



PARKITECT®

MODULAR PUMPTRACK



ASSEMBLY GUIDE

MODEL: FIBERGLASS V4
Cruiser



Manufacturer:

PARKITECT s.r.o.

Valašská Polanka 393

756 11 Valašská Polanka

IČ:27774406

Order number:



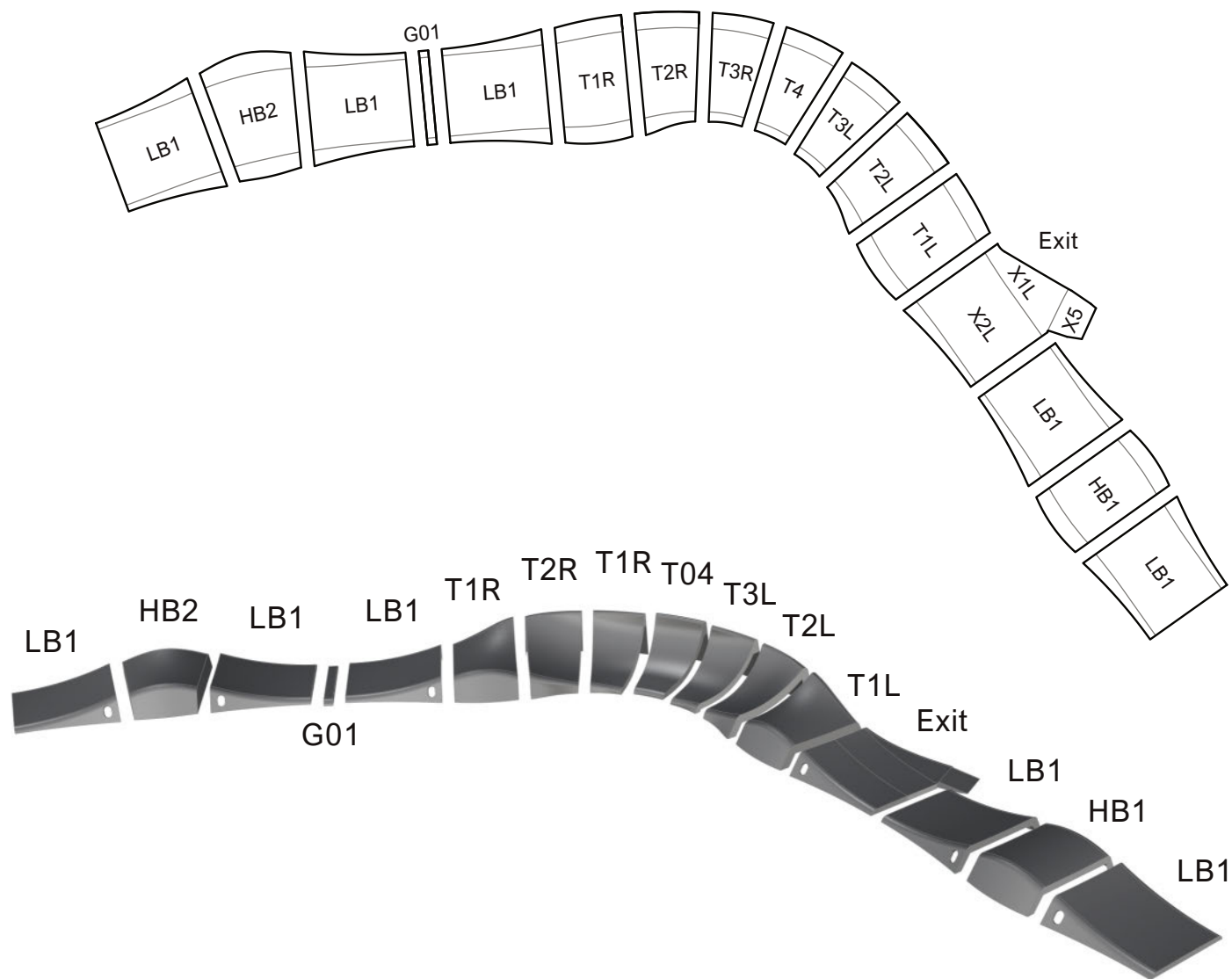
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- 2. Assembly Components
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- 6. Module Layout
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1. The Modules





Code | Description

■ T1R		Turn 1 Module Right
■ T1L		Turn 1 Module left
■ T2R		Turn 2 Module right
■ T2L		Turn 2 Module left
■ T3R		Turn 3 Module right
■ T3L		Turn 3 Module left
■ T4		Turn 4 Module
■ LB1		Low Bump Module
■ HB1		High Bump 1 Module
■ HB2		High Bump 2 Module
■ G01		Gap 1 Module
■ Exit		Exit X1,X2,X5 Module

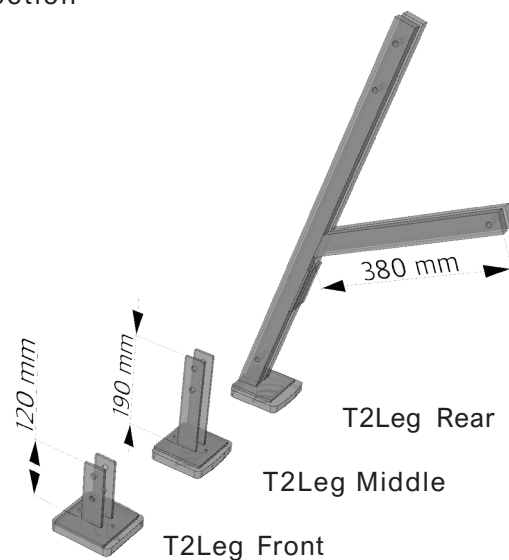
You must make visual control and fill the form before unpacking the pallets and before the installation!



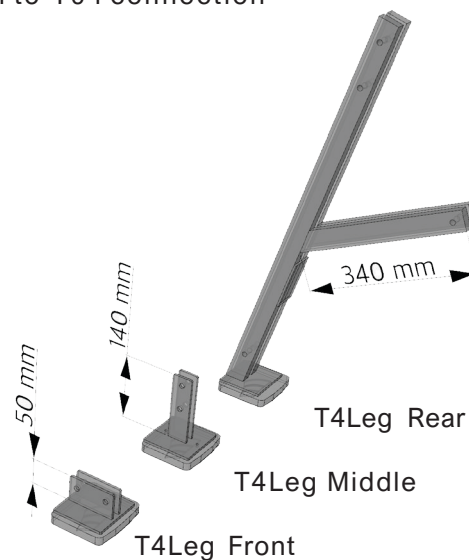
2. Assembly Components



Set of Legs for T2R/L to T3R/L connection



Set of Legs for T3R/L to T04 and T04 to T04 connection



CA Assembly Bracket for T1R/L modules



Universal Brace for Turn modules: T2R/L, T3R/L, T4



Components

Set of Legs for T2R/L to T3R/L connection

- T2 Leg Rear
- T2 Leg Middle
- T2 Leg Front

Set of Legs for T3R/L to T04 and T04 to T04 connection

- T4 Leg Rear
- T4 Leg Middle
- T4 Leg Front

CA Assembly Bracket for T1R/L modules

Universal brace for turn modules: T2R/L, T3R/L, T4

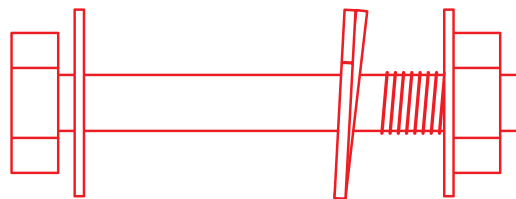
Put all the T2 legs aside, they are easy to get mixed!!



3. Assembly Hardware

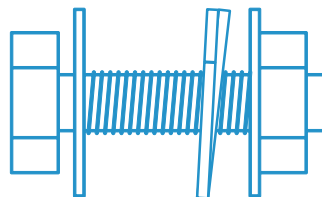


①.



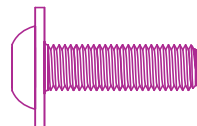
M10 x 80

②.



M10 x 55

③.



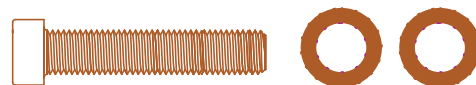
M6 x 30 - torx

④.



Allen bolt M6x20
Spring washer M6
Wide washer M6 x 20 x 1,5

⑤.



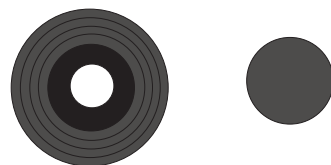
Allen bolt M6x30
Spring washer M6
Wide washer M6x12

⑥.



Locator Pin

⑦.



screw washer for CA

Components

- M10 x 80
- M10 x 55
- M6 x 30 torx
- M6 x 20 imbus
- M6 x 30 imbus
- Locator Pin
- screw washer for CA

Throughout this Assembly Guide the colour coded dotted lines show where the corresponding bolt size should be used

③.+ ⑦.



Tool list

	What do you need for instalation?:	pcs
1	Wrench - size n.17 + (1 ratched wrench + eye wrench)	1 per each worker (4-6)
2	Hammer - rubber	one per each pair of workers (3-6 pcs)
3	Screwdriver Torx 30 - (assembly of CA)	1 per each worker (4-6)
4	Centering rod, ø 8-10mm (or bigger screwdriver), (auxiliary fixation during assembly)	min 2, optimally 4
5	Cordless impact wrench, Cordless impact gun	min 2, optimally 4
6	Crowbar	min 2, optimally 4
7	Clamp (auxiliary fixation during assembly T2,T3,T4)	min 2, optimally 4
8	Angle grinder with abrasive disc and diamant cutting blade.	1
9	Drill bits for steel dia: 5, 6, 12 and 13mm - pre-drilling of metal feet according to anchor bolts	2
10	Pads (for leveling track elements (concrete tiles, rubber mats, according to the required thickness)	THIS MATERIAL IS NOT INCLUDED IN THE DELIVERY!!
11	Bit Torx 30	2
12	Conical end mill (calibration of holes for CA)	THIS MATERIAL IS INCLUDED IN THE DELIVERY!!
13	Tap and die M6 (thread calibration for CA)	1
14	Measuring band 50m - exactness A	2
15	Spirit level 2m	1
16	Tools/accesories for flattening the surface	
17	Forklift	
18	Allen key - for M6 screw (4mm)	1
19	Lying mat or carpet	
20	Wooden wedges - different sizes	
21	Diamant cutting blade for grinder	1
22	Spud wrench	1 per each worker
23	Riveting tool for rivet nuts	1 per each worker



What do you need for instalation?

