the welded mesh, lay the chaining all the way around.



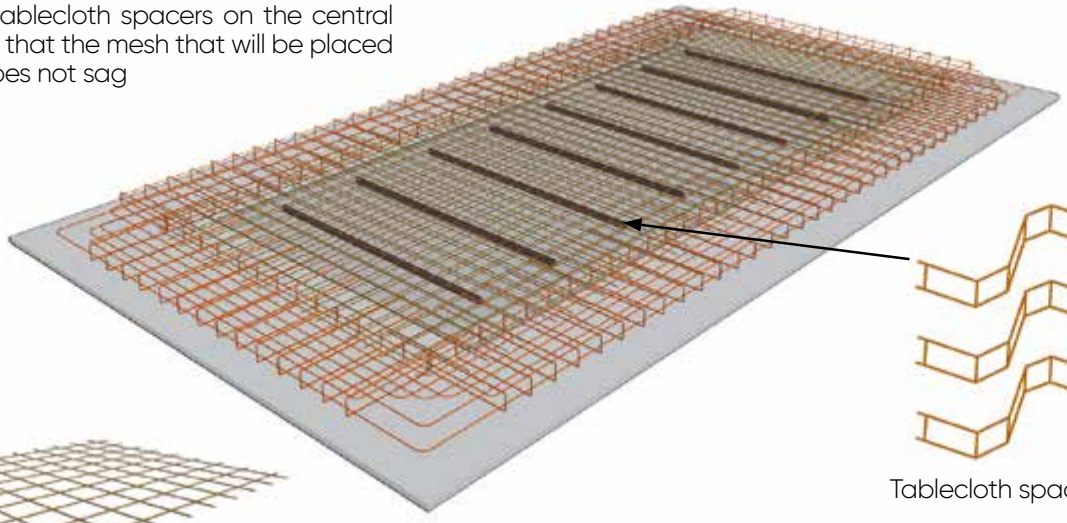
HA8 x 1,90m (e = 0.20)

8HA8 filants (r = 40cm)

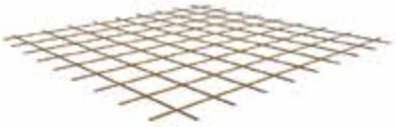
! RESPECT THE LOCAL STANDARDS TO MAKE THE CONCRETE SLAB

BOTTOM SLAB WITH REINFORCEMENT

4 Install tablecloth spacers on the central part so that the mesh that will be placed on it does not sag

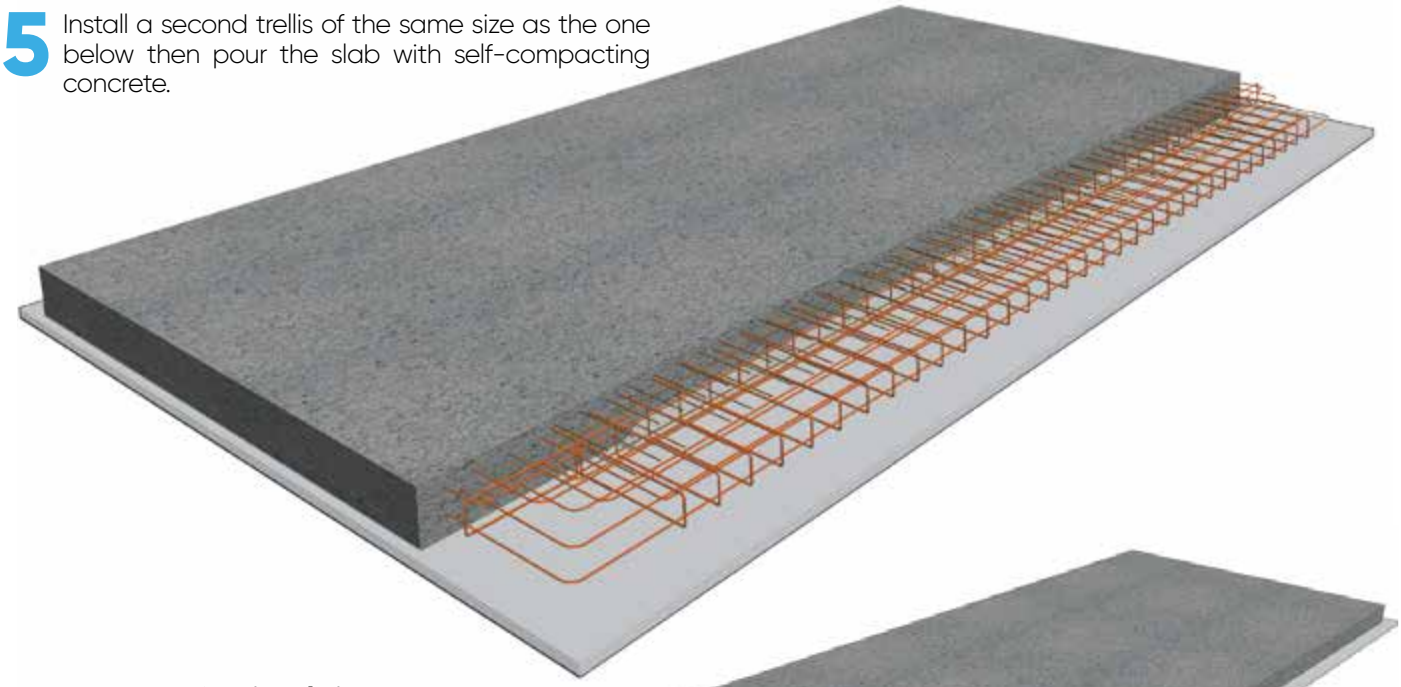


Tablecloth spacers htr = 5cm



Welded mesh Top layer ST25C (coverage = 40cm) 15 x 30 diameter 7mm

5 Install a second trellis of the same size as the one below then pour the slab with self-compacting concrete.



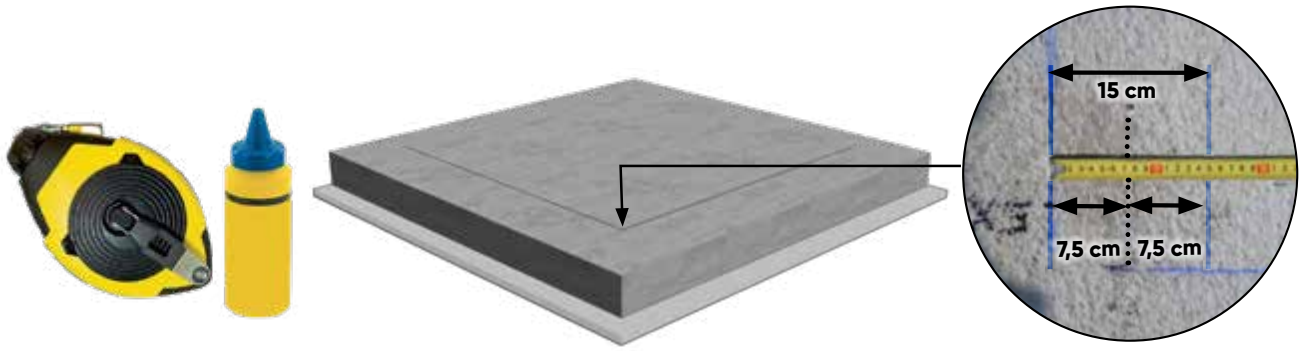
Sectional view

Concrete slab completed

! RESPECT THE LOCAL STANDARDS TO MAKE THE CONCRETE SLAB

INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

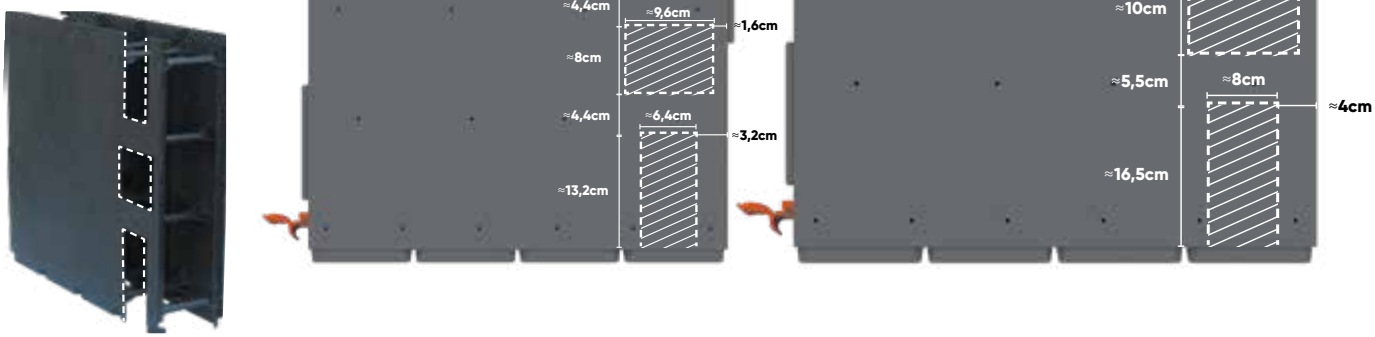
1 Using a cord, draw a 90° angle to the dimensions of your pool (inside dimension of your pool), this marking must always be at least 20 cm from the edge of your concrete slab.

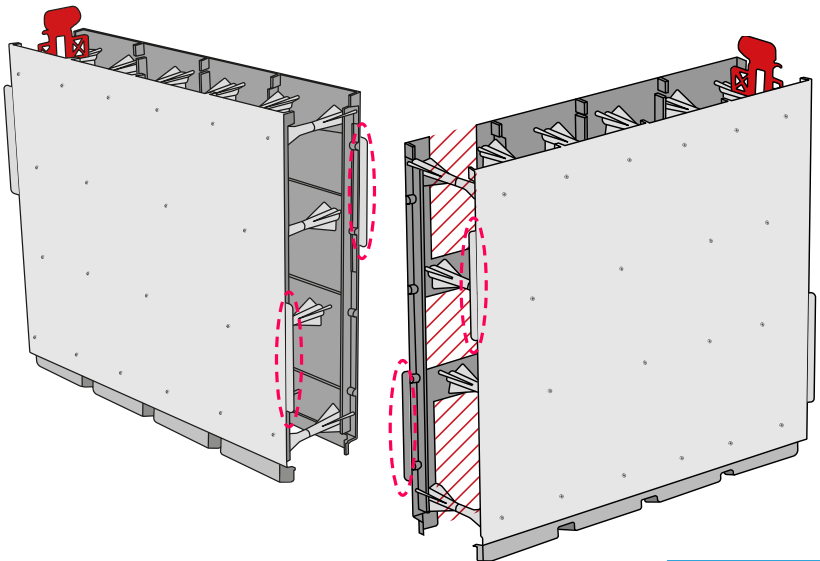


2 **ATTENTION :**
The face with the screws is always installed facing out

Using a grinder, cut the front face (face without screws) for better dispersion of the concrete in the corners of the wall. *(for tiling blocks, the front face is the one with the screws)*

Repeat the operation **ONLY** on 4 blocks to make the 4 corners of the 1st row with this cutout (on the right on the smooth side, side without screws *(for the tiled blocks the front side is the one with the screws)*).

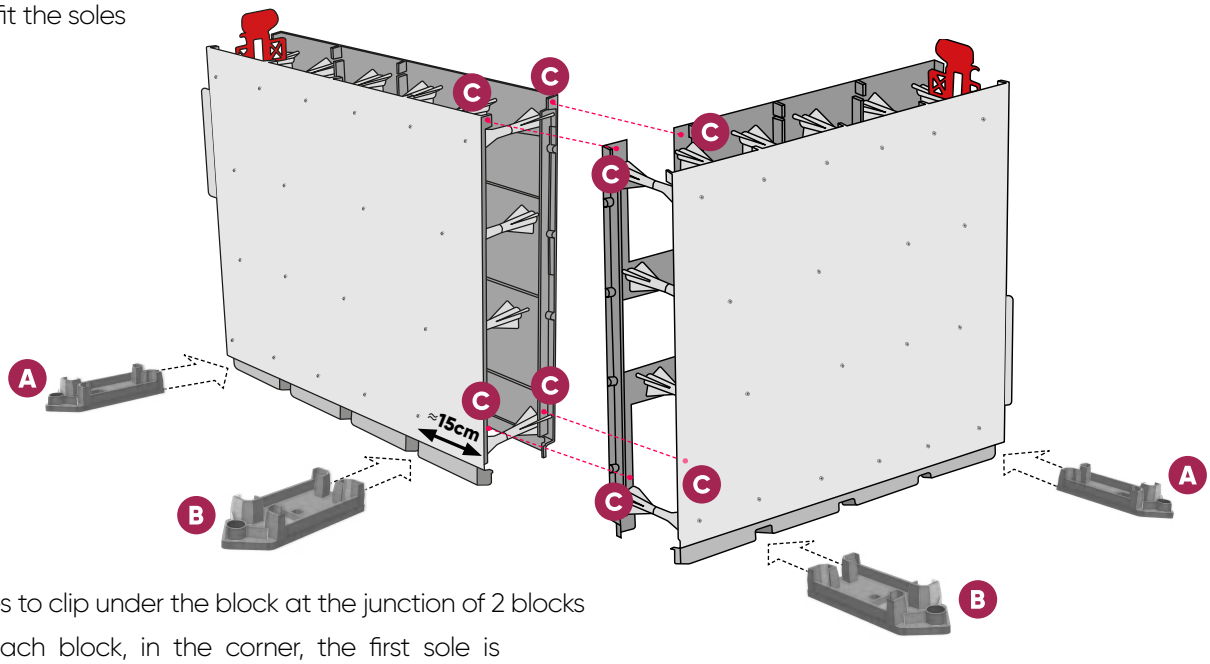




Fins to be cut on corner blocks

INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

3 Assemble the 2 corner blocks and fit the soles



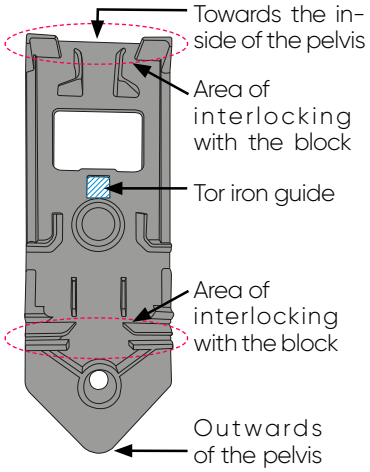
A Insoles to clip under the block at the junction of 2 blocks

B On each block, in the corner, the first sole is clipped ≈15 cm from the outer end of the block

C x4 ------ Screw the blocks (2 screws at the top, 2 screws at the bottom)

SCREWING THE TWO BLOCKS

Sole seen from above



A)

B)

C)

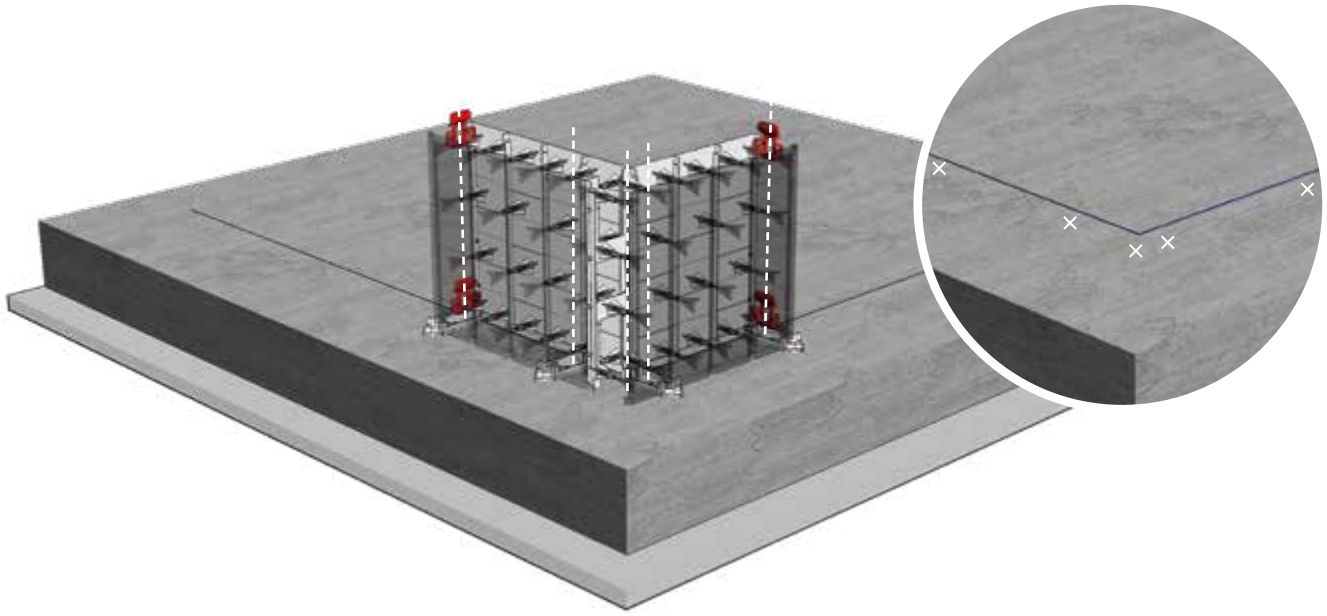
A) Clip the soles under the blocks

B) Position the angle on the cord line (inner dimension)

C) Make marks on the slab in the corner and at the level of the footings (see footing illustration seen from above)

INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

4 Place the angle with the footings on the cord line that corresponds to the interior dimensions of the pool. Make marks in the centre, in the corner then at each twisted iron guide indicated directly on the soles.



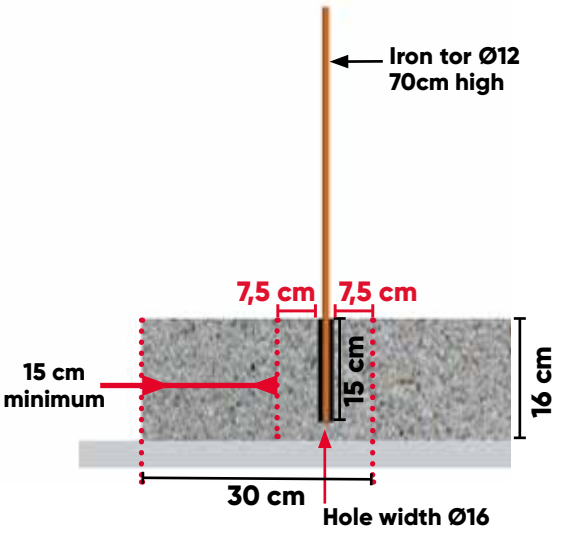
Drill about 15 cm at the marks

Vacuum the dust produced. The hole must be dry and clean

Fill the hole with chemical sealant

Pour chemical sealant on the end of the iron and then insert it

Insert the tor iron

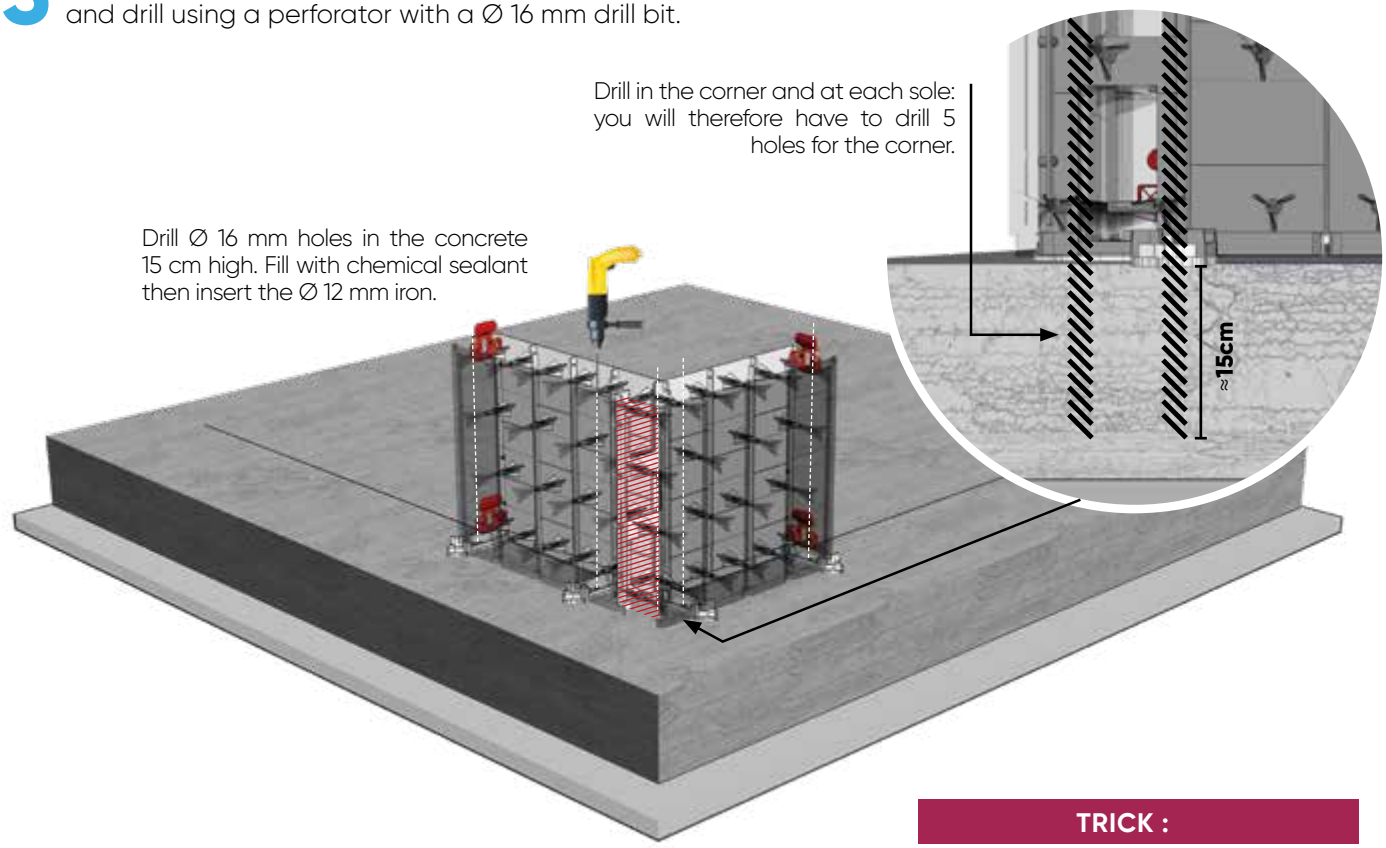


INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

5 Put the corner blocks with the footings back on the layout and drill using a perforator with a Ø 16 mm drill bit.

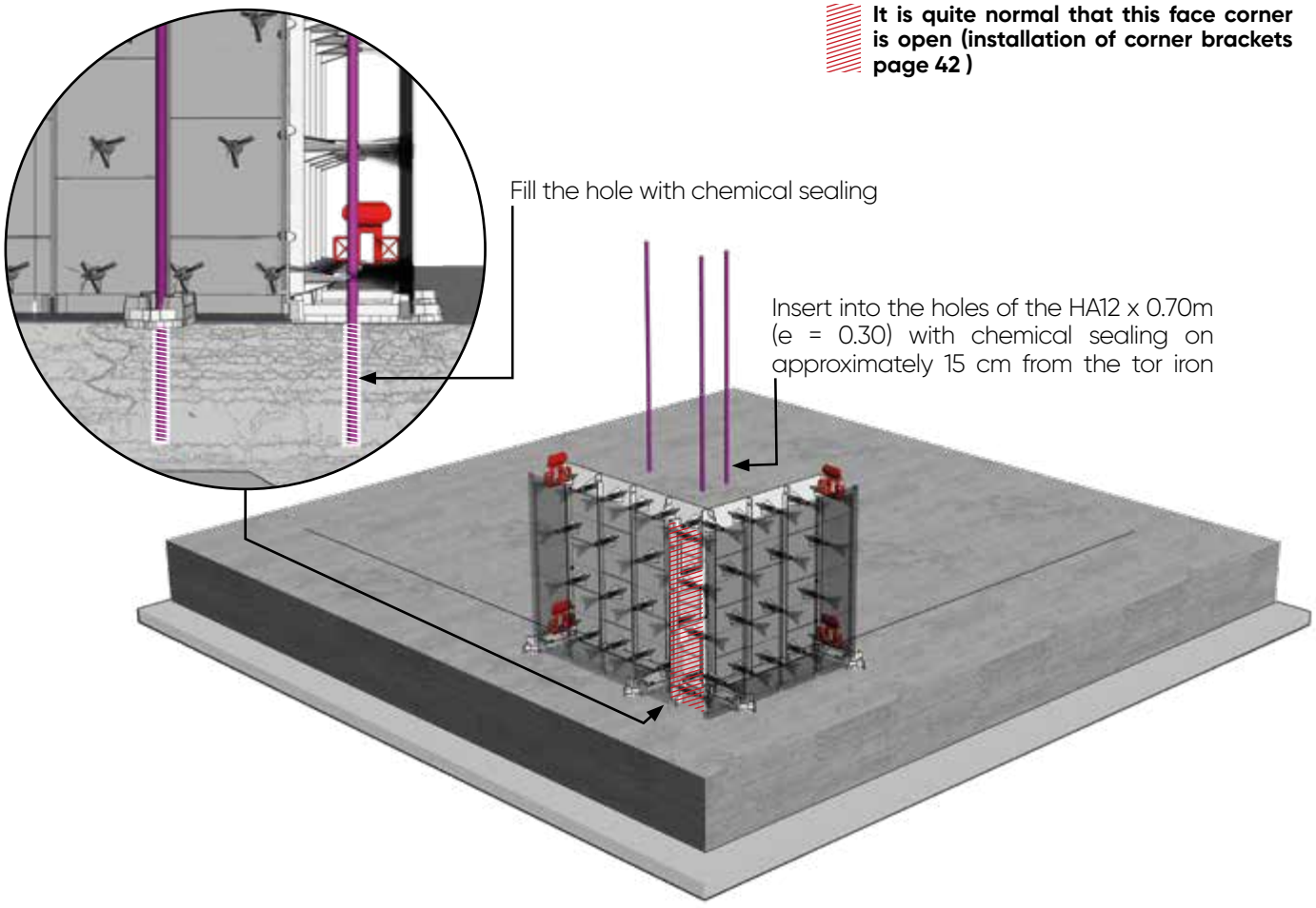
Drill in the corner and at each sole: you will therefore have to drill 5 holes for the corner.

