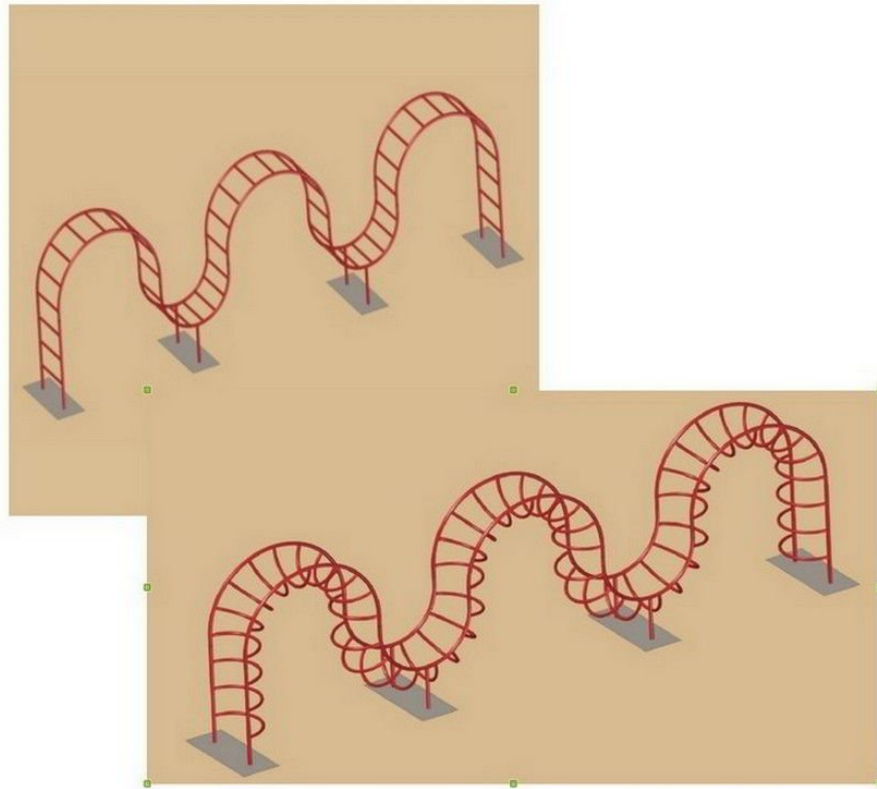


## Wave ladder climber plans

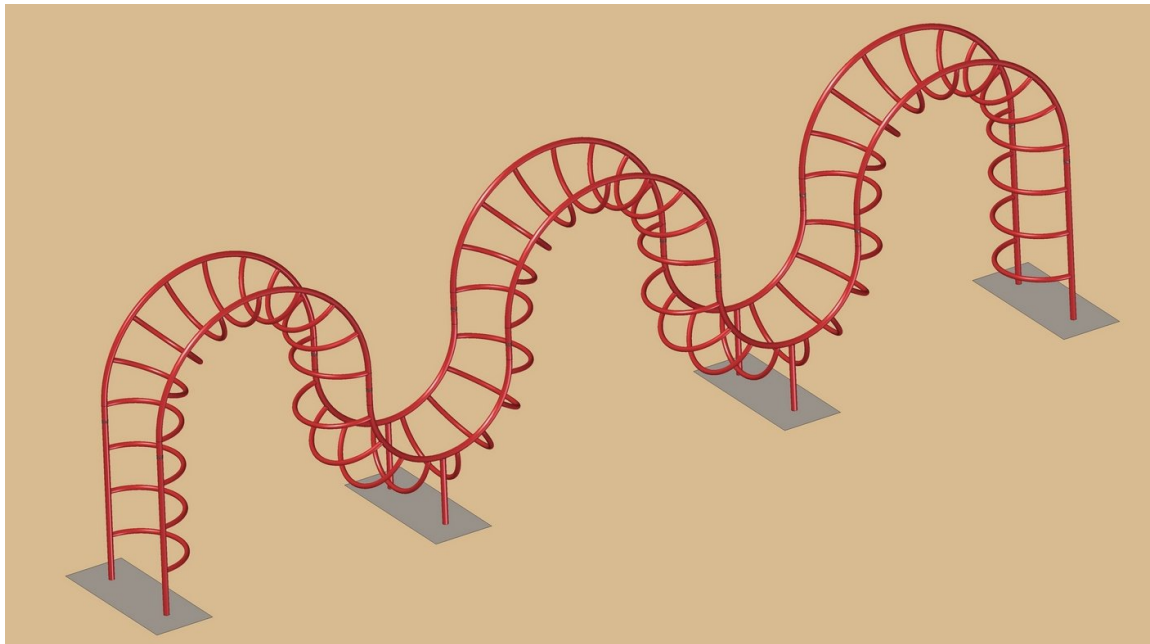


On this page we are presenting plans with which you can make 2 versions of the same playground equipment called 'wave ladder climber'. Ladder climbers are a large family of playground equipment and in the past there used to be literally no children's playground that didn't have some version of ladder climber. With this ladder climber of ours, the handrail (and therefore the whole climber) is a waveshape, or expertly said, a sinusoidal shape. In one version there are straight rungs, and in the other - circularly curved rungs. Rungs are easy-to-grasp and made of 32mm (1¼") steel tubes. The rungs can be made of tubes 25mm (1") – 32mm (1¼") in diameter. The parts that make up the handrails are made of steel tubes 38mm (1½") in diameter, but you can also use a slightly larger diameter. The entire climber assembly is installed on the ground by an in-ground mounting system.

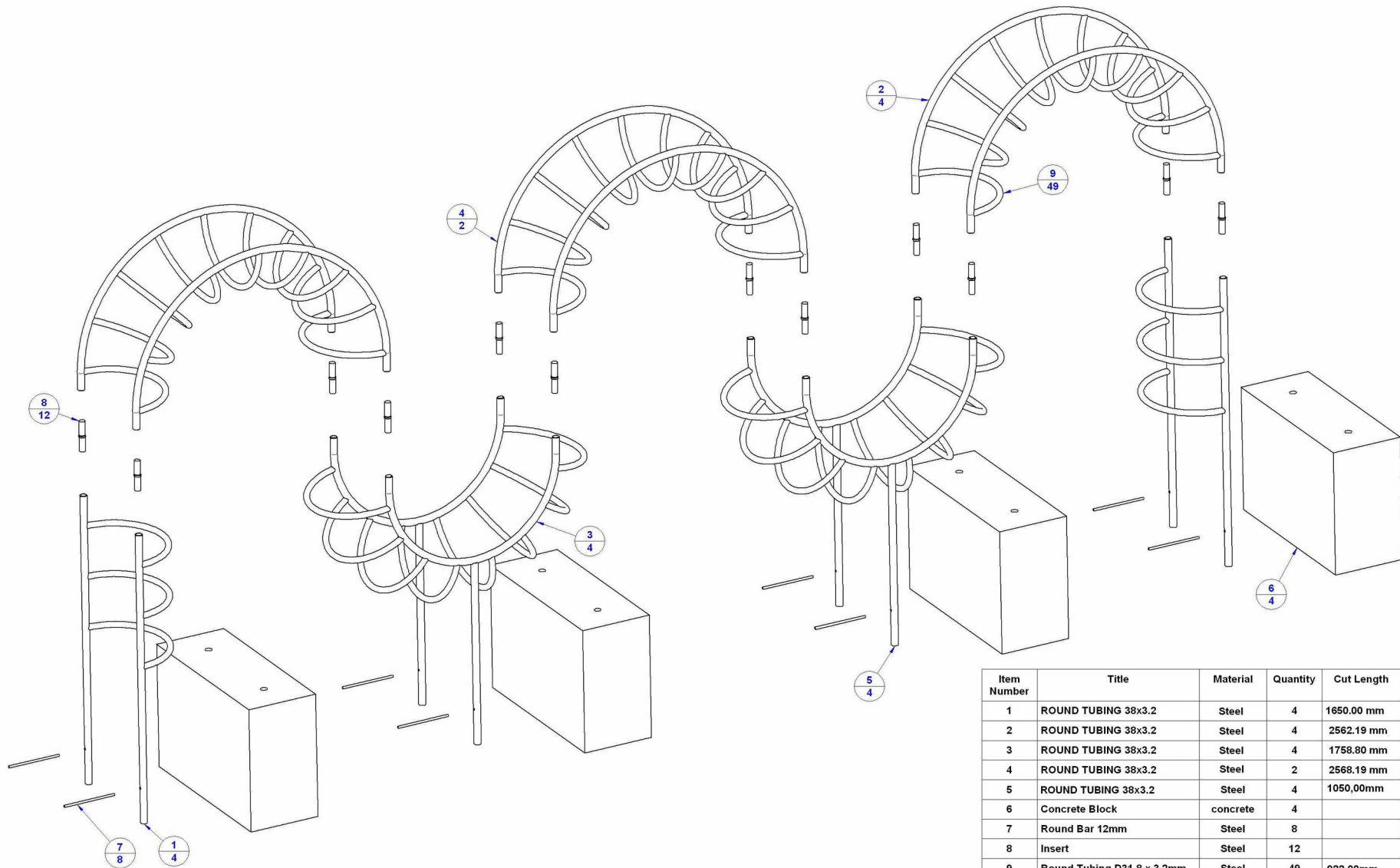
The ladder climbers may look simple, but don't let that fool you. Kids can play on it for hours, climbing up and down, hanging and swinging on it. And when they get tired, they will sit on the ladder climber and talk for hours, or run around it chasing each other. This piece of playground climbing equipment is best suited for children aged 5-12. It is popular not only for its easy construction, but also for the fact that children actually do a complete body exercise on it, developing their finger muscles as well as the muscles of the arms, legs and stomach. In other words, the ladder climber is designed to help children develop strength, flexibility, agility and coordination.

In the plan you will find drawings of all parts, an assembly drawing, parts list and exploded view, i. e., the complete technical documentation that contains all the dimensions you need to build this climber. Of course, if you want to make your own original climber, use this plan for help only. Draw the shape of the ladder climber you want and use the rest of its structural elements and their dimensions based on our plan. To build a ladder climber like this, you will need few tools: an angle grinder, a tape measure, various clamps... Also, basic knowledge of metalworking and welding will be required. The most difficult thing in this project is to bend the parts (rung bars and handrail parts) and make the insert parts. These are easiest to make by lathe, so if you do not have one but you know where you can have them done for you (some workshop/company that has a bending machine and lathe), we recommend that you contact them!

