

ASSEMBLING INSTRUCTIONS FOR ATOLLO CURVES

The curves are realized as a polygonal broken line, obtained assembling many standard elements (see Sketches n° 1 and 2), in a number variable according to the radius and the angle of the curve (see Sheet n° 3 for an angle of 45°); the indicated number is the total number of Atollo pieces(Skecthes n°1 and 2) you have to use to compose the needed curve.

If the curve has the earth in the outside, you have to use elements according the Sketch n°1, Cariboni code 721000645.

If the curve has the earth in the inside, you have to use elements according the Sketch n°2, Cariboni code 721000646.

With reference to the Sketch N°4, each element constituting the curve should be connected to the following one by means of an upper alignment plate (see dwg P 57312 - Cariboni code 509030107), inserted by pression into the PVC isolating profile in correspondence of the upper seat of the conductor, plus two lower alignment plates (see dwg 52935 – Cariboni code 509030106), inserted between the two lower seats, which are usually used to insert the simple strip for closure, as shown in Sketch 4.

Before inserting the lower alignment plates (dwg 52935 – Cariboni code 509030106), they have to be bent by means of the proper tool (see Sketch 7), of a variable angle according to the bending radius (see table on Sketch 7); the different angles can be obtained adjusting the level "D" of the projection of the M6 screw (1) and then locking the position with the relative lock nut (3).

The bending is obtained inserting the straight plate (5) (Code 509030106), with the larger section into the proper seat of the fixed plate (6) of the bending tool, with the lever (Sketch 7) in Pos."A"; then turn the lever (4) till the reference plane of the rotating plate (7) is against the extremity (8) of the screw, which acts like a stroke end. At this point the first lower alignment plate is ready; pull out the bent plate (2), which is ready for the installation and repeat the same operation for the second one.

Before inserting the upper alignment plate (see dwg P 57312 – Cariboni code 509030107), cut off in the middle the lateral connection of 2 mm, thickness 1,3 mm, so that it can be bent properly for the connection of the two elements; the angle has to be the same as the lower alignment plates, that have been already prepared following the same instruction and the same tooling used for the lower alignment plates (see Sketch n°8).