Warning:

Installation is not easy.

A trained personnel is required for the installation of V4.

Minimum number of staff 4, optimally 6.

Estimated installation time:

6 trained personnel:

Speed Ring	2days (2x8h)
Global	2days (2x10h)
World CUP	3days (3x8h) or 2days (2x12h)

5 2 pcs in total of regular **cordelss srew gun**. Needed for unpacking.
Bits: TORX 25 & 30

2 pcs per each pair of workers (3 for 6) of **cordless impact wrench** with 17mm socket.
Sockets both: long and short

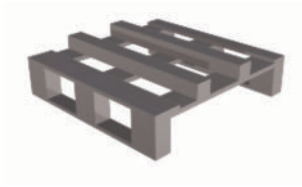
It is essential to use a suitable lubricant for stainless steel fasteners!



4. Connection Details



LB1 + LB1



!! Fragile Corner !!

Be careful when you turn the modules over

Elements can only be turned over on a protective mat or on grass!

LB1 + LB1



LB1 + GO1 + LB1



X1L + LB1



Low - Side LB1 to Low - Side LB1

The low side connection of the LB1 modules is done from the bottom.

Procedure:

1. Use a spare pallet and rubber packaging materials to adjust the height.
2. Carefully turn the modules upside down and lay the low side on the pallet

Note: the riding surface can be scratched and chipped. Always use something soft to protect the modules from contact with the ground and other hard objects

3. Align the modules to each other.
4. Starting from one side and working across to the other side, insert the bolts and partially tighten, check the riding surfaces are FLUSH & ALIGNED, now tighten all bolts.

5. Carefully turn the modules over paying attention not to damage the corners of the modules

You will need:

- 6x M10x 80



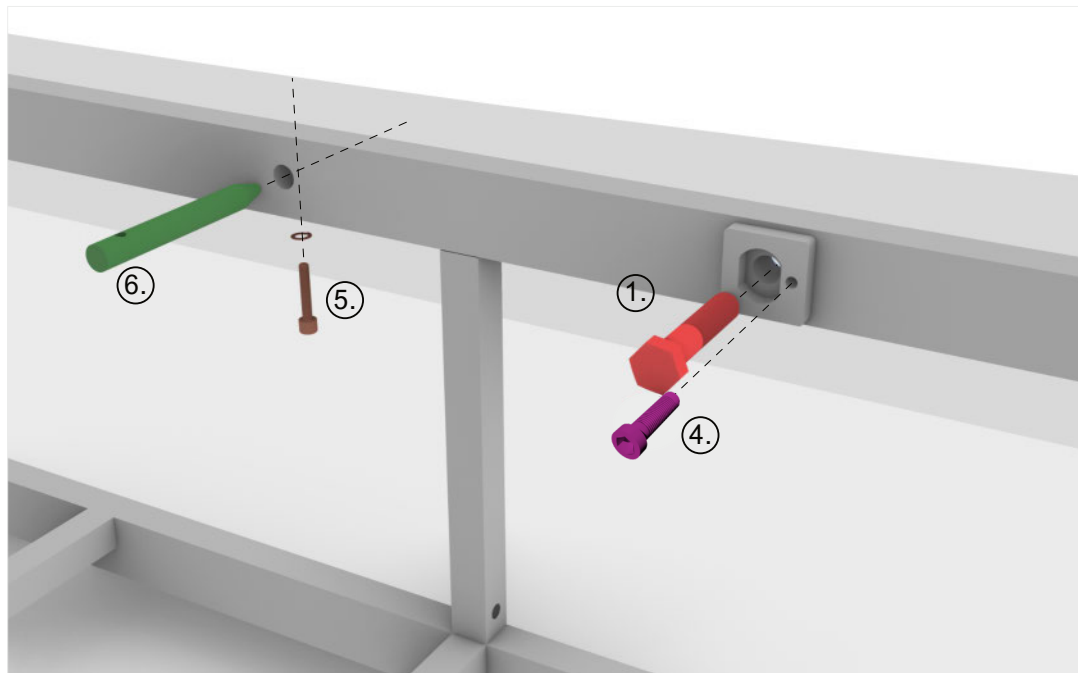
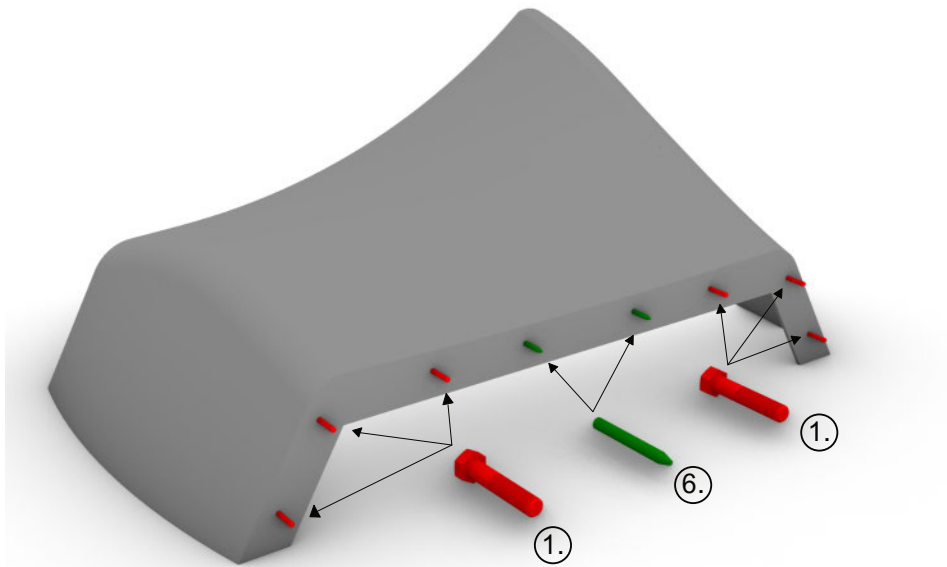
High-Side LB1 to HB1, HB2 and T1R/L

These modules are equipped with locator pins and a captured bolt system

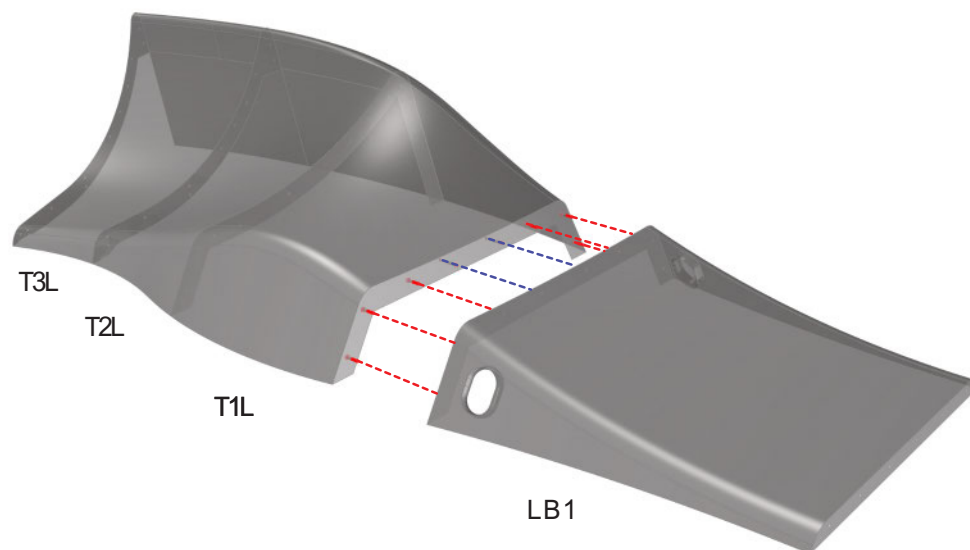
Procedure:

1. Insert the locator pins and secure them in place with the fixing screw from the bottom.
2. Insert the bolts and then secure them in place with the fixing screw from the inside.

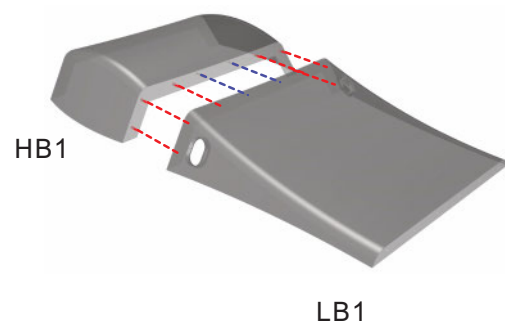
Use clamps when clamping.



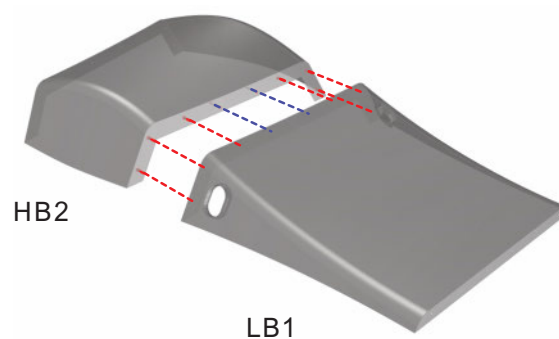
LB1 to T1L



LB1 to HB1



LB1 to HB2



High-Side LB1 to HB1, HB2 and T1R/L

Procedure:

1. Prepare locator pins and captured bolts according to the diagram on the previous page.
2. Align the modules to each other.
3. Reach through the access port on the side of the LB1 and tighten the assembly hardware.