## Rounded wave ladder climber plan

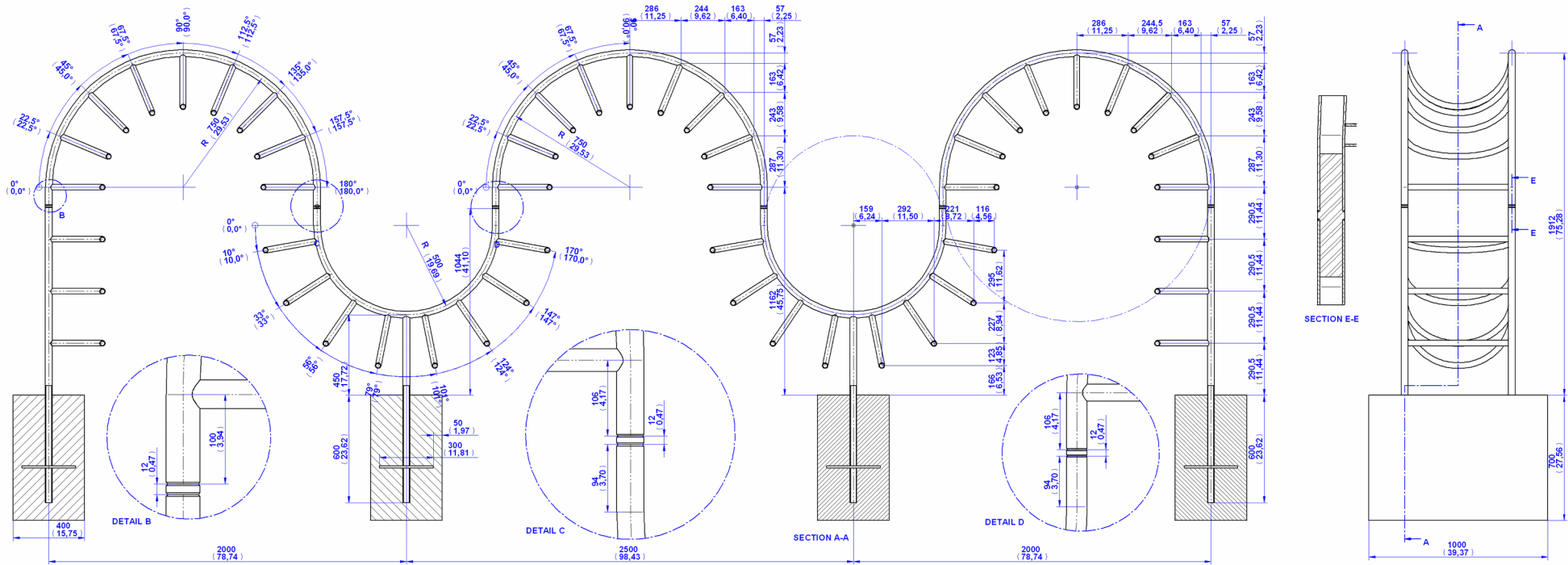


## Parts list

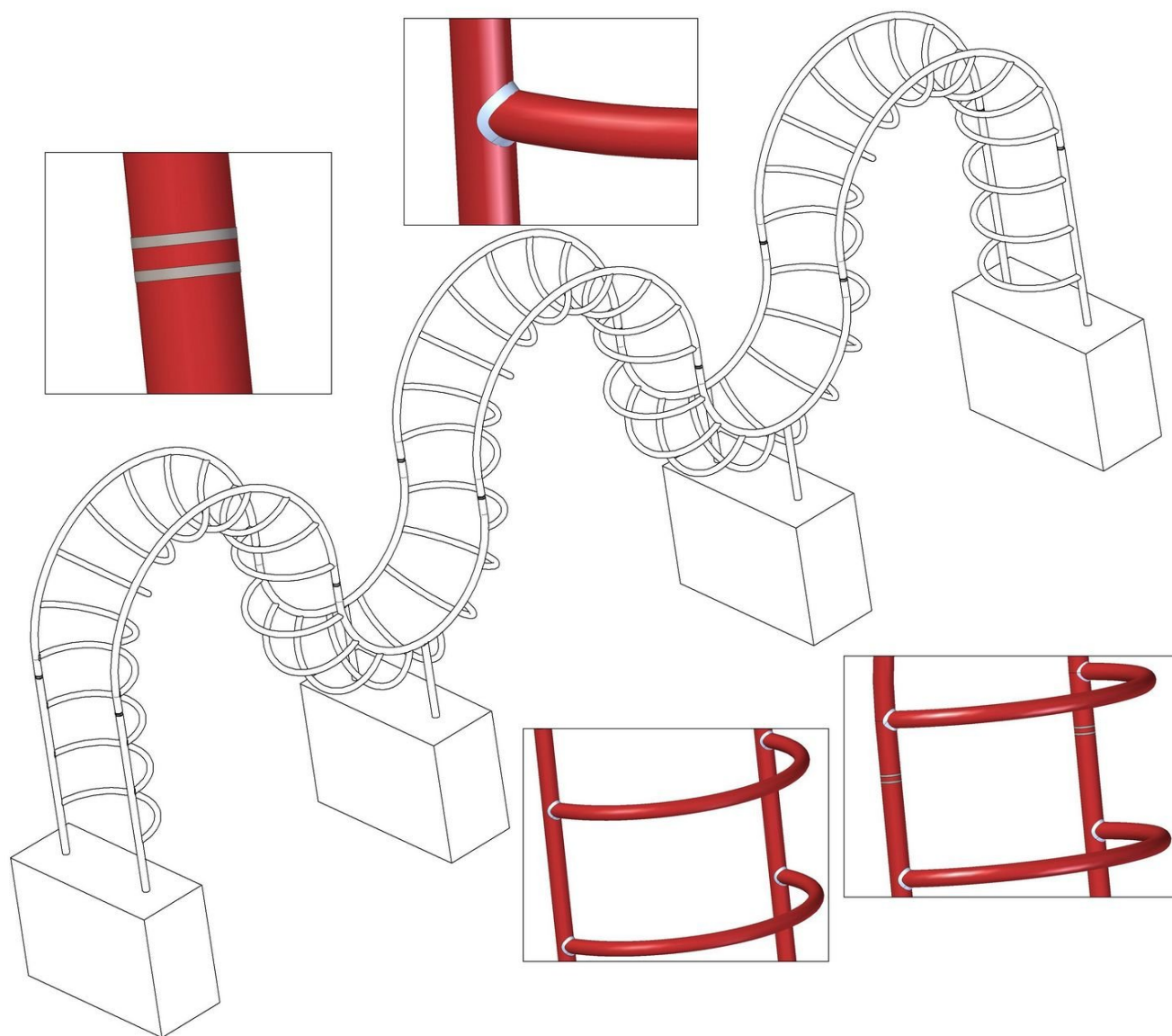


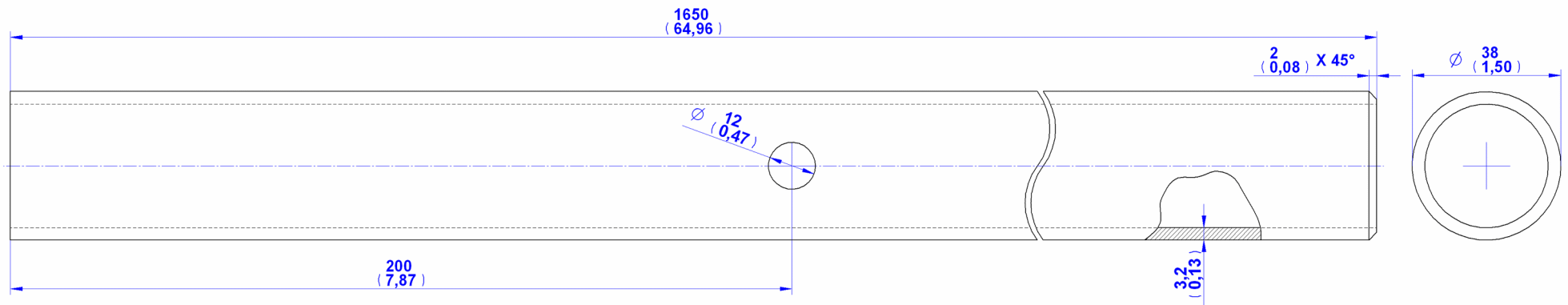
Item Number	Title	Material	Quantity	Cut Length
1	ROUND TUBING 38x3.2	Steel	4	1650.00 mm
2	ROUND TUBING 38x3.2	Steel	4	2562.19 mm
3	ROUND TUBING 38x3.2	Steel	4	1758.80 mm
4	ROUND TUBING 38x3.2	Steel	2	2568.19 mm
5	ROUND TUBING 38x3.2	Steel	4	1050.00mm
6	Concrete Block	concrete	4	
7	Round Bar 12mm	Steel	8	
8	Insert	Steel	12	
9	Round Tubing D31,8 x 3,2mm	Steel	49	922.00mm