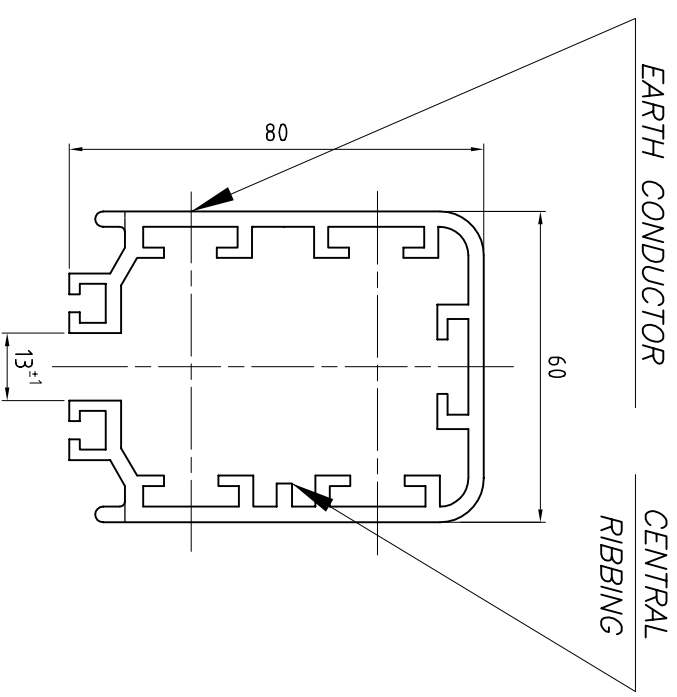
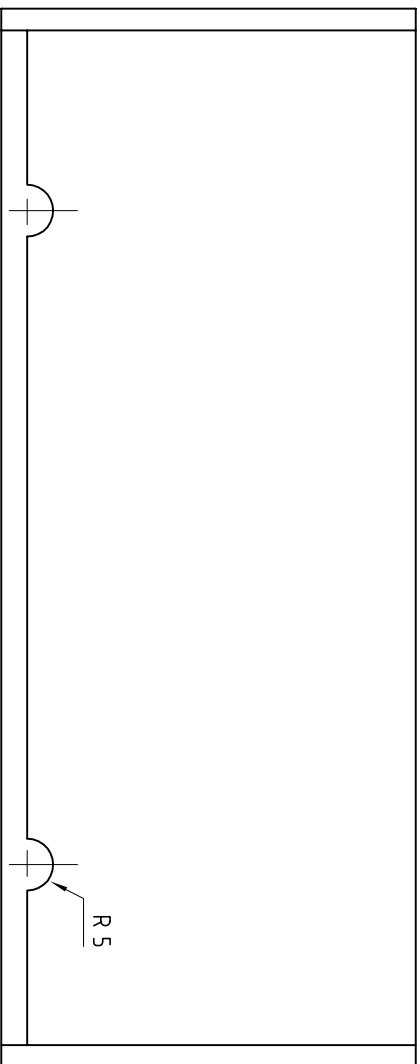
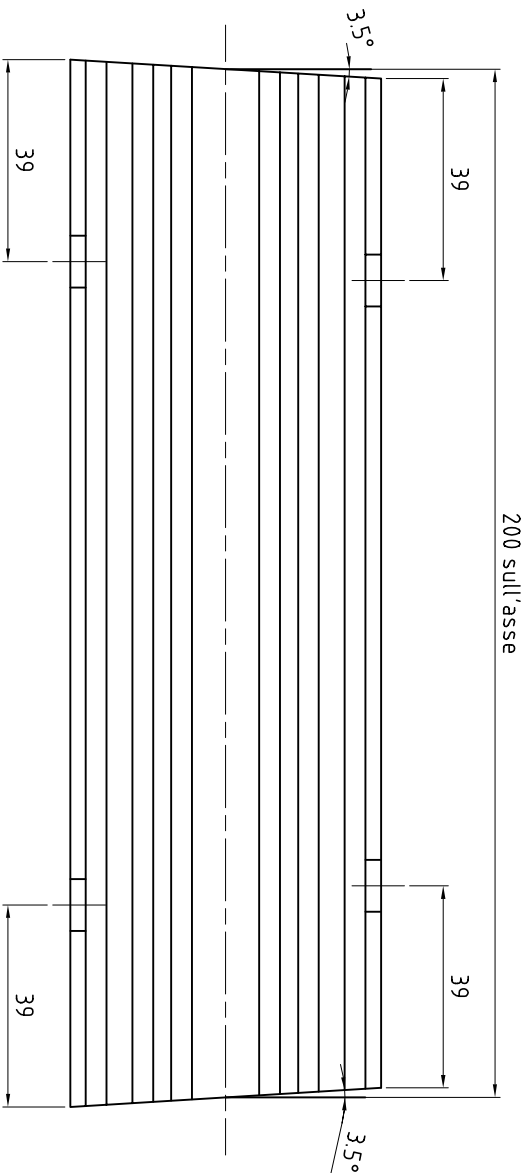
Insert the alignment plates in the PVC housing; all the plates have to be inserted from the larger section side first. Then assemble the different elements, leaving among them an opening on the outer or inner side of the curve, according to the bending radius to be obtained; for this, see the reference values on the table of Sketch 6.

Once the curve is assembled, you have to install the standard support hangers (Code 03.08018.91N), one every 3 standard assembled elements, and then the curve should be fixed to the proper support brackets, eventually adapting it slightly so to obtain the real curve.

Once the curve is positioned, you have to apply in correspondence of the junctions between the different standard elements, a covering plate (dwg 57248 – Cariboni code 721000067), as shown in Sketch 5.