Attention:

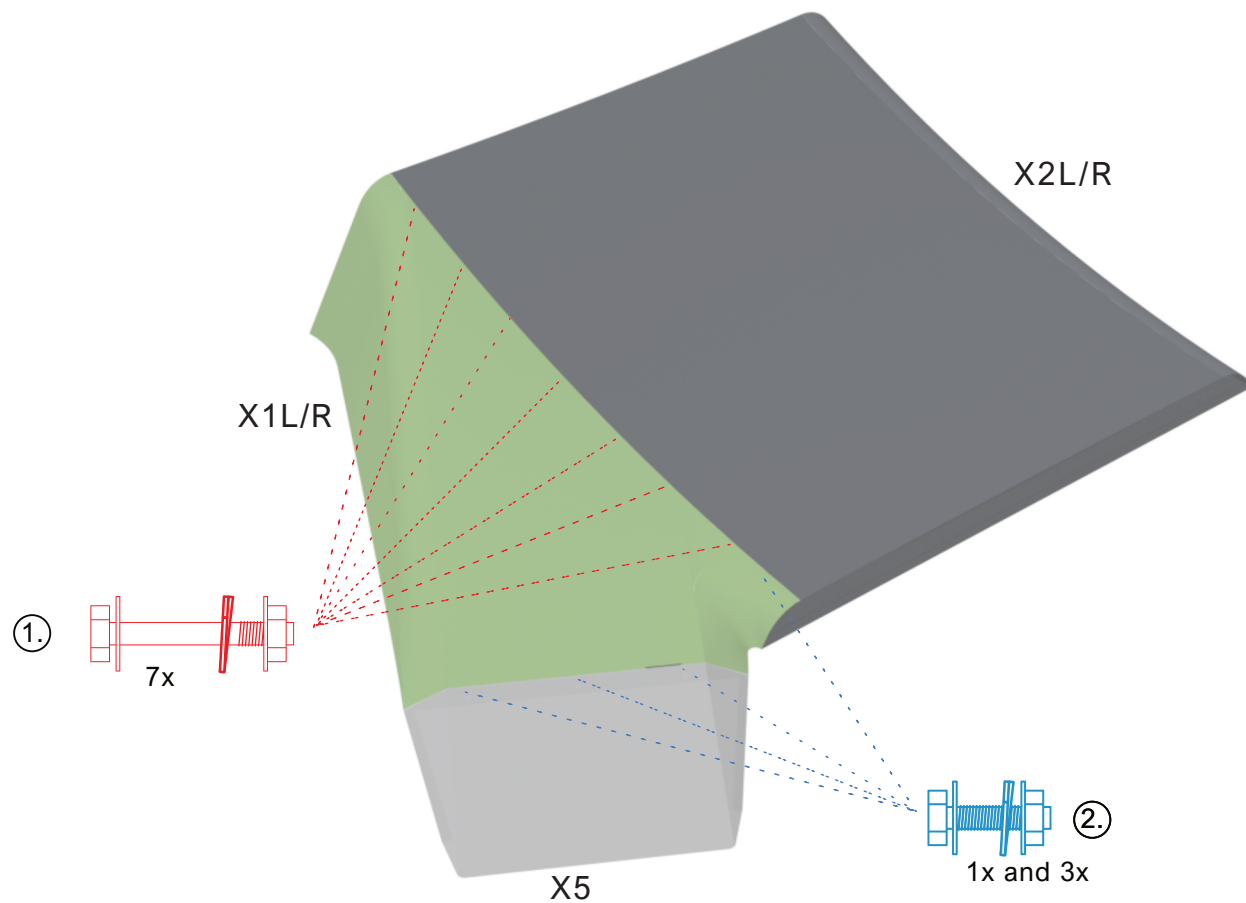
1.step: Align the edge of the raiding surface

2.step: Align the sides of the elements

Fine adjustment is done by tapping with a rubber hammer while the screws are gently tightened.



X1L/R to X2L/R
plus X5



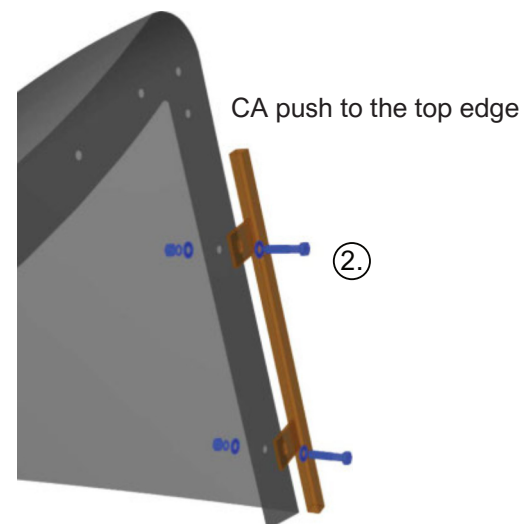
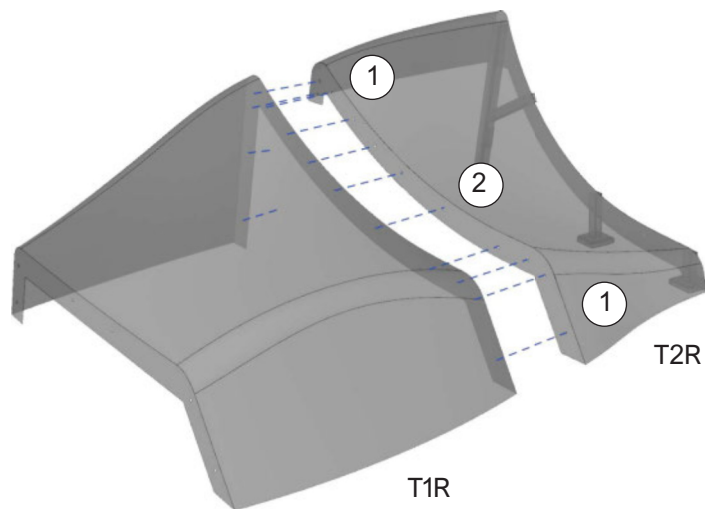
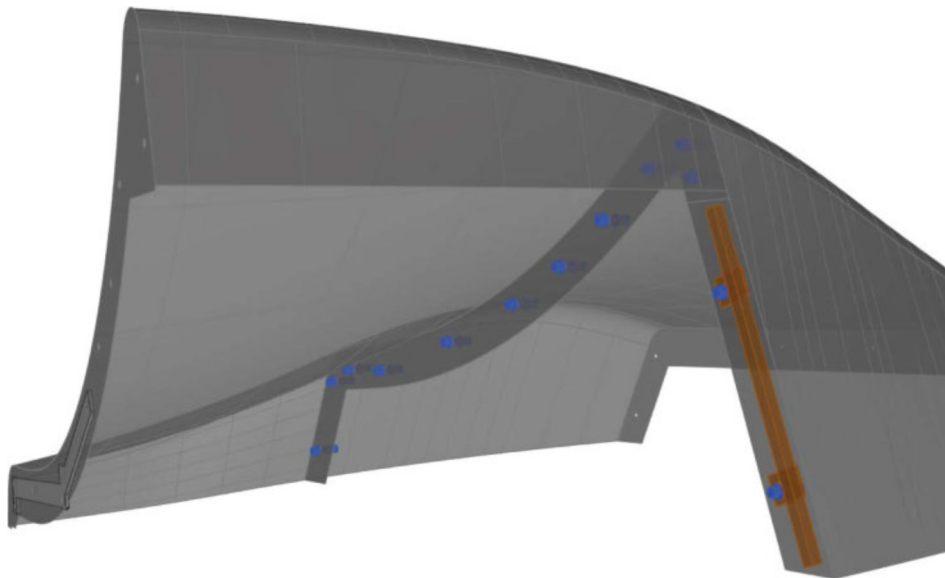
High-Side X1 to X2 and
to X5,
X1L/R, X2L/R, X5

Use the screw M10 x 80 - 7x and
M10 x 55 - 1x to connect the
modules X1 and X2

Use the screw M10 x 55 - 3x to
connect the modules X1 and X5



T1L/R to T2L/R



T1R/L to T2R/L

Procedure:

1. Insert and lightly tighten assembly hardware at position labeled "1"
.....
2. Insert and lightly tighten assembly hardware at position labeled "2"
.....
3. Align the modules to each other and tighten assembly hardware
.....
4. Attach the CA Assembly Bracket for T1R/L modules

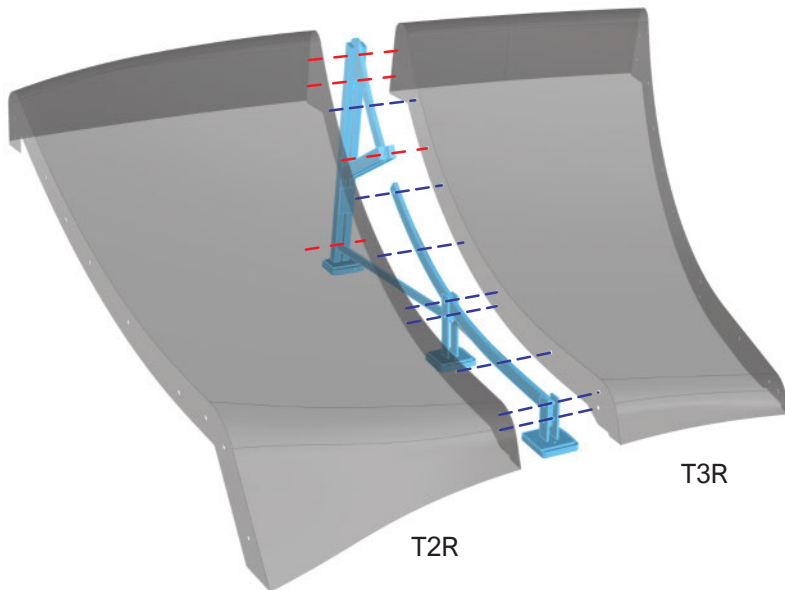
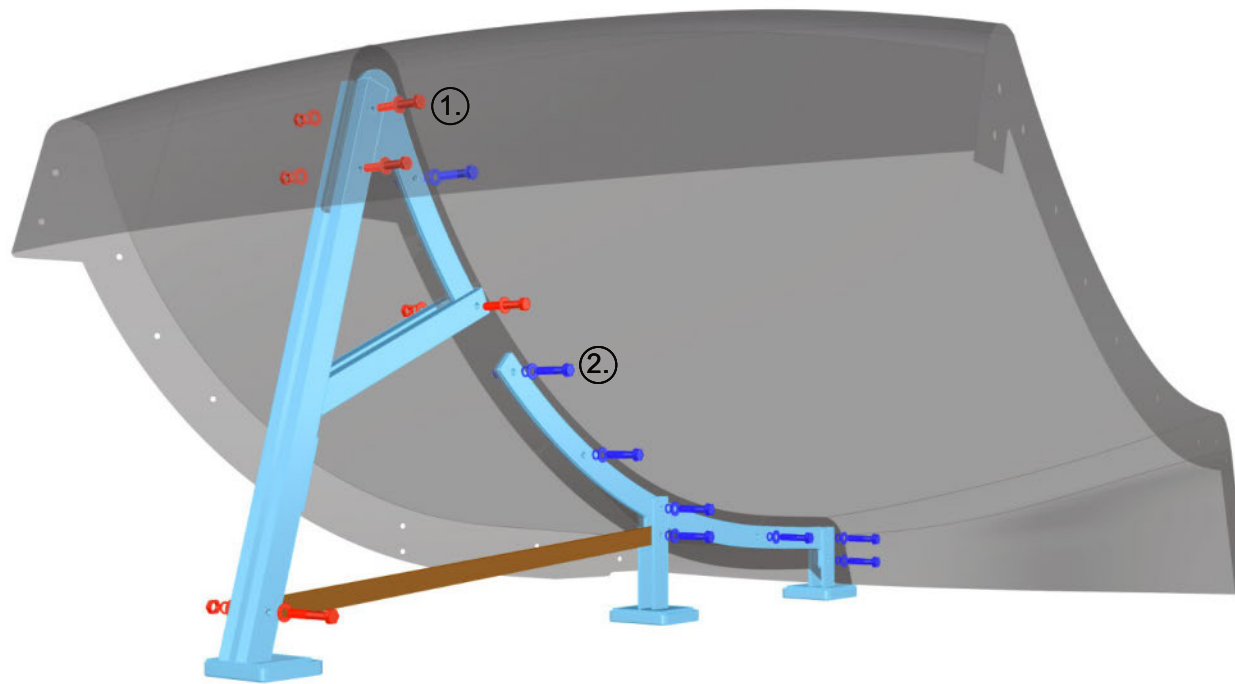
Use clamps when clamping.