## 2D assembly drawing

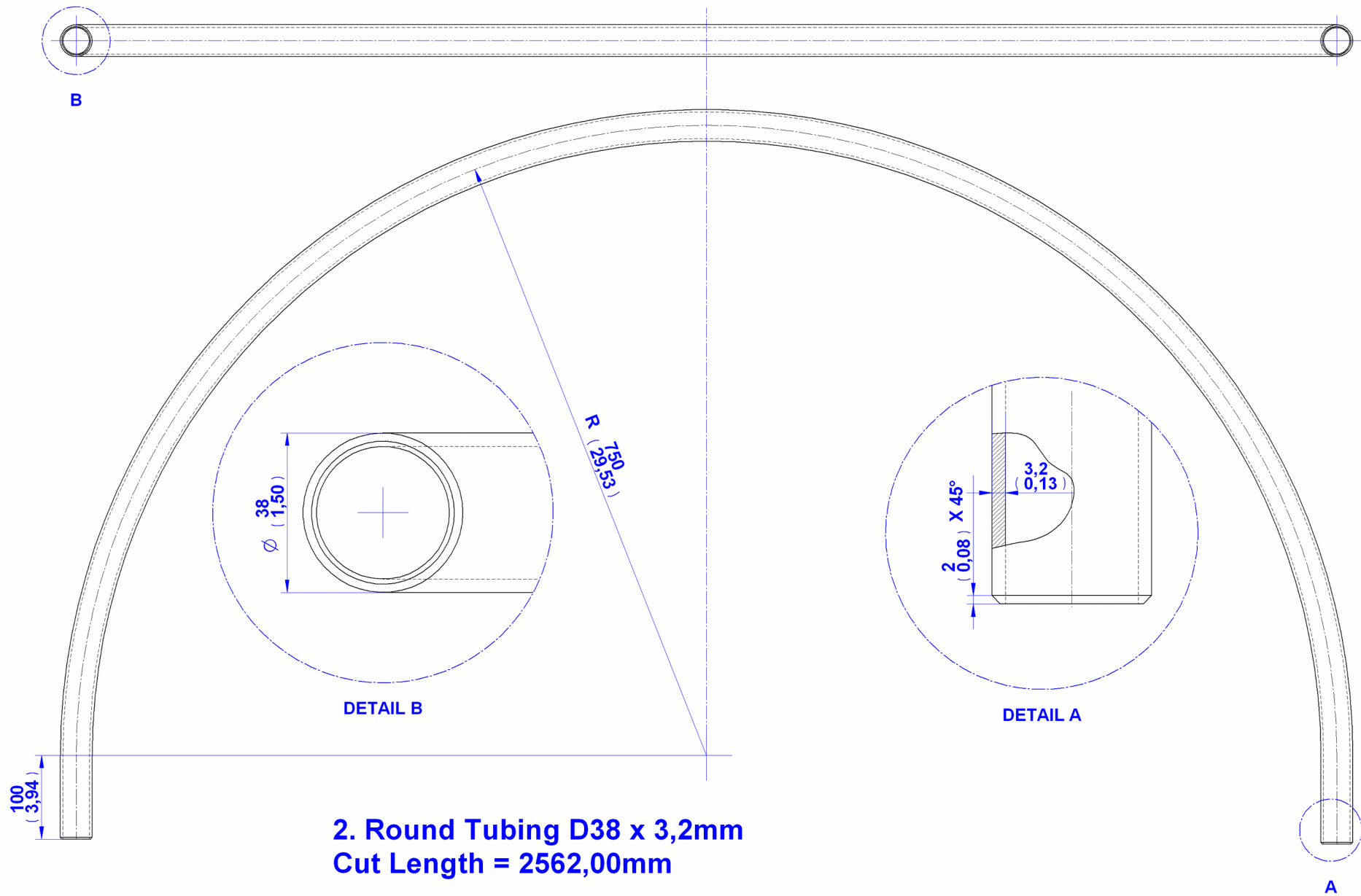


## Welds

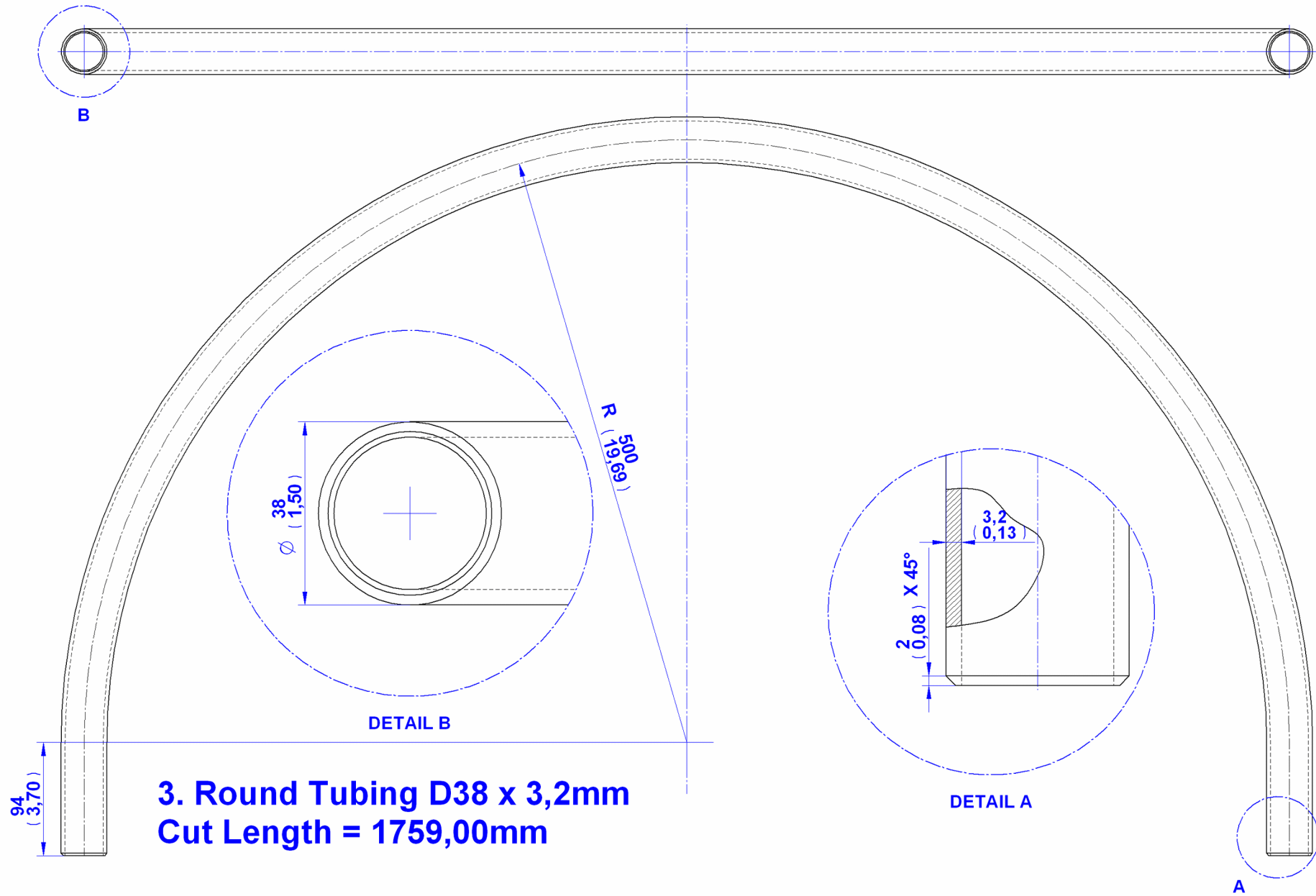


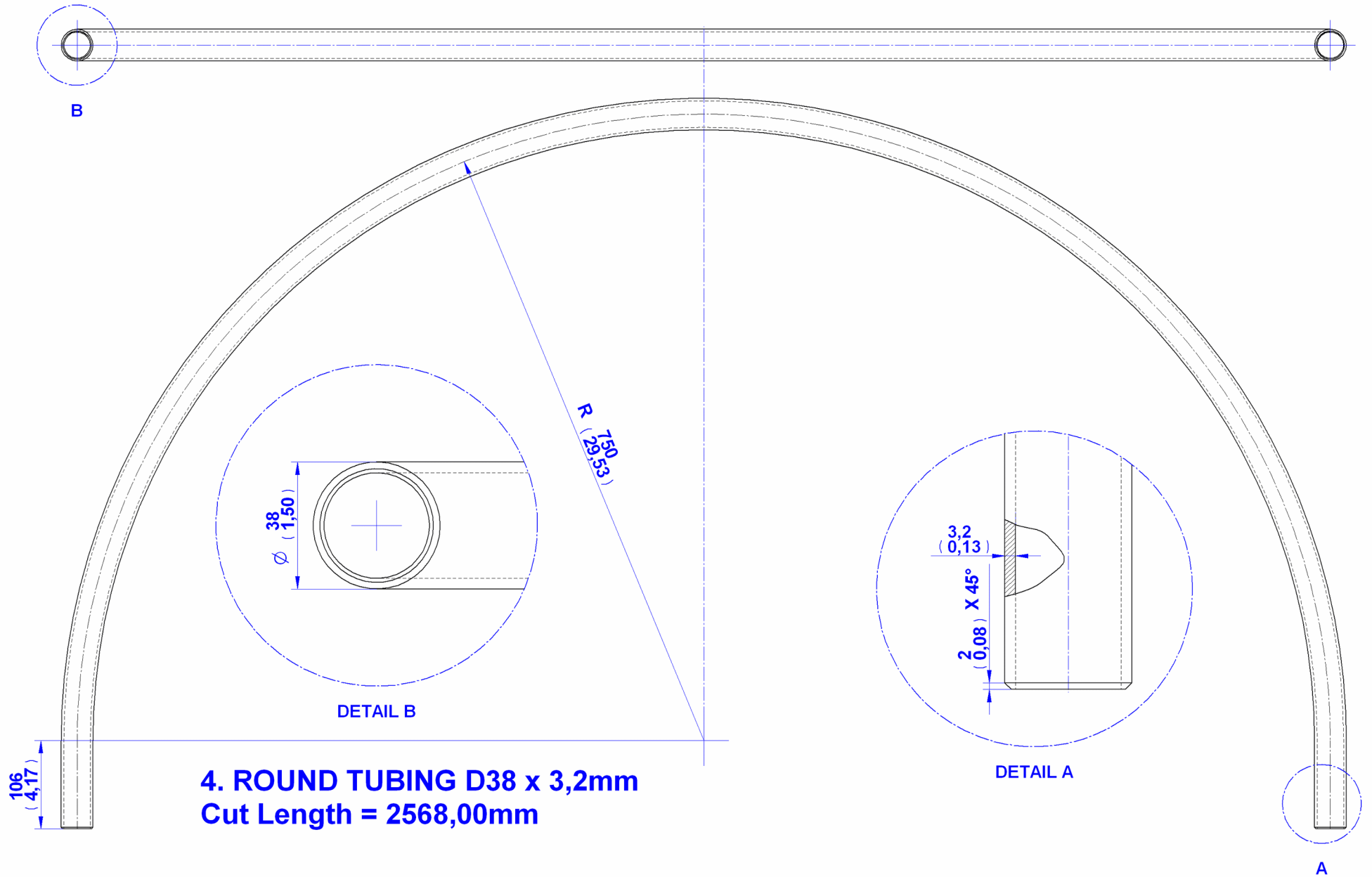


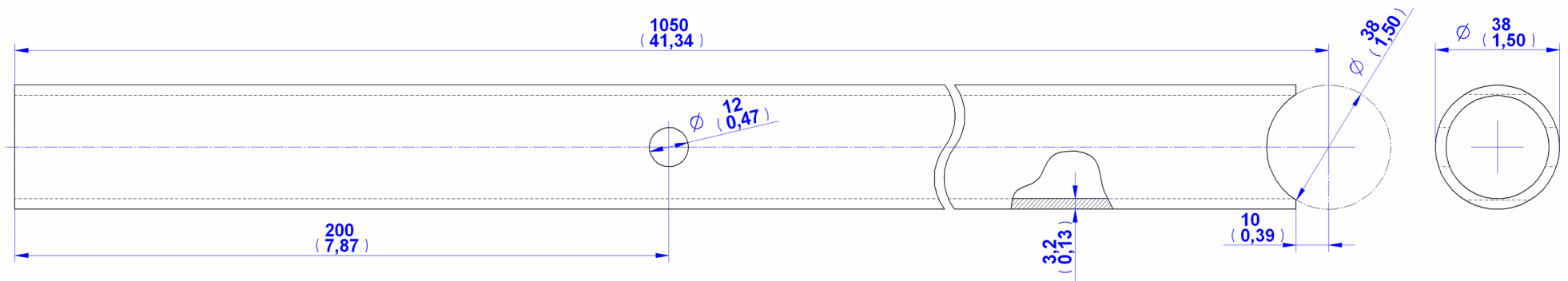
**1. Round Tubing D38x3,2mm  
Cut Length = 1650,00mm**



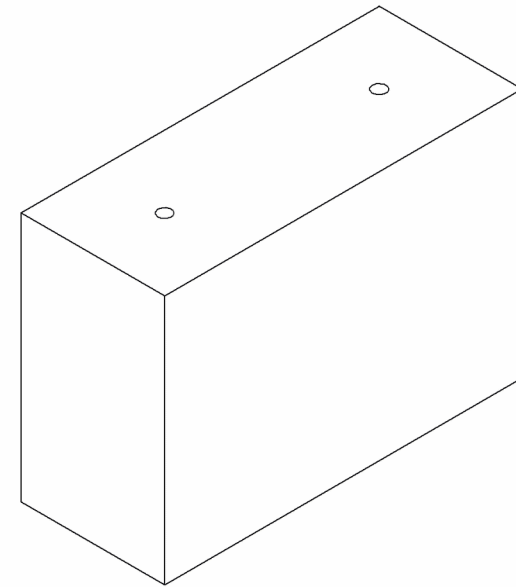
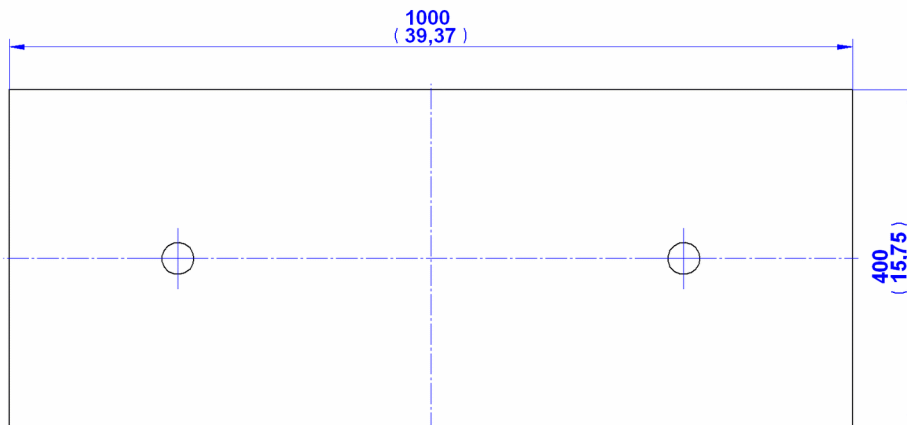
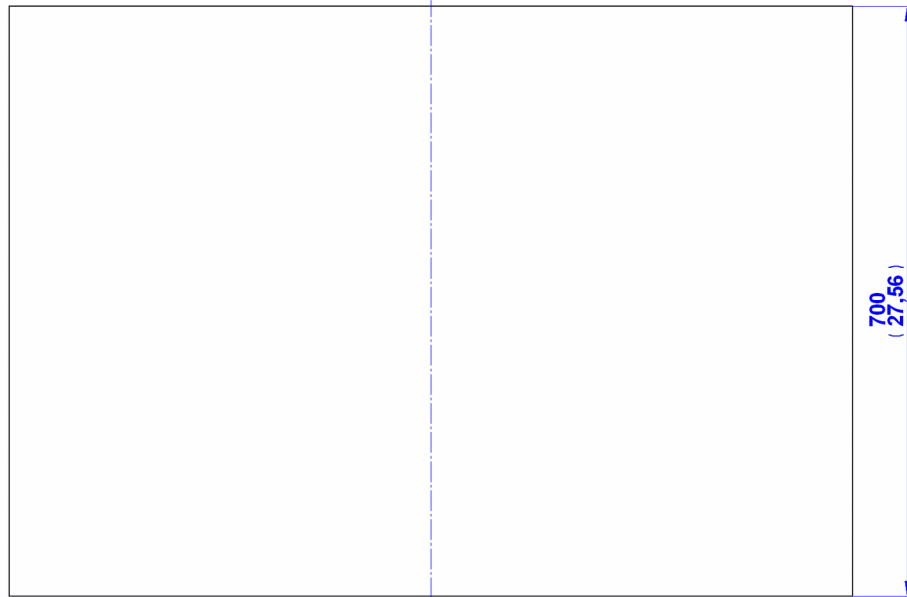




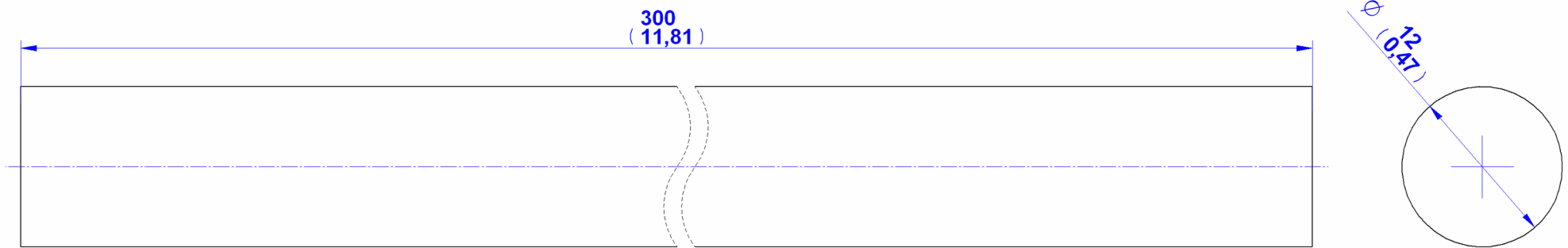




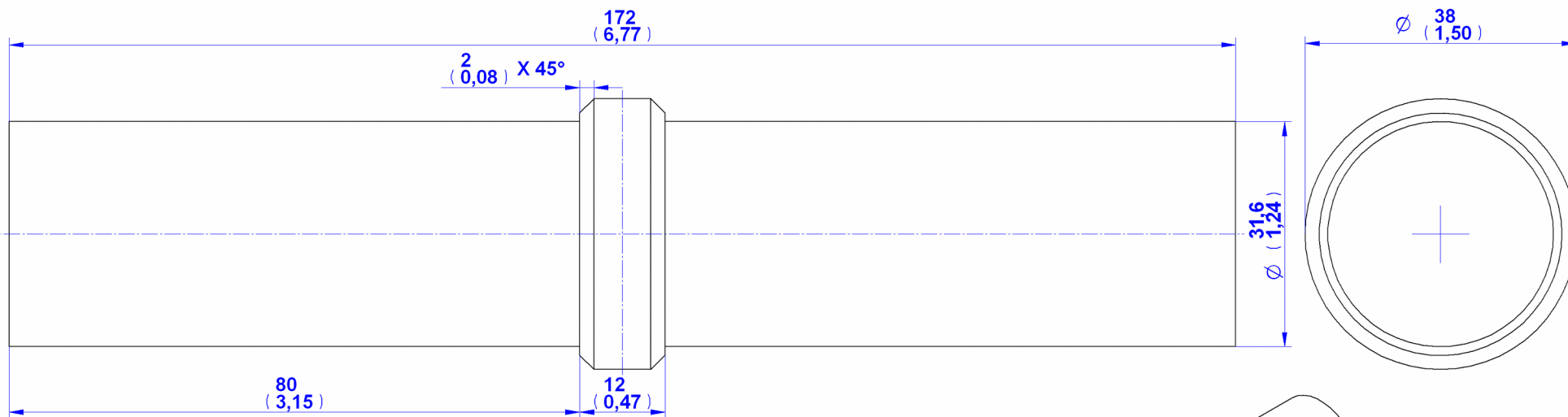
**5. Round Tubing D38 x 3,2mm  
Cut Length = 1050,00mm**