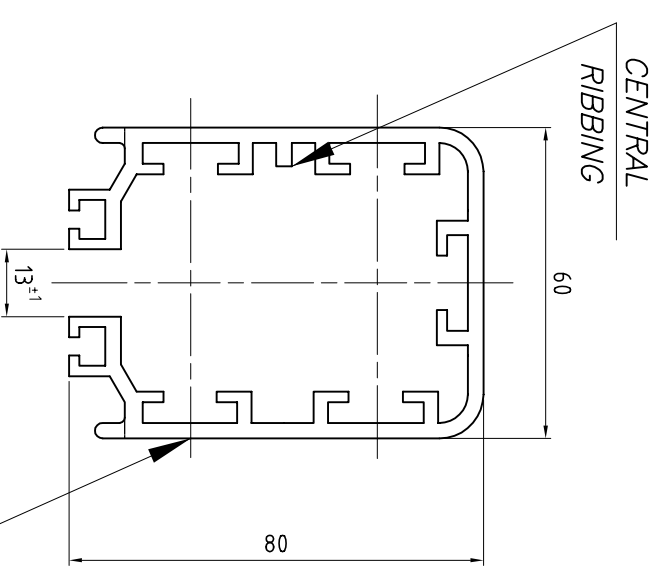
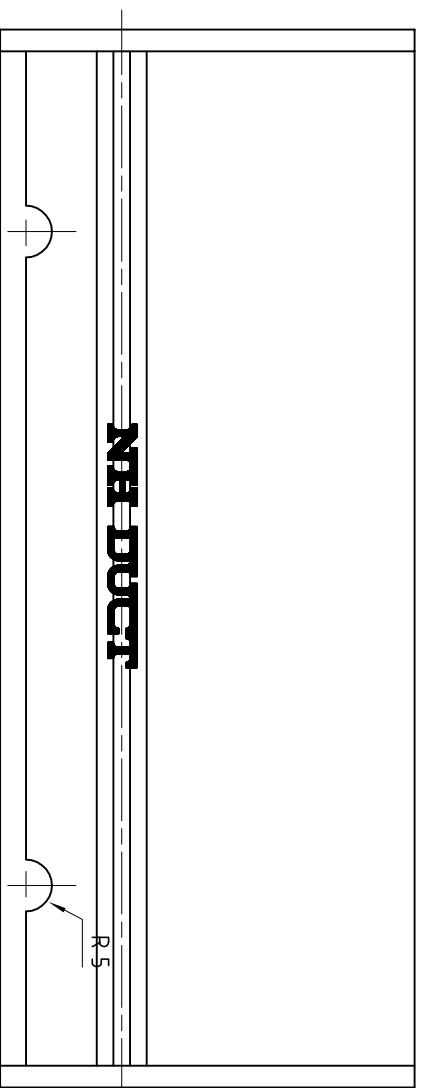
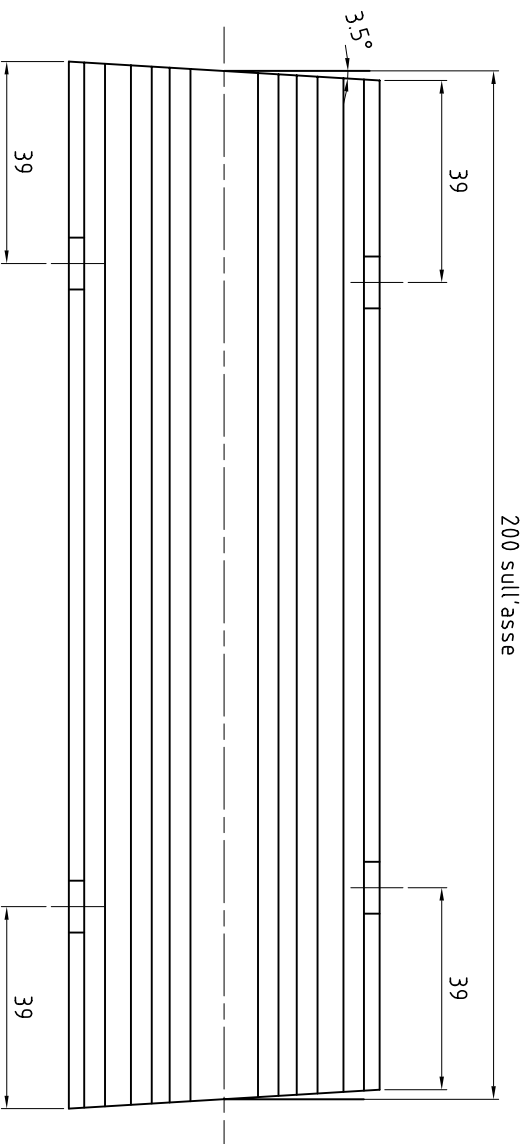
The two extremities of the curve have to be connected to the adjacent straight sections, using the proper standard joint box for curve (Code 03.08014.91N).