Drill Ø 16 mm holes in the concrete 15 cm high. Fill with chemical sealant then insert the Ø 12 mm iron.



TRICK :

It is quite normal that this face corner is open (installation of corner brackets page 42)

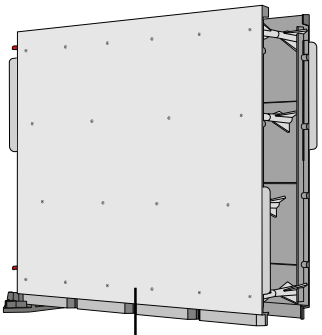


Fill the hole with chemical sealing

Insert into the holes of the HA12 x 0.70m (e = 0.30) with chemical sealing on approximately 15 cm from the tor iron

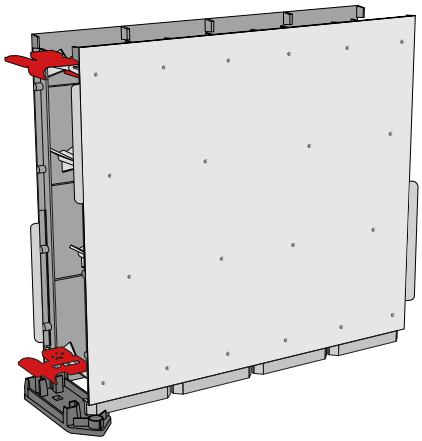
INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

6 Fit a new block with a sole on one side of the first row.

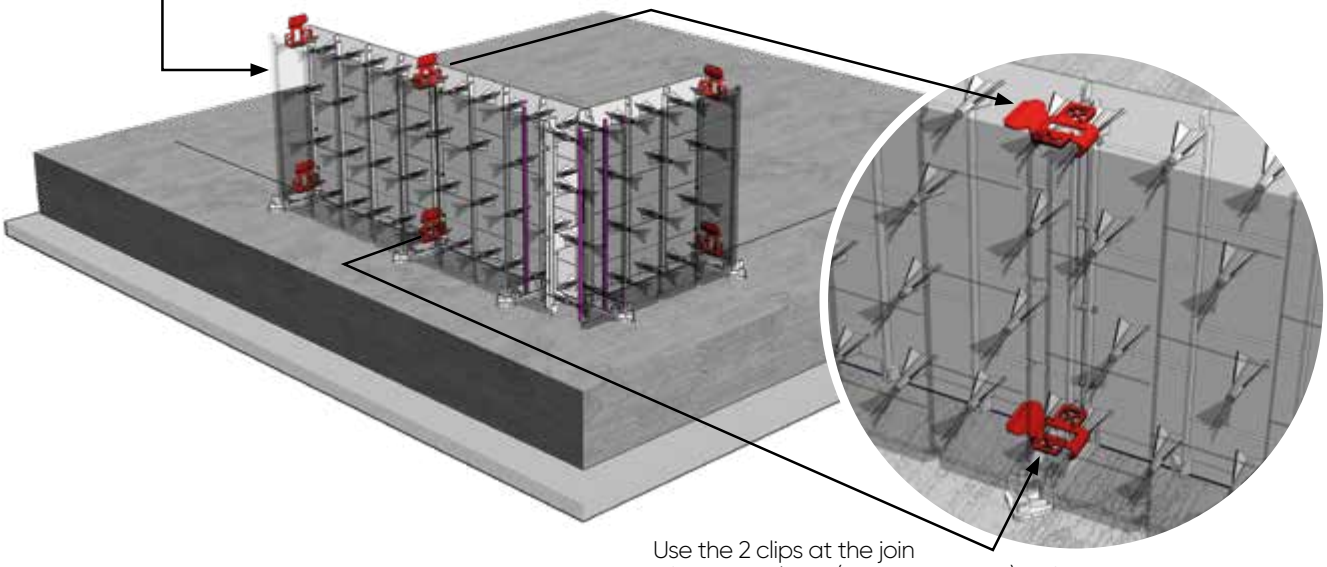


ATTENTION :
The face with the screws is ALWAYS installed facing out

Before inserting the block, place a sole straddling the end of the block. Embed the block with the block already in place as well as on half of the footing already installed on the slab.

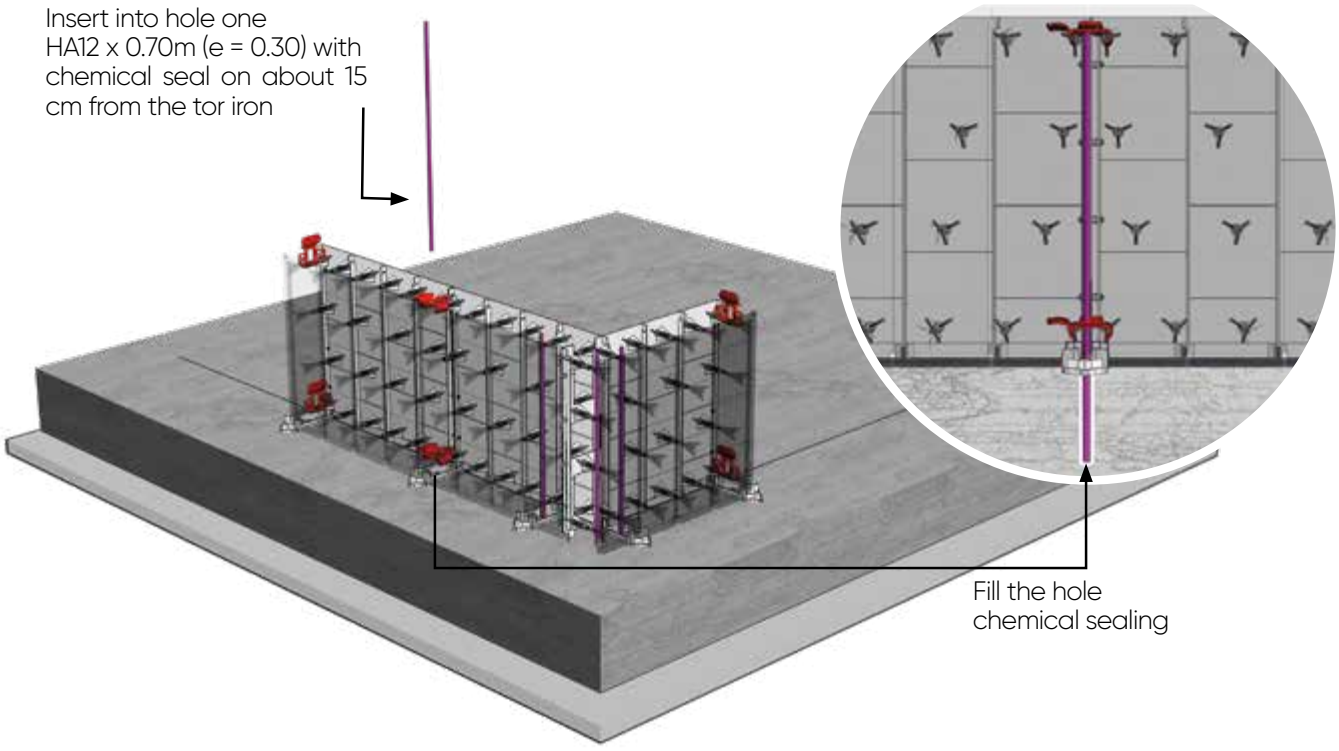


Added a new block



Use the 2 clips at the join
of the two blocks (top and bottom) before inserting the tor iron.

Insert into hole one
HA12 x 0.70m (e = 0.30) with chemical seal on about 15 cm from the tor iron



Fill the hole
chemical sealing

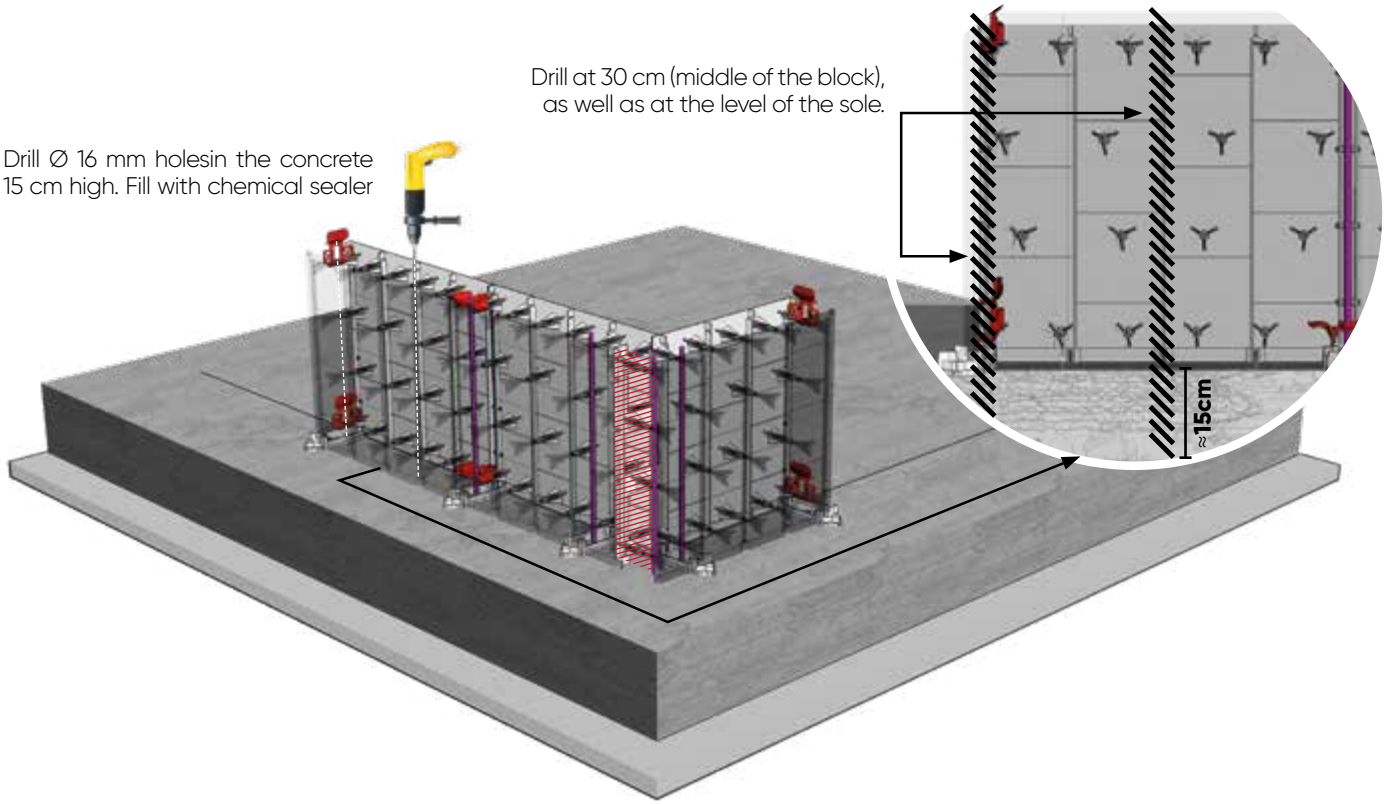
INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

7 **TRICK :**

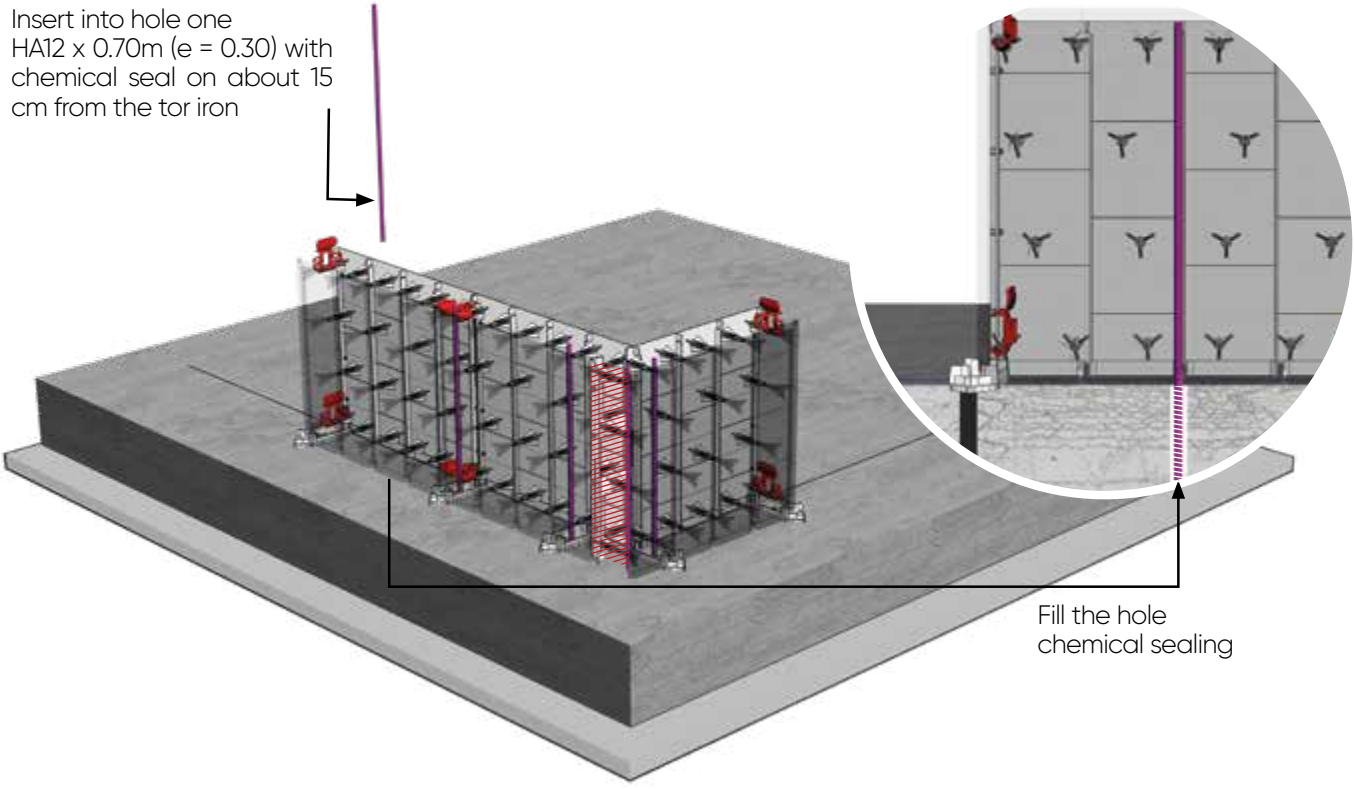
We will come and install the clips after the drilling.

Drill at 30 cm (middle of the block), as well as at the level of the sole.

Drill Ø 16 mm holesin the concrete 15 cm high. Fill with chemical sealer



Insert into hole one HA12 x 0.70m (e = 0.30) with chemical seal on about 15 cm from the tor iron



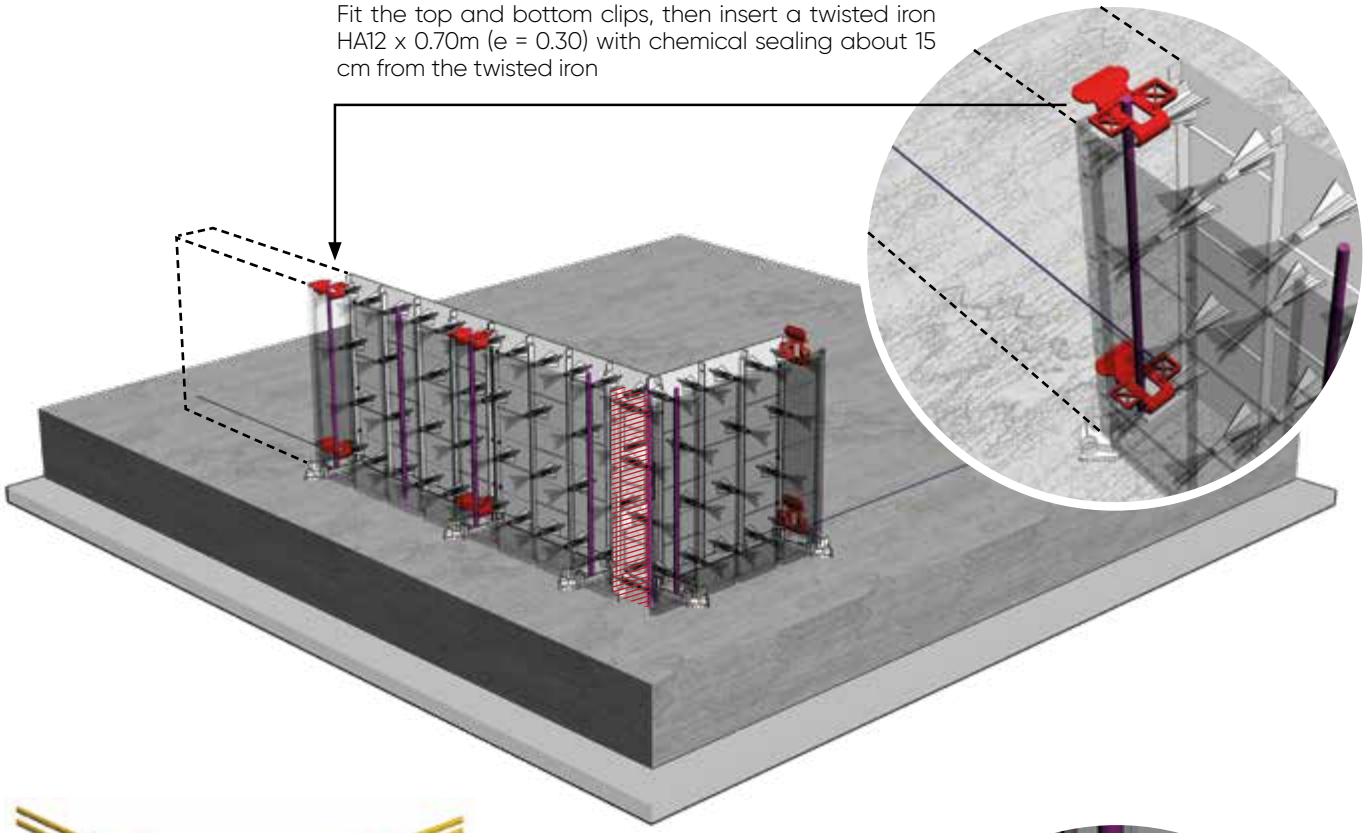
Fill the hole chemical sealing

IMPORTANT ! **LOW ASPIRATIONS ARE POSITIONED ON THIS FIRST ROW (SEE PAGE 46)**

INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

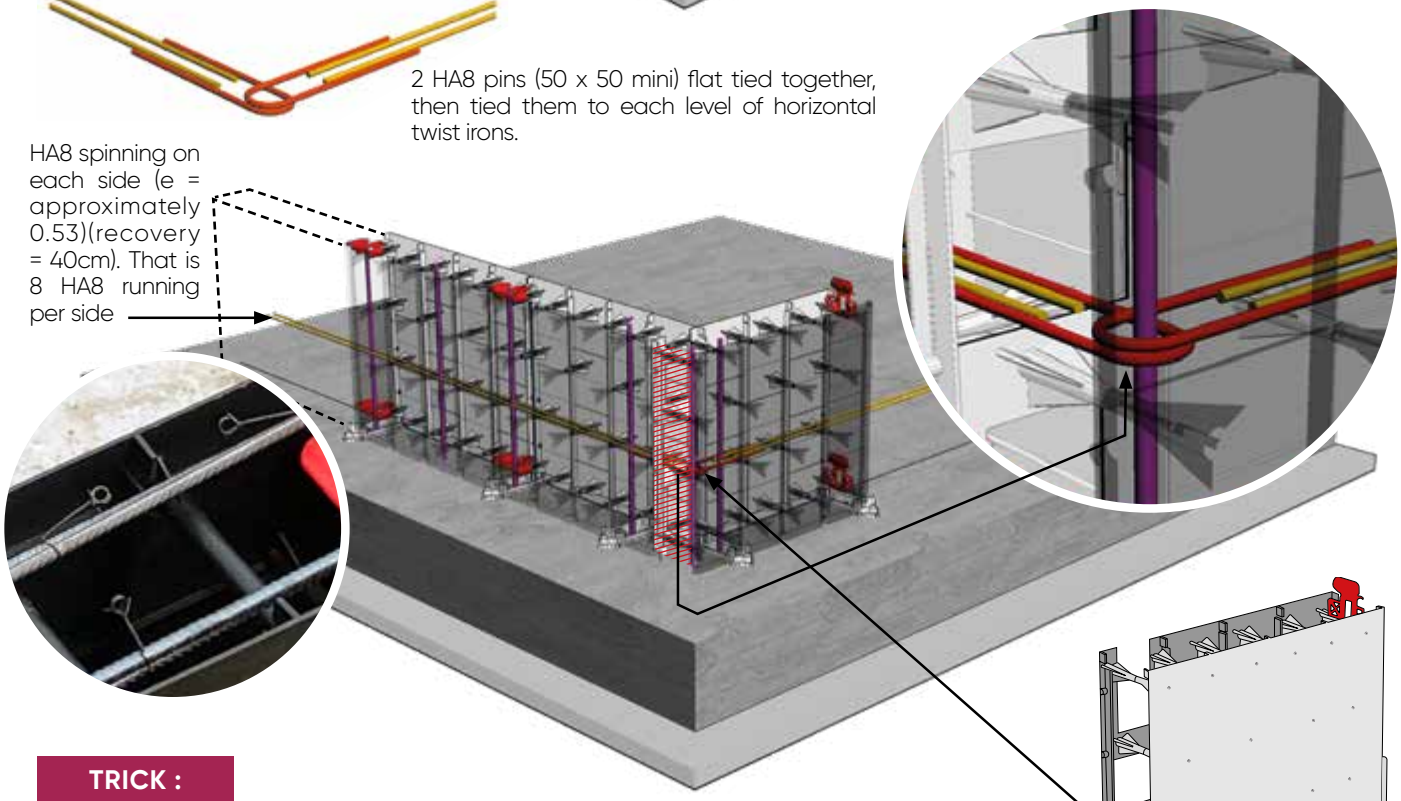
8 Fit a new block with a sole (repeat the operation from step 6) for each of the blocks added.