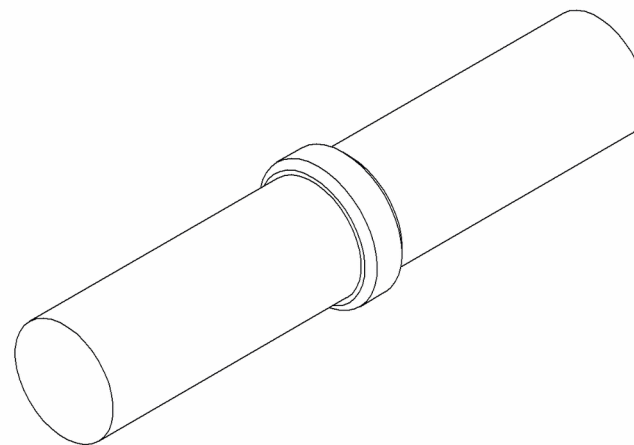
## 6. Concrete block

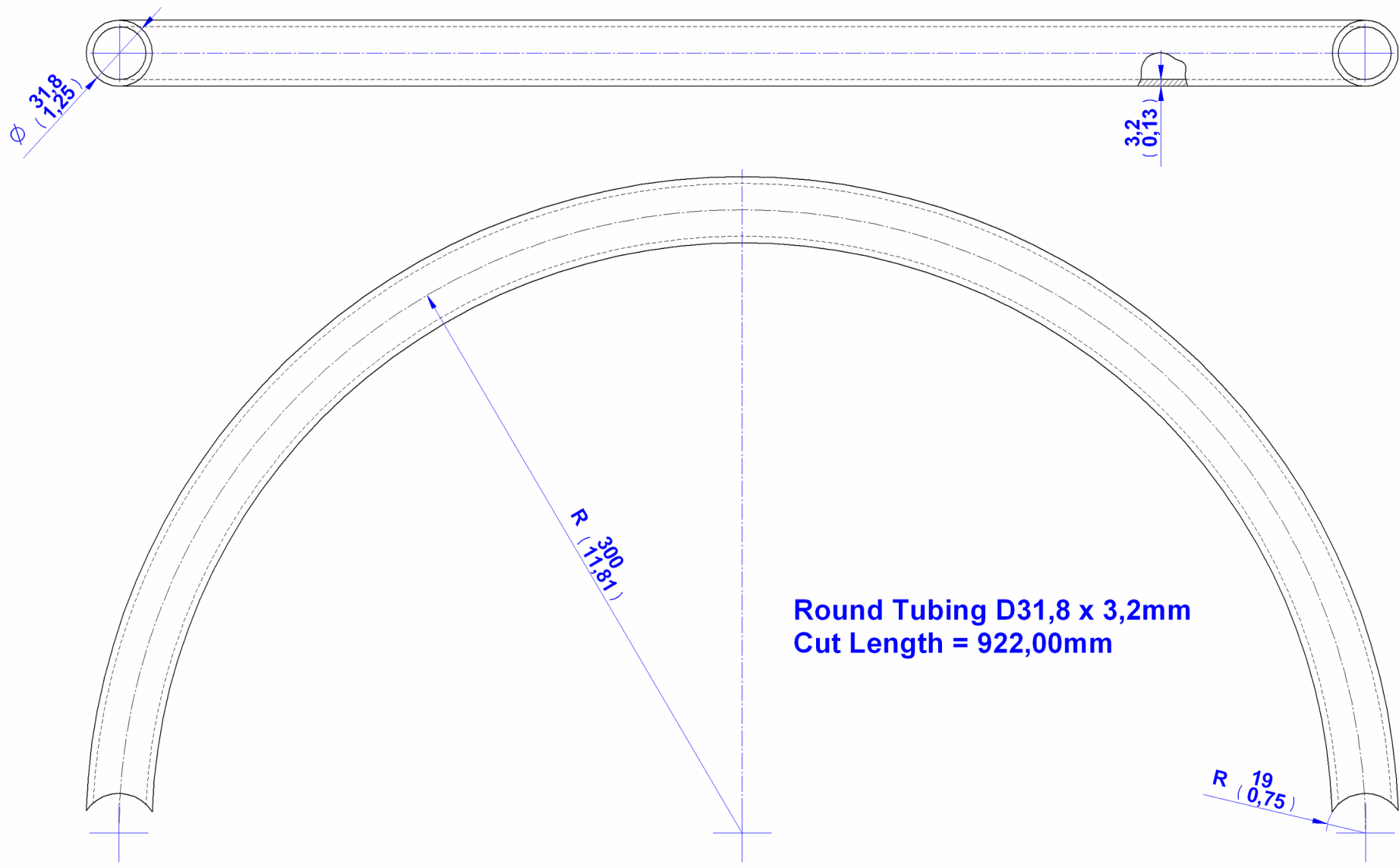


**7. Round Bar 12mm**

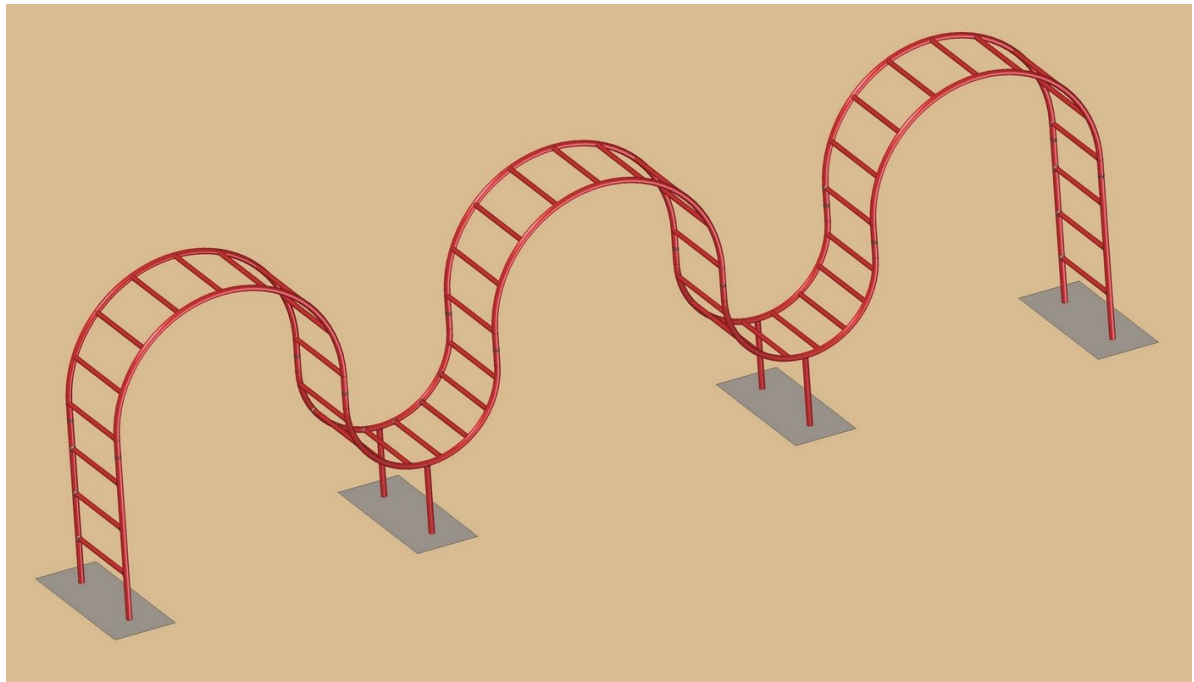


## 8. Insert



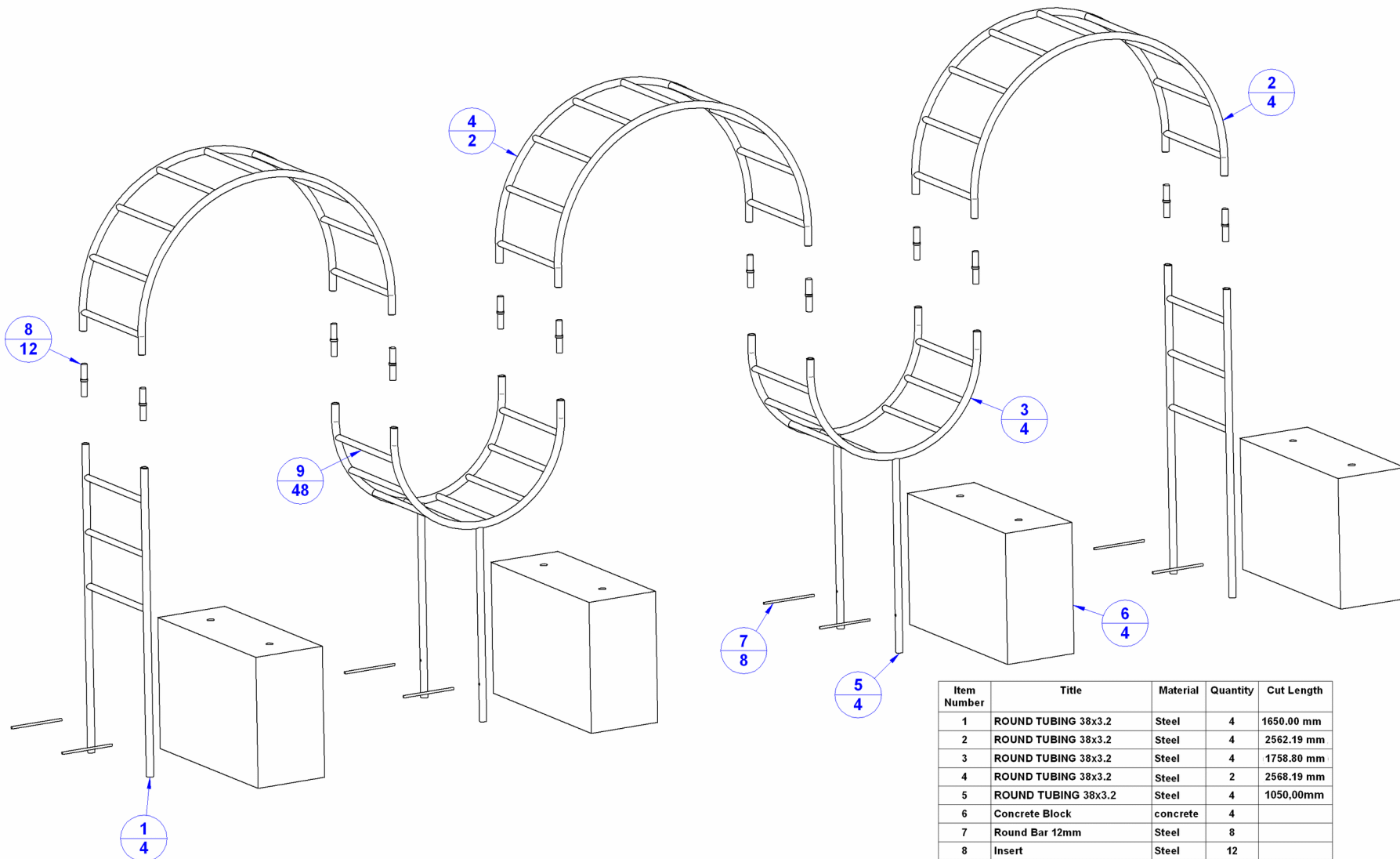


## Wave ladder climber plan



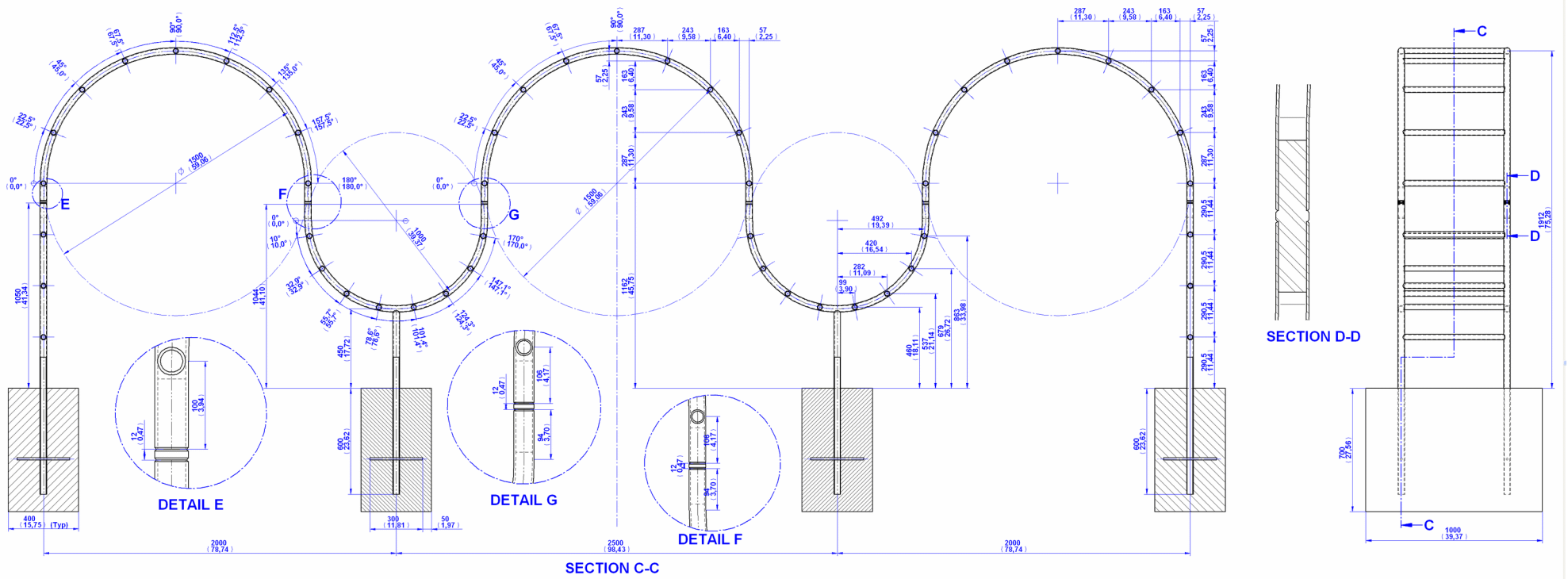


## Parts list

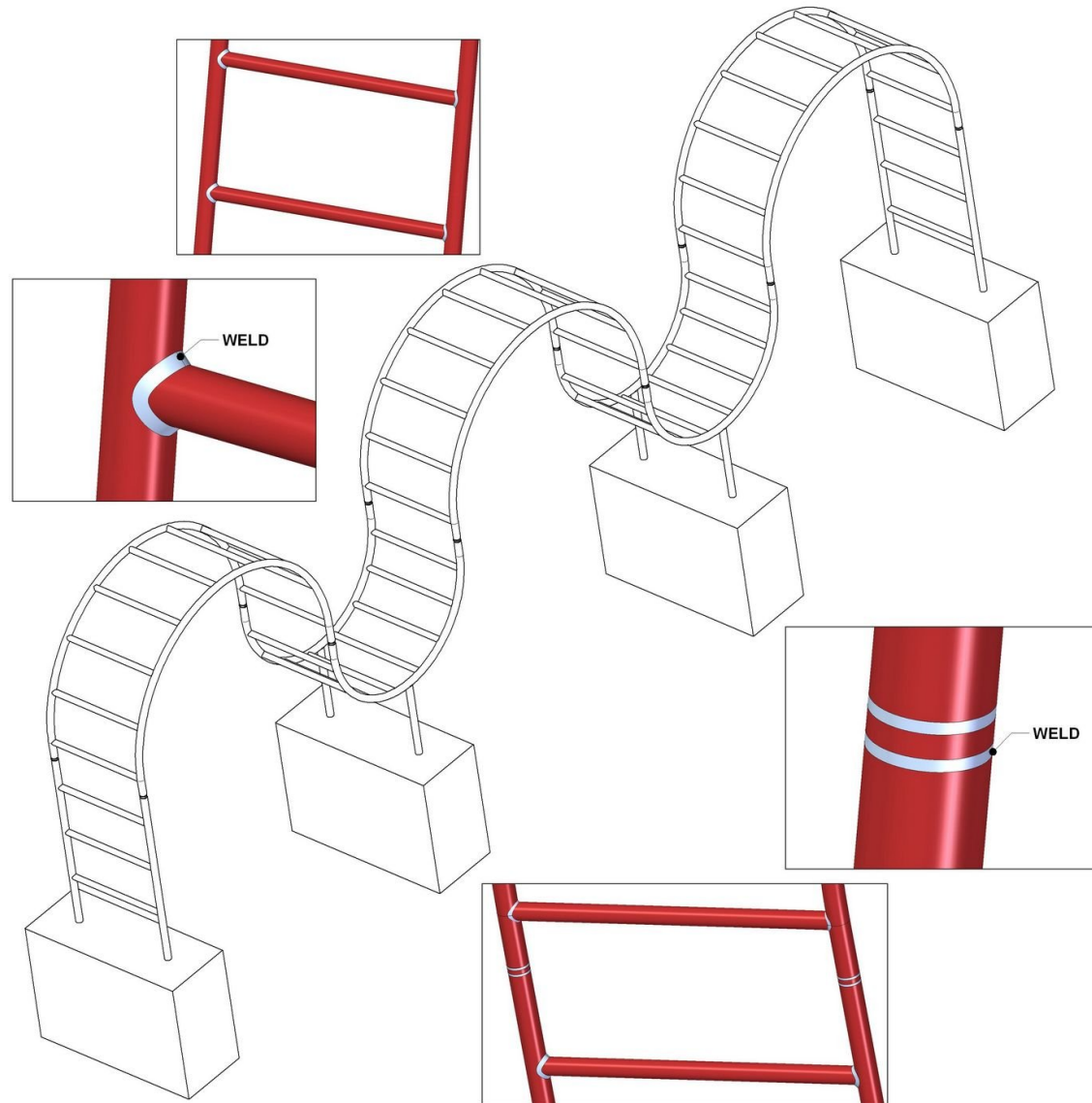


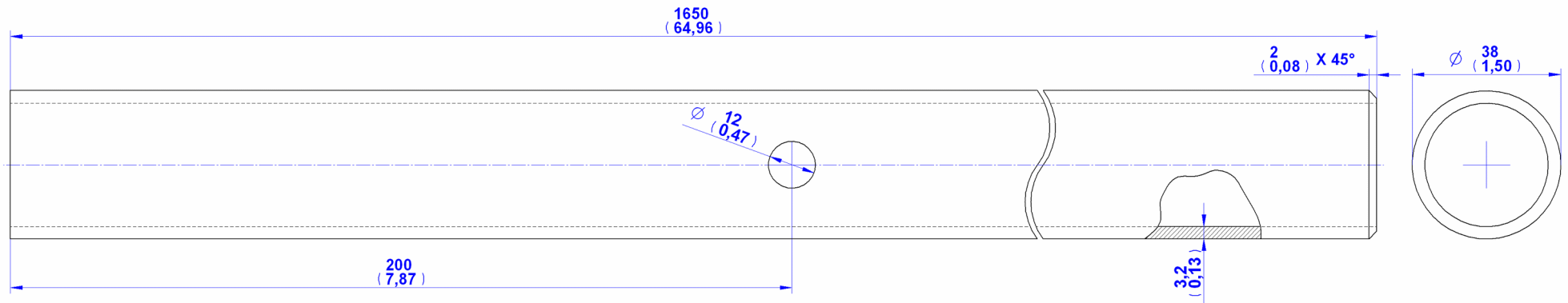
Item Number	Title	Material	Quantity	Cut Length
1	ROUND TUBING 38x3.2	Steel	4	1650.00 mm
2	ROUND TUBING 38x3.2	Steel	4	2562.19 mm
3	ROUND TUBING 38x3.2	Steel	4	1758.80 mm
4	ROUND TUBING 38x3.2	Steel	2	2568.19 mm
5	ROUND TUBING 38x3.2	Steel	4	1050,00mm
6	Concrete Block	concrete	4	
7	Round Bar 12mm	Steel	8	
8	Insert	Steel	12	
9	Round Tubing D31,8 x 3,2mm	Steel	49	580,00mm