Once the assembling of the isolating housing is completed, you can proceed to insert the 4 copper conductors continuously, without interruptions, also into the curved sections, by means of the proper insertion trolley (Code 03.08030.90N).



CODE	CENTRAL RIBBING	EARTH CONDUCTOR
7.21.00.0645.NH	INSIDE THE CURVE	OUTSIDE THE CURVE

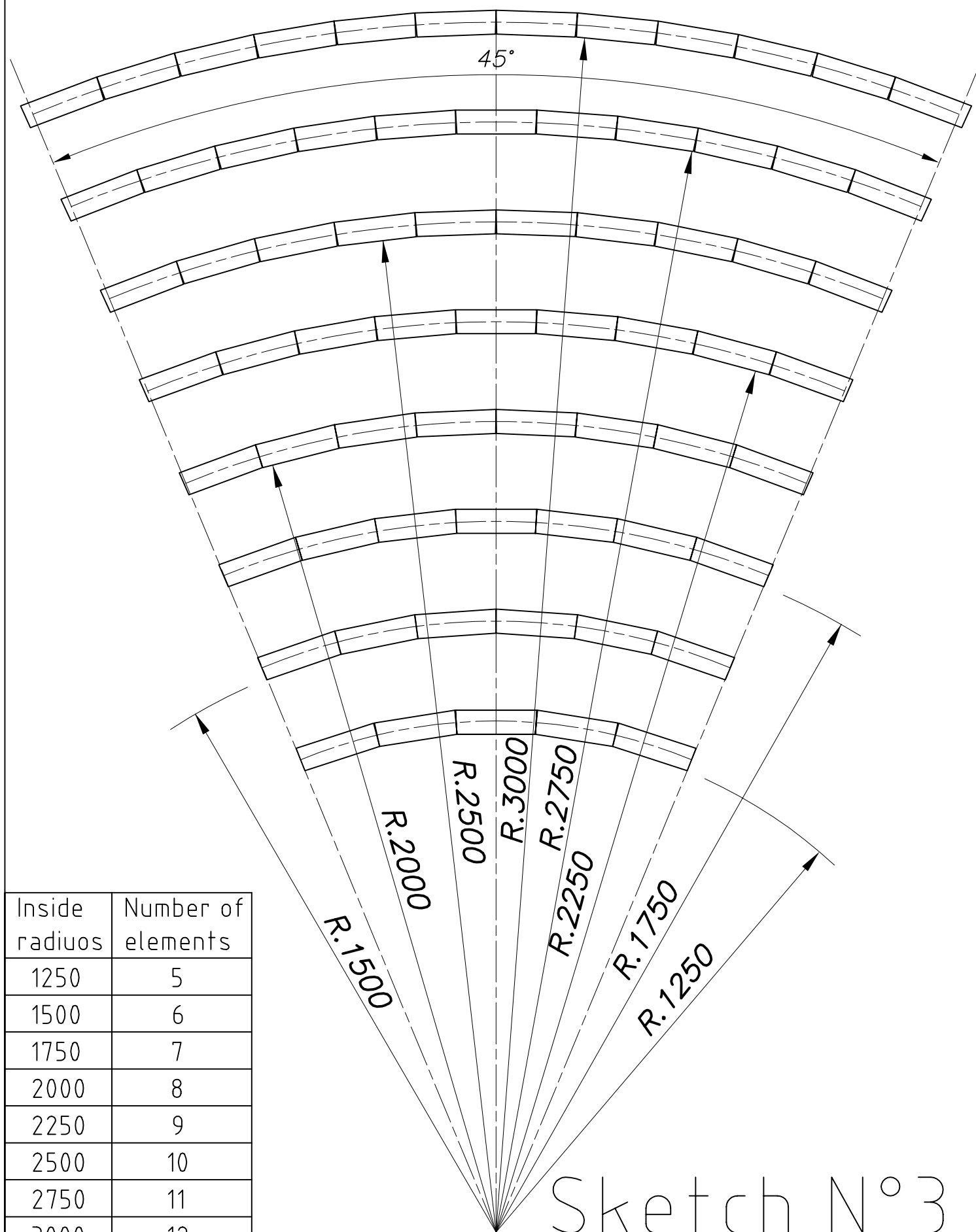
Sketch N°1



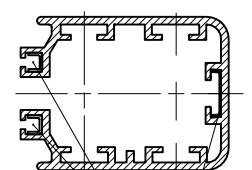
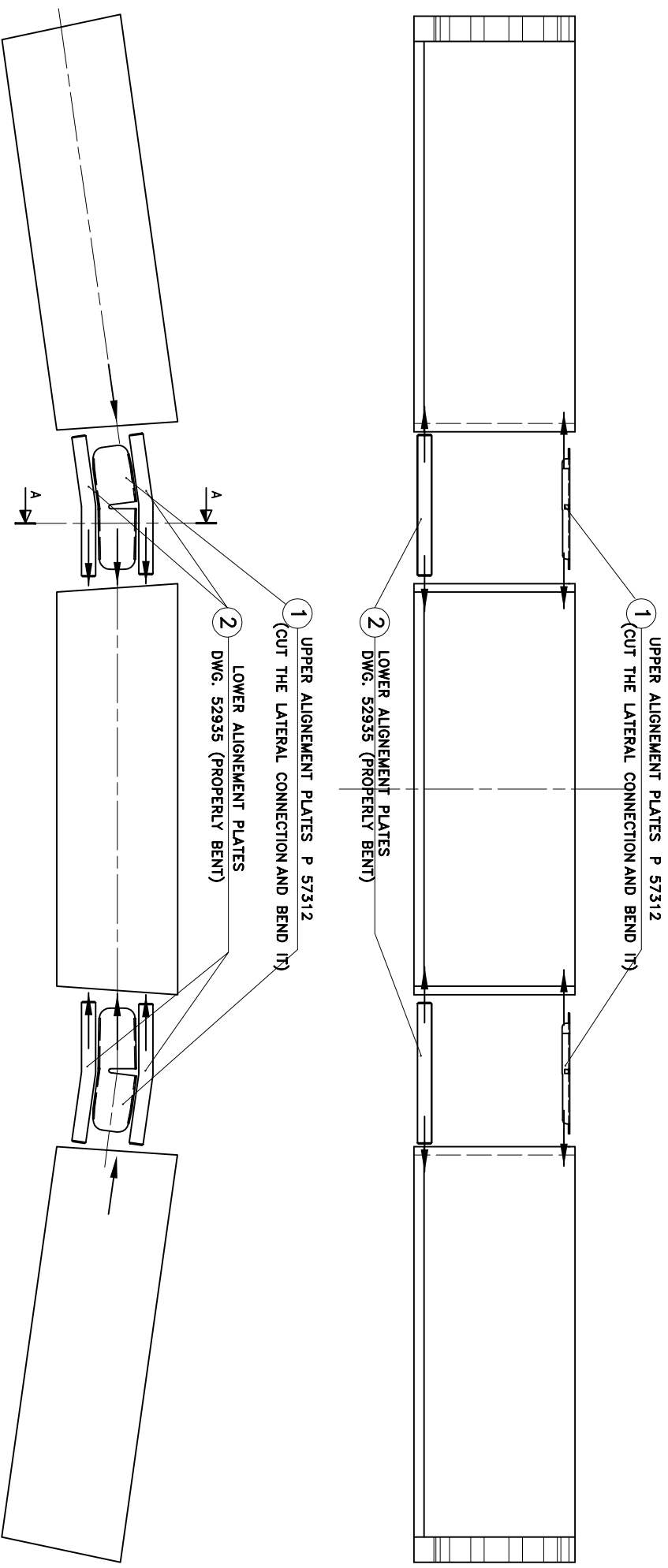
CODE	CENTRAL RIBBING	EARTH CONDUCTOR
7.21.00.0646.NH	OUTSIDE THE CURVE	INSIDE THE CURVE