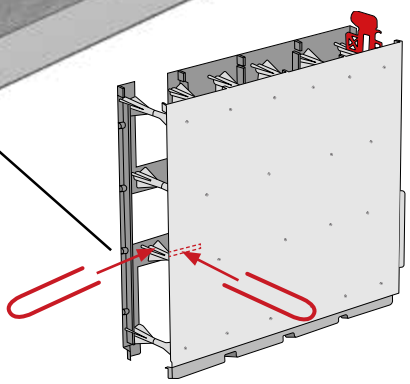
Fit the top and bottom clips, then insert a twisted iron HA12 x 0.70m (e = 0.30) with chemical sealing about 15 cm from the twisted iron



2 HA8 pins (50 x 50 mini) flat tied together, then tied them to each level of horizontal twist irons.

HA8 spinning on each side (e = approximately 0.53)(recovery = 40cm). That is 8 HA8 running per side





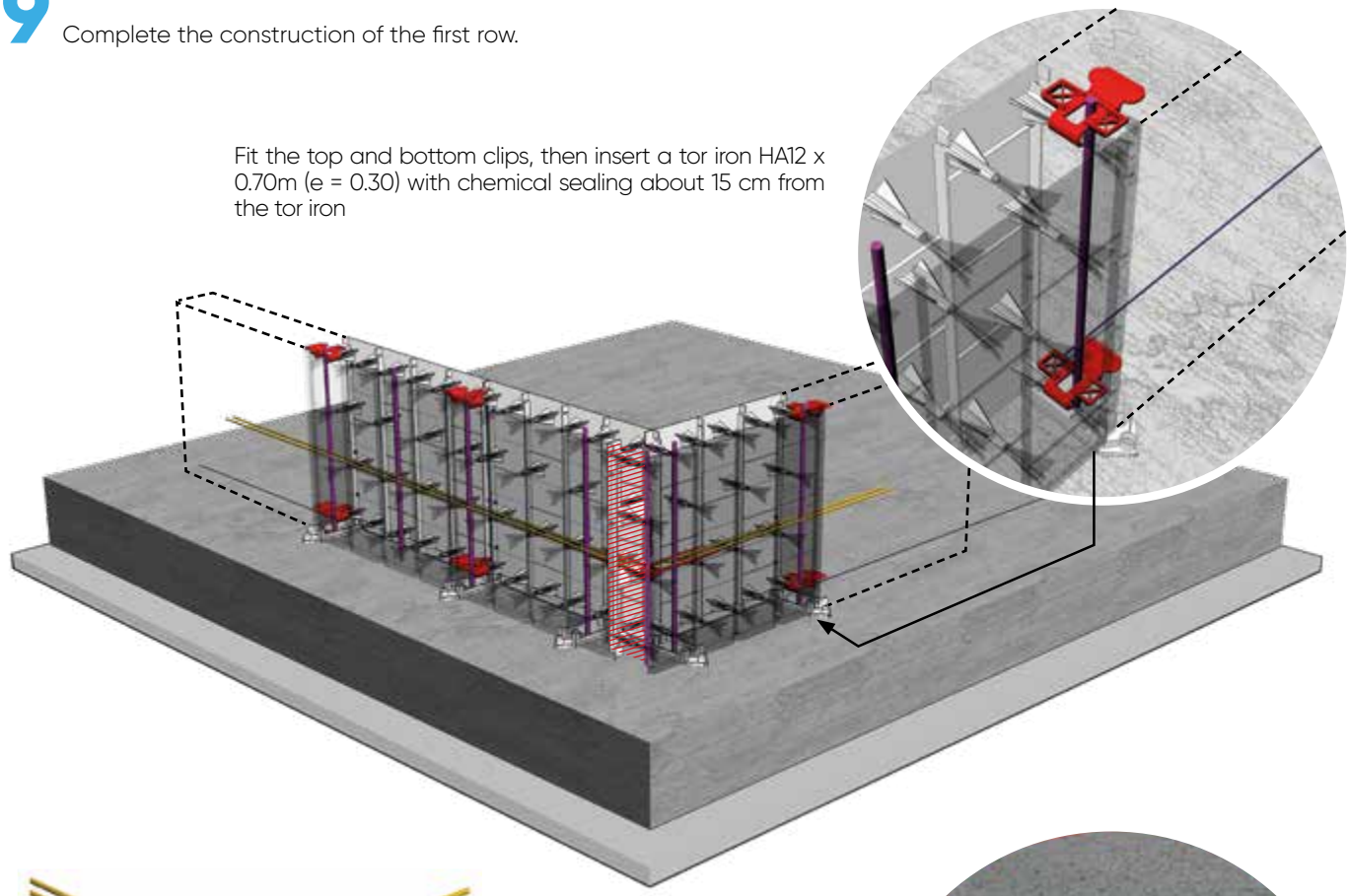
TRICK :

After having installed a few blocks of the structure, we insert the pins and the horizontal irons that we slide as the first row is assembled. The first pin is installed horizontally by the inter-open face on the outside of the blocks. For the pin which is located perpendicularly, using a grinder, we make a small opening 10 cm long and 2 cm high to install the second pin. Do not make an opening of more than 15 cm because we will install angle brackets which are 15 cm x 15 cm to cover the open faces.

INSTALLATION OF THE 1ST ROW OF THE STRUCTURE

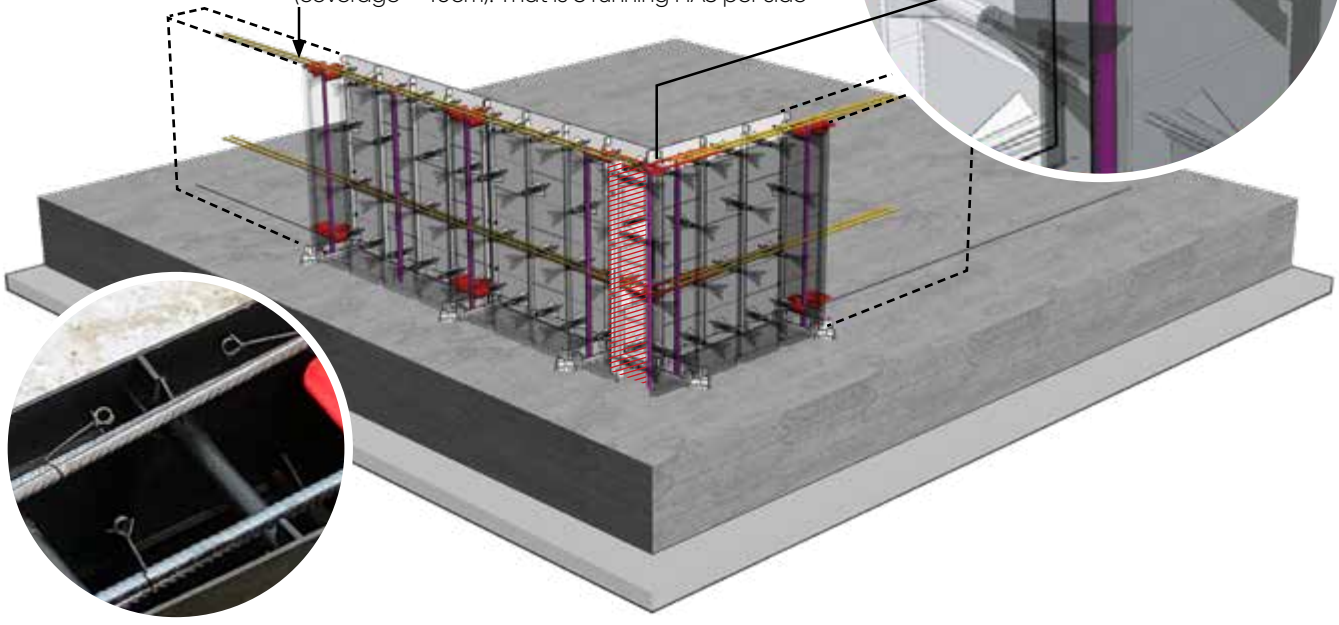
9 Complete the construction of the first row.

Fit the top and bottom clips, then insert a tor iron HA12 x 0.70m (e = 0.30) with chemical sealing about 15 cm from the tor iron



2 HA8 pins (50 x 50 mini) flat tied together, then tied them to each level of horizontal twist irons.

HA8 running on each side (e = approximately 0.53) (coverage = 40cm). That is 8 running HA8 per side

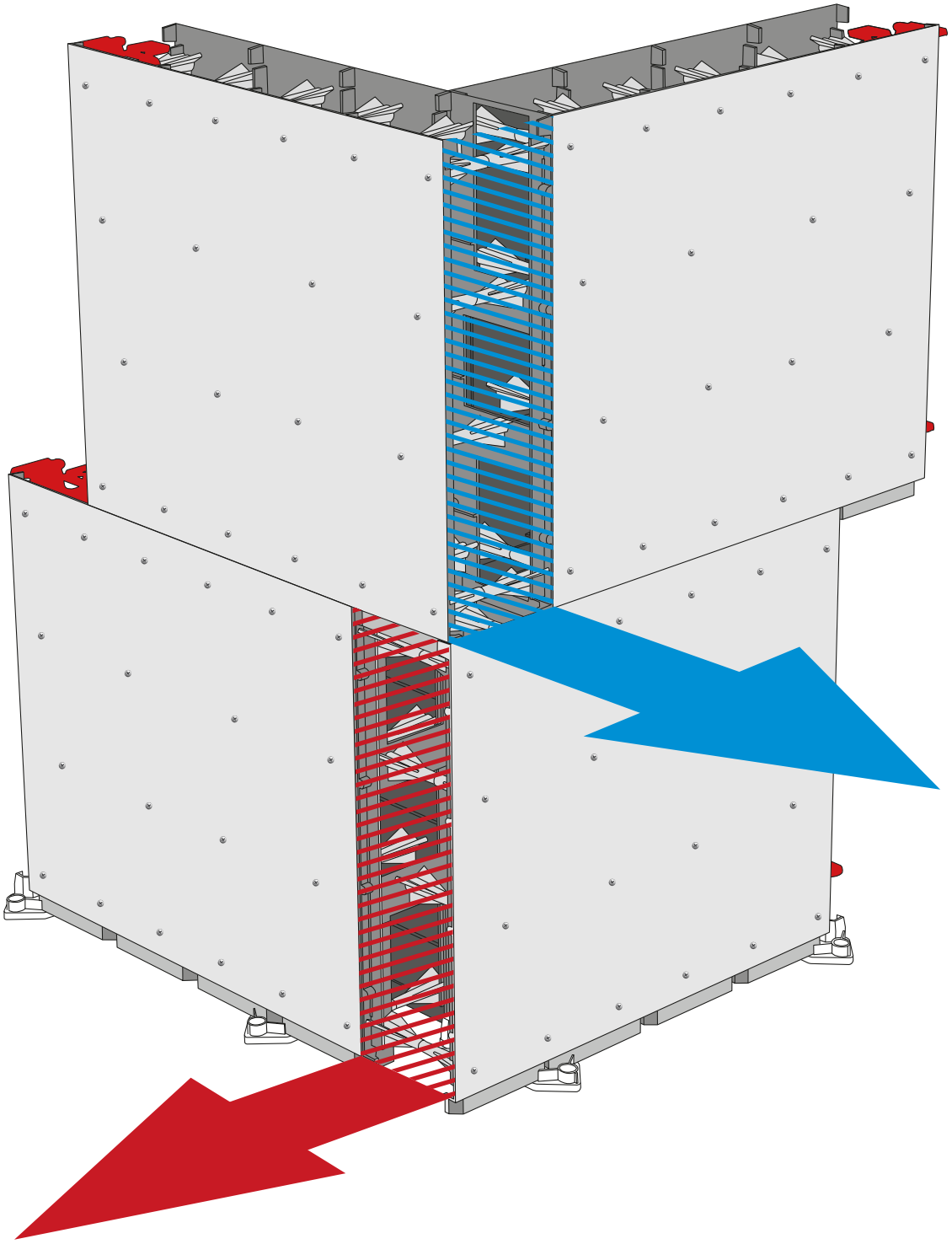


YOUR FIRST ROW IS NOW COMPLETE

INSTALLATION OF THE 2ND ROW OF THE STRUCTURE

ATTENTION :
The row of blocks is shifted 15 cm from the previous row.

On the 2nd row, the blocks are offset by 15 cm so that they are crossed and thus allow greater solidity of the pool structure. Corner blocks are cut in the reverse direction of the first block.

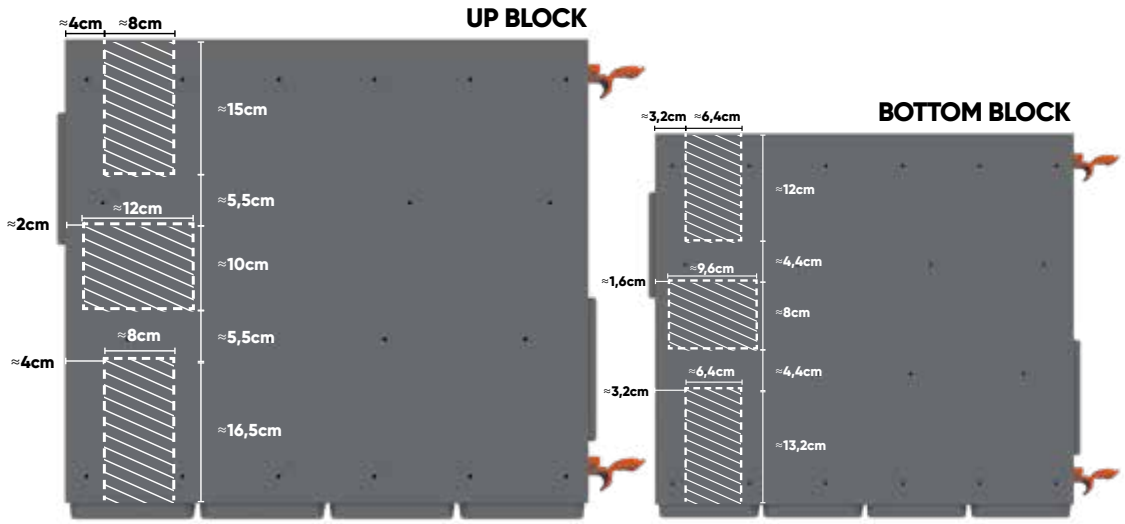


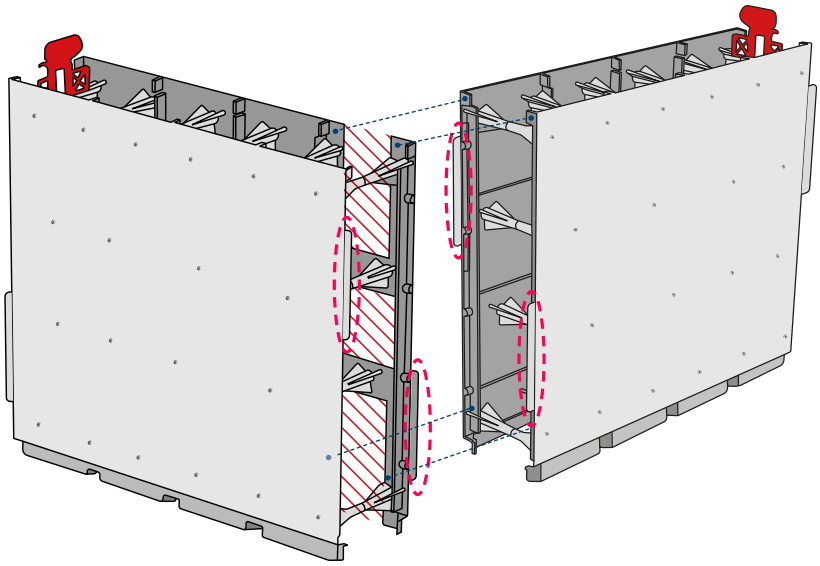
INSTALLATION OF THE 2ND ROW OF THE STRUCTURE

ATTENTION :
The face with the screws is always installed facing out

Using a grinder, cut the front face (face without screws) for better pouring of the concrete between the walls. *(for tiling blocks, the front face is the one with the screws)*

Repeat the operation **ONLY** on 4 blocks to make the 4 corners of the 2nd row with this cutout (on the left on the smooth side, side without screws *(for the tiled blocks the front side is the one with the screws)*).



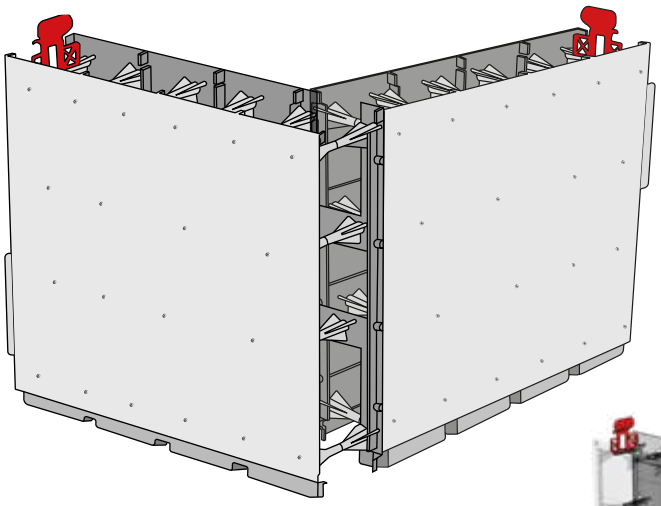


SCREWING THE TWO BLOCKS

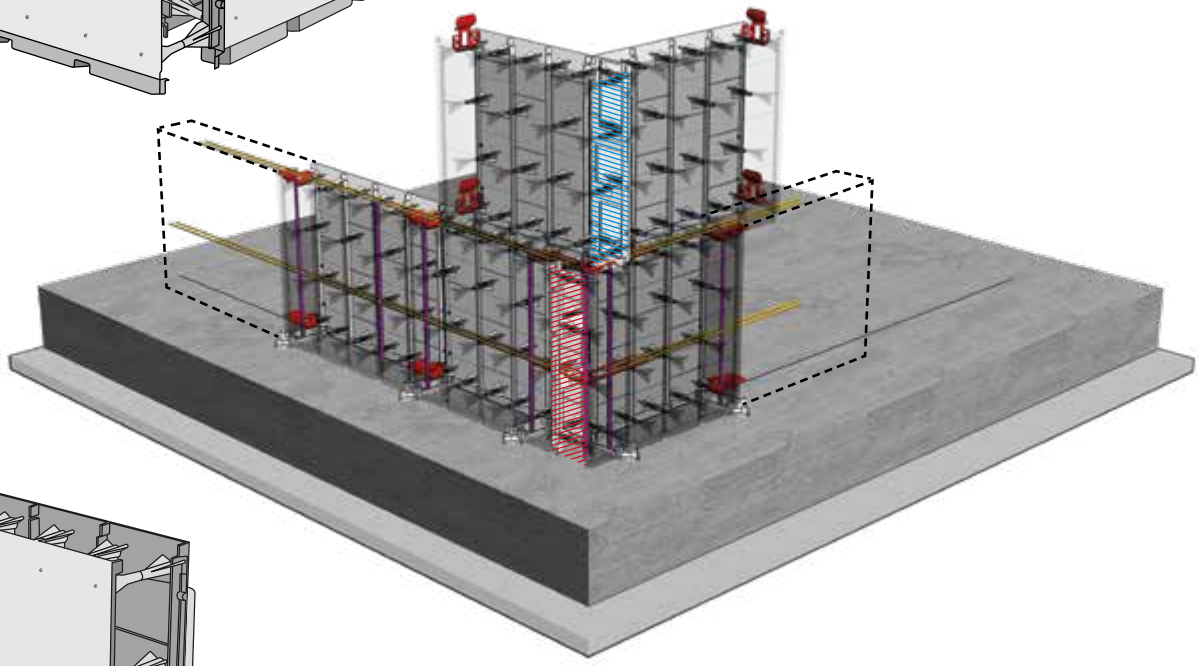
Fins to be cut on corner blocks

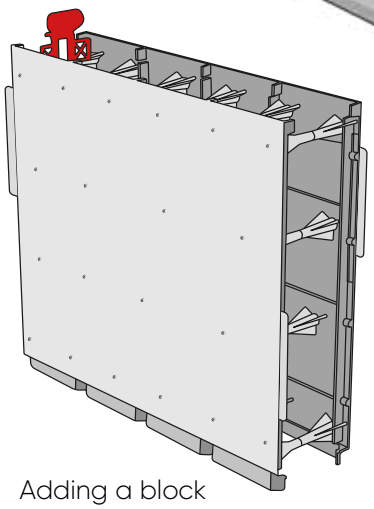
x4 ------- Screw the blocks
(2 screws at the top, 2 screws at the bottom)