## 2D assembly drawing

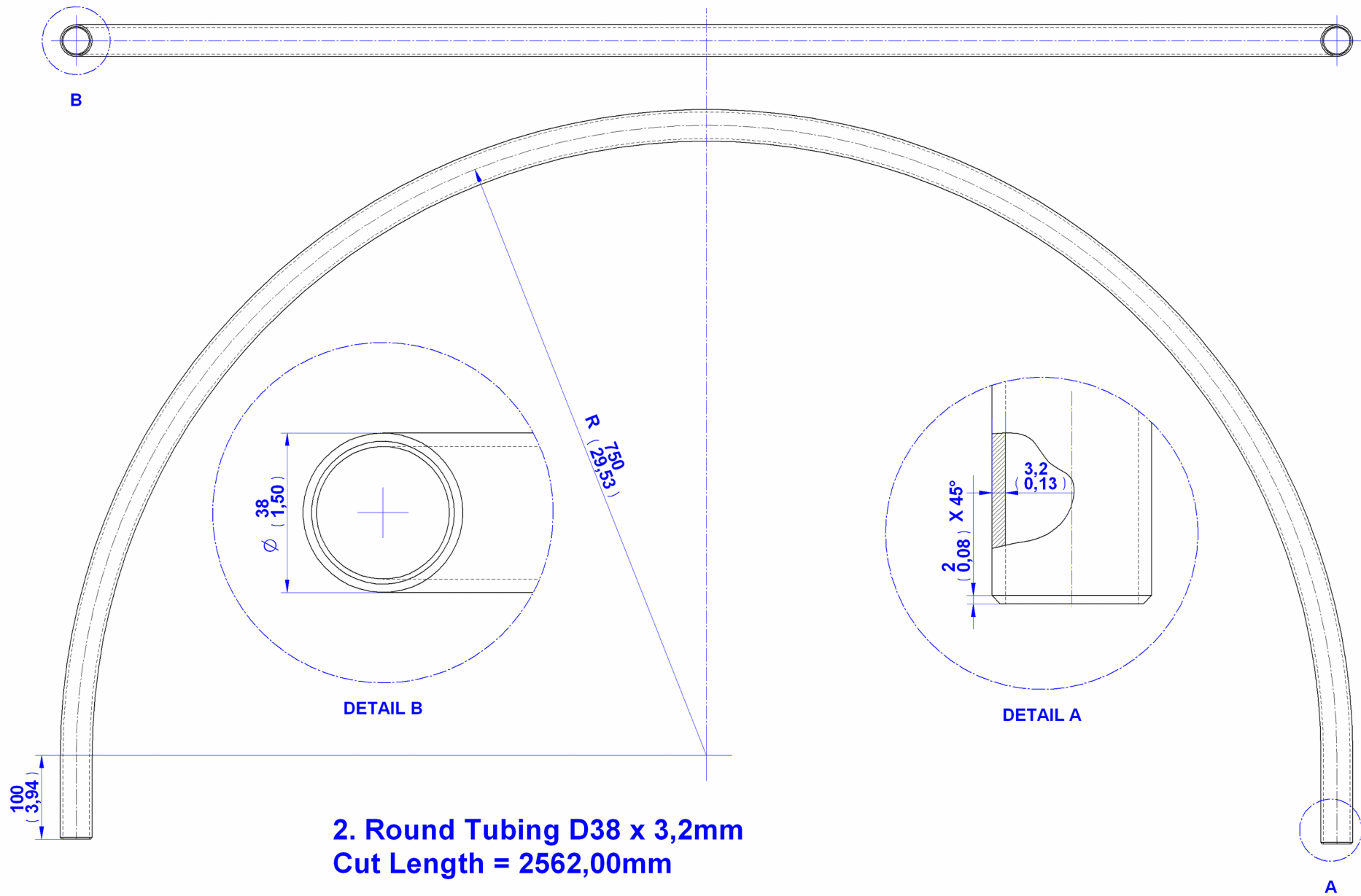


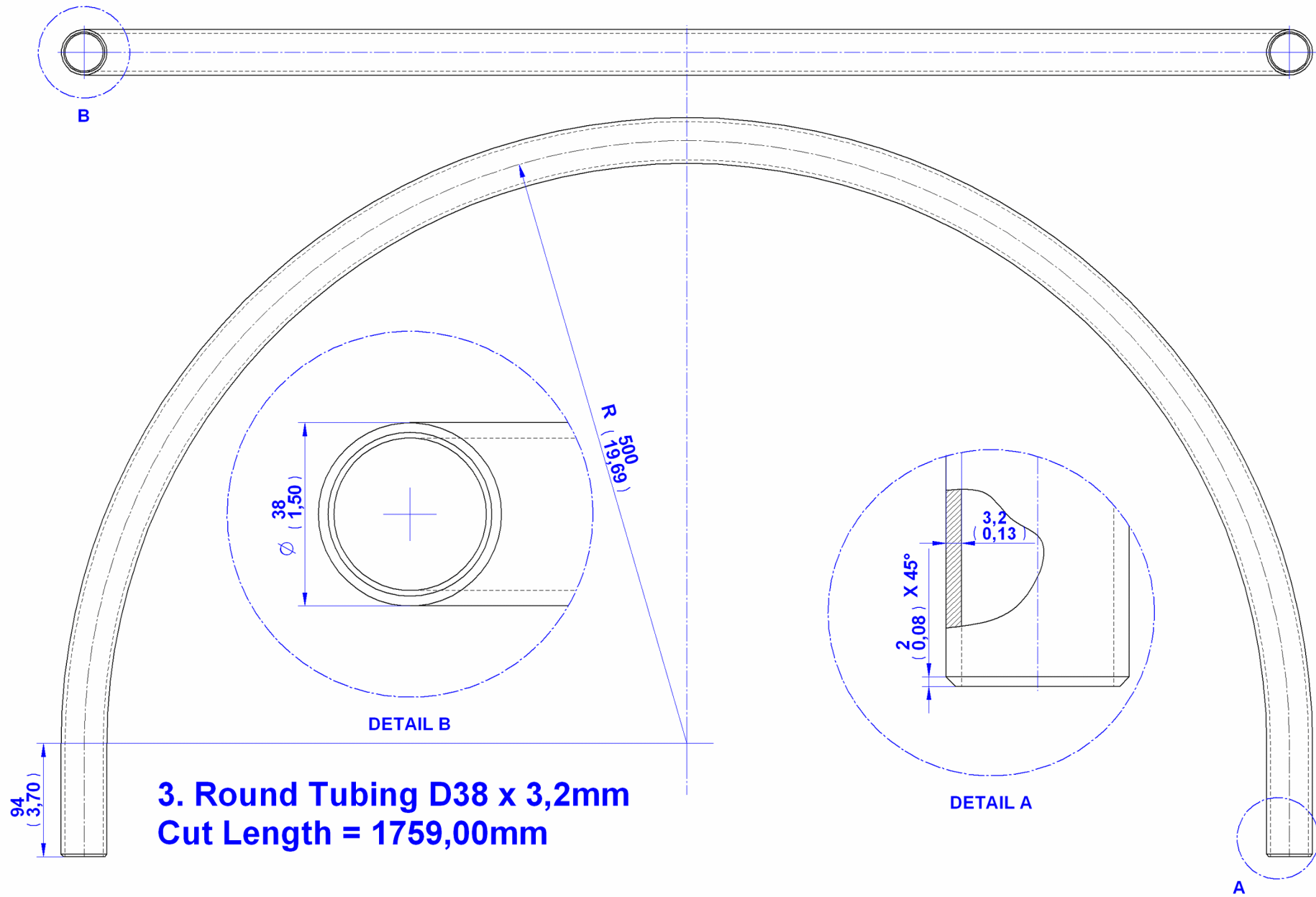
## Welds

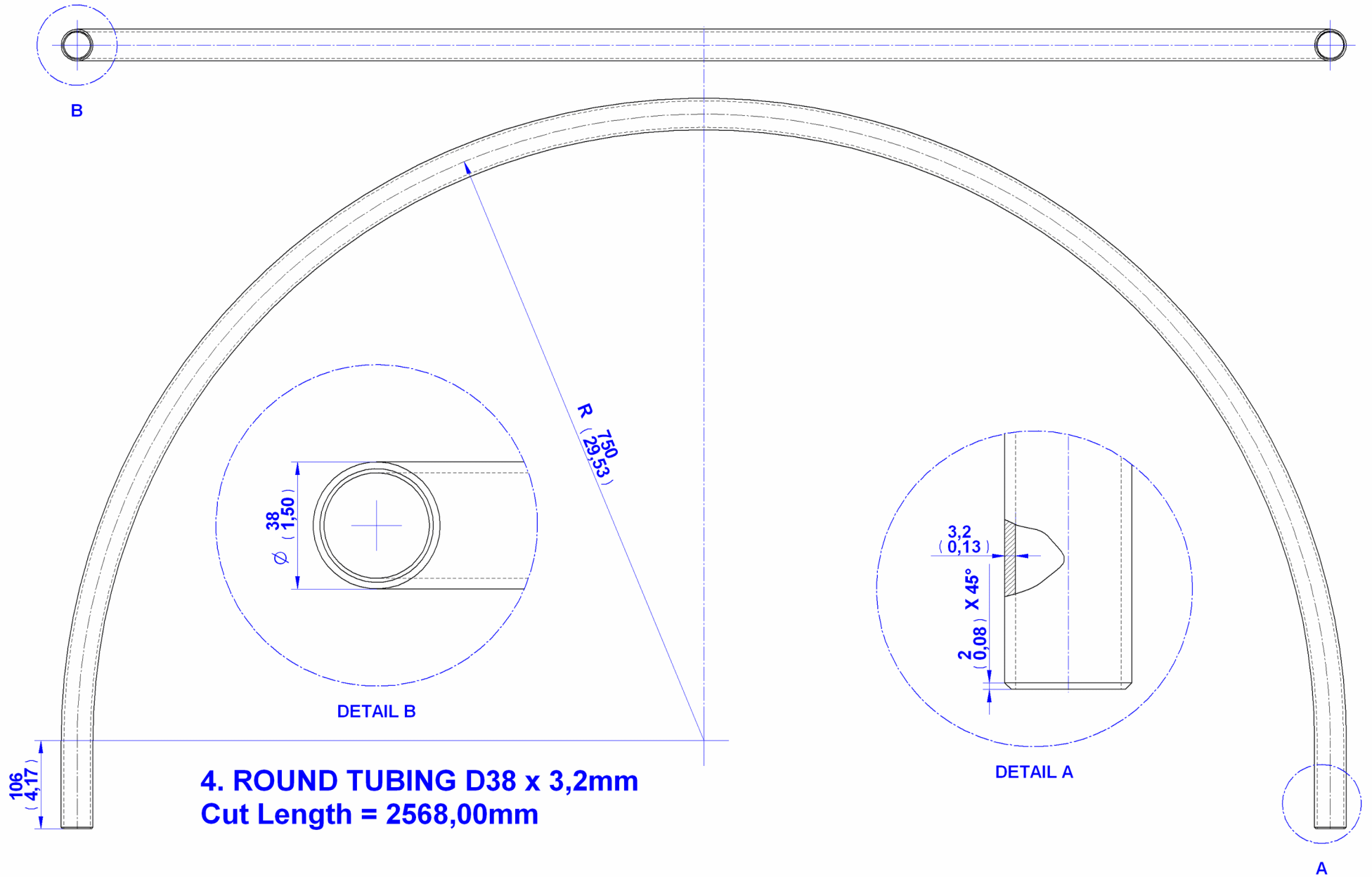


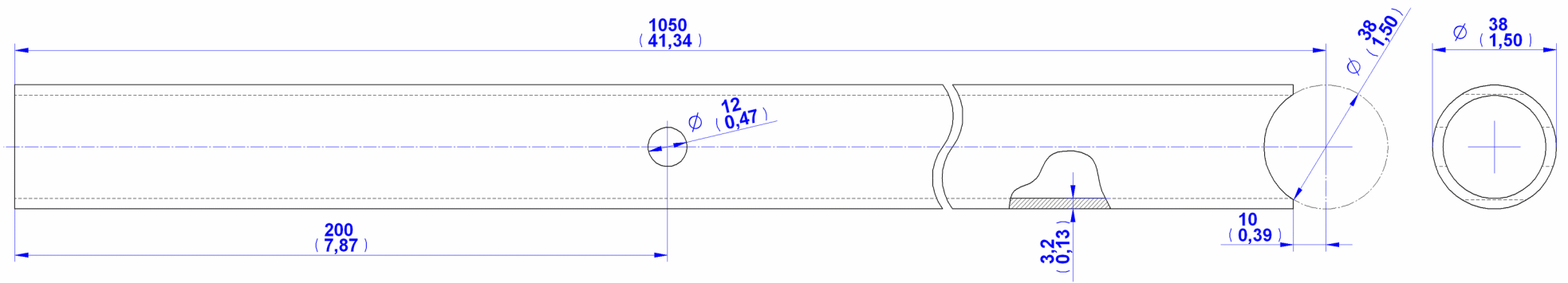


**1. Round Tubing D38x3,2mm**  
**Cut Length = 1650,00mm**



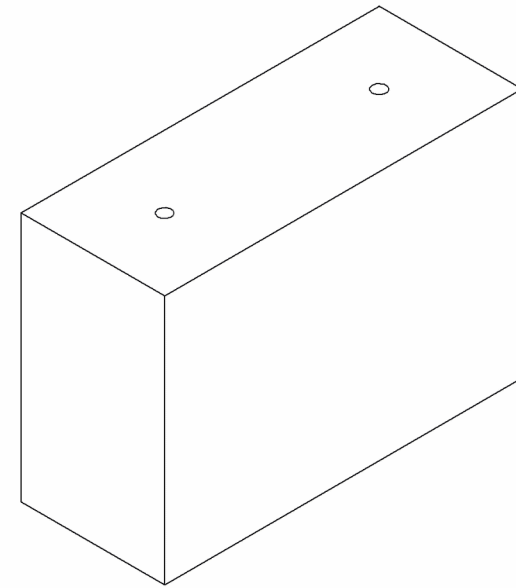
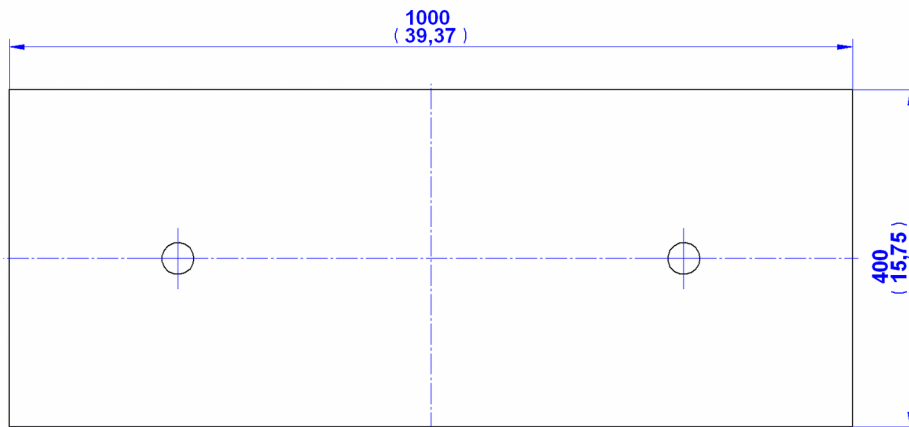
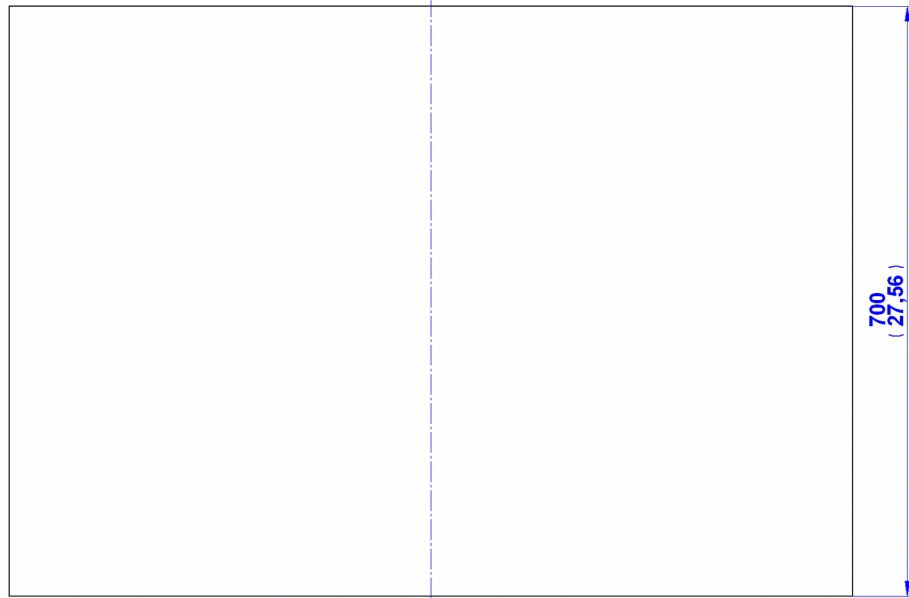