Sketch N°2

ARRANGEMENT FOR CURVES WITH DIFFERENT RADIUS

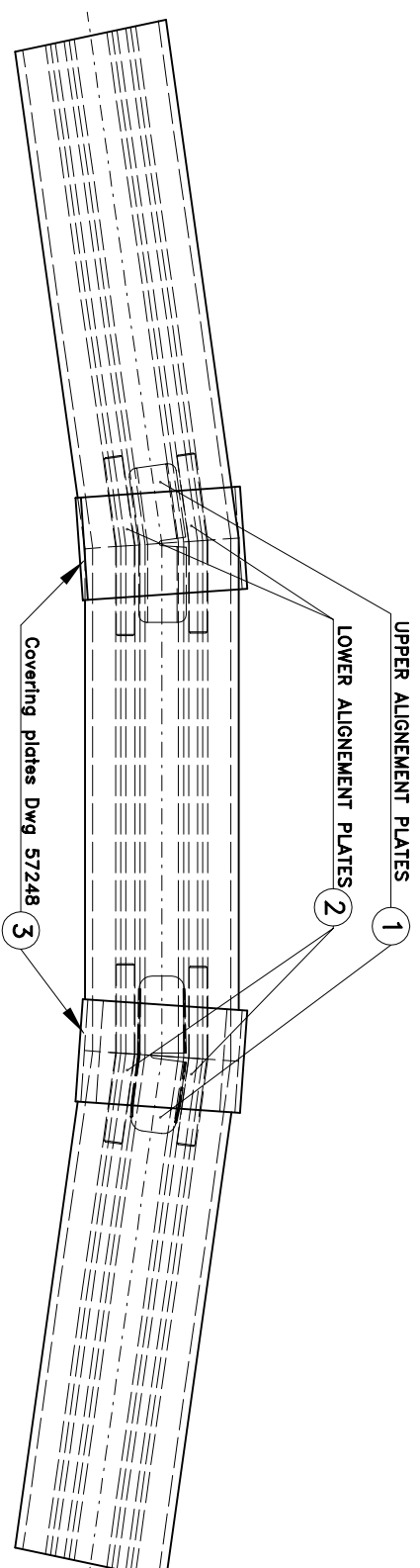
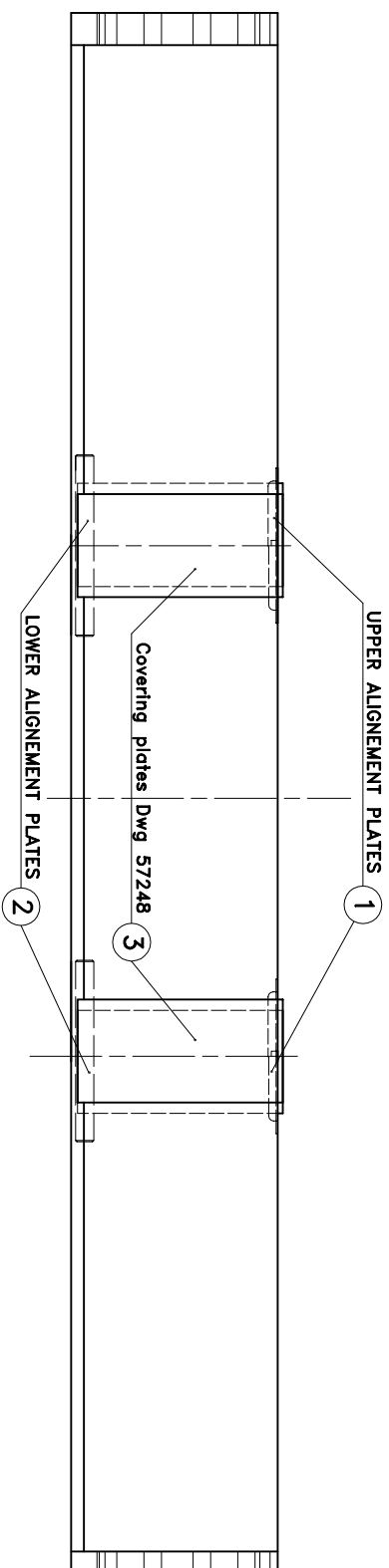