INSTALLATION OF THE 2ND ROW OF THE STRUCTURE



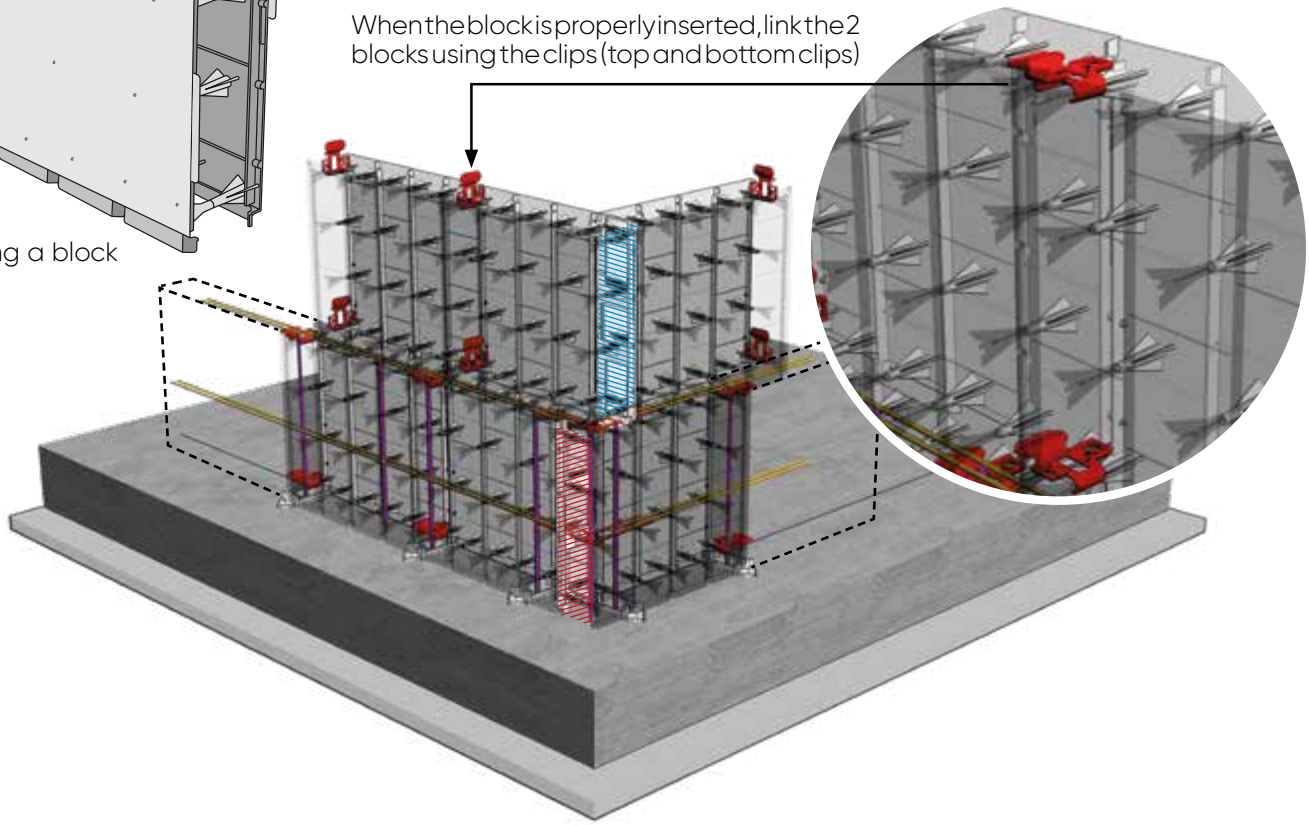
2 Position the screwed corner on top from a front row angle.





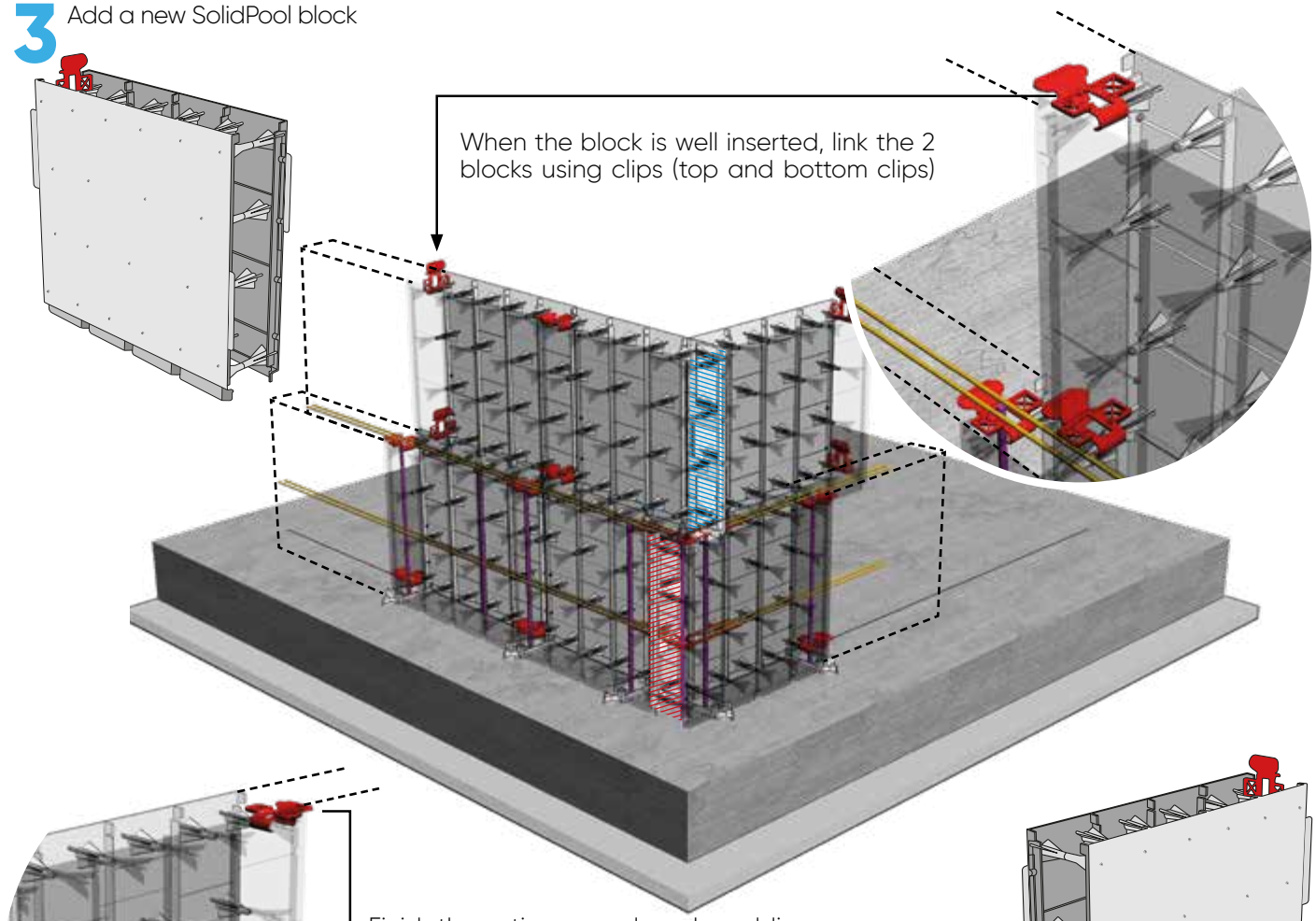
Adding a block

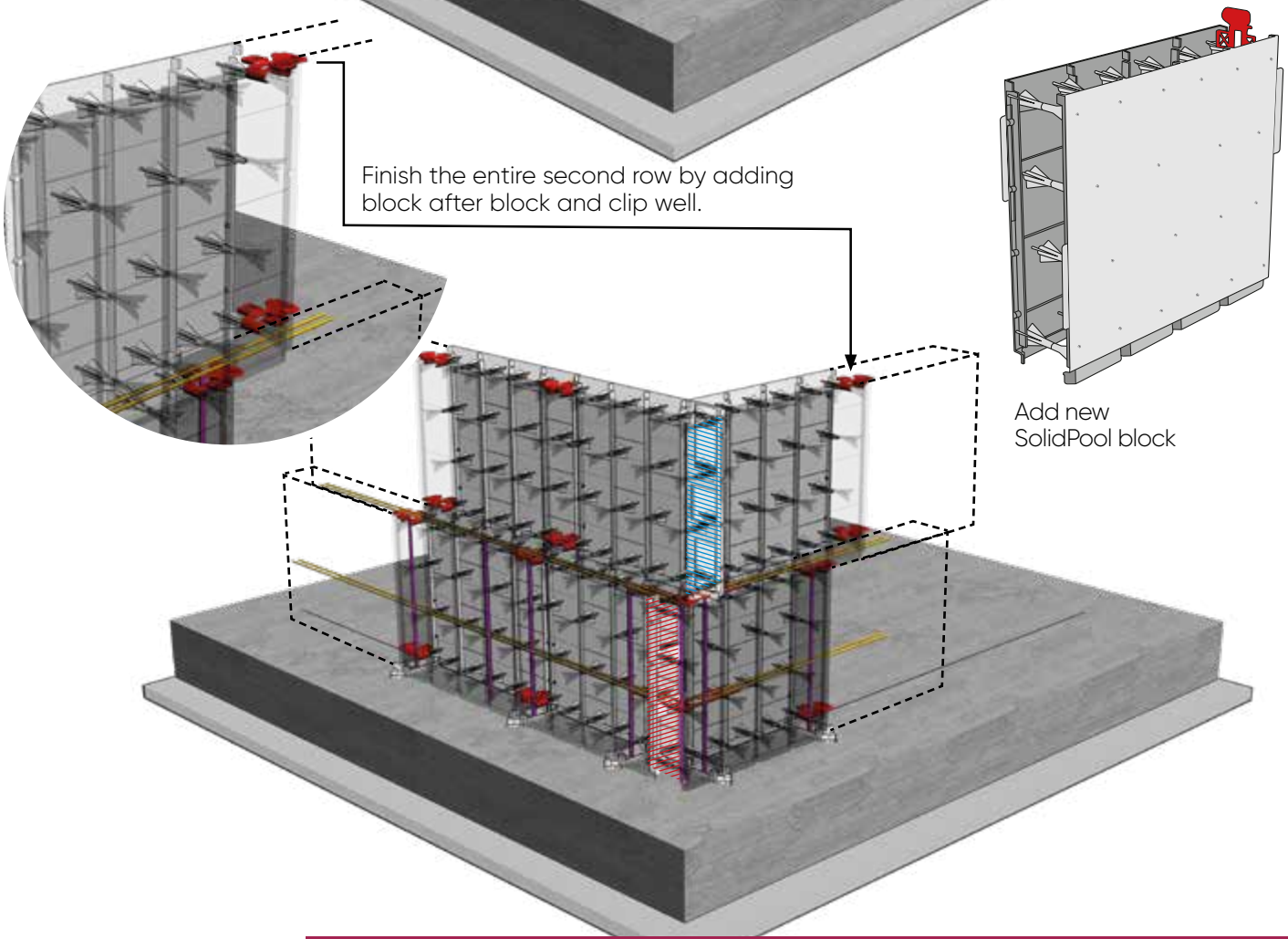
When the block is properly inserted, link the 2 blocks using the clips (top and bottom clips)



INSTALLATION OF THE 2ND ROW OF THE STRUCTURE

3 Add a new SolidPool block



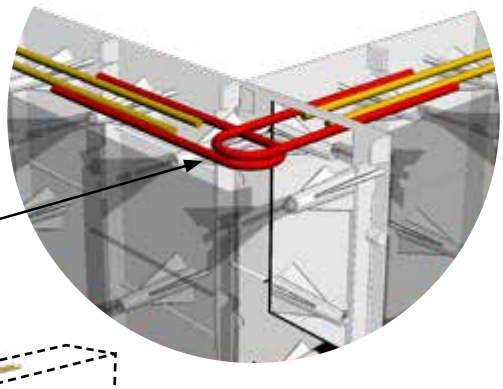


IMPORTANT THE SPOTLIGHT(S) ARE POSITIONED ON THE MIDDLE ROW (SEE PAGE 46)

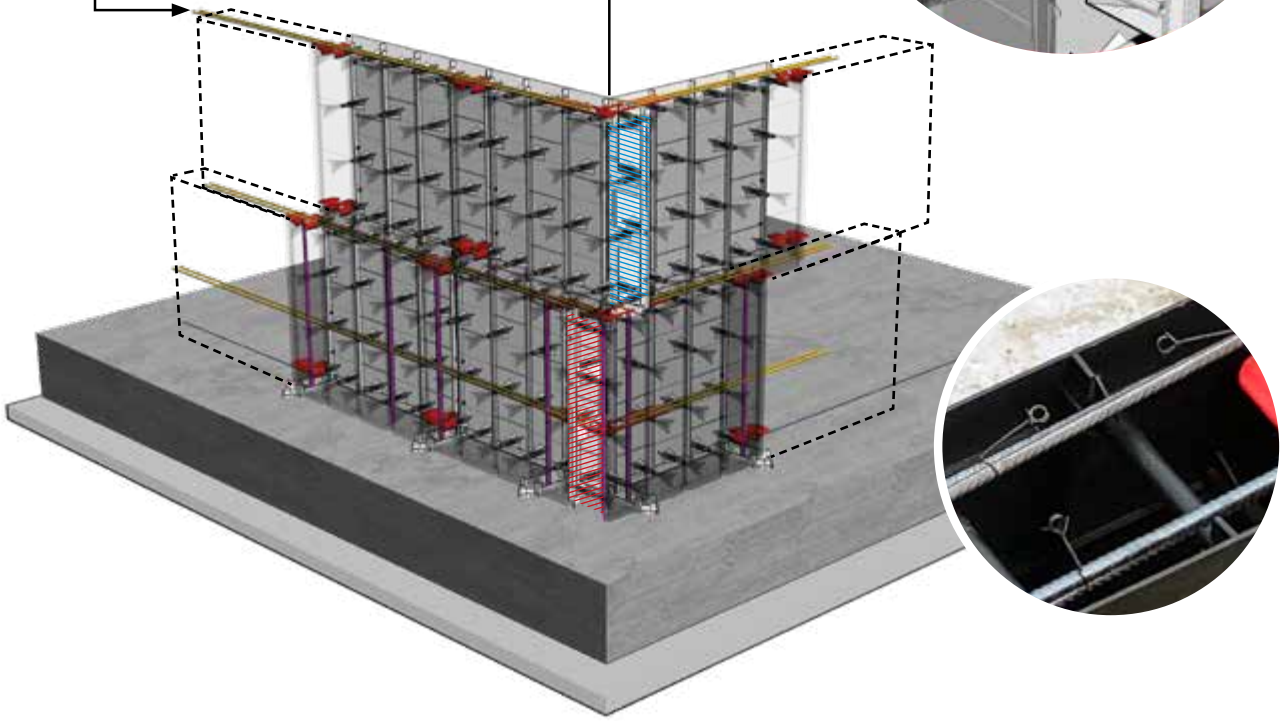
INSTALLATION OF THE 2ND ROW OF THE STRUCTURE

4 Install pins at each corner as well as the 2 running ones on each side

2 HA8 pins (50 x 50 mini) flat tied together, then tied them to each level of horizontal twist irons.

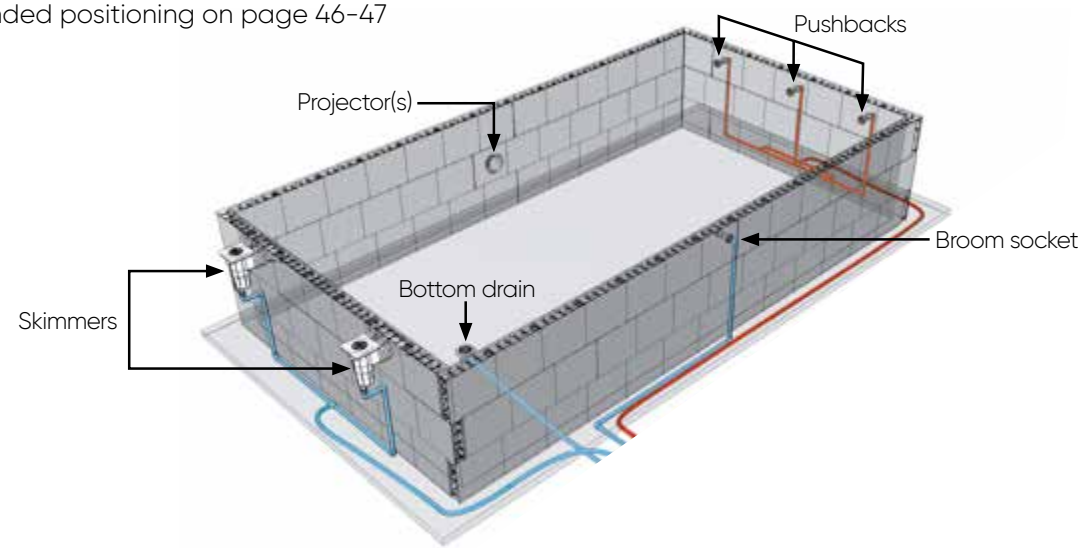


HA8 running on each side (e = approximately 0.53) (coverage = 40cm). That is 8 running HA8 per row



YOUR SECOND ROW IS NOW COMPLETE

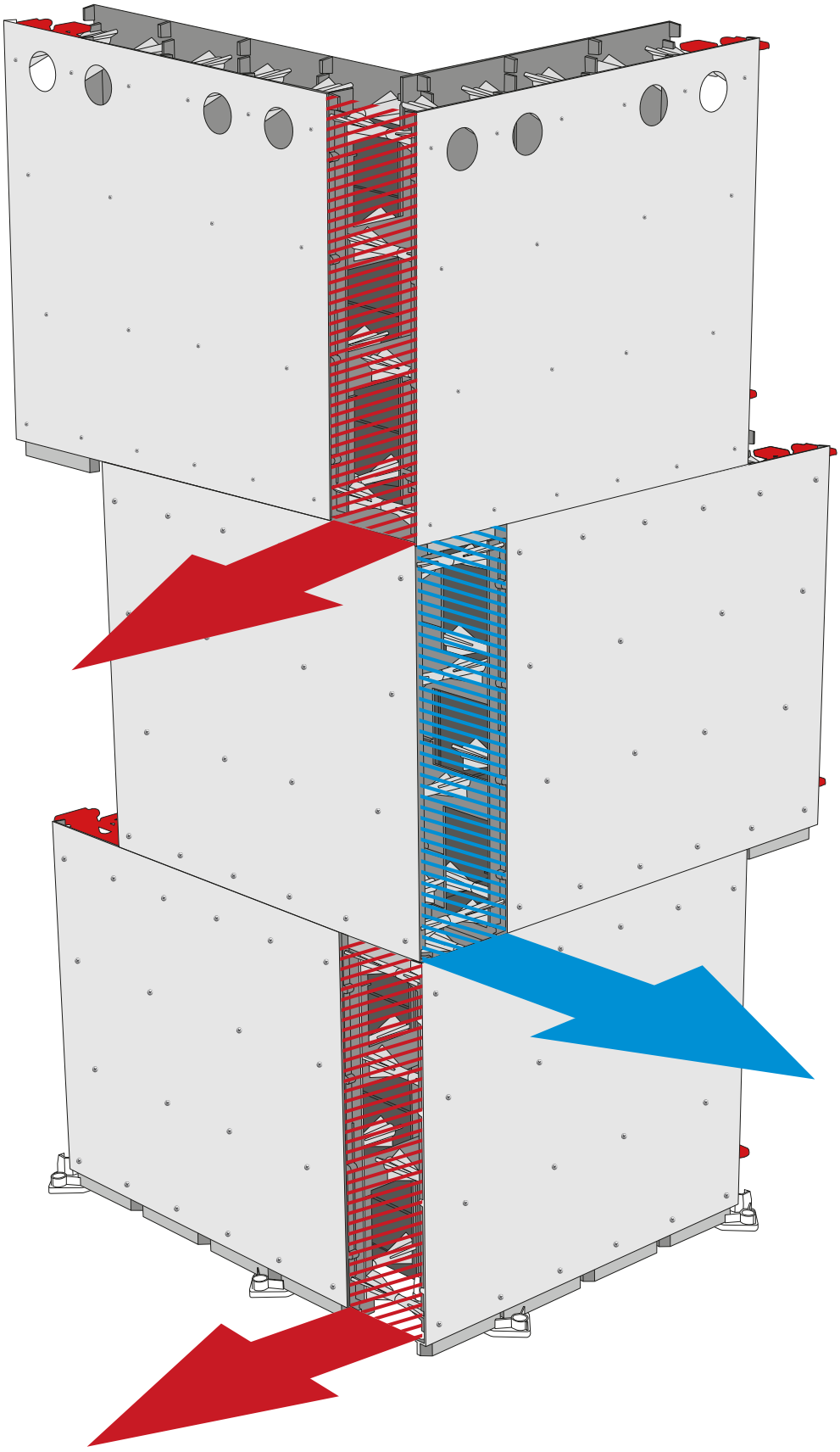
More information about the parts to be sealed and their recommended positioning on page 46-47



INSTALLATION OF THE 3RD ROW OF THE STRUCTURE

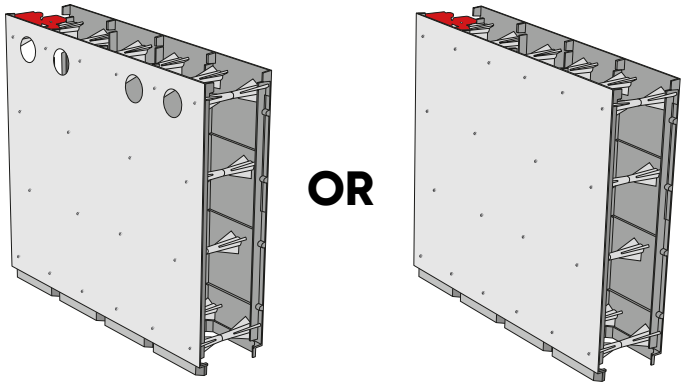
ATTENTION : the row of blocks is shifted 15 cm from the previous row. Therefore, the third rank is identical to the first rank.

Installation of the third row (perforated blocks), see explanation on next page. Openwork blocks must always be installed on the last row regardless of the height of the structure.



INSTALLATION OF THE 3RD ROW OF THE STRUCTURE

OPENWORK BLOCK OR STANDARD BLOCK FOR THE LAST ROW ?
The perforated block makes it possible to add chutes which will provide a better basecopings or an overflow system. The standard block will be used when a wooden terrace is made or when the use of chutes is not envisaged.