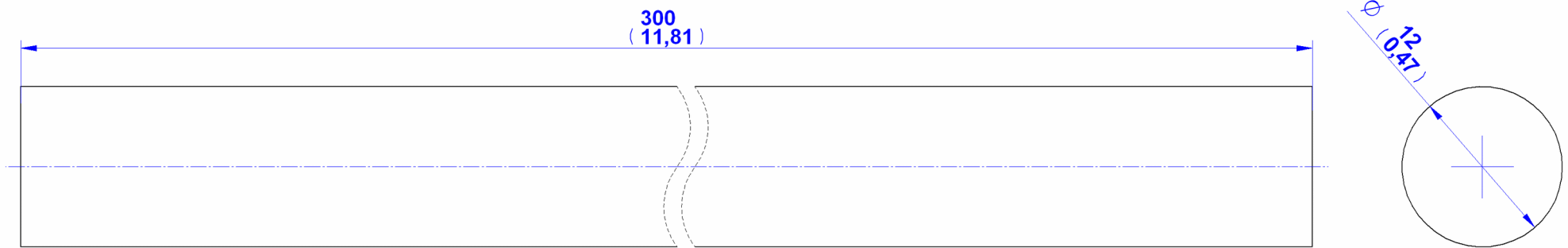


**5. Round Tubing D38 x 3,2mm  
Cut Length = 1050,00mm**

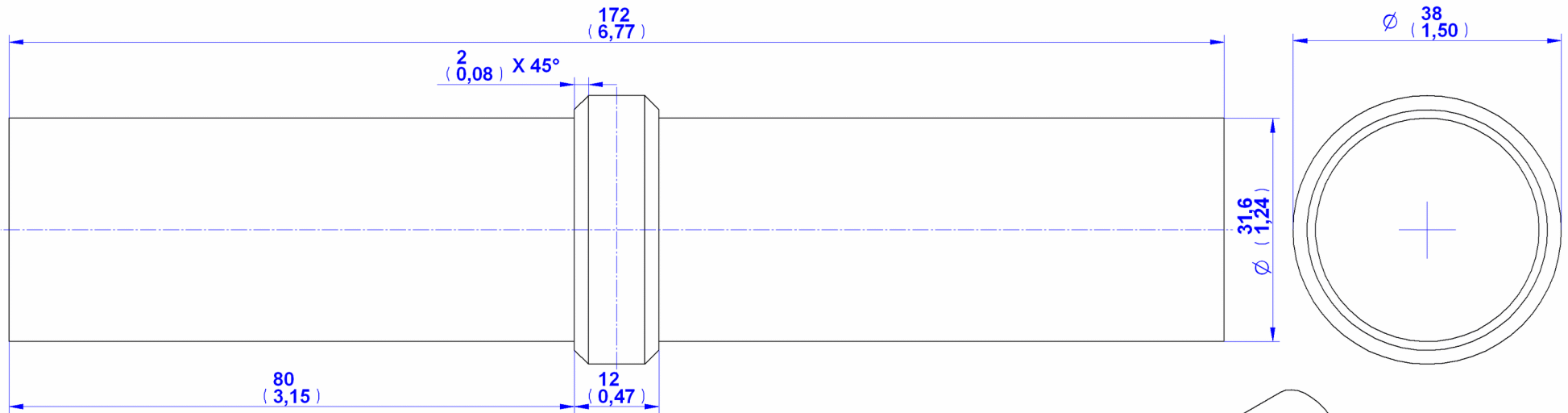




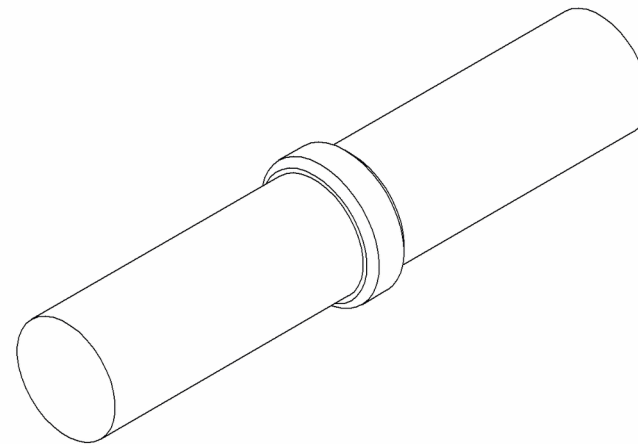
## 6. Concrete block

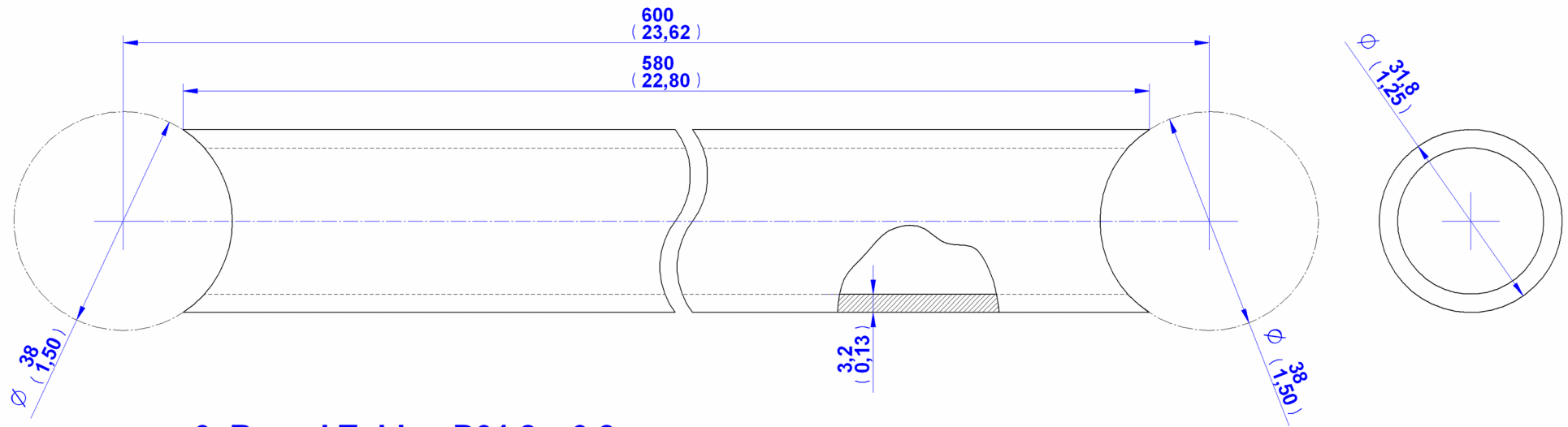


**7. Round Bar 12mm**



## 8. Insert

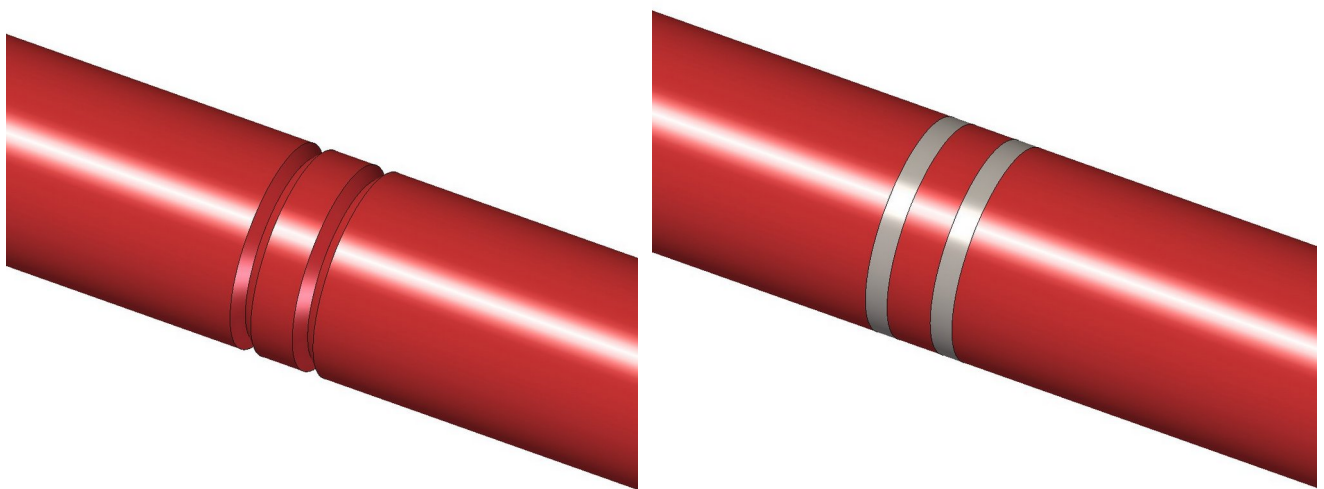
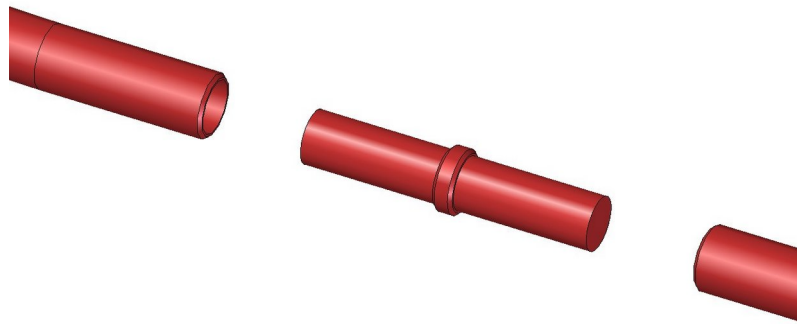