You will need:

- 13x M10x55
- 1x CA Assembly Bracket for T1R/L modules



T02 to T03



T2R/L to T3R/L

Procedure:

1. Align the modules to each other.
2. Insert and tighten assembly hardware in locations without Legs.
3. Attach the "T2 Leg Front" and lightly tighten the assembly hardware.
4. Attach the "T2 Leg Middle" leaving the bottom hole empty and lightly tighten the assembly hardware.
5. Attach the "T2 Leg Rear" with all assembly hardware.
6. Attach the "Universal Brace" to the bottom holes of the "T2 Leg Middle" and the "T2 Leg Rear"
7. Check the alignment of the modules to each other and tighten all assembly hardware.

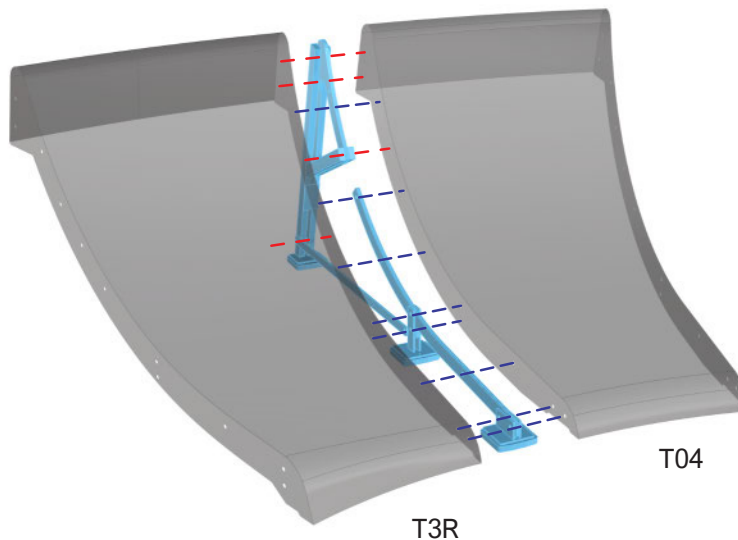
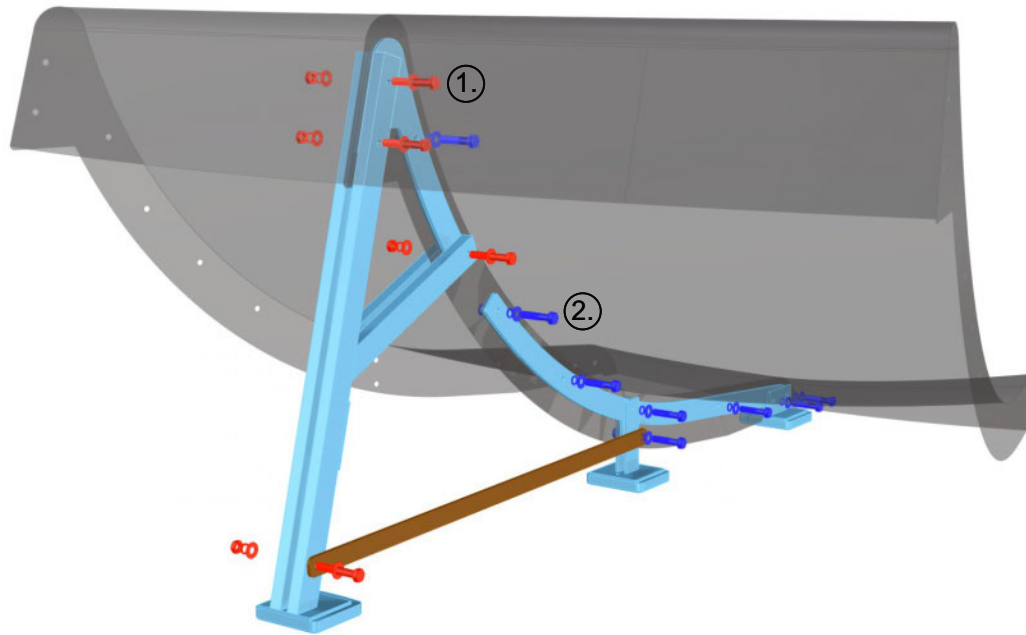
Use clamps when clamping.

You will need:

- 4x M10x 80
- 8x M10 x 55
- 1x Set of Legs for T2R/LtoT3R/L connection
- 1x Universal Brace for Turn modules: T2R/L, T3R/L, T4



T03 to T04



T3R/L to T04

Procedure:

1. Align the modules to each other.
2. Insert and tighten assembly hardware in locations without Legs.
3. Attach the "T4 Leg Front" and lightly tighten the assembly hardware.
4. Attach the "T4 Leg Middle" leaving the bottom hole empty and lightly tighten the assembly hardware.
5. Attach the "T4 Leg Rear" with all assembly hardware.
6. Attach the "Universal Brace" to the bottom holes of the "T4 Leg Middle" and the "T4 Leg Rear"
7. Check the alignment of the modules to each other and tighten all assembly hardware.

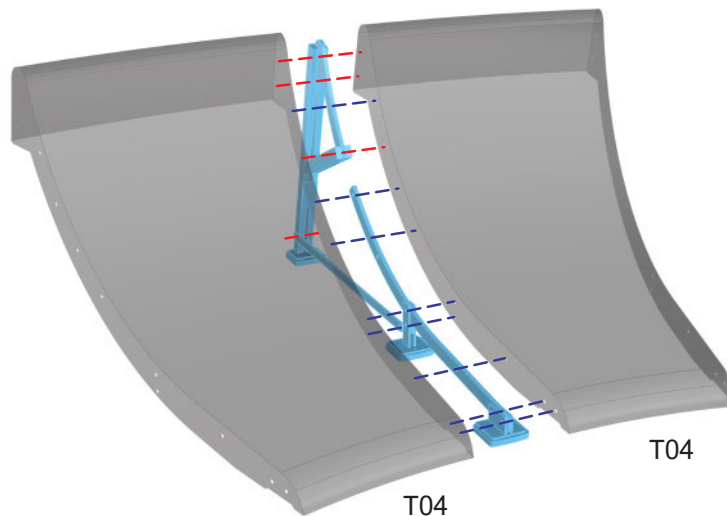
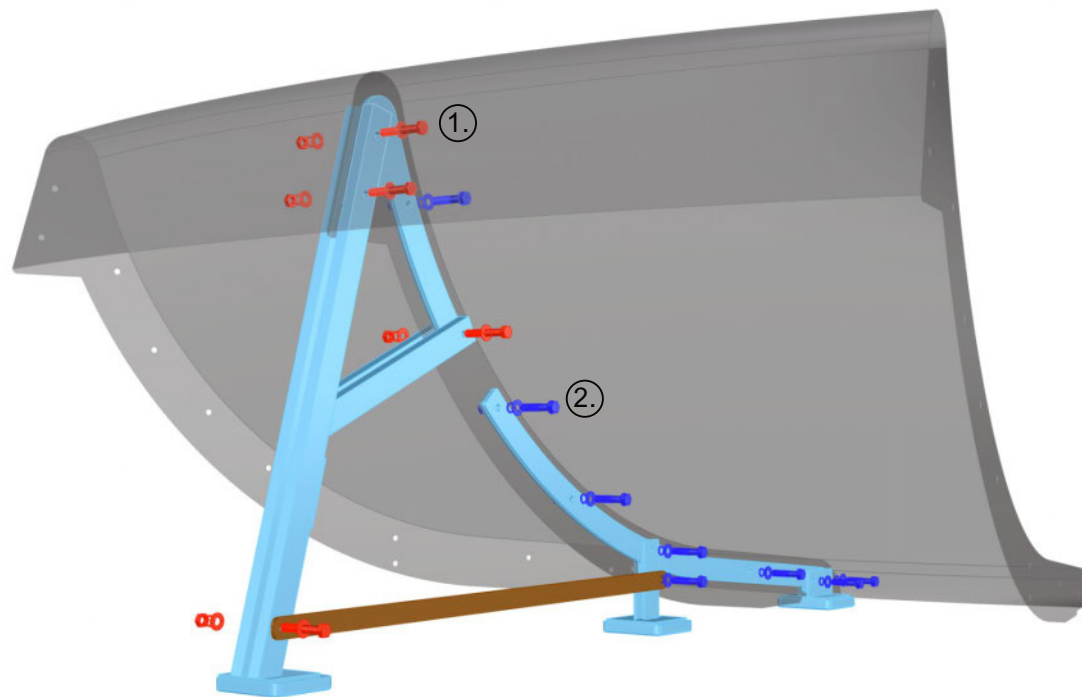
Use clamps when clamping.

You will need:

- 4x M10x 80
- 8x M10 x 55
- 1x Set of Legs for T04 to T04 connection
- 1x Universal Brace for Turn modules



T04 to T04



T04 to T04

Procedure:

1. Align the modules to each other.
2. Insert and tighten assembly hardware in locations without Legs.
3. Attach the "T4 Leg Front" and lightly tighten the assembly hardware.
4. Attach the "T4 Leg Middle" leaving the bottom hole empty and lightly tighten the assembly hardware.
5. Attach the "T4 Leg Rear" with all assembly hardware.
6. Attach the "Universal Brace" to the bottom holes of the "T4 Leg Middle" and the "T4 Leg Rear"
7. Check the alignment of the modules to each other and tighten all assembly hardware.

Use clamps when clamping.