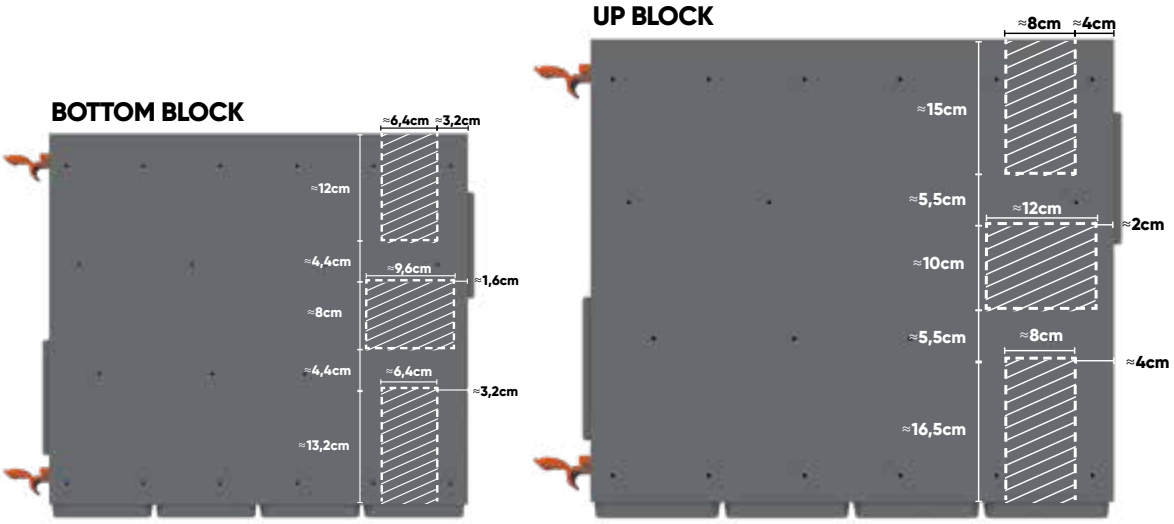


1

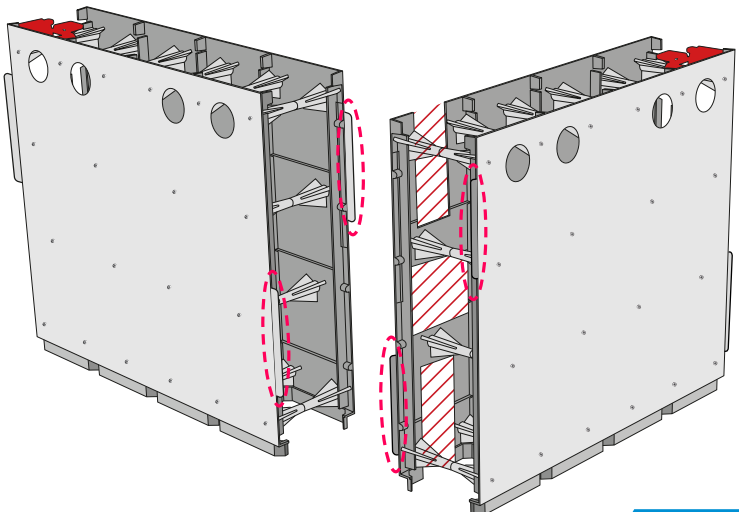
ATTENTION : The face with the screws is always installed facing out

Using a grinder, cut the front face (face without screws) for better pouring of the concrete between the walls. *(for tiling blocks, the front face is the one with the screws)*

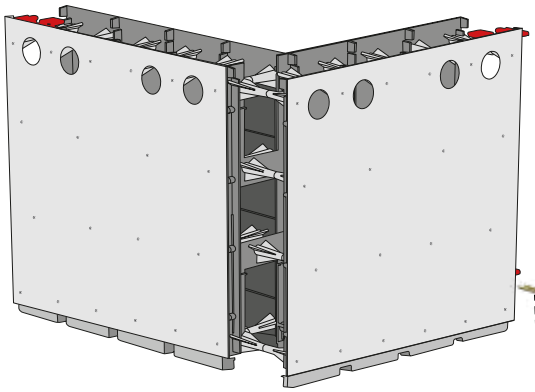
Repeat the operation **ONLY** on 4 blocks to make the 4 angles of the 3rd row with this cutout (on the right on the smooth side, side without screws *(for the tiling blocks, the front side is the one with the screws)*).



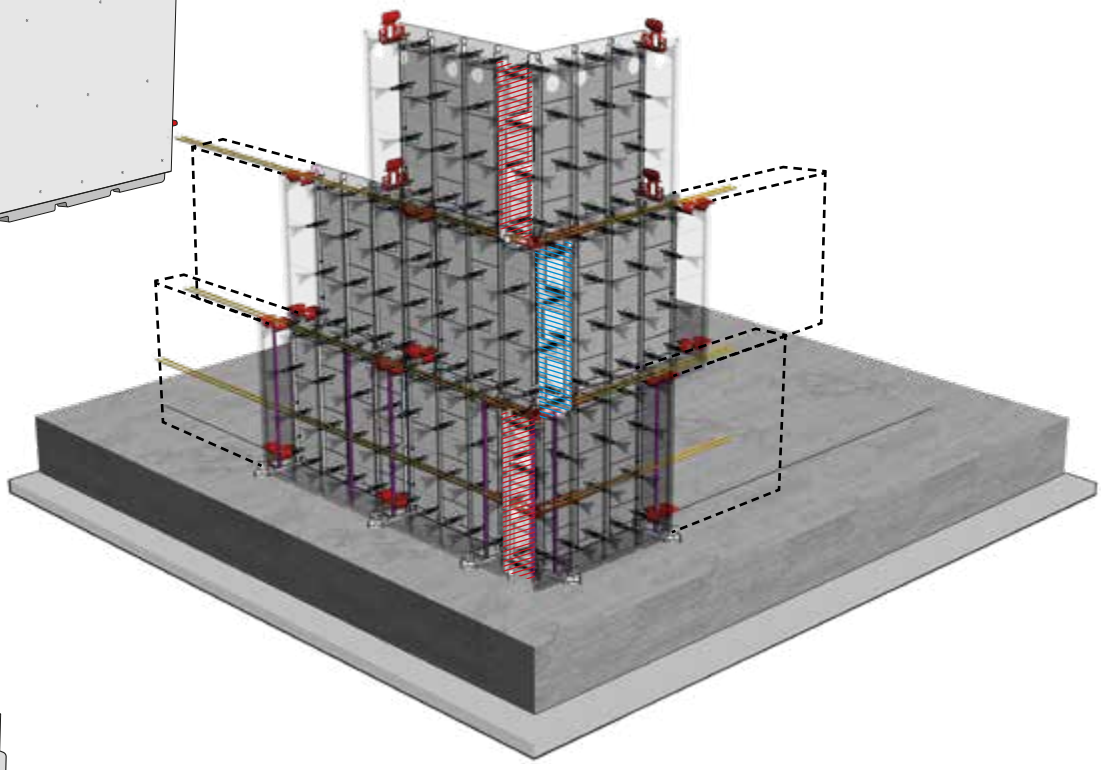
Fins to be cut on corner blocks

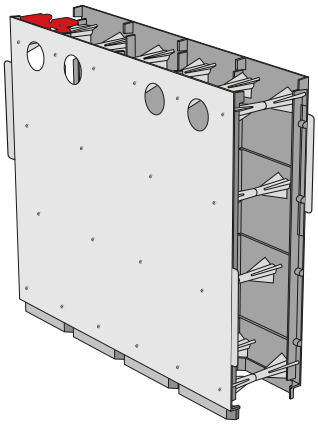


INSTALLATION OF THE 3RD ROW OF THE STRUCTURE



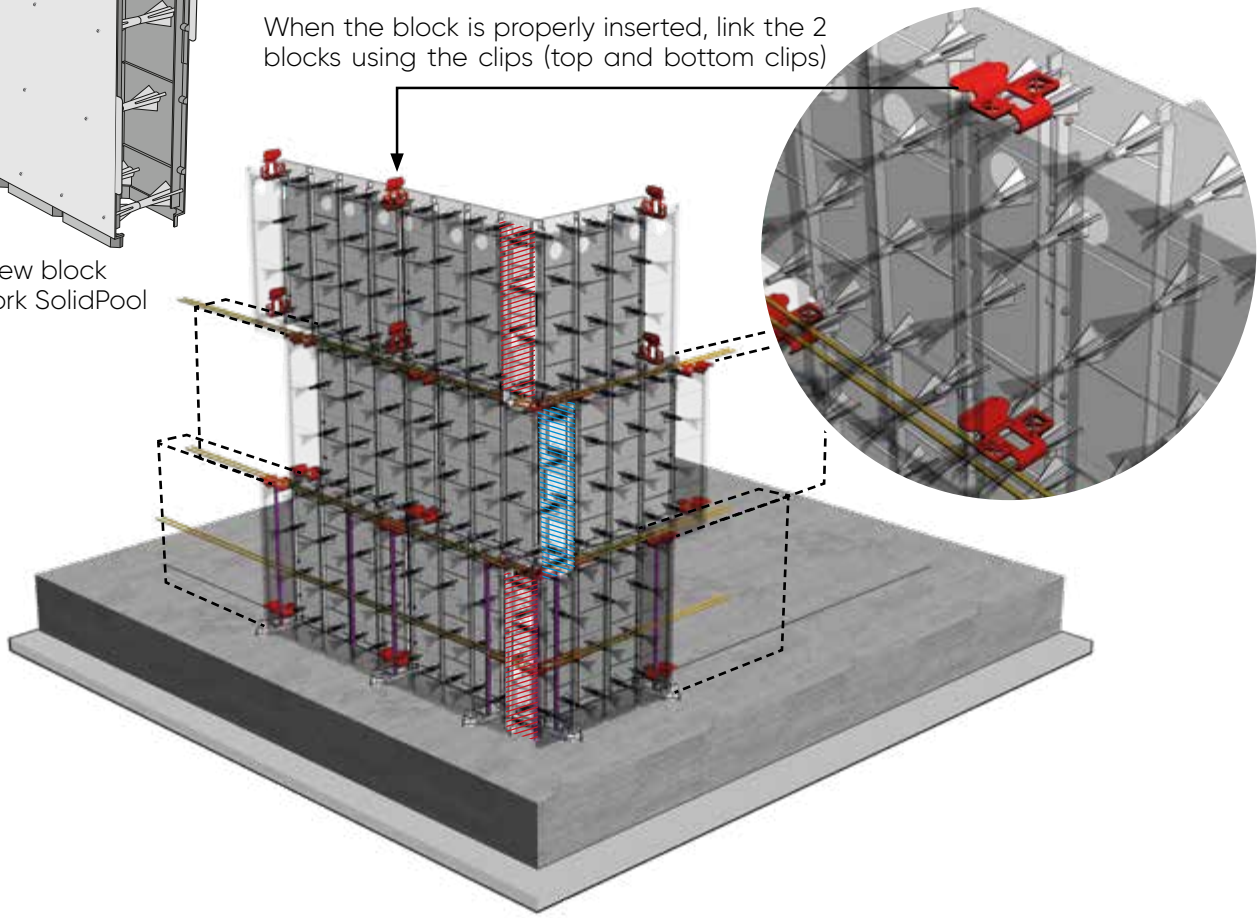
2 Position the screwed angle on the above an angle of the second row.



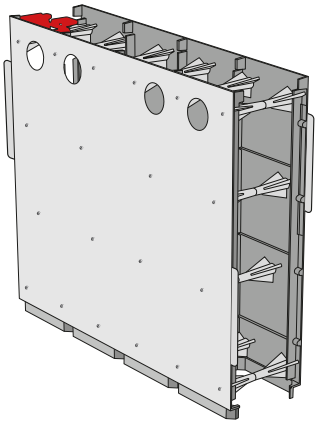


Add a new block Openwork SolidPool

When the block is properly inserted, link the 2 blocks using the clips (top and bottom clips)

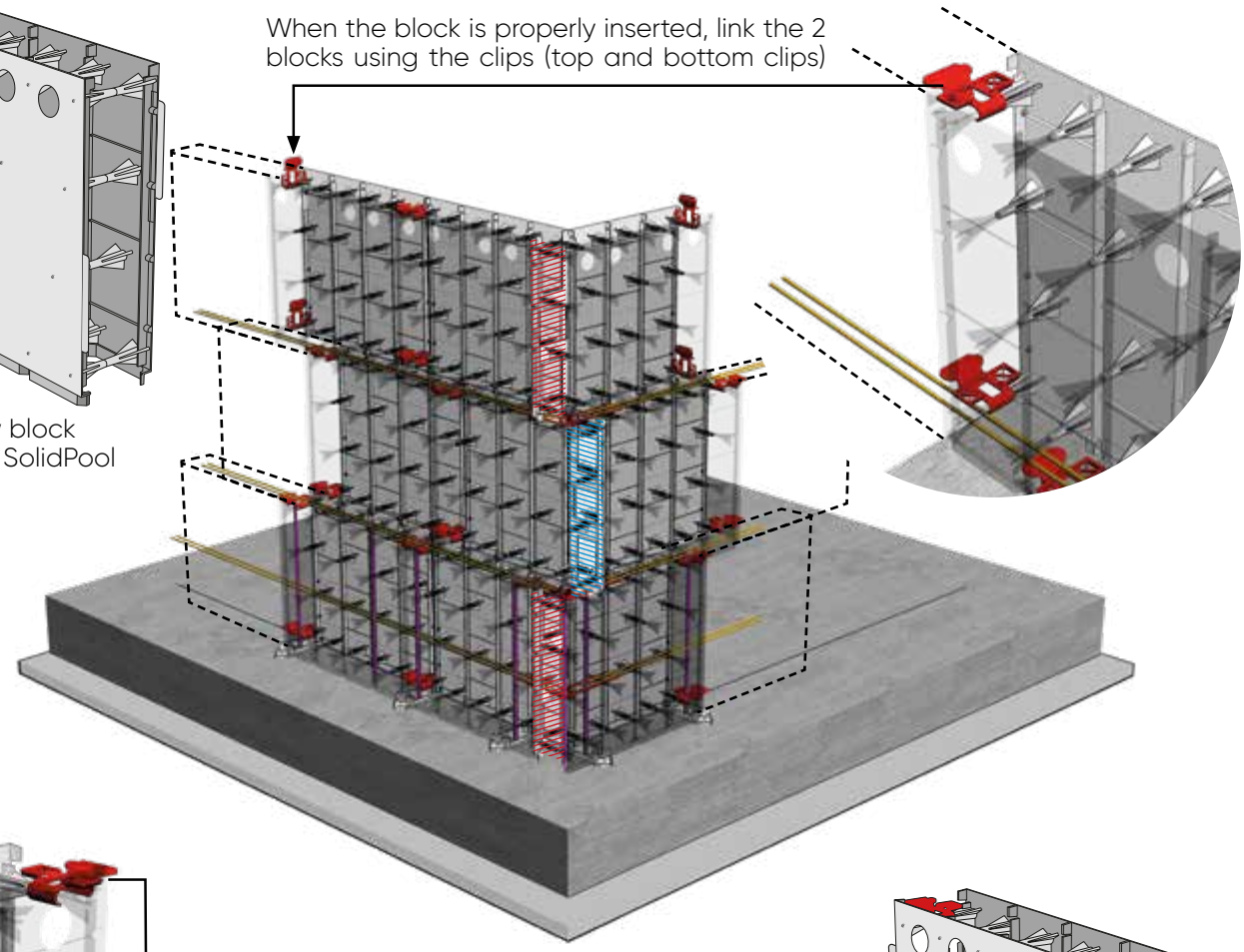


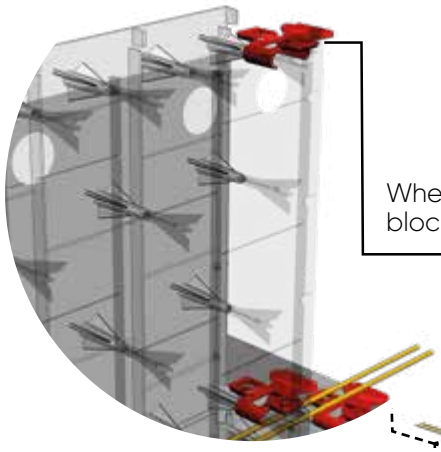
INSTALLATION OF THE 3RD ROW OF THE STRUCTURE



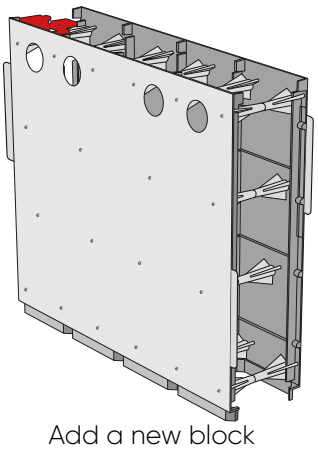
Add a new block
Openwork SolidPool

When the block is properly inserted, link the 2 blocks using the clips (top and bottom clips)

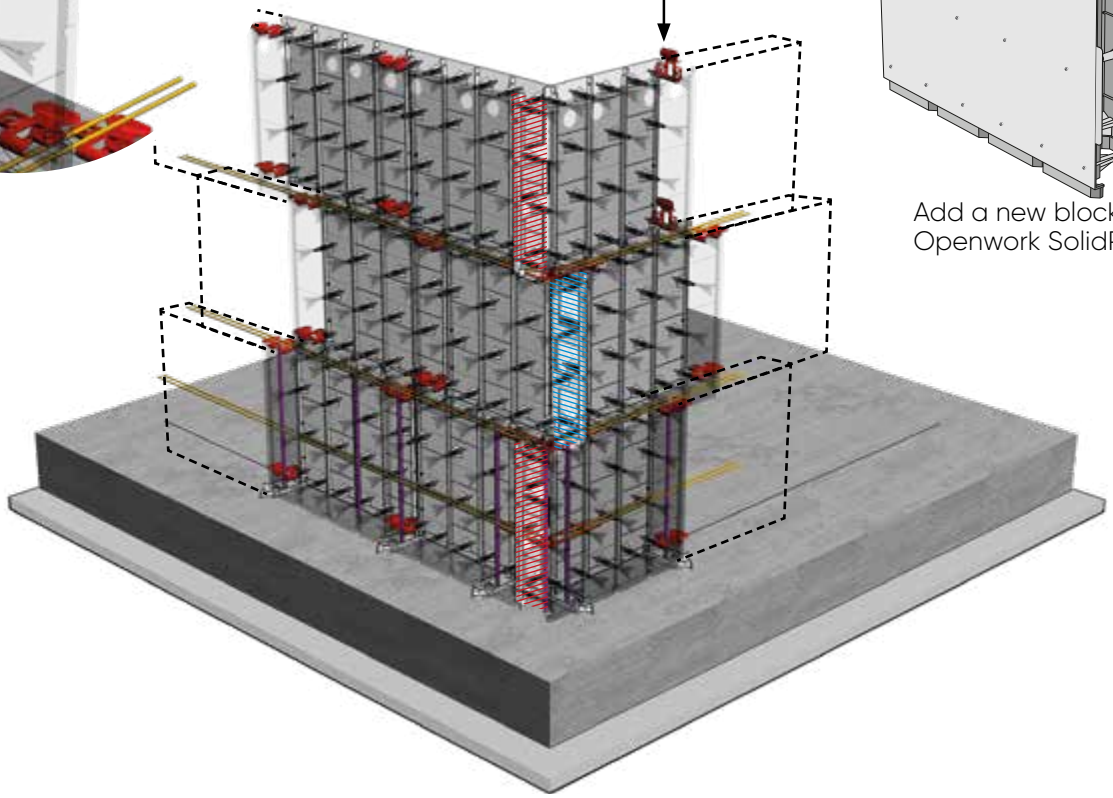




When the block is properly inserted, link the 2 blocks using the clips (top and bottom clips)



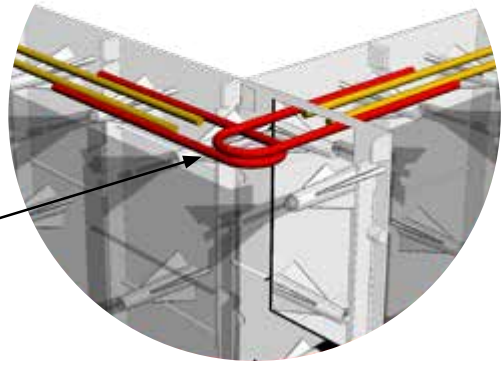
Add a new block
Openwork SolidPool



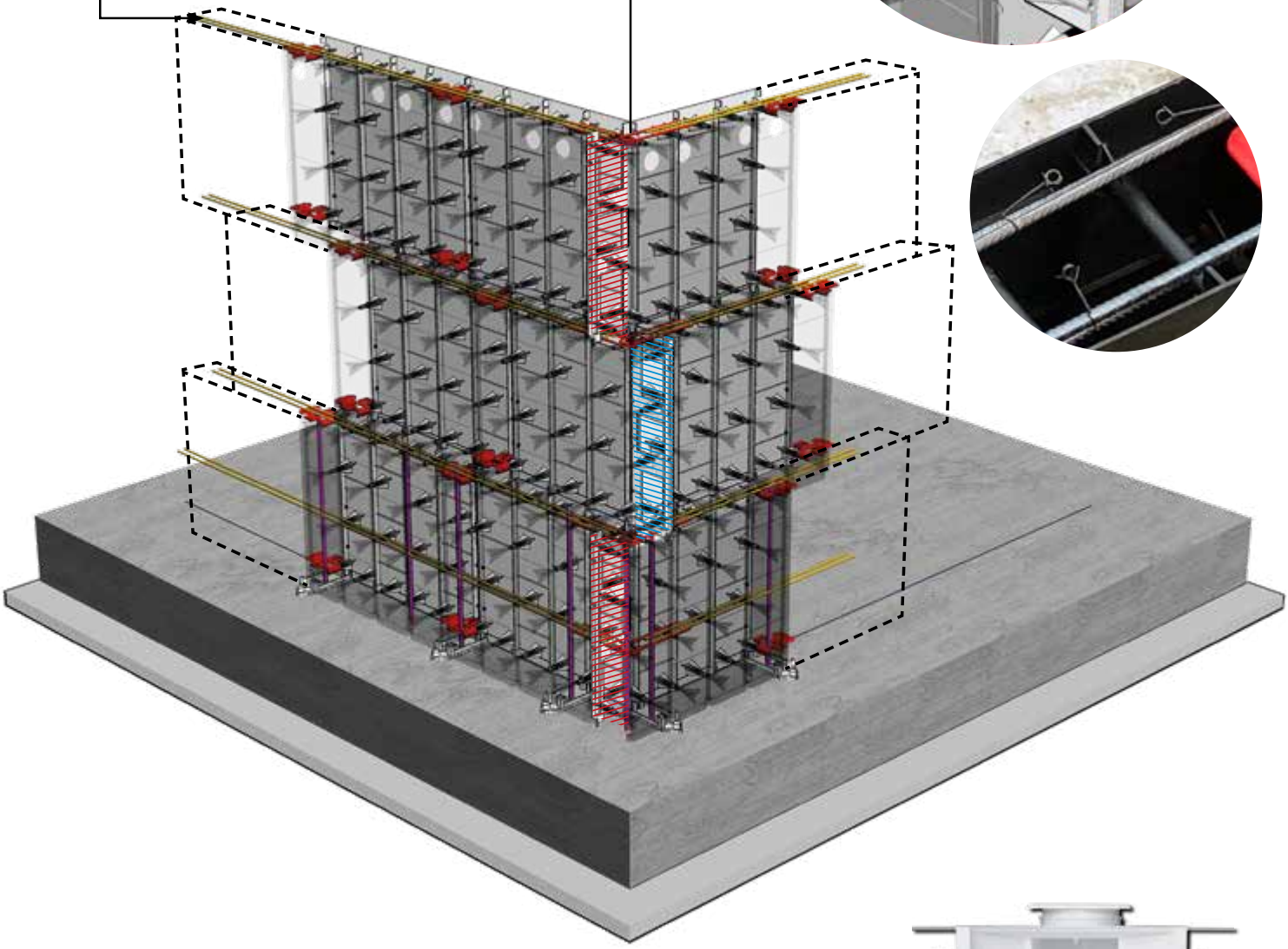
INSTALLATION OF THE 3RD ROW OF THE STRUCTURE

3 Install pins at each corner plus 2 running pins on each side

2 HA8 pins (50 x 50 mini) flat tied together, then tied them to each level of horizontal twist irons.



HA8 running on each side (e = approximately 0.53) (coverage= 40cm). That is 8 running HA8 per row



IMPORTANT !