CURVES "ATOLLO" EXAMPLE OF ASSEMBLING OF THREE ELEMENTS ASSEMBLING OF THE ALIGNEMENT PLATES



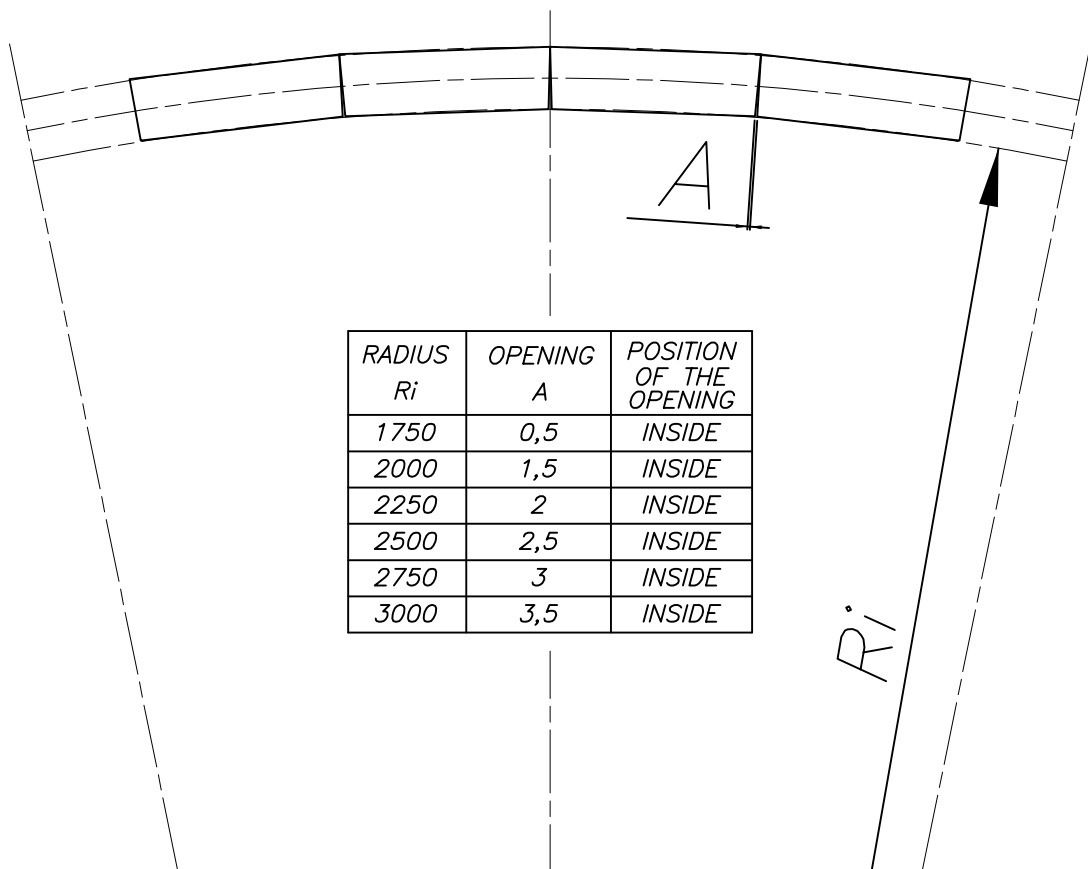
Sketch N°4

CURVES "ATOLLO"
EXAMPLE OF ASSEMBLING OF THREE ELEMENTS
SECOND STEP: APPLICATION OF THE COVER JOINTS