You will need:

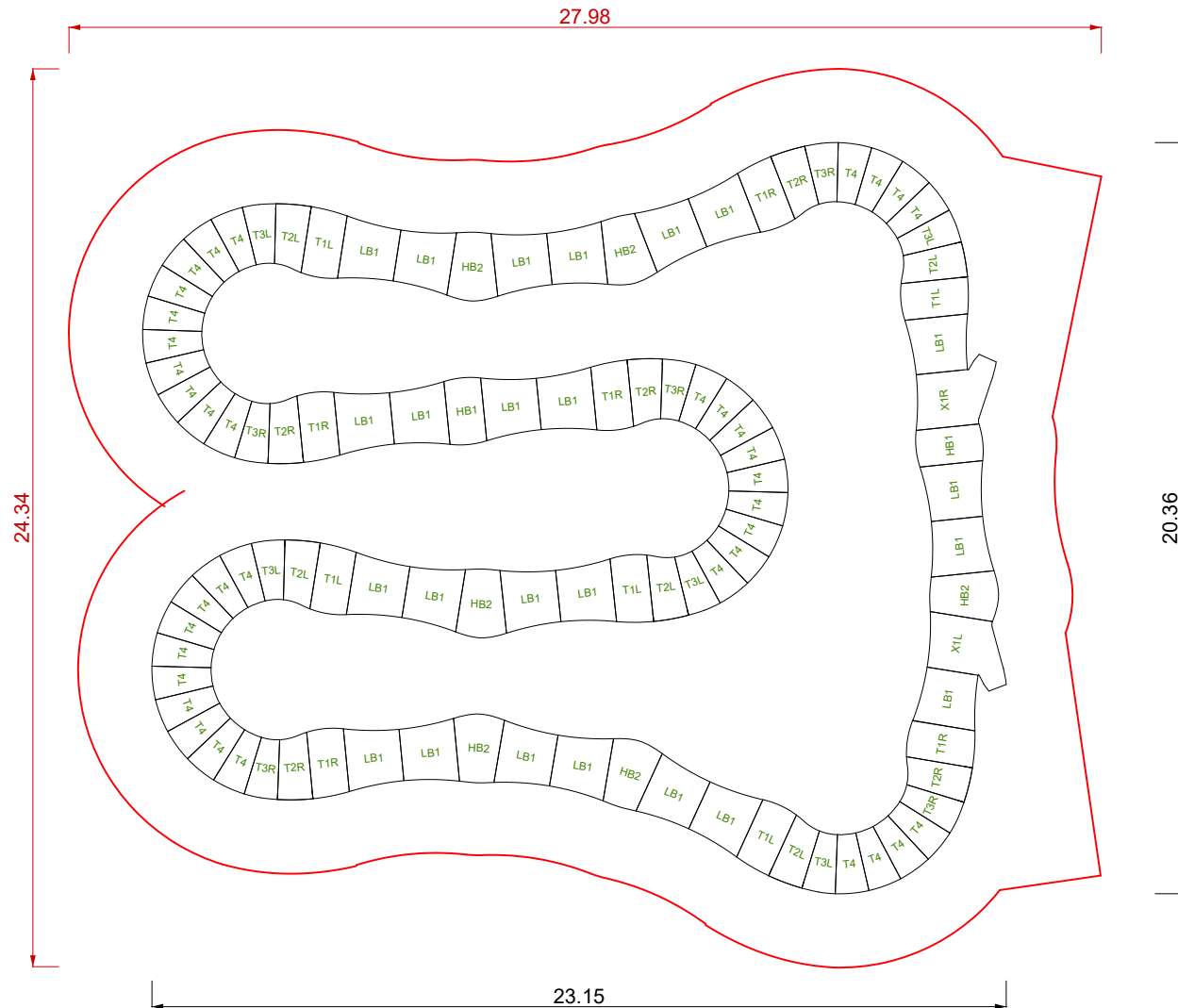
- 4x M10x 80
- 8x M10 x 55
- 1x Set of Legs for T04 to T04 connection
- 1x Universal Brace for Turn modules



5. Perimeter Dimensions Including the Safety Zone



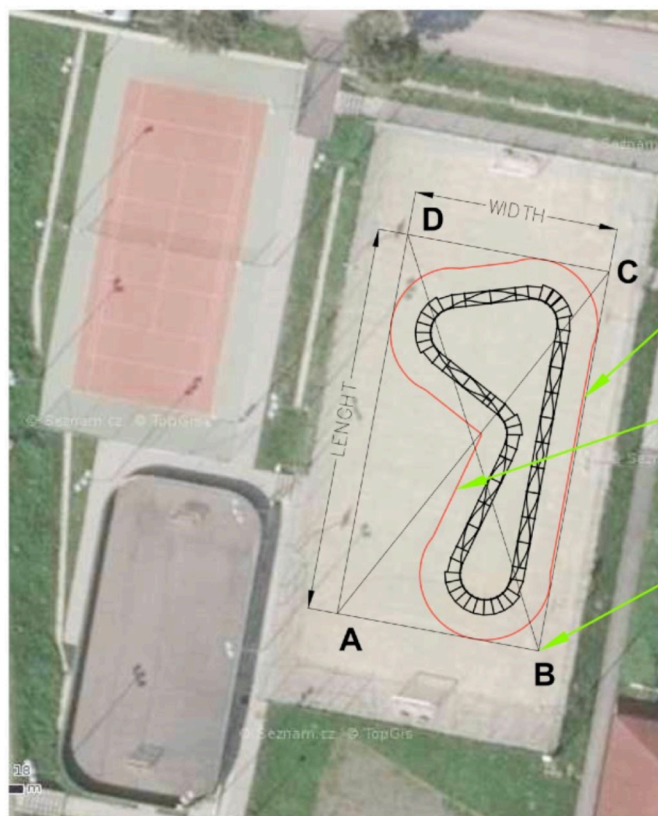
Site Layout and Perimeter Dimentions



- Layout fits
- All rules for safety zones fulfilled.

Procedure for track placement:

- The more precisely the position is defined, the easier it is to set it. It is advisable to define the position before the delivery of the pumptrack. Below is an example of the methodology used.
- Check that all the corner points have a 90 degree angle, using diagonal measurements.



If the corners are at 90 degree angle, then the diagonals AC and BD are the same length.

Background

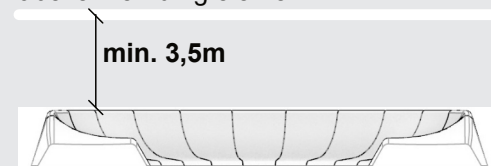
Safety zone

90° angle

Safety zone description

Safety zone:

- There must be sufficient space around the entire modular pumptrack (hereinafter referred to as pumptrack) to maintain a safety zone of at least 2 meters. The safety zone is an area free of objects that could cause injury.
- Plants (e.g. hedges, trees, bushes) are allowed in the safety zone as long as they are arranged in way that does not pose a risk to users during their sporting activities.
- The safety zone does not serve as a spectator area.
- The surface of the safety zones shall be made of uniform bonded material. Loose material such as sand must not be used. (Note: Uniform bonded material is e.g. concrete/stone, bituminous surface, soil and turf)
- When situating the pumptrack, in addition to the 2m safety zone, it is also necessary to think about the wider relationship with the surrounding area.
- Where a pumptrack is located close to roads or in combination with playground, sports field, recreational park or similar facilities, it shall be physically separated by an appropriate distance using structural or spatial measures so that neither the users of the pumptrack nor their sports equipment pose any danger to users of other facilities or other third parties.
- Safety height above the pumptrack - at minimum 3,5m above the riding element.



- When preparing and selecting a site for the pumptrack, follow the standard CSN-EN 14974:2020

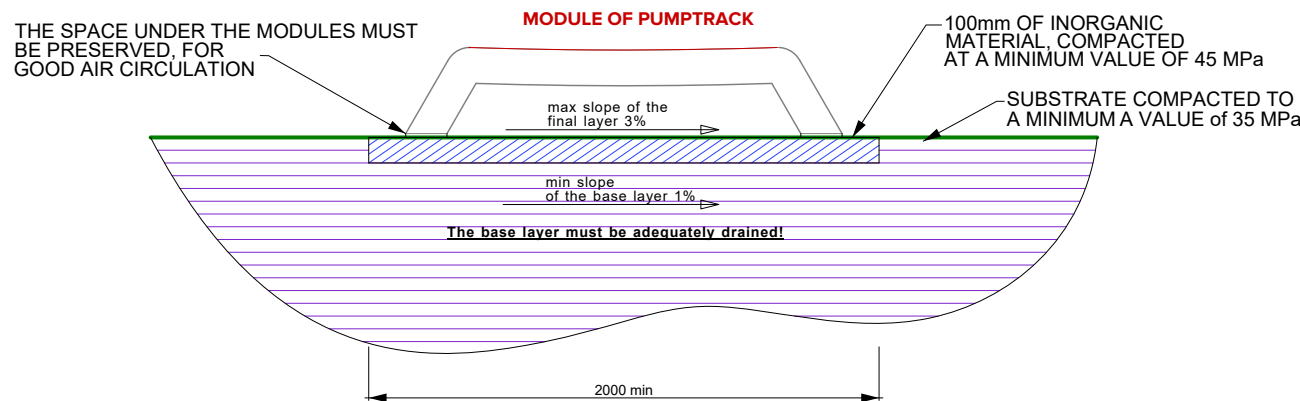


Terrain for installation

Technical requirements for the site:

- To ensure sufficient load-bearing capacity of the ground, the manufacturer recommends levelling and compacting the ground plain. The recommended minimum value of the reshaping modulus is $E_{def,2} = 35 \text{ MPa}$.
- If the terrain is unstable, difficult to compact or otherwise specific, we recommend contacting the certified pumptrack supplier for technical support.
- The terrain should be appropriately sloped to ensure sufficient drainage. Water must not accumulate anywhere in the entire pumptrack area.
- The terrain at the site chosen for the installation of the pumptrack is ideally horizontal. In the case of slopes, a maximum of 3% is permissible.
- A cursory inspection of the slope can only be carried out using commonly available tools as shown below. A simpler alternative may be to measure using a rotating laser or a levelling device.
- If it is necessary to carry out landscaping, e.g. excavation of the slope or soil piling, to achieve the ground level, the procedure must be designed by a professional company. The work shall be carried out in accordance with the applicable standards for the location.
- Manufacturer of the modular pumptrack shall not be liable for the landscaping.

Most of the problems with the unevenness of the downstream parts can be solved by underlaying the track.
Try underlaying the pumptrack first, grinding and drilling is the last option.



The quality of the base for the long - term installation of the modular pumptrack:

- The surface under the modular pumptrack should have a minimum bearing capacity of at least 35 MPa.
- To prolong the life of the pumptrack, it is recommended to create a base layer with a minimum thickness of 100mm of inorganic material compacted to a minimum value of 45 MPa.
- The width of the underlying bearing layer should be at least 2000 mm.
- The base layer should also be slightly sloped to ensure the water drainage.
- Suitable surface are also asphalt, concrete, interlocking paving etc.