Find on page 46 the parts to be sealed (skimmer(s), backflow, broom socket) to be positioned on the last row.

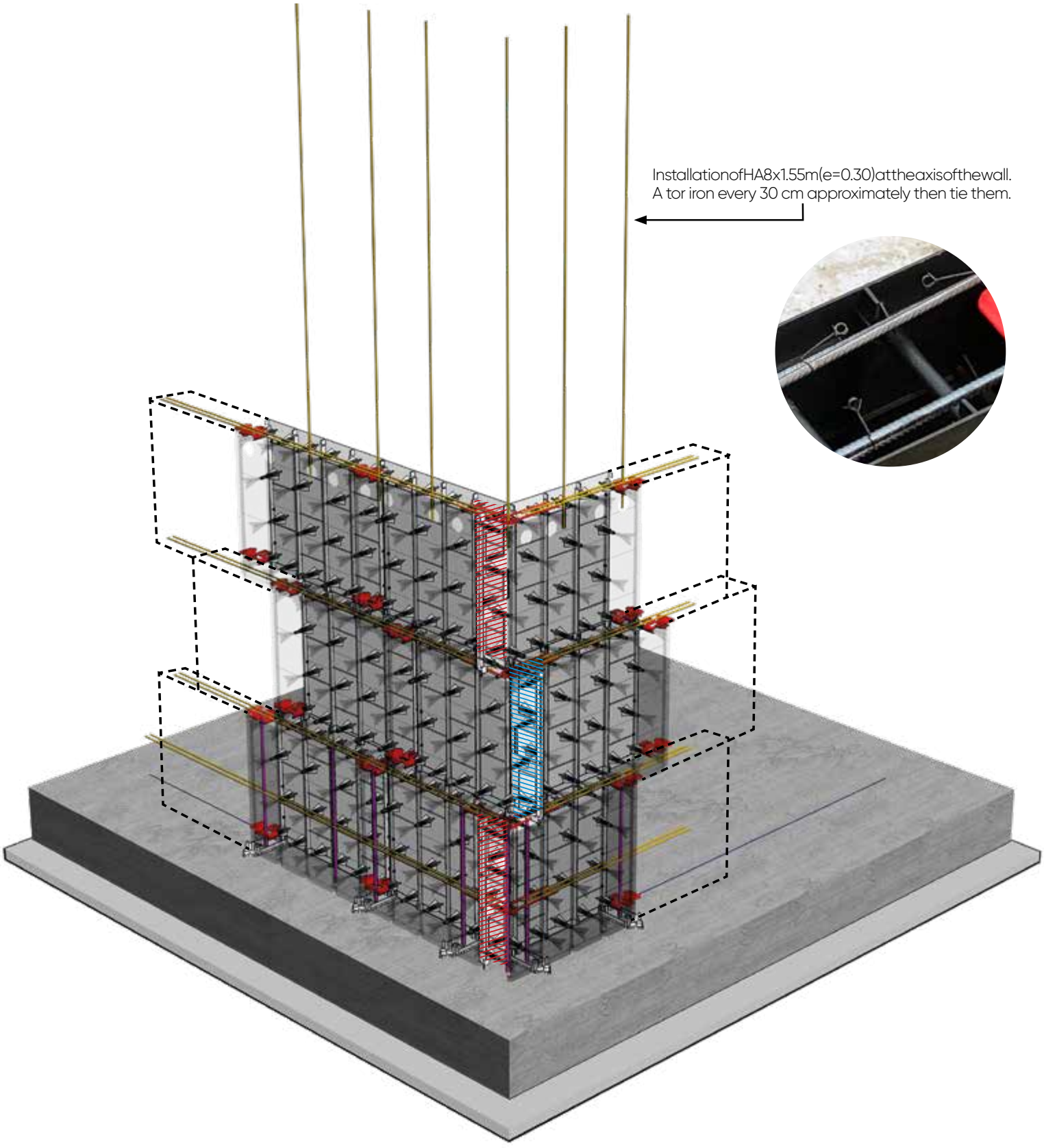
Broom socket

Skimmer(s)

Pushbacks

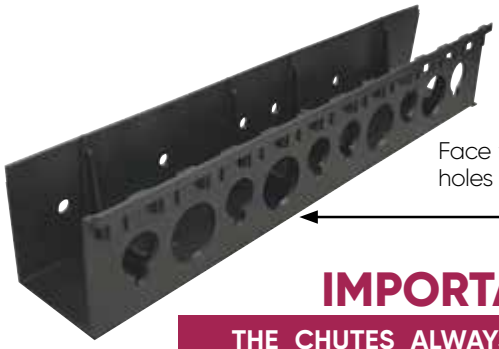
Balneo nozzle

INSTALLATION OF THE 3RD ROW OF THE STRUCTURE



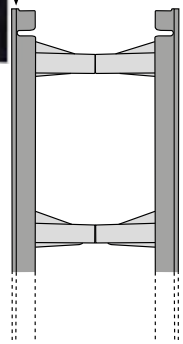
For all installations without openwork blocks and trunking: page 43. For all installations with openwork blocks and trunking: continue on the next page.

INSTALLATION OF CHUTES



Face that will clip against the holes of the perforated blocks.

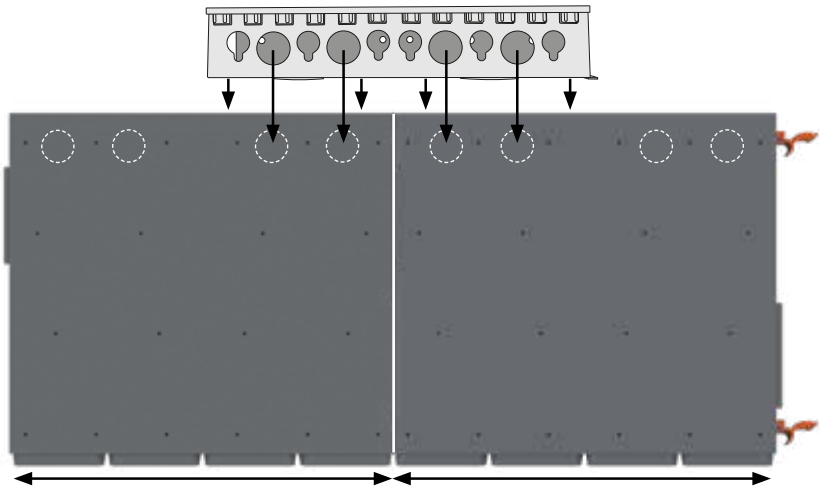
Click



Openwork block top

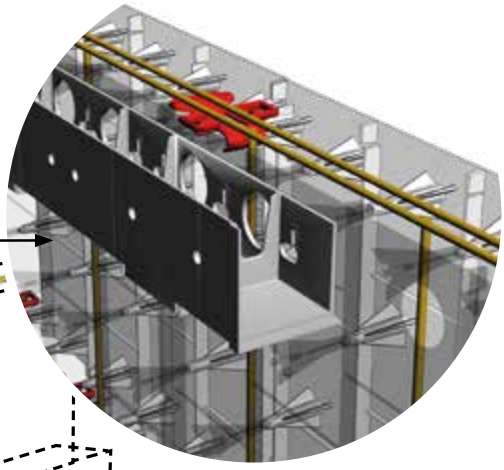
IMPORTANT !

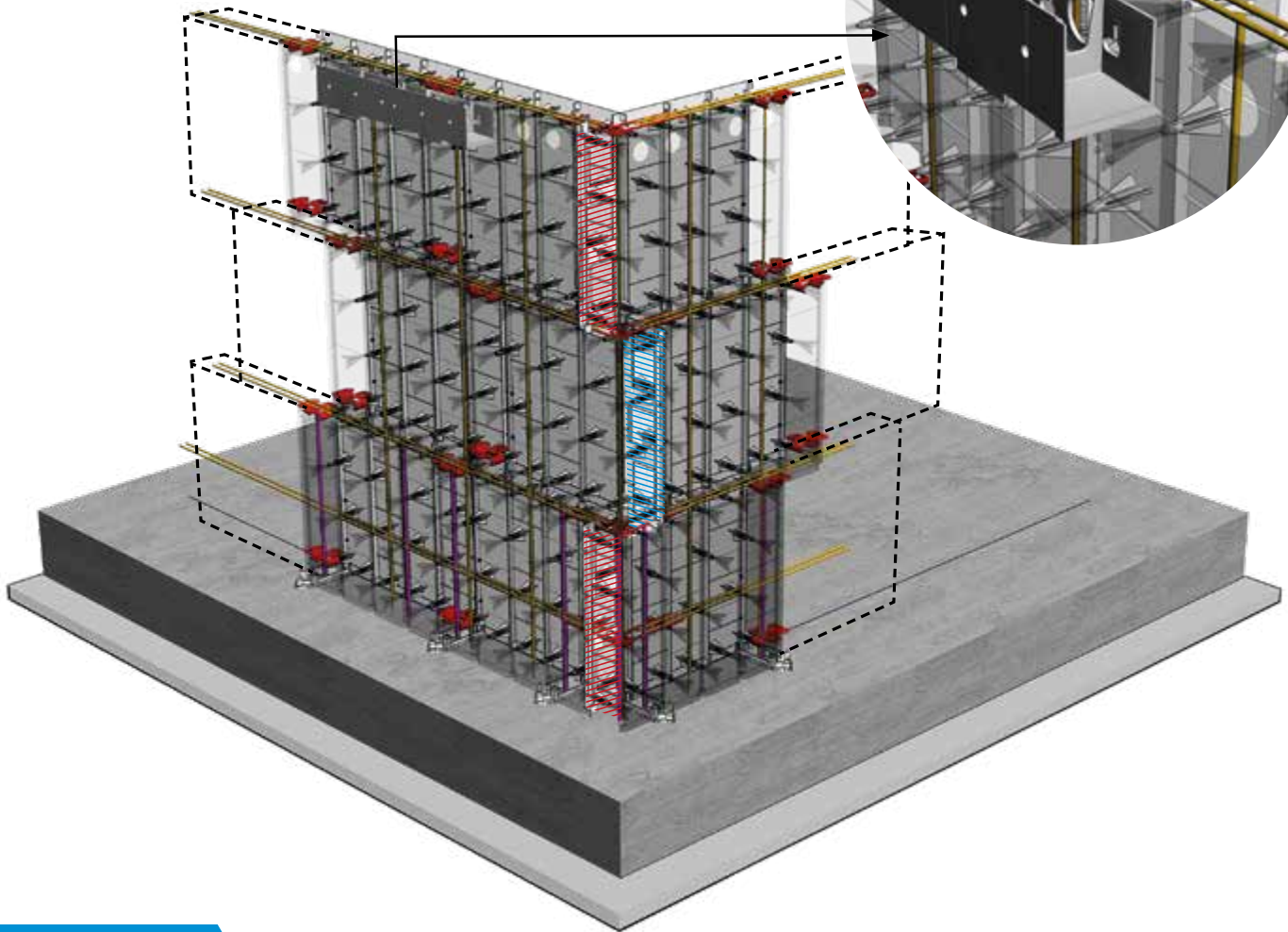
THE CHUTES ALWAYS CLIP AT THE JUNCTION BETWEEN TWO BLOCKS.



Openwork SolidPool block

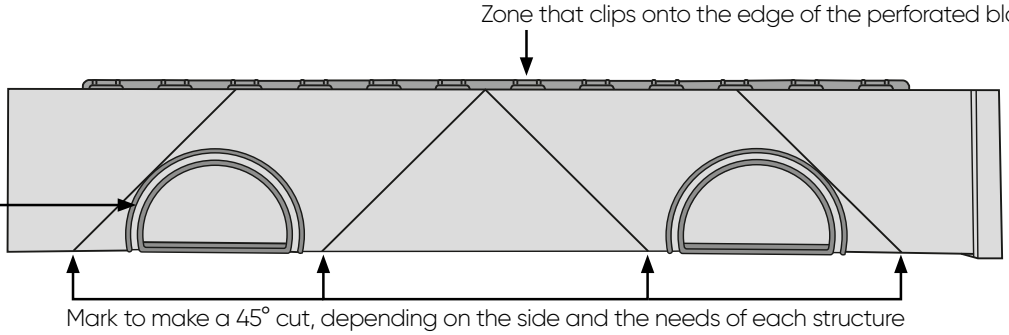
Openwork SolidPool block





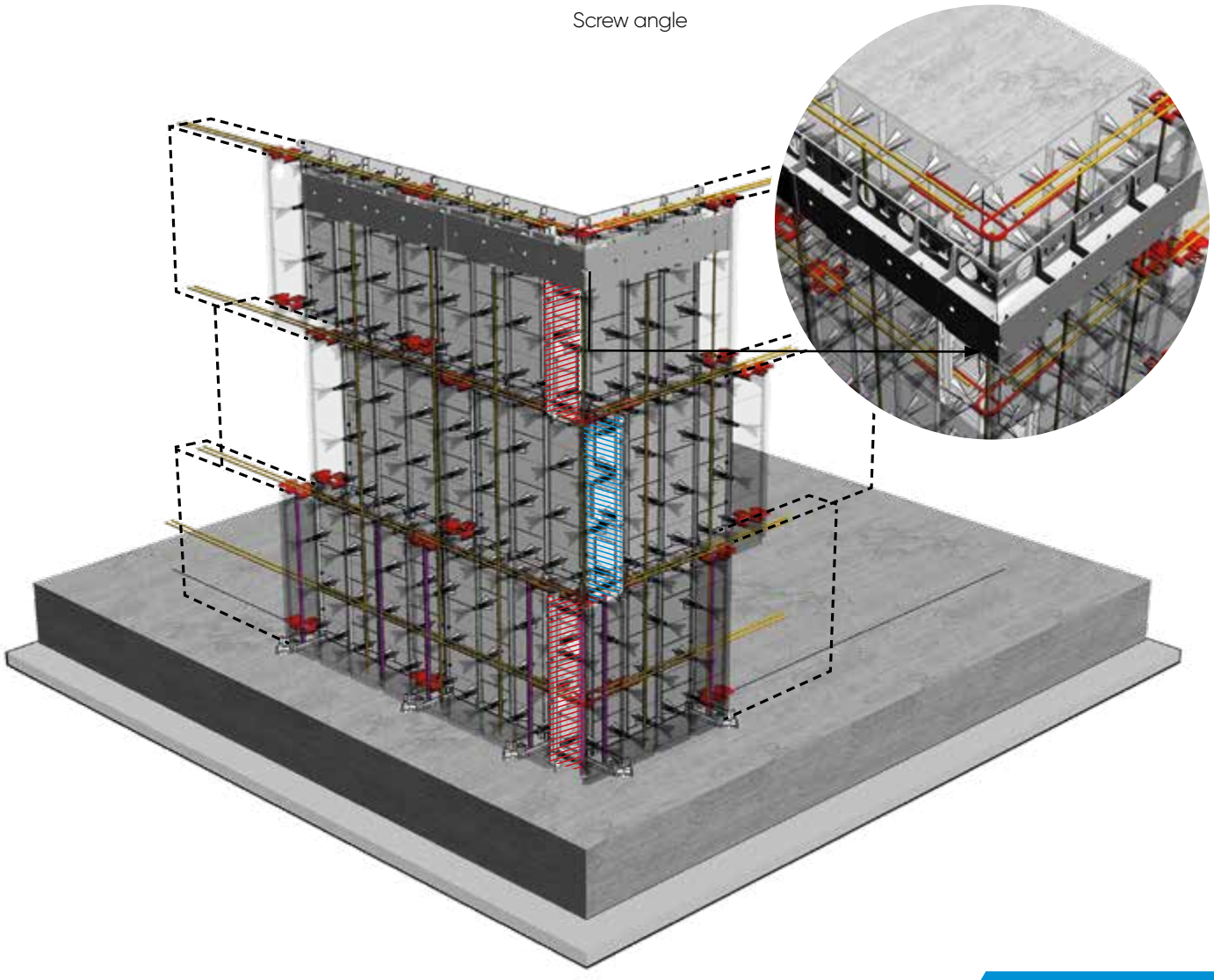
INSTALLATION OF CHUTES

Chute seen from below



It is also possible to add support "pillars" (PVC tube Ø 160 mm).
Consult us.

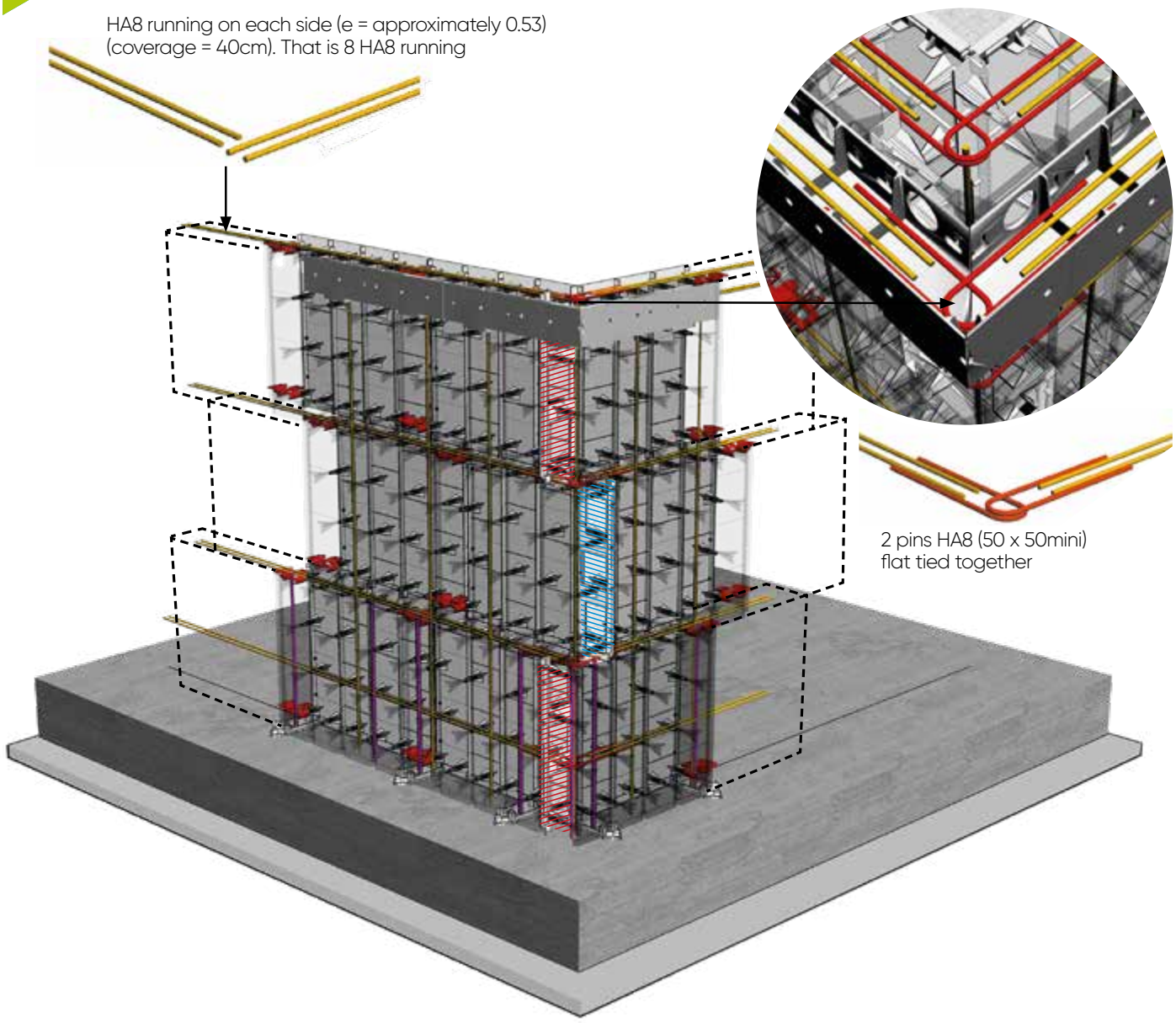
Screw angle



SolidPool
The pool with peace of mind

INSTALLATION OF CHUTES

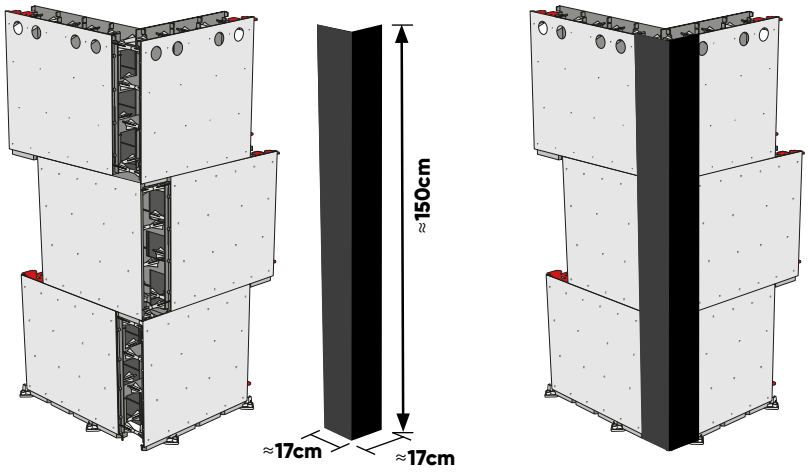
HA8 running on each side (e = approximately 0.53)
(coverage = 40cm). That is 8 HA8 running



2 pins HA8 (50 x 50mini)
flat tied together

INSTALLATION OF CORNER ANGLES

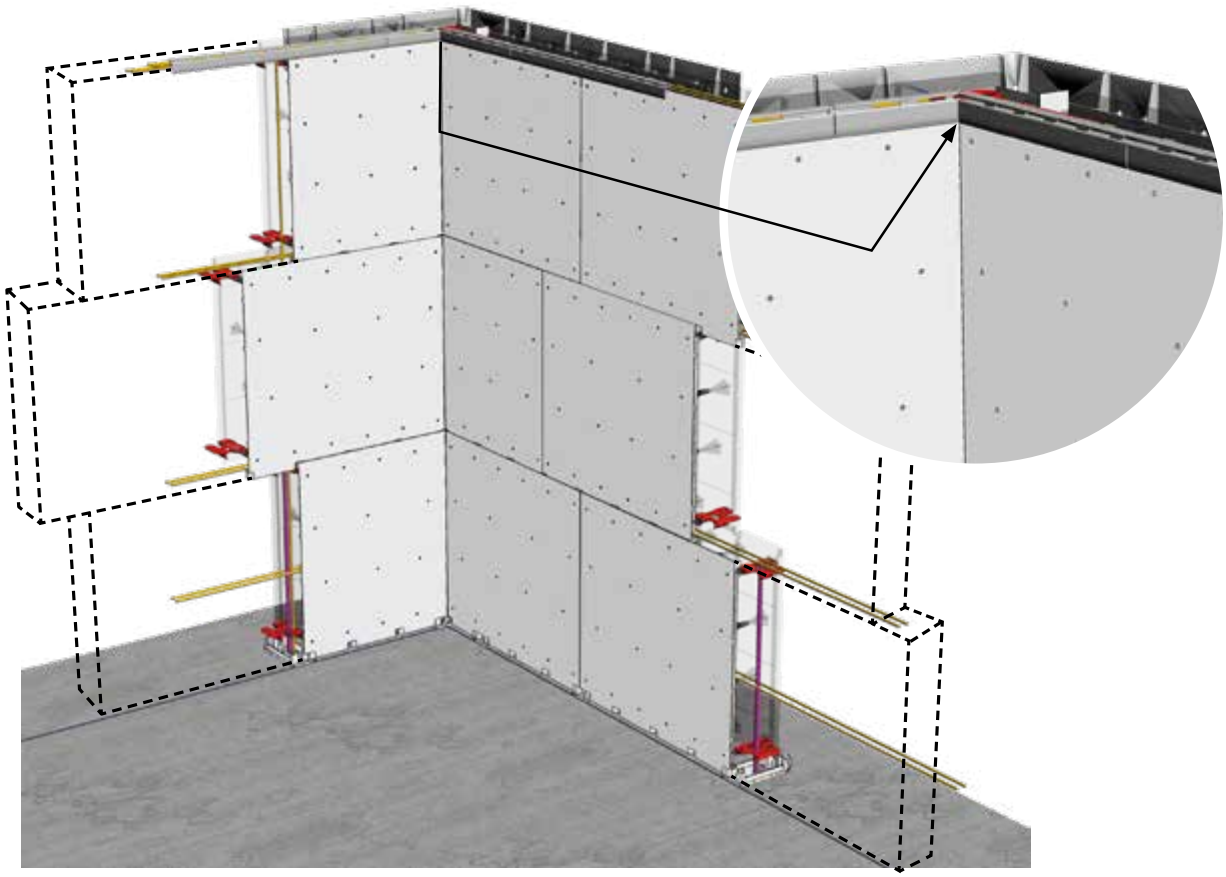
Prefabricated angle brackets supplied and to be screwed. (do not skimp on the quantity of screws).
To be applied to the 4 corners of the structure.