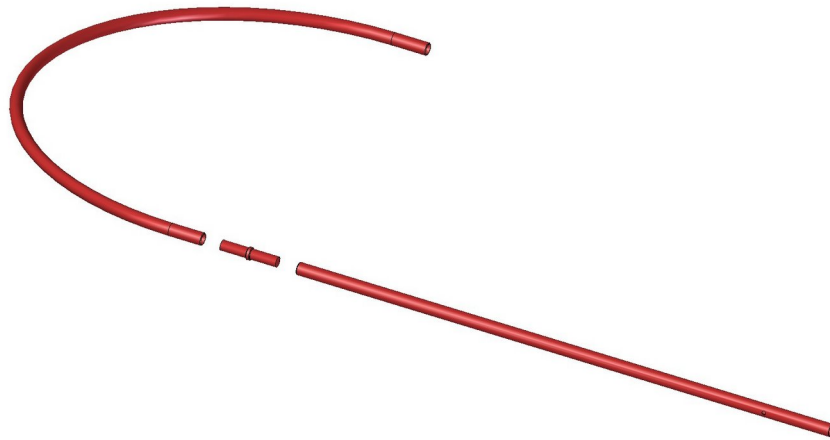


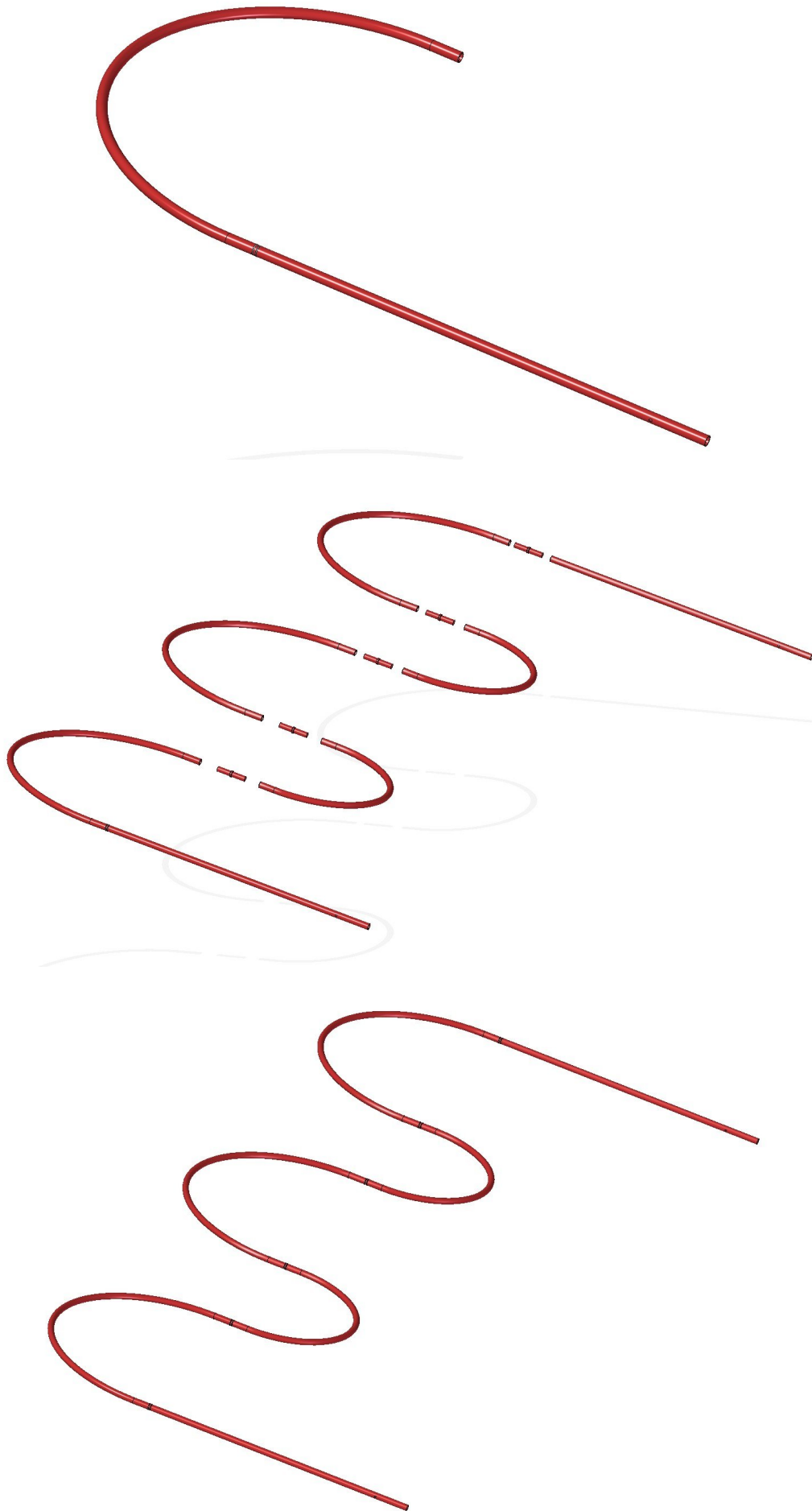


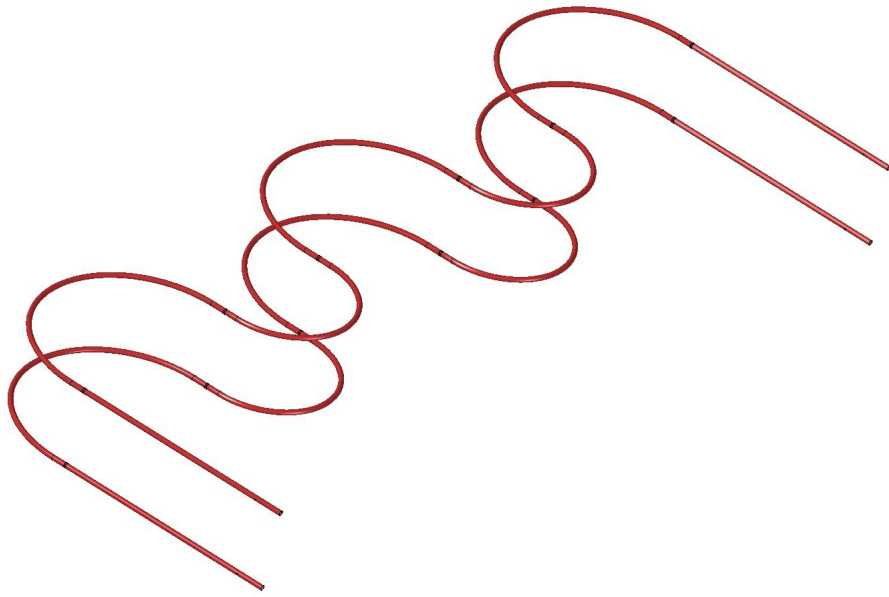
**9. Round Tubing D31,8 x 3,2mm  
Cut Length = 580,00mm**

## Assemblage images

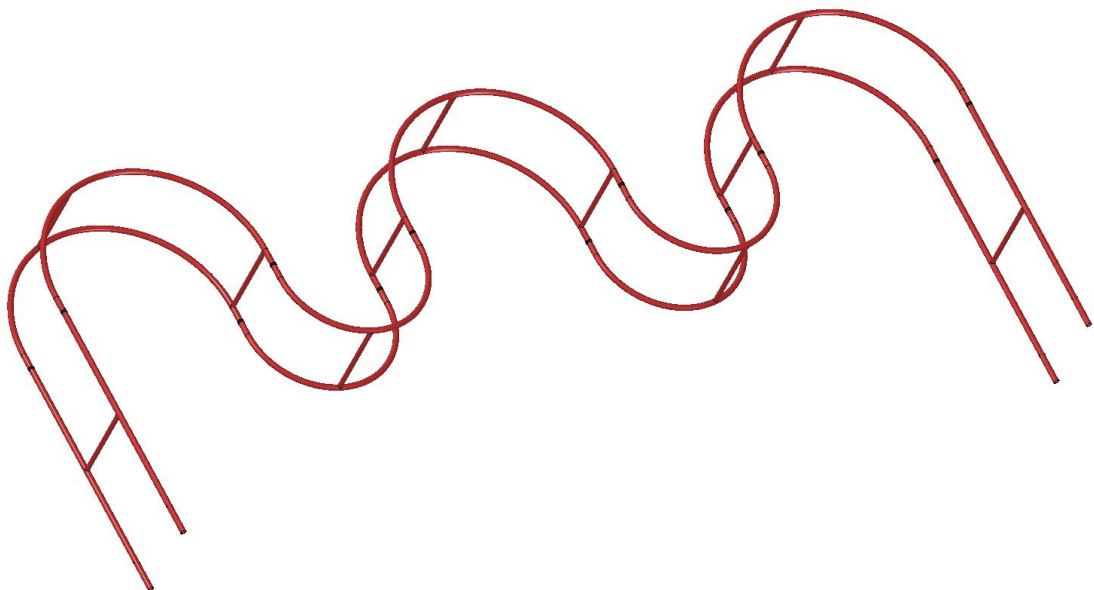
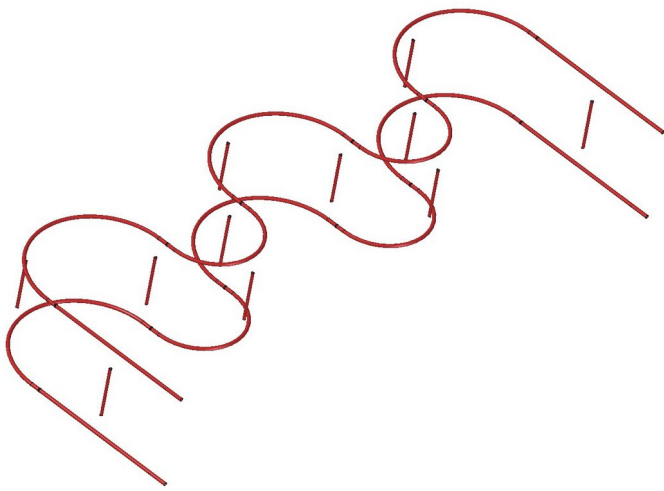
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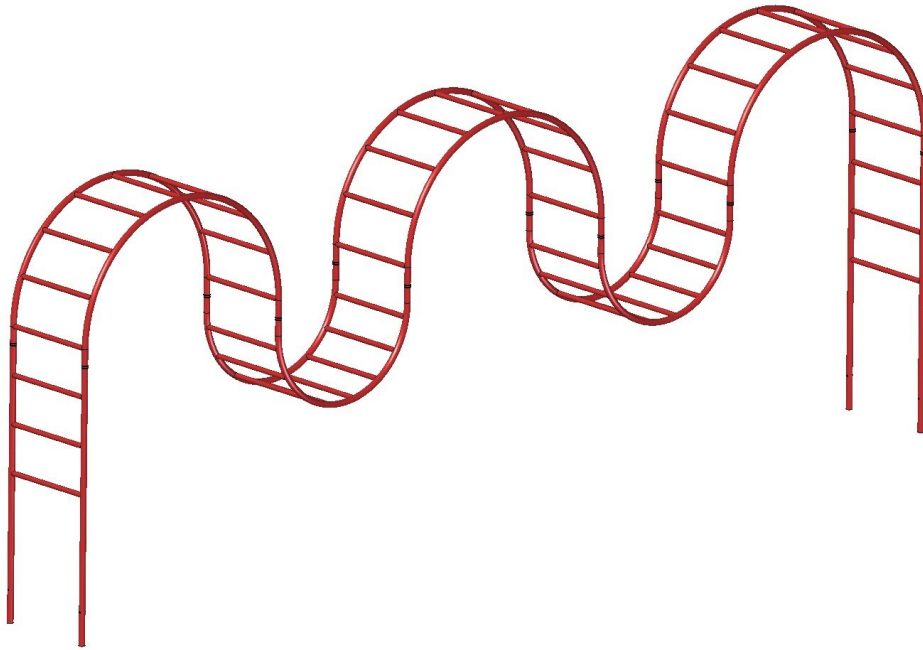