6. Module Layout



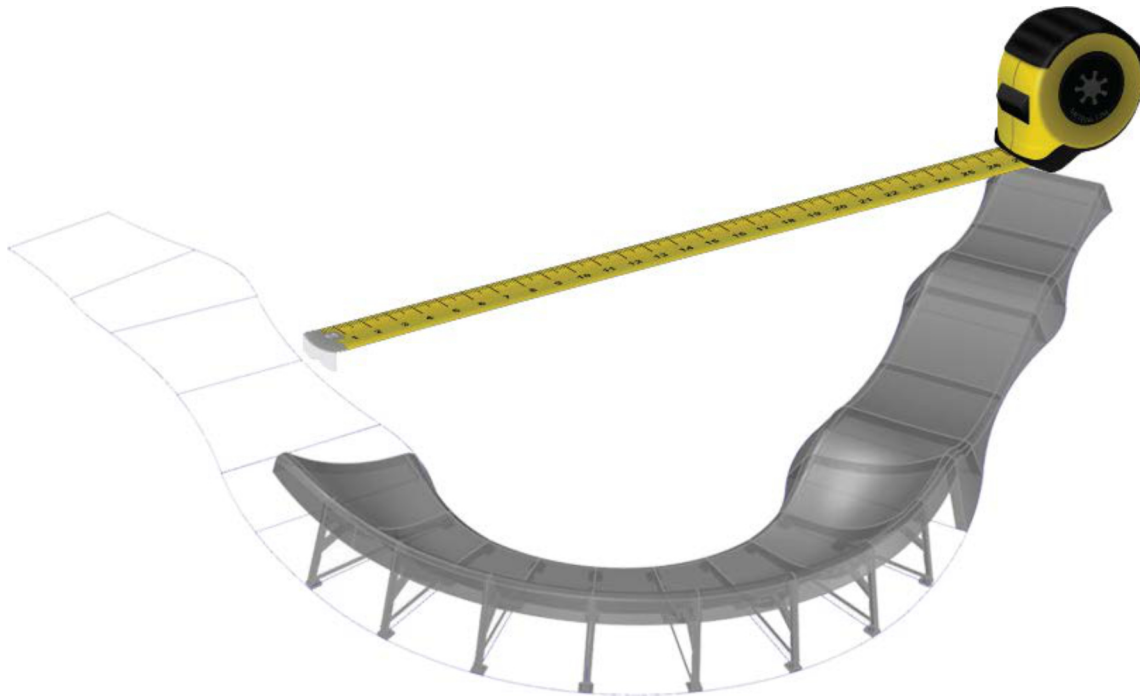
IMPORTANT READ BEFORE BEGINNING

.....

Regularly check the position of the modules relative to the layout plan and to each other.

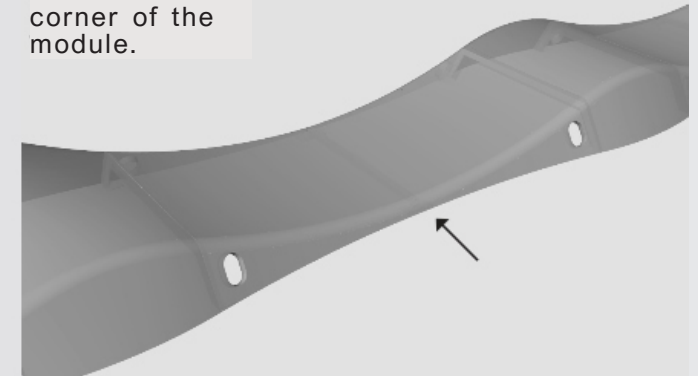
Doing a good job with your layout can save hours of adjustments in the final stages of installation and the Final Connection.

The pump track must not move in its assembled form!



- Start and end according to the manual
- Keep checking the measurements as you go. Doing good job on this will save you a lot of trouble.

Measure from the lowest corner of the module.

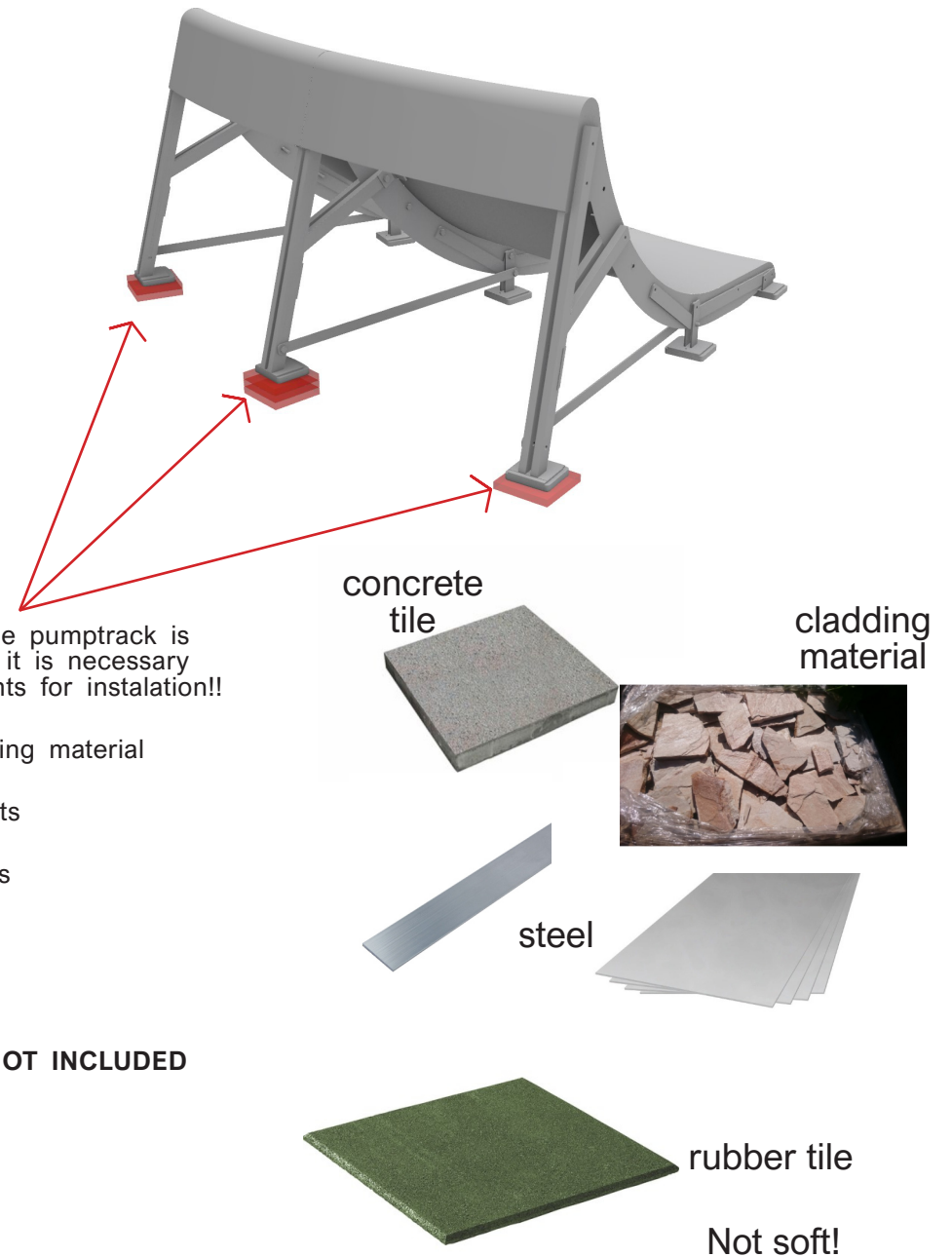


6a. Alignment of track elements

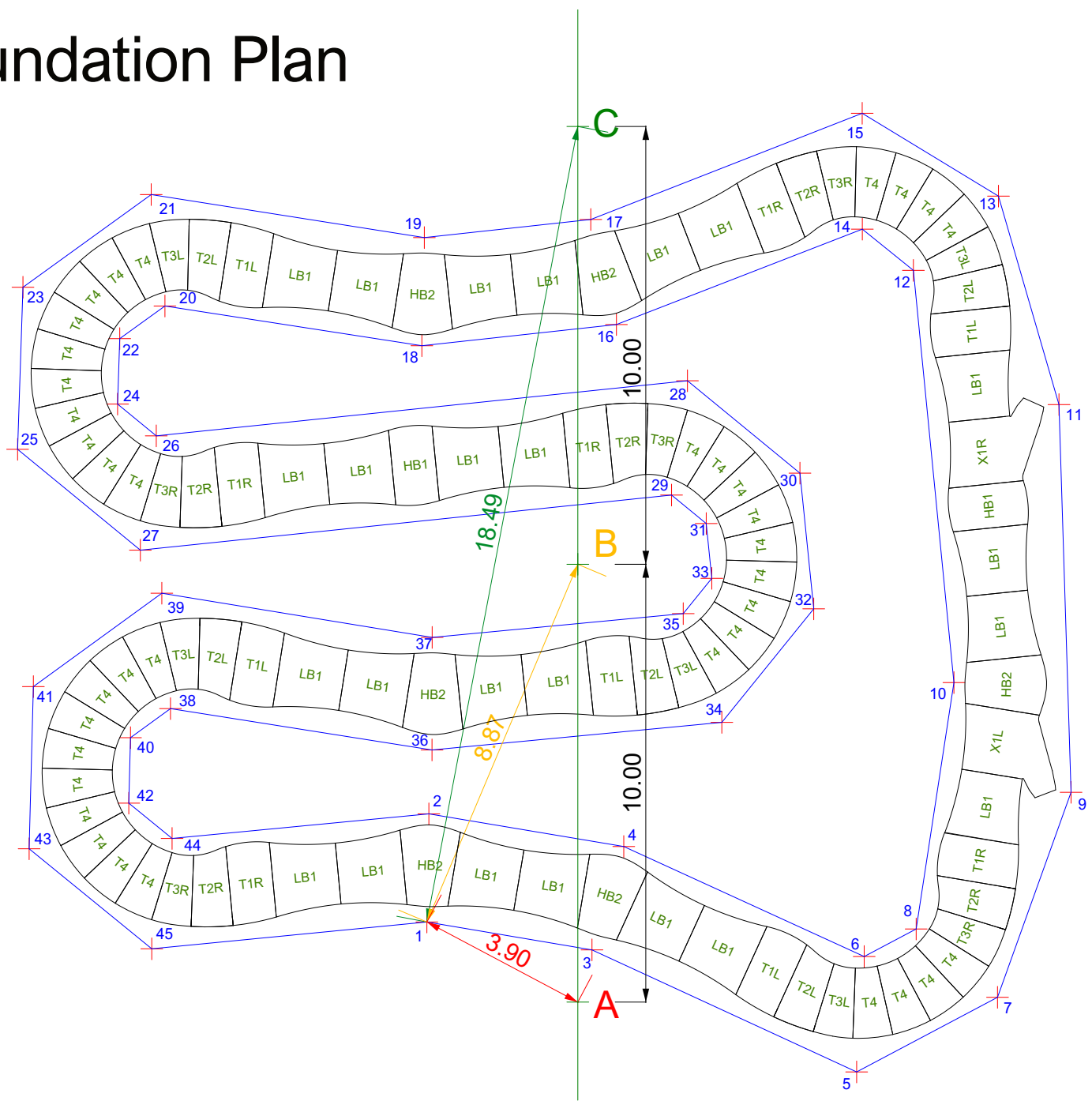
If the terrain under the pumptrack is not optimally levelled, it is necessary to prepare the elements for instalation!!