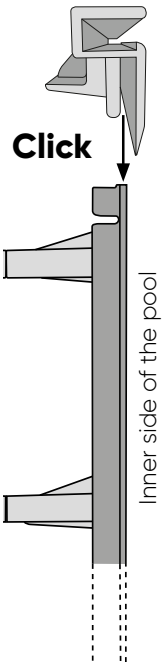
INSTALLATION OF PROFILES

IMPORTANT !

THE PROFILES ARE ALWAYS CLIPPED AT THE JUNCTION BETWEEN TWO BLOCKS.



Hung-type PVC profile fixed in the corner, straight cut, on top of the masonry for 90° corner copings.



Method 1:

Start by installing the profiles at the junction of two blocks (inner side of the pool) then continue all the way around.

A profile cutout of approximately 15 cm and 30 cm is to be expected. Look on your structure for the cutting dimension you will need.

Method 2:

Other possibility of fixing in the corner. Canted sides of 14 cm (edges at R.15). In this case put a corner foam of 10 x 10 x 14 during the installation of waterproofing

Put 2 turns of crystal tube inside the profiles. This allows during the pouring of the structure not to have concrete that dries inside the profile itself.

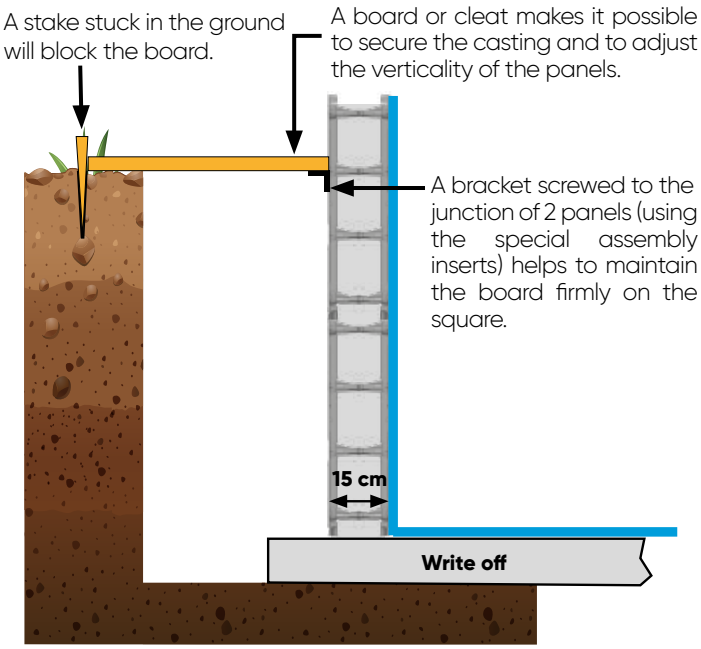
INSTALLATION OF PROPS

Method 1: SolidPool props

We start by placing a prop in front of the projector. Then we position a forestay approximately every 2 meters. (the projector is blocked with the first prop to prevent the niche from being ejected from the structure during the pouring of the concrete)

Other solution : fix a wooden board in front of the projector

Method 2: stakes and planks



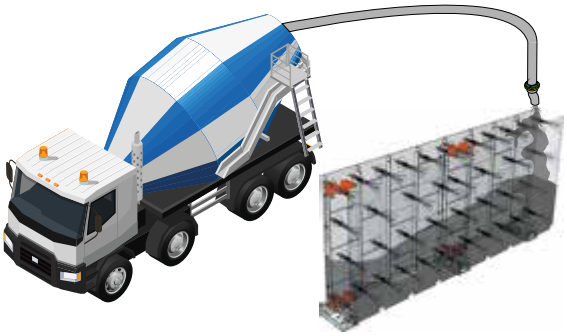
Method 3: mason props/ traditional props

GENERAL INFO:

- A **limited volume of concrete,** filling with a concrete mixer is therefore possible
- **Easy pouring :** the rigidity of the assembled structure allows minimum wedging

The plumbness of the walls and their alignment should be checked after the pouring of the concrete and before its final drying.

CONCRETE FILLING



Casting in a single pass, we let the concrete escape and we move forward. We tap with a mallet on the so-called hollow areas at the level of the projector(s) and skimmer(s) for a good filling.

We recommend using **plant concrete**, ready to use. Casting can thus be done easily and quickly using a carpet, a pump, etc. Concrete to the **C25/30 standard**, commonly used in construction, guarantees a concrete compressive strength of 25 MPa after curing for 28 days. The ideal viscosity is 10 at the Abrams cone.

If using a pump, pour concrete at low speed with an "S" slowdown on the pipe, in one or two passages depending on the height of the pool.

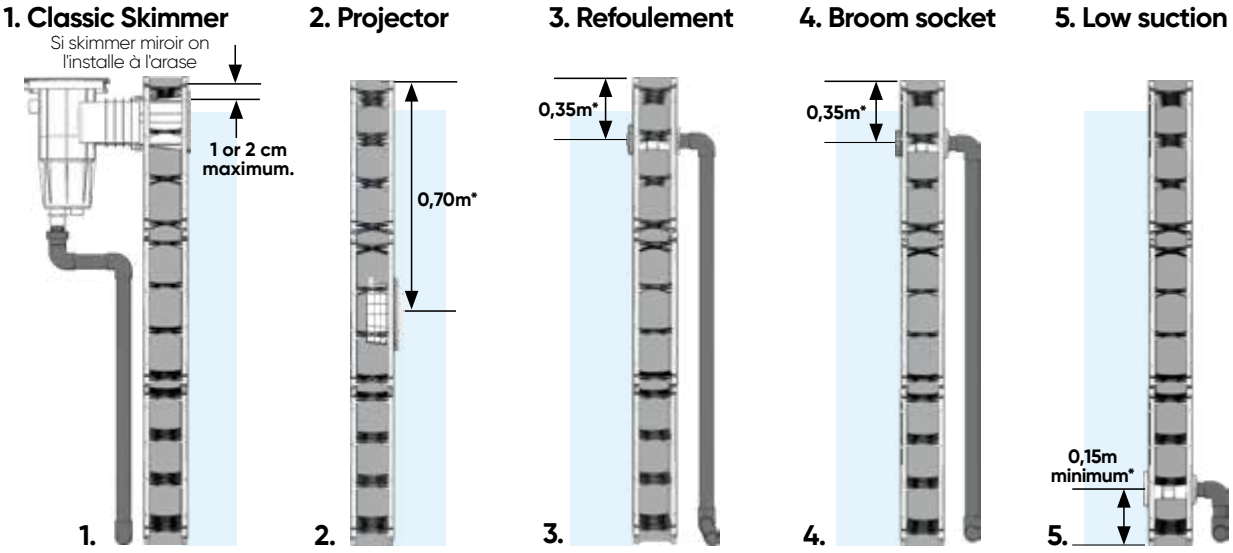
However, if you wish to prepare the concrete with the **concrete mixer,** the quantities for one cubic meter dosed at 350 kg are :

- 350 kg of CP J 45 cement
- 800 kg of gravel Ø 6.3 to 16
- 400 kg of sand Ø 0.08 to 6.3
- 170 liters of water

In any case, it should not vibrate. The blocks are designed so that the concrete flows evenly. Only **SolidPool Tile Finish blocks** will accept a very brief, very slight vibration with a small "needle". You can tap lightly with a (rubber) mallet to drive out the air bubbles, mainly around the skimmers and spotlights in areas where the concrete has had the most difficulty flowing.

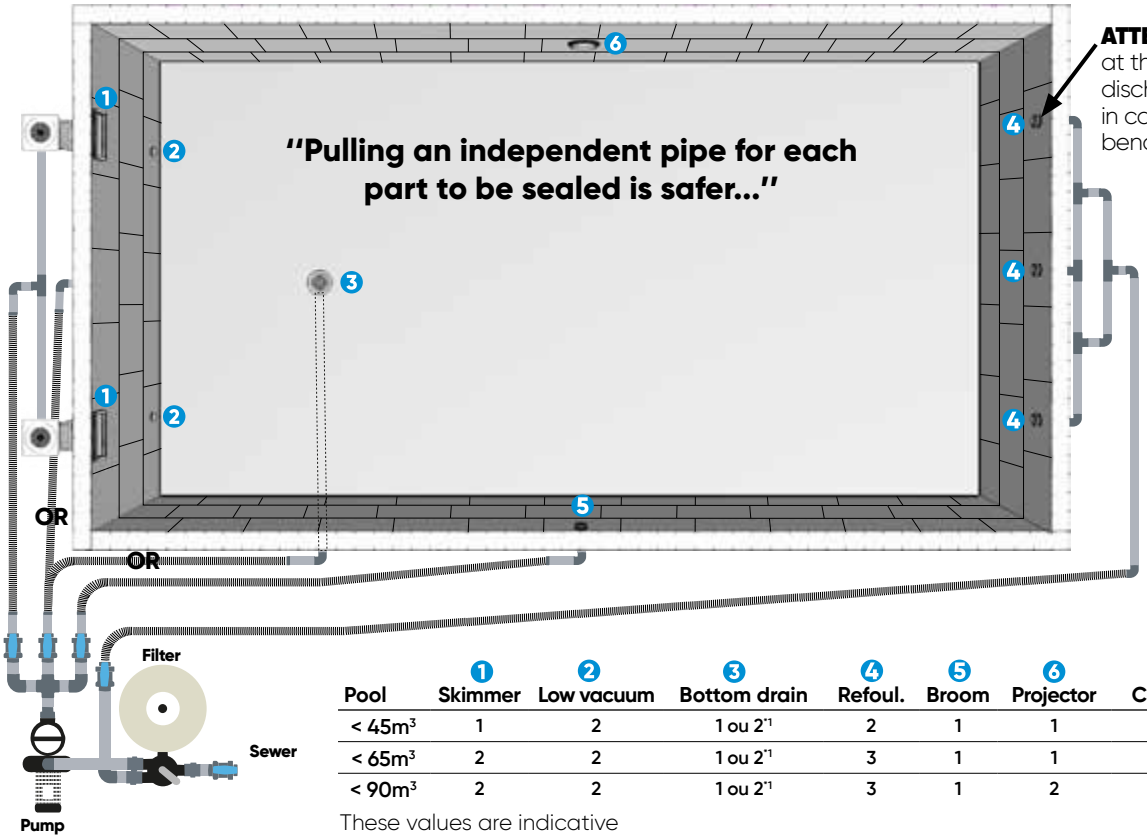
ARRANGEMENT OF THE PARTS TO BE SEALED

1 STANDARD LAYOUT OF THE PARTS TO BE SEALED



*These values are indicative

2 DISTRIBUTION OF ROOMS TO BE SEALED



Pool	① Skimmer	② Low vacuum	③ Bottom drain	④ Refoul.	⑤ Broom	⑥ Projector	Connection box
< 45m³	1	2	1 ou 2*1	2	1	1	1
< 65m³	2	2	1 ou 2*1	3	1	1	1
< 90m³	2	2	1 ou 2*1	3	1	2	2

These values are indicative

TRICK :
Either a bottom drain or low suctions are installed. *1 Only one main drain is installed if it is anti-vortex if they are not, two must be installed at a minimum distance of 70 cm between the two (the 2 must be connected together and not necessarily balanced). If you use a booster, you go rigid on the broom socket to the technical room. We pass everything in rigid pipes to go down to the support of the concrete slab then we can pass in flexible pipe. We put about 20 cm to 30 cm of sand on all the pipes that rest on the concrete slab. We always position the projector(s) on the main terrace side to avoid having the light projected into the house.

A specific layout is required for L-shaped, Bean-shaped, Lazy and other free-form pools.

SOLIDPOOL SEALING PARTS

BACKFLOWS AND THE BROOM SOCKET :

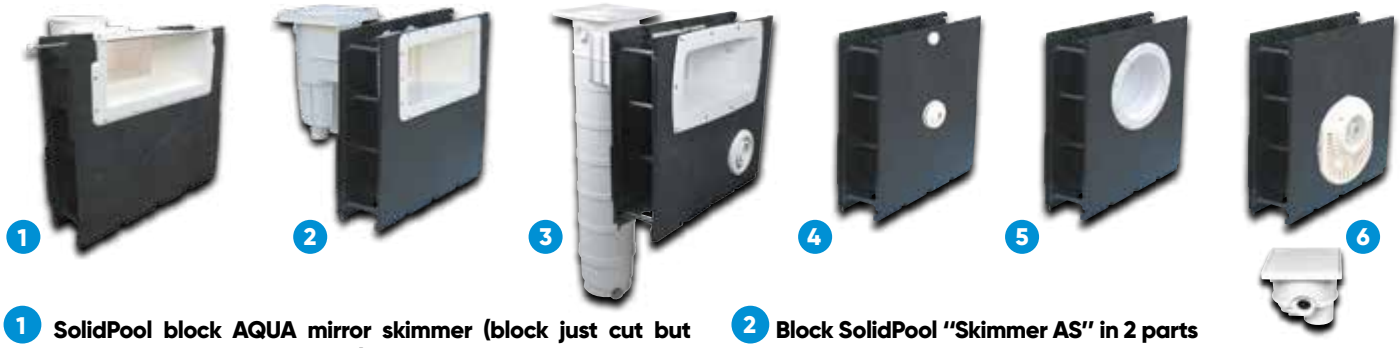
The return nozzles are installed according to your staircase or your bench. Make a mark centered 35 cm from the top of the block then drill with a Ø 82 mm hole saw on the front side and Ø 63 mm on the back side of the block. Identical installation for the broom socket.

Refoulement

Broom socket

Low suction

OUR SEALING PARTS CAN BE ORDERED ALREADY INSTALLED



1 SolidPool block AQUA mirror skimmer (block just cut but installation of the skimmer on site)
Allows to raise the level a - 5 cm from the level instead of -12 cm!

3 BALNEO SolidPool Filter Block
Allows the recovery and skimming of surface water, its nozzle dual venturi allows effective massage and stirring very powerful water. Filtration 15 m³/h, mixing 30 m³/h, filtration fineness 15 µ. Venturi nozzle with balneo effect.

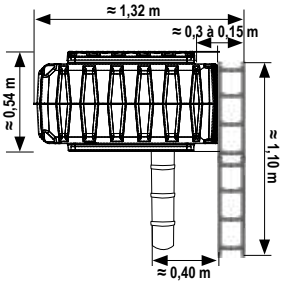
5 SolidPool block with niche and cable passage for led projector (LED projector to be added).

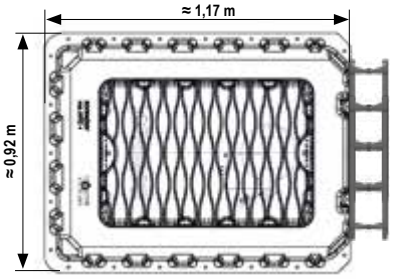
2 Block SolidPool "Skimmer AS" in 2 parts
Allows the recovery and skimming of surface water, its role is essential, it must take up at least 50% of the total flow of the filtration. It is installed facing the prevailing winds, a skimmer absorbs 6 to 10 m³/h of flow.

4 SolidPool block with whirlpool nozzle and air control.
The whirlpool nozzle for stairs requires 5.6m³/h: supplied with a air control with flange.

6 Countercurrent SolidPool block. Nozzle for swimming against the current alone. Add pump, NCC box and pipes.

THE SUPREME EVO WALL SOLUTION:



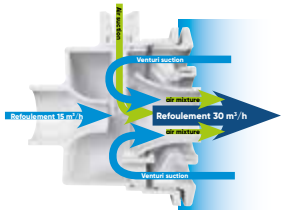


THE RECOMMENDATIONS :

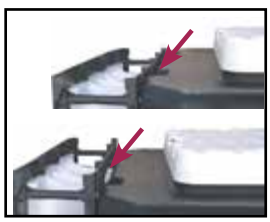
The electrolyser boxes are to be offset, the electrical box must be at the start of food. It is strongly recommended to put home automation to be able to control your equipment remotely. With the **Supreme EVO** wall, it is recommended to put a by-pass in anticipation of a heat pump and to pull the pipes well in anticipation of a heat pump.

Choose : **Included :**

High pump temperature



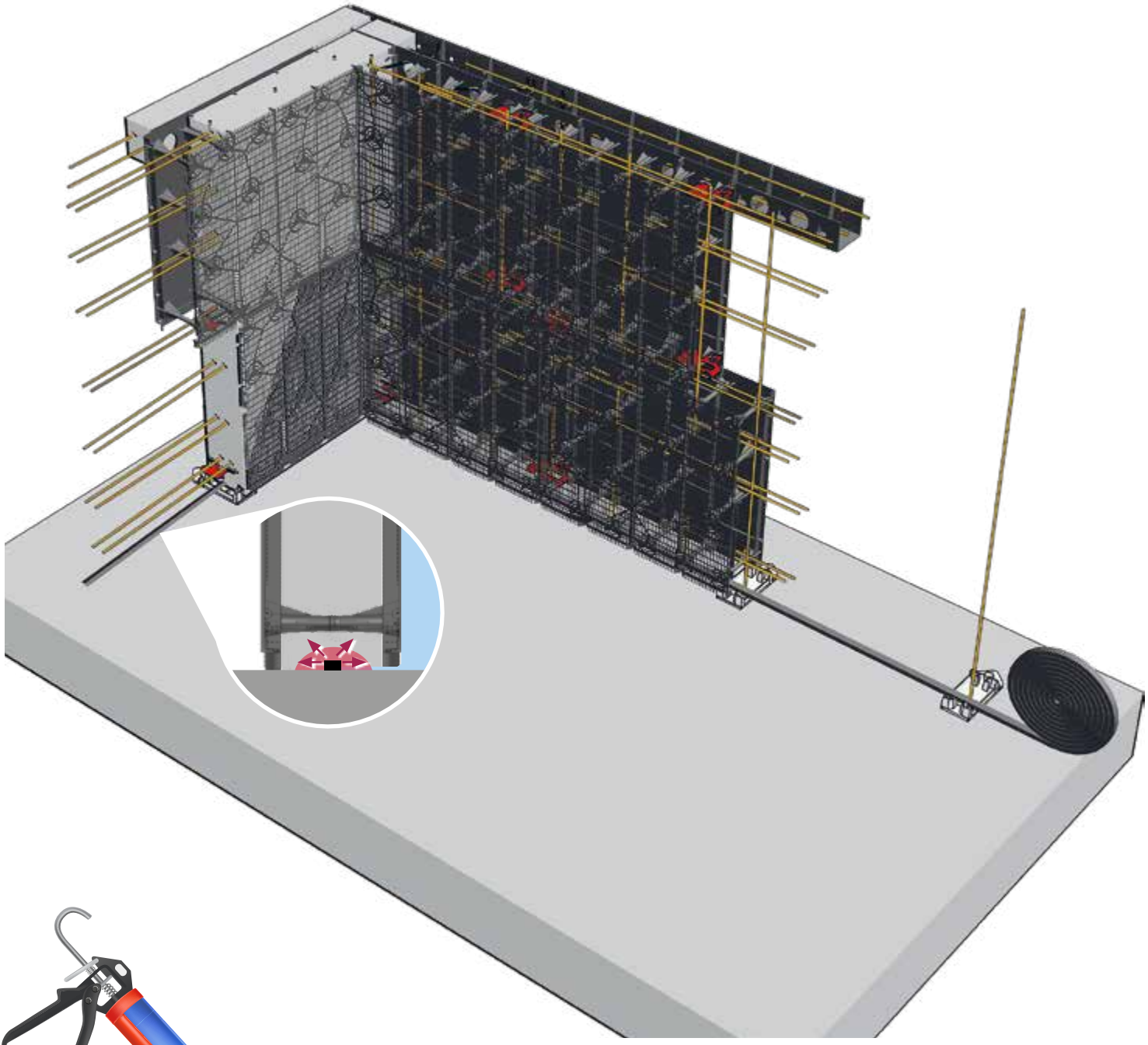
Return nozzle venturi effect, mixing 30m³/h



Height of the adjustable leveling

Very strong rotomolded polyethylene tank.