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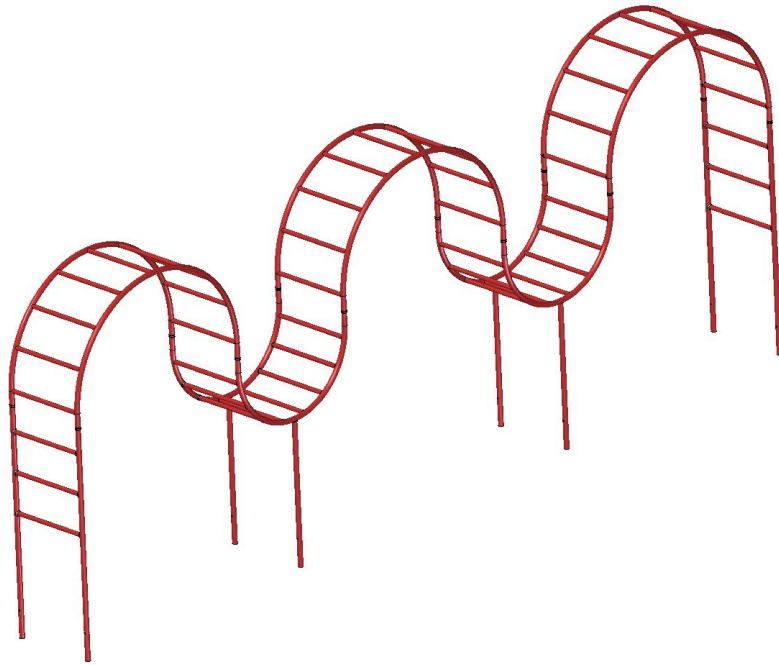
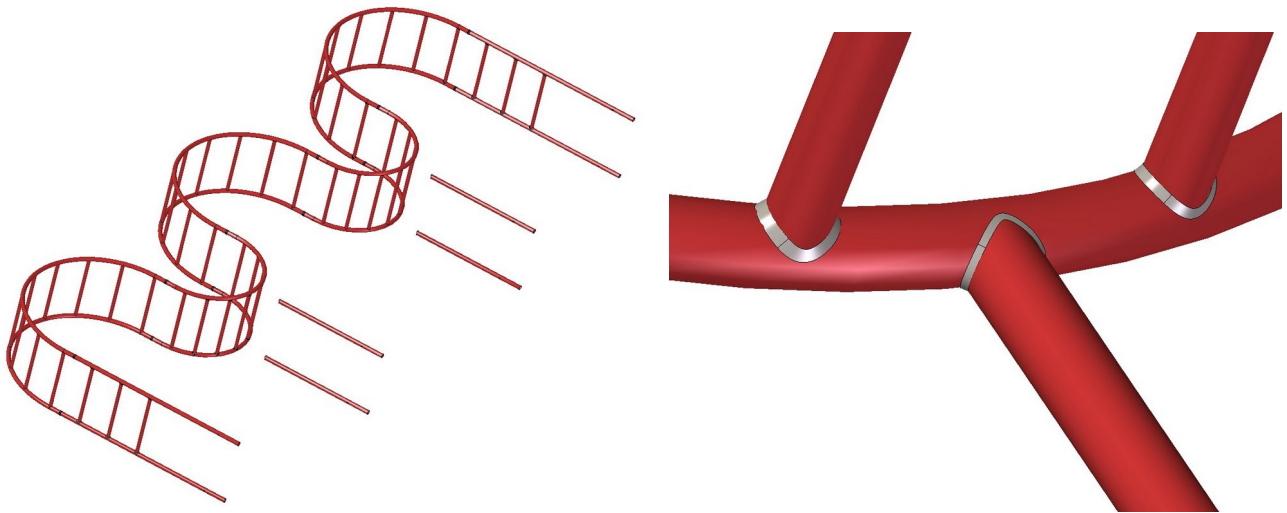


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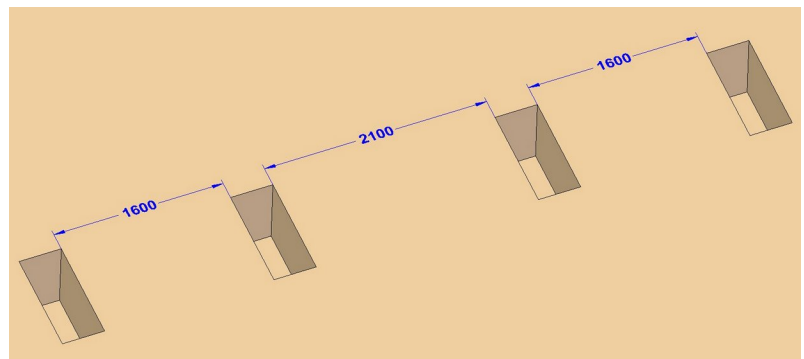
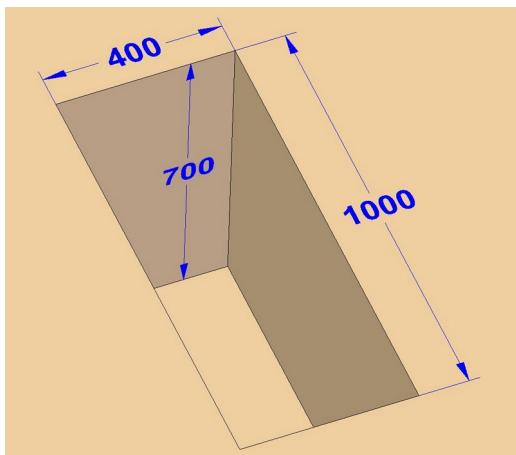




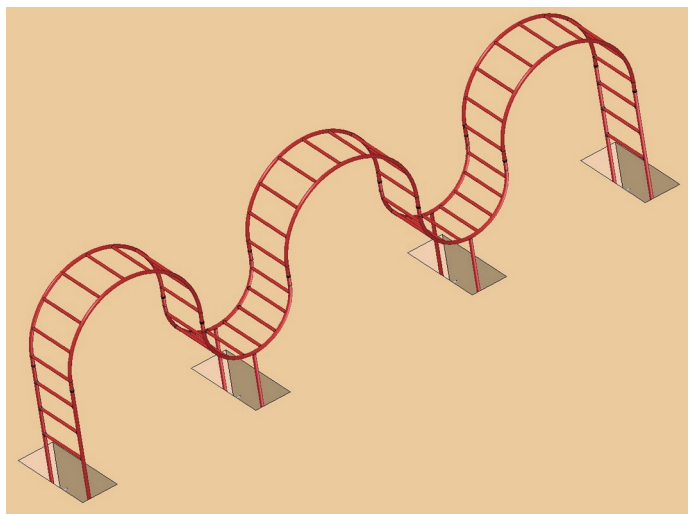
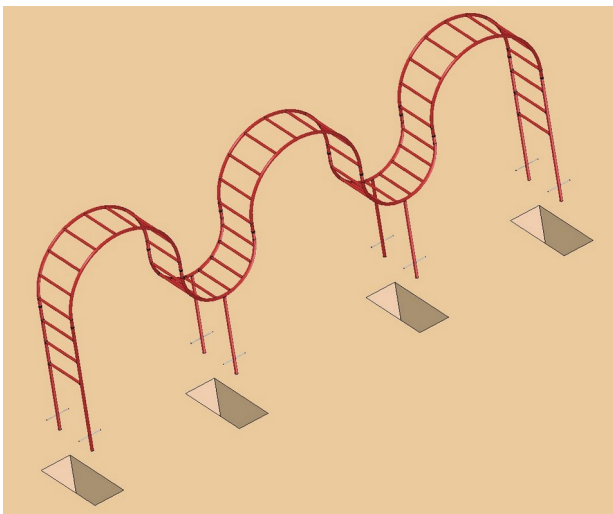
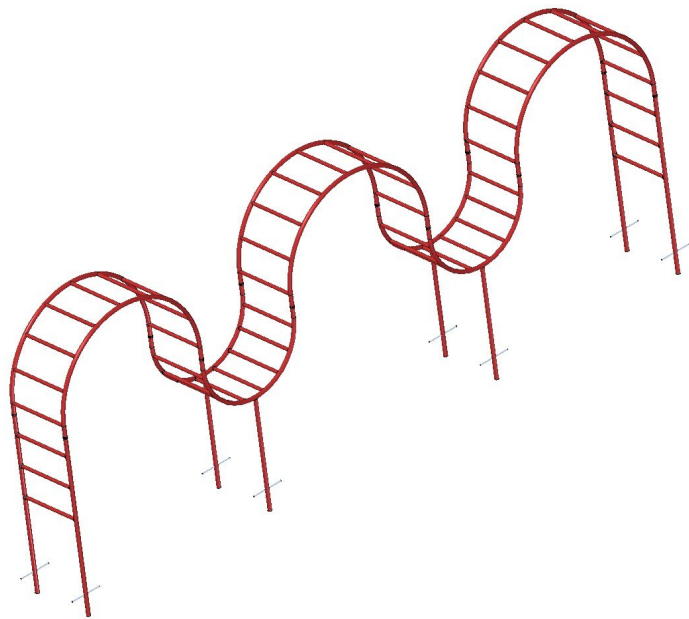
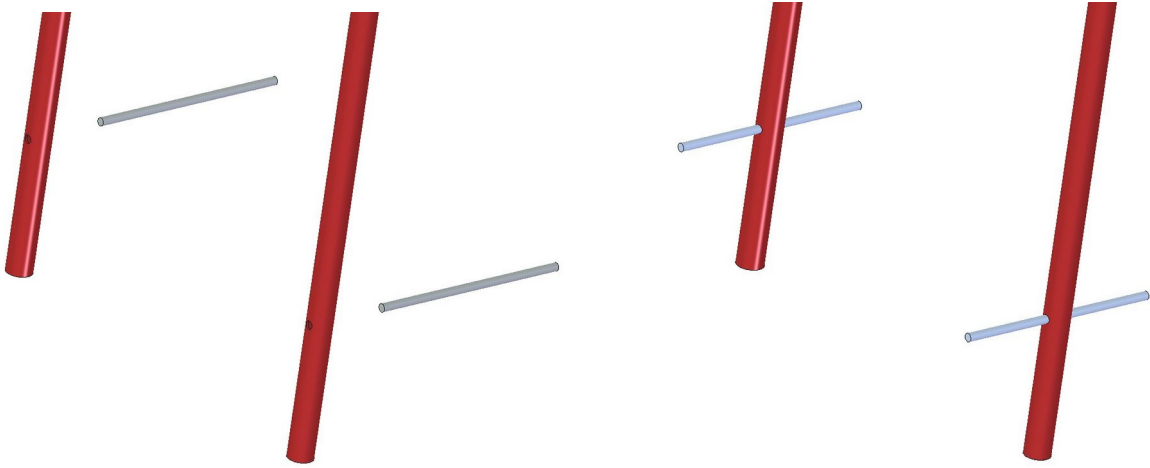
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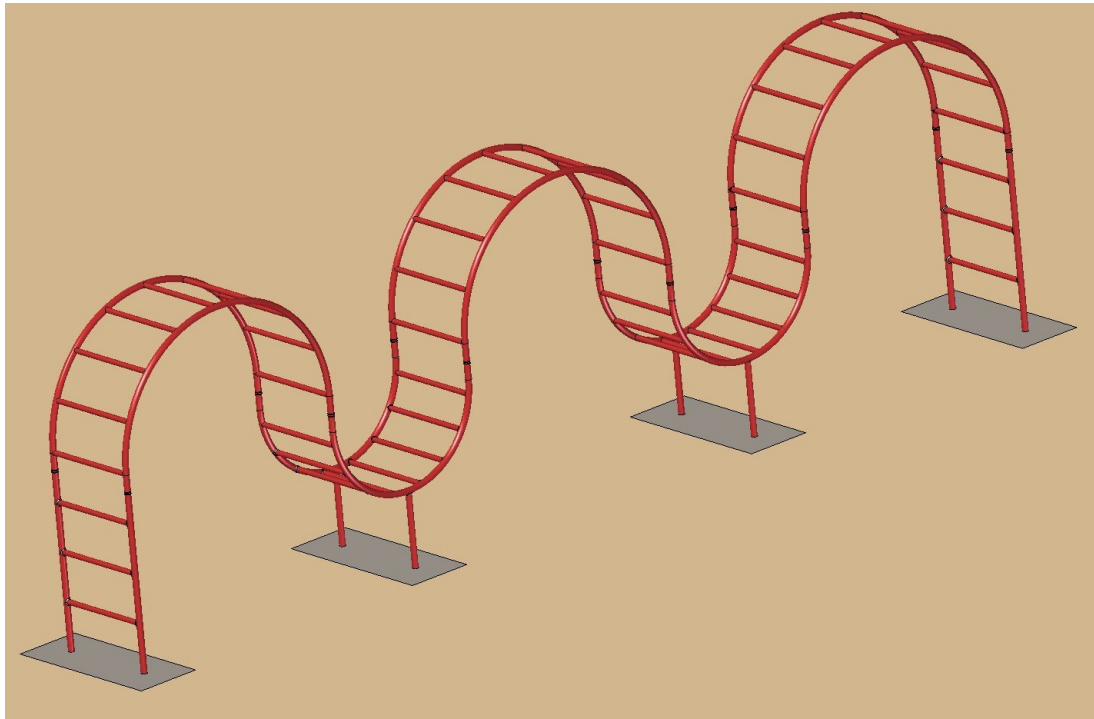


5.



6.





7.