- concrete tiles, cladding material
 - metal strips or sheets
- in different thicknesses

**THIS MATERIAL IS NOT INCLUDED
IN THE DELIVERY!!**

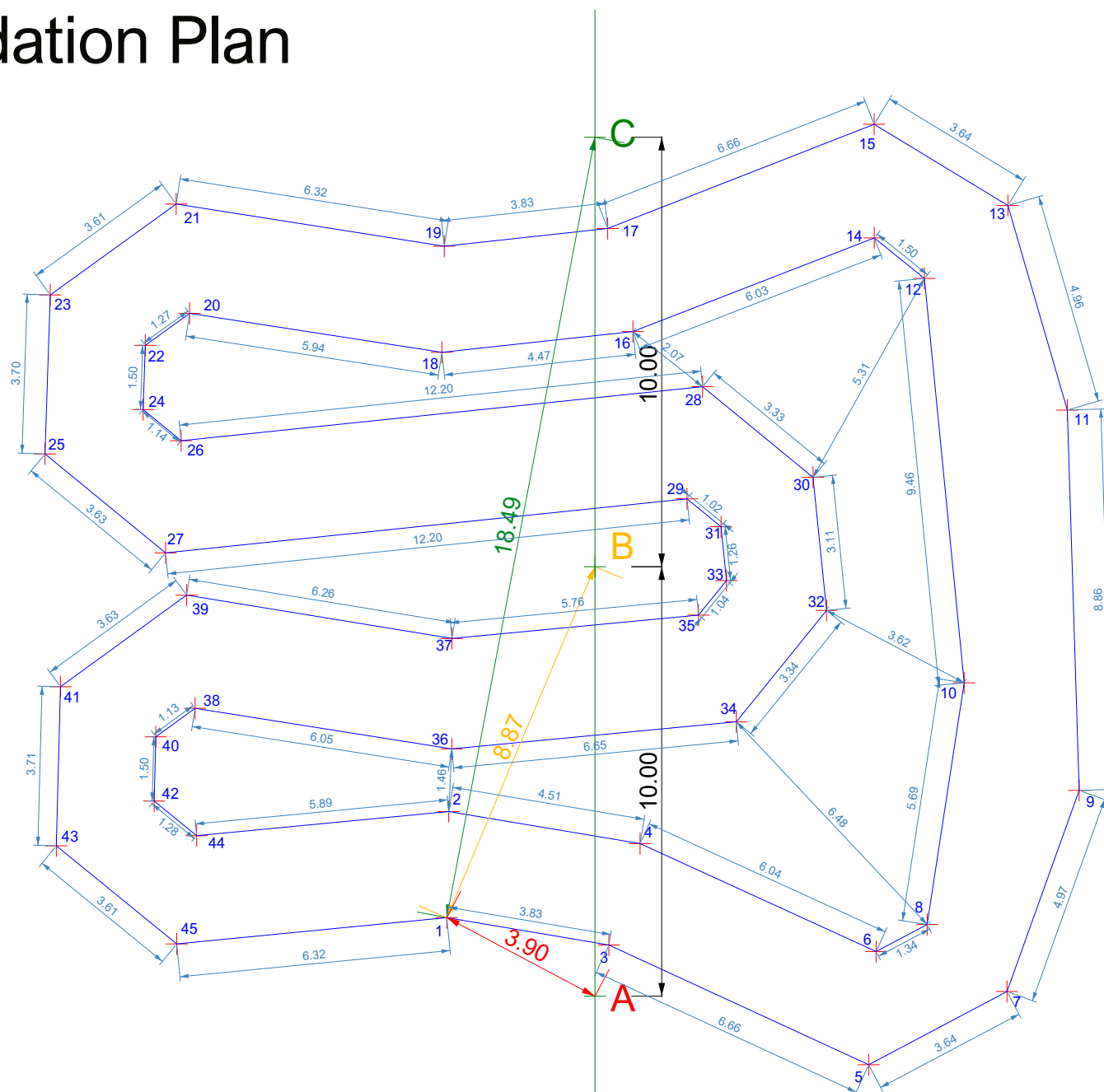


Foundation Plan



1	A=3,90	B=8,87	C=18,49
2	A=5,48	B=6,64	C=16,07
3	A=1,24	B=8,81	C=18,81
4	A=3,71	B=6,53	C=16,48
5	A=6,57	B=13,23	C=22,52
6	A=6,63	B=11,09	C=20,06
7	A=9,59	B=13,78	C=22,08
8	A=7,91	B=11,37	C=19,89
9	A=12,25	B=12,41	C=18,93
10	A=11,27	B=9,01	C=15,34
11	A=17,52	B=11,58	C=12,70
12	A=18,39	B=10,19	C=8,34
13	A=20,77	B=12,77	C=9,74
14	A=18,81	B=10,04	C=6,91
15	A=21,32	B=12,18	C=6,50
16	A=15,50	B=5,55	C=4,61
17	A=17,88	B=7,88	C=2,15
18	A=15,41	B=6,13	C=6,15
19	A=17,81	B=8,25	C=4,33
20	A=18,49	B=11,13	C=10,29
21	A=20,86	B=12,90	C=9,87
22	A=18,42	B=11,67	C=11,53
23	A=20,67	B=14,17	C=13,20
24	A=17,24	B=11,13	C=12,28
25	A=17,98	B=13,07	C=14,77
26	A=16,13	B=10,07	C=11,95
27	A=14,37	B=10,00	C=13,91
28	A=14,41	B=4,88	C=6,33
29	A=11,78	B=2,66	C=8,69
30	A=13,11	B=5,49	C=9,41
31	A=11,32	B=3,08	C=9,53
32	A=10,48	B=5,49	C=12,27
33	A=10,15	B=3,08	C=10,77
34	A=7,19	B=4,89	C=14,00
35	A=9,19	B=2,66	C=11,39
36	A=6,65	B=5,39	C=14,63
37	A=8,97	B=3,72	C=12,14
38	A=11,47	B=9,87	C=16,23
39	A=13,32	B=9,53	C=14,28
40	A=11,87	B=10,96	C=17,30
41	A=14,38	B=12,75	C=17,85
42	A=11,22	B=11,62	C=18,55
43	A=13,02	B=14,12	C=20,72
44	A=10,00	B=11,19	C=18,72
45	A=9,81	B=13,11	C=21,16

Foundation Plan



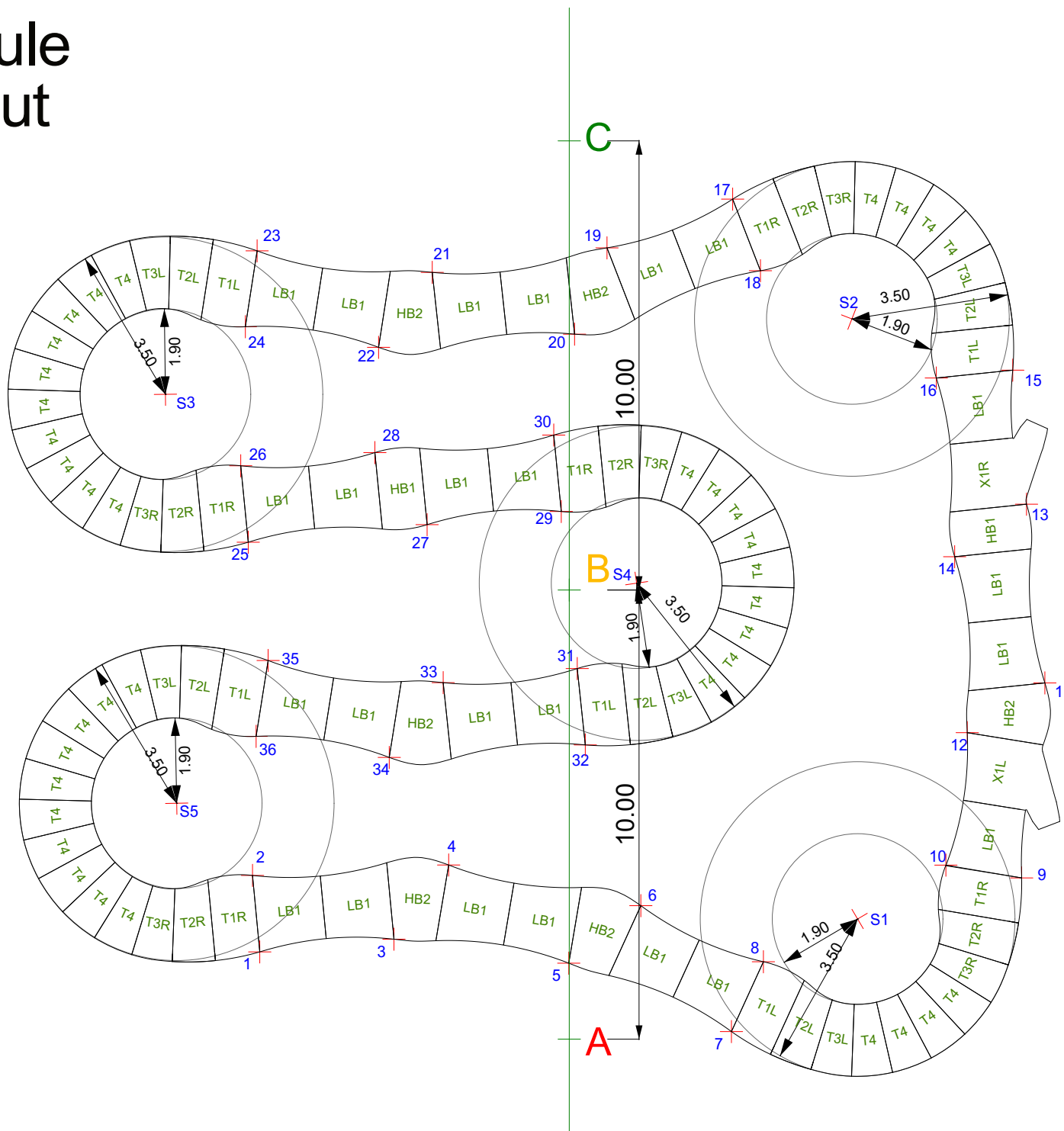
1	A=3,90	B=8,87	C=18,49
2	A=5,48	B=6,64	C=16,07
3	A=1,24	B=8,81	C=18,81
4	A=3,71	B=6,53	C=16,48
5	A=6,57	B=13,23	C=22,52
6	A=6,63	B=11,09	C=20,06
7	A=9,59	B=13,78	C=22,08
8	A=7,91	B=11,37	C=19,89
9	A=12,25	B=12,41	C=18,93
10	A=11,27	B=9,01	C=15,34
11	A=17,52	B=11,58	C=12,70
12	A=18,39	B=10,19	C=8,34
13	A=20,77	B=12,77	C=9,74
14	A=18,81	B=10,04	C=6,91
15	A=21,32	B=12,18	C=6,50
16	A=15,50	B=5,55	C=4,61
17	A=17,88	B=7,88	C=2,15
18	A=15,41	B=6,13	C=6,15
19	A=17,81	B=8,25	C=4,33
20	A=18,49	B=11,13	C=10,29
21	A=20,86	B=12,90	C=9,87
22	A=18,42	B=11,67	C=11,53
23	A=20,67	B=14,17	C=13,20
24	A=17,24	B=11,13	C=12,28
25	A=17,98	B=13,07	C=14,77
26	A=16,13	B=10,07	C=11,95
27	A=14,37	B=10,00	C=13,91
28	A=14,41	B=4,88	C=6,33
29	A=11,78	B=2,66	C=8,69
30	A=13,11	B=5,49	C=9,41
31	A=11,32	B=3,08	C=9,53
32	A=10,48	B=5,49	C=12,27
33	A=10,15	B=3,08	C=10,77
34	A=7,19	B=4,89	C=14,00
35	A=9,19	B=2,66	C=11,39
36	A=6,65	B=5,39	C=14,63
37	A=8,97	B=3,72	C=12,14
38	A=11,47	B=9,87	C=16,23
39	A=13,32	B=9,53	C=14,28
40	A=11,87	B=10,96	C=17,30
41	A=14,38	B=12,75	C=17,85
42	A=11,22	B=11,62	C=18,55
43	A=13,02	B=14,12	C=20,72
44	A=10,00	B=11,19	C=18,72
45	A=9,81	B=13,11	C=21,16