SOLIDPOOL TILE POOLS

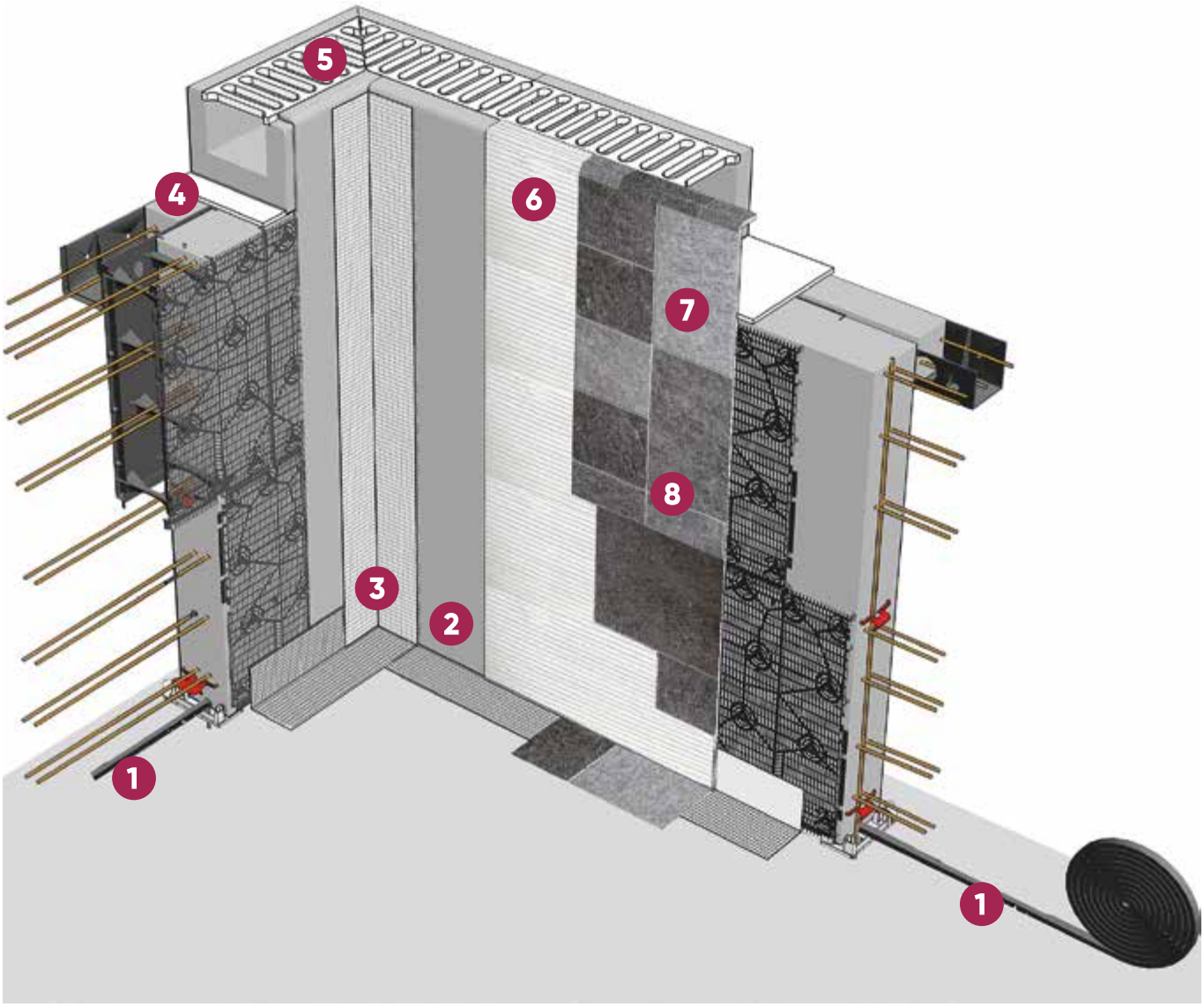


As for a **"traditional"** reinforced concrete structure:

- a **hydroexpensive seal** will seal the wall/slab junction
- **corner reinforcement nets** will be placed on the vertical edges and horizontal
- a **sealant** will be carefully applied over the entire surface
- particular attention will be paid to the tightness of the connection castings / concrete

Either way, seek professional advice.

SOLIDPOOL TILE POOLS



1 Hydroexpensive seal 2 Waterproofing coating, waterproof and elastic mortar-membrane (polyurethane, etc.)
3 Corner reinforcement net (fiberglass) 4 Mastic / waterproof glue / cement water-repellent joint under the channel
5 Prefabricated gutter for overflow (information on request) 6 Cement glue
7 Tile, Mosaic 8 Epoxy seal

Non contractual document. Consult specialist material manufacturers

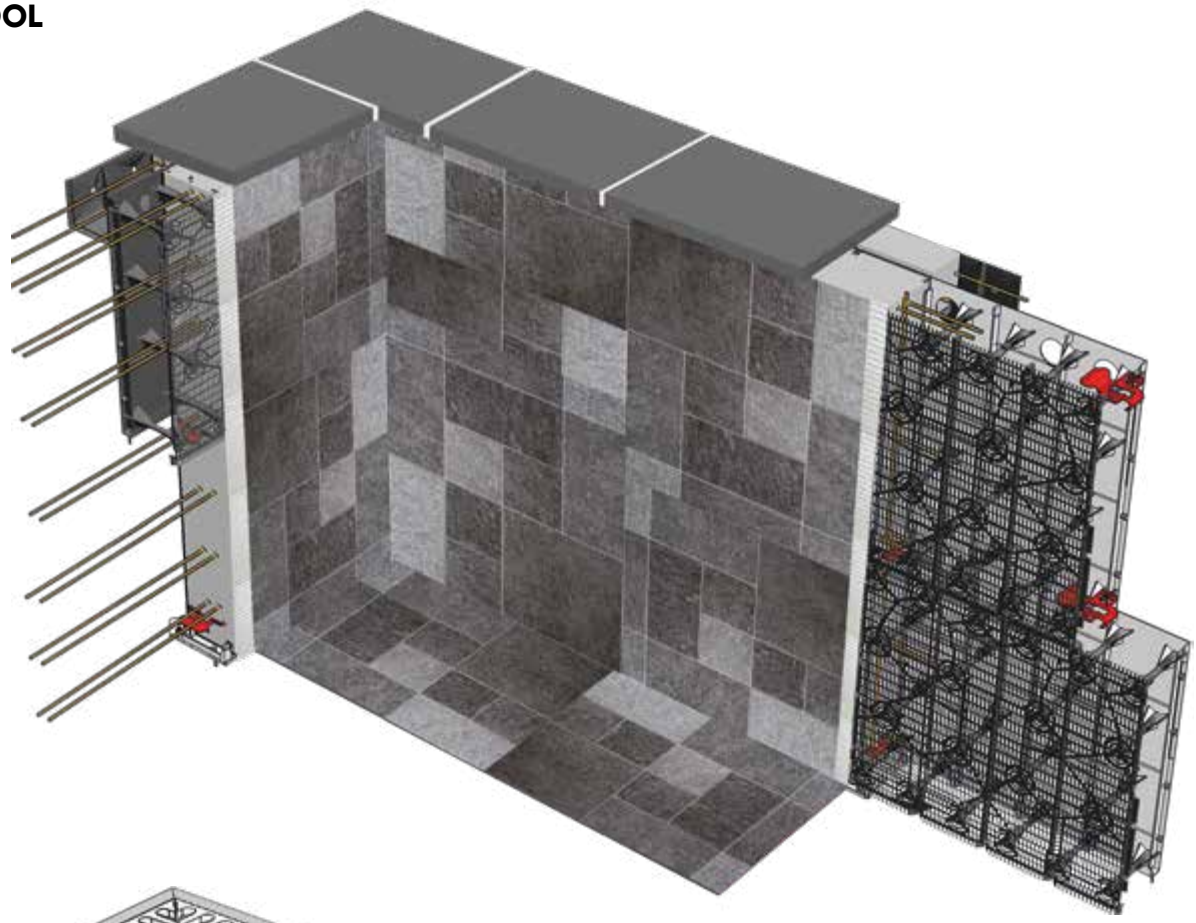
MANY **VIDEOS AVAILABLE ON :**

YouTube

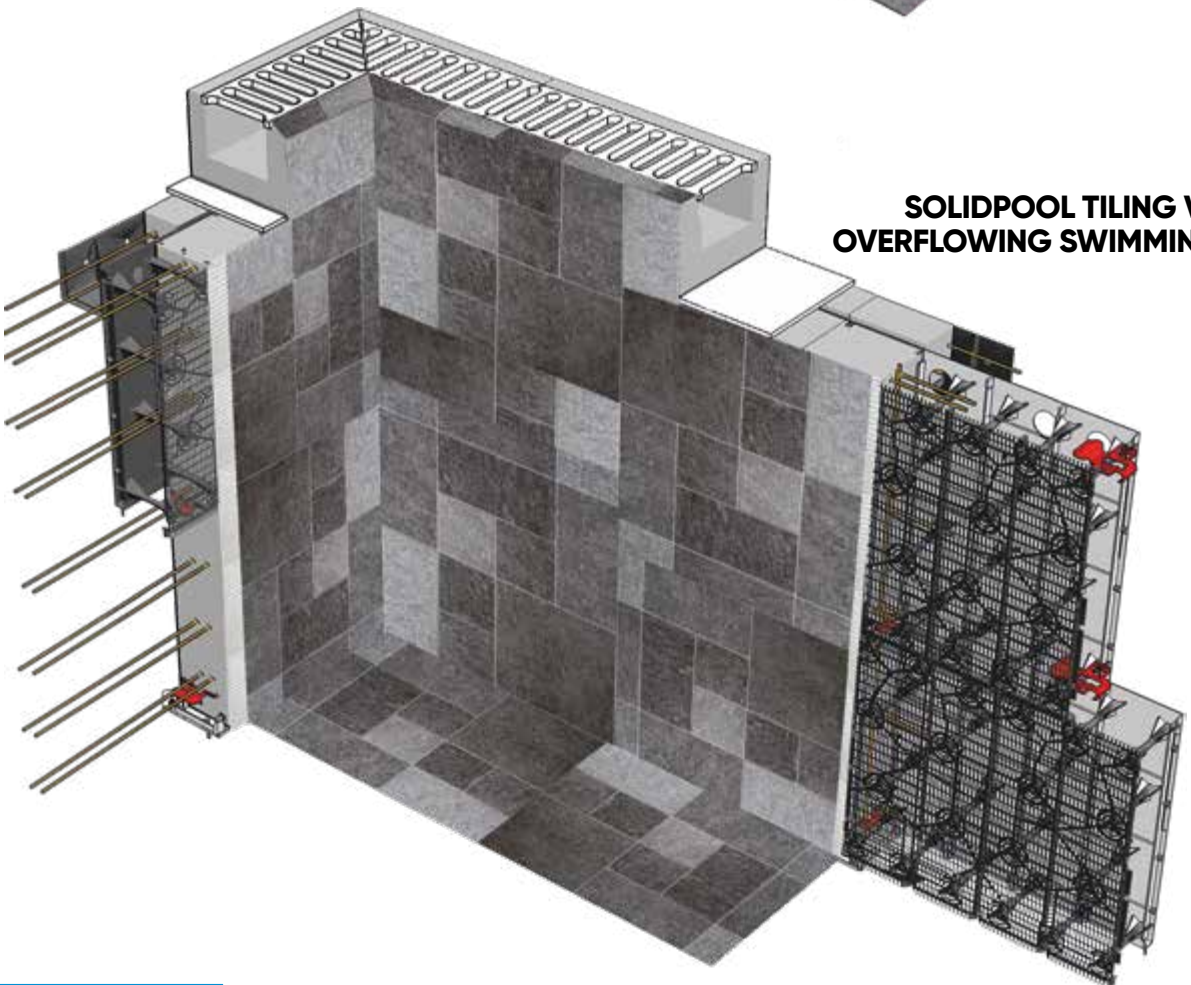
SOLIDPOOL

SOLIDPOOL TILE POOLS

SOLIDPOOL TILING VERSION COPING POOL



SOLIDPOOL TILING VERSION OVERFLOWING SWIMMING POOL



LIST OF MATERIALS FOR CONSTRUCTION

Lead wire

Grease pencil

Tracing line

Double decameter

Meter of 5 m L minimum

Level

Cutter

Sledgehammer

Tornado binder

Crown links 100mm

Puncher with concrete wick of 10 with trephine

Bolt cutter

Jigsaw

OR

Circular saw

Hole saw: 50mm, 63mm + 82mm

Grinder Diameter 115mm or 125mm

End Disc metal + concrete + plastic / wood

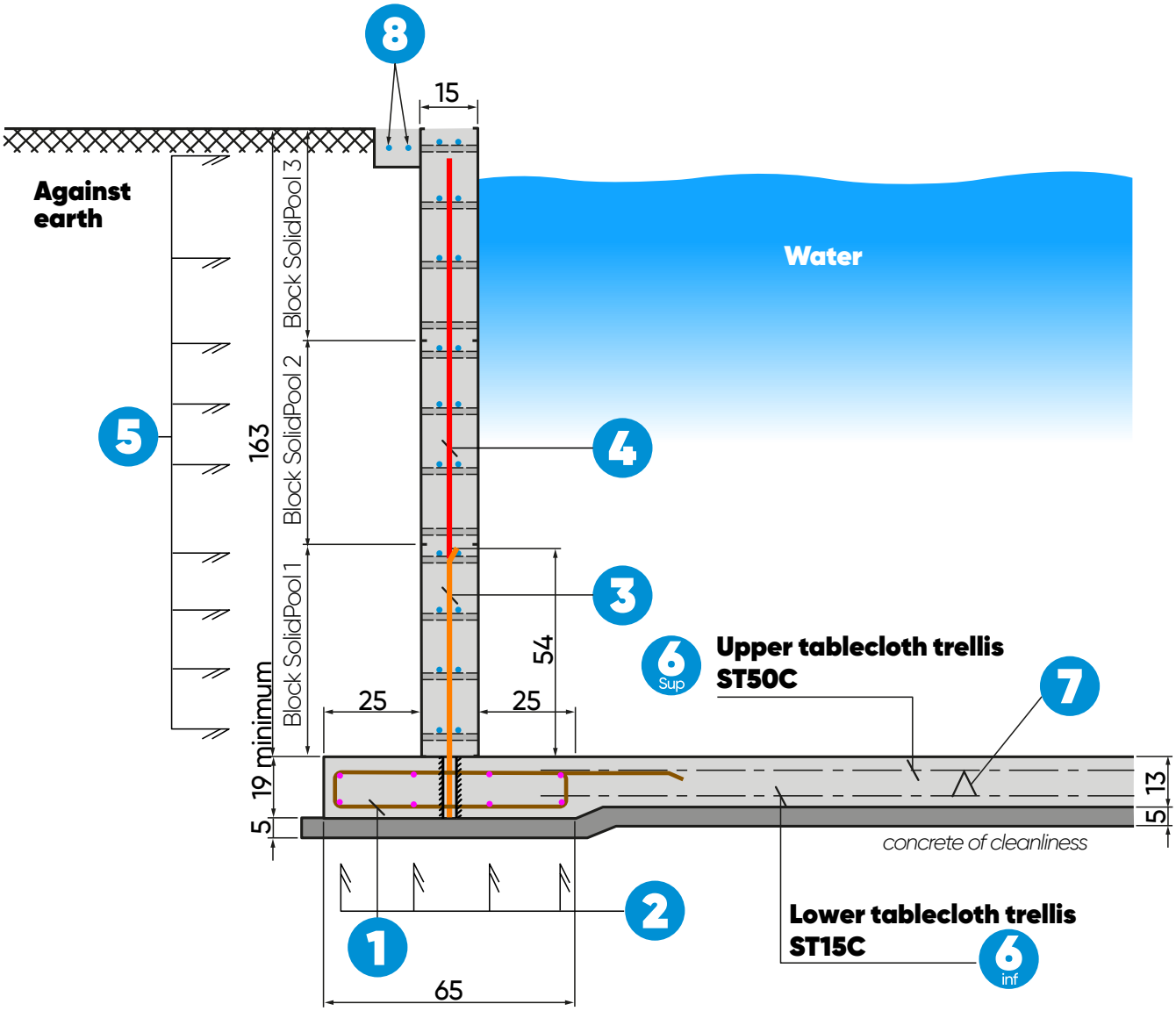
Screwdriver with Phillips PZ2 + Torx 30 bit

Concrete bit Ø 12 in 600 mm Ø 5 mm + hitting rivets 5 mm

INDIVIDUAL PROTECTION EQUIPMENT

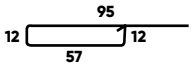
1. Ear protection **2.** Eye protection **3.** Protection respiratoire
4. Body protection **5.** Hand protection **6.** Foot protection

TILE REINFORCEMENT PLAN



Legend :

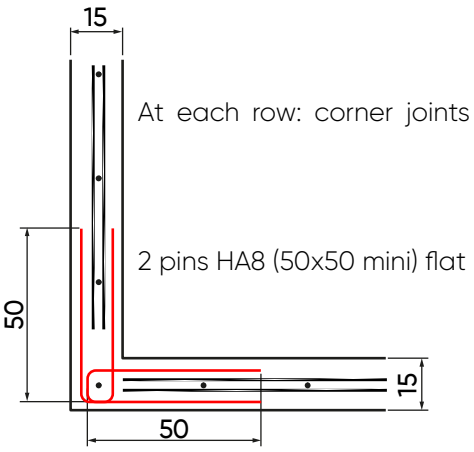
1. HA10 x 1.90m (e=0.20)



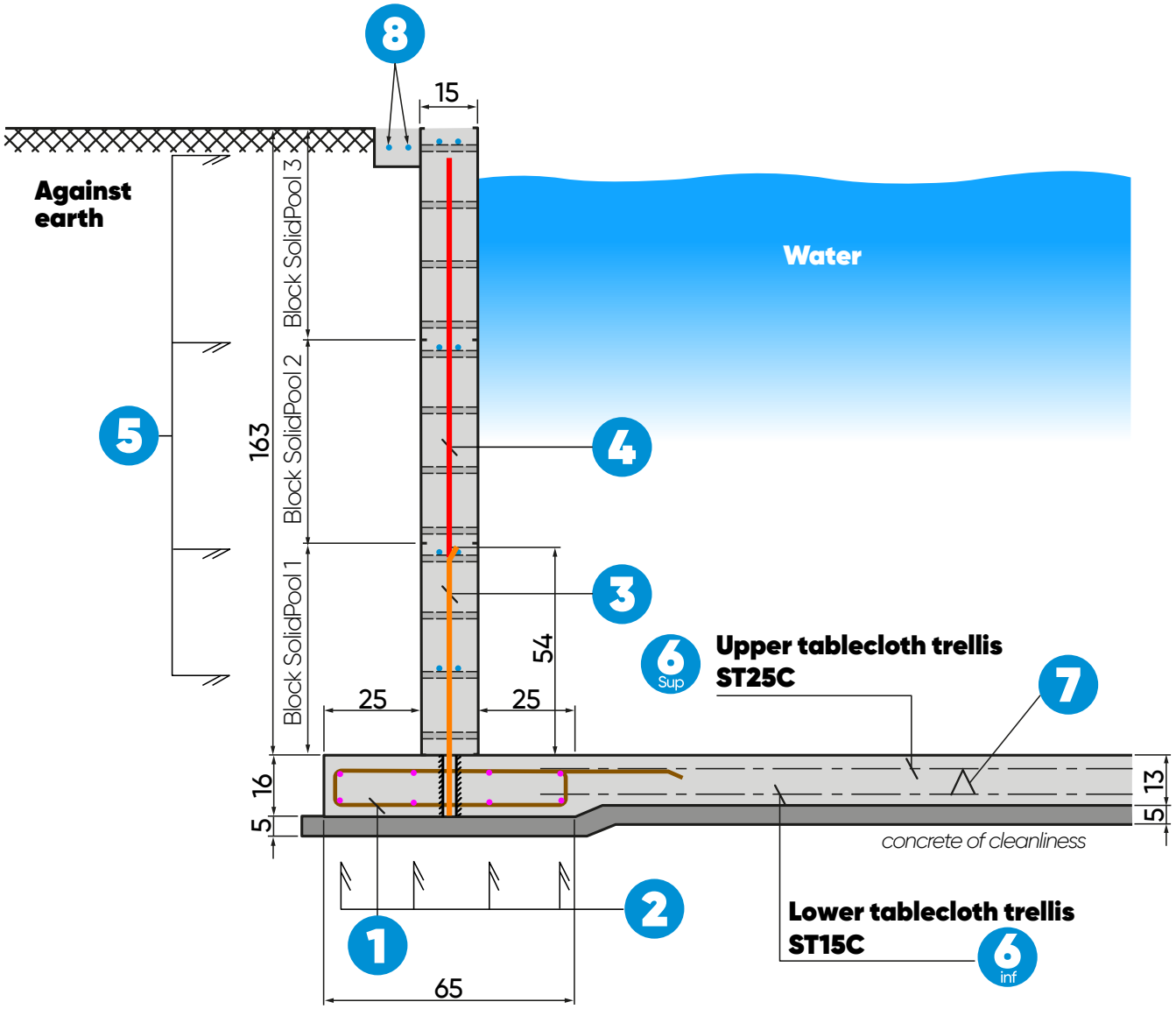
2. 8HA8 spinners (r=40cm)
3. HA14 x 0.75m (e=0.20)
   Mortared without shrinkage
   Hole diameter: Ø35mm

4. HA10 x 1.55m (e=0.20) on each side

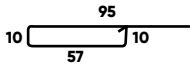
5. HA8 running on each side (e=0.20 average) (coverage=40cm) i.e. 20 HA8 running
6. Welded wire mesh
   Top layer: ST50C (coverage=40cm)
   Lower tablecloth: ST15C (coverage=30cm)
7. Tablecloth spacers height=5cm
8. 2HA8 spinners (r=40cm)



PLAN OF REINFORCEMENT LINER / PVC WEAPON



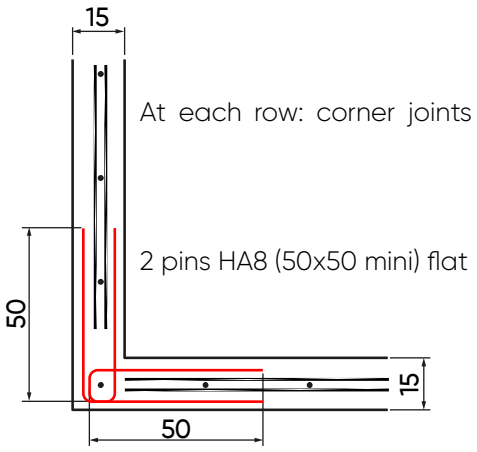
Legend :

1. HA8 x 1.90m (e=0.20) 

2. 8HA8 spinners (r=40cm)
3. HA12 x 0.70m (e=0.30)
   Mortared without shrinkage
   Hole diameter: Ø35mm
   

4. HA8 x 1.55m (e=0.30) at the axis of the wall 

5. HA8 running on each side (e=0.53 approx.) (coverage=40cm) i.e. 8 HA8 running
6. Welded wire mesh
   Top layer: ST25C (coverage=40cm)
   Lower tablecloth: ST15C (coverage=30cm)
7. Tablecloth spacers height=5cm
8. 2HA8 spinners (r=40cm)



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