7. Assembly Procedure



Module Layout

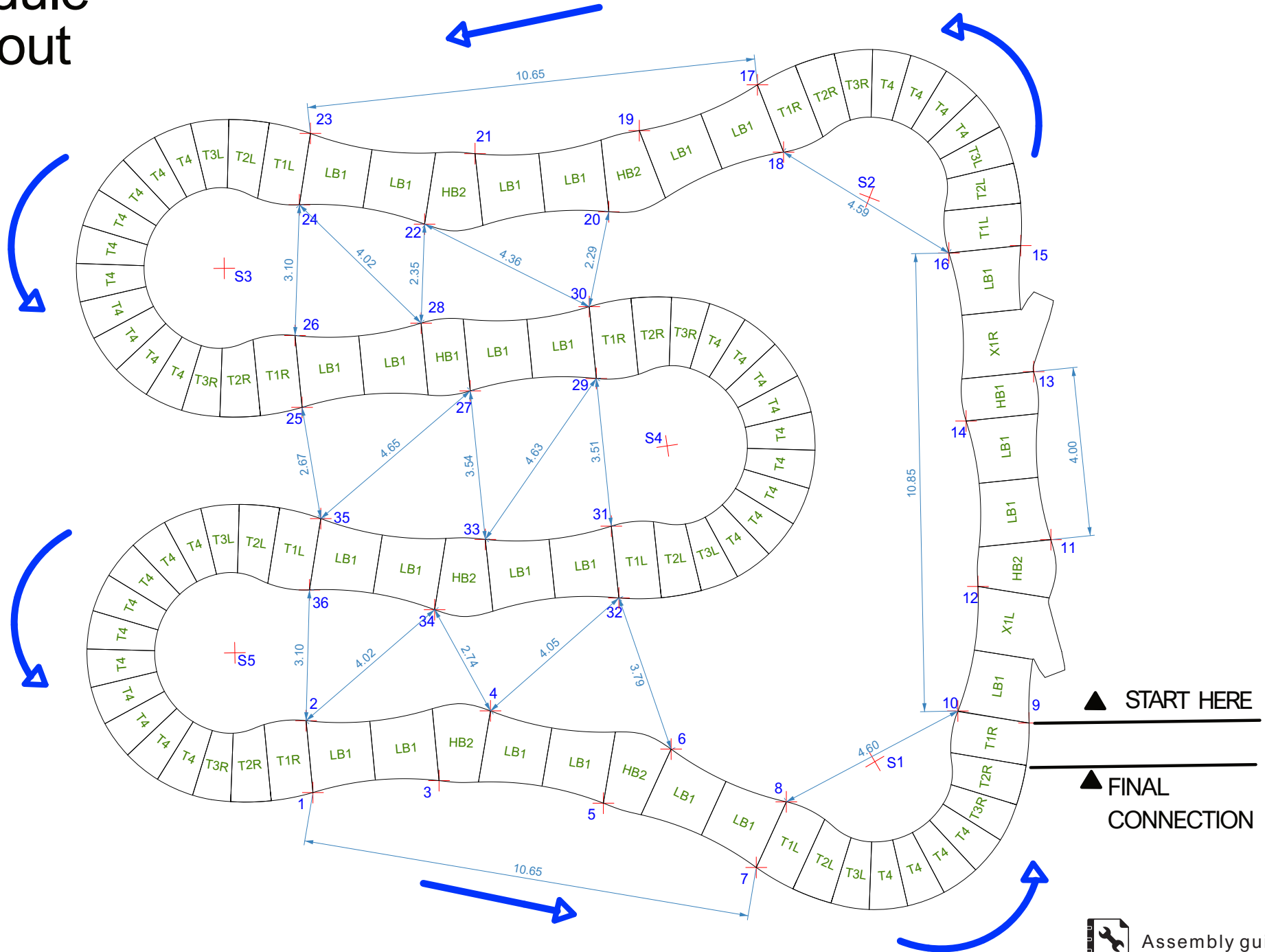


1	A=7,157	B=10,600	C=19,326
2	A=7,936	B=9,491	C=17,809
3	A=4,492	B=8,698	C=18,197
4	A=4,716	B=6,685	C=16,344
5	A=1,692	B=8,308	C=18,308
6	A=3,372	B=7,206	C=17,102
7	A=3,614	B=10,473	C=20,157
8	A=4,652	B=9,337	C=18,780
9	A=10,690	B=11,936	C=19,253
10	A=9,235	B=10,382	C=18,174
11	A=13,228	B=10,786	C=16,053
12	A=11,182	B=9,410	C=15,877
13	A=15,666	B=10,355	C=13,000
14	A=13,746	B=8,610	C=12,622
15	A=17,869	B=11,018	C=11,113
16	A=16,836	B=9,435	C=9,727
17	A=19,054	B=9,433	C=3,861
18	A=17,630	B=8,286	C=5,145
19	A=17,638	B=7,664	C=2,526
20	A=15,697	B=5,698	C=4,305
21	A=17,342	B=7,702	C=4,227
22	A=15,977	B=6,871	C=6,256
23	A=18,877	B=10,261	C=7,366
24	A=17,423	B=9,291	C=8,312
25	A=13,170	B=7,223	C=11,441
26	A=14,712	B=7,817	C=10,285
27	A=11,884	B=3,482	C=9,112
28	A=13,757	B=5,298	C=8,178
29	A=11,750	B=1,758	C=8,254
30	A=13,455	B=3,467	C=6,559
31	A=8,254	B=1,758	C=11,599
32	A=6,561	B=3,467	C=13,454
33	A=8,419	B=3,482	C=12,384
34	A=7,443	B=5,472	C=14,300
35	A=10,770	B=6,883	C=13,370
36	A=9,697	B=7,693	C=14,978

S1	A=6,953	B=9,738	C=18,475
S2	A=17,225	B=8,718	C=7,436
S3	A=16,938	B=9,988	C=10,612
S4	A=10,263	B=1,507	C=9,961
S5	A=10,194	B=9,943	C=17,141



Module Layout



8. City Armour “CA” Components



Mounting of CA panels:

1. loose screw, level the panels and press them to the top side
2. tighten the screws
3. Keep them tight together. Try to stay lined up with the module as much as possible.

In case the holes do not fit, it is possible to grind out the hole by conical and mill nr.12



covers for LB1

City Armour "CA" Components and Covers

Once the Final Connection has been made, proceed with installing the City Armour and covers to LB1 modules.

NOTE:CA2 Components have both a Right side "CA2R" that fits on the T2R and a Left side "CA2L" that fits on the T2L.

NOTE:C34 Components are universal for the rest of the corner modules: T3R,T3L and T04.

The tightening of the M6x30 bolt must be done manually.

A drill must not be used!!

If the thread of the moulded nut is damaged, the thread must be repaired with a tapping tool (13).



screw washer for CA



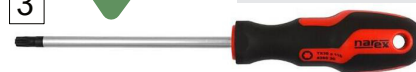
C34

C34

C34

!!Always work from one end to the other!!

3



You must make visual control and complete the form before unpacking the pallets and before the installation!

VISUAL CONTROL - FORM		
number of order:		
date:		
name of the controller:		signature:
contact detail of the controller:	phone number:	email:
status:		notes
	cleanliness:	ok ☐ or
	cracks:	ok ☐ or
	edges:	ok ☐ or
	damages of pallets:	ok ☐ or
	other damages:	

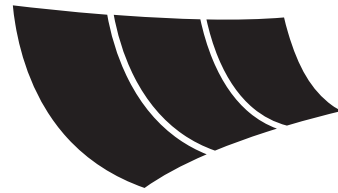


It is necessary to take a photo of damages and contact your saler.



When you don't make the control and complete the form we can't accept your claim.





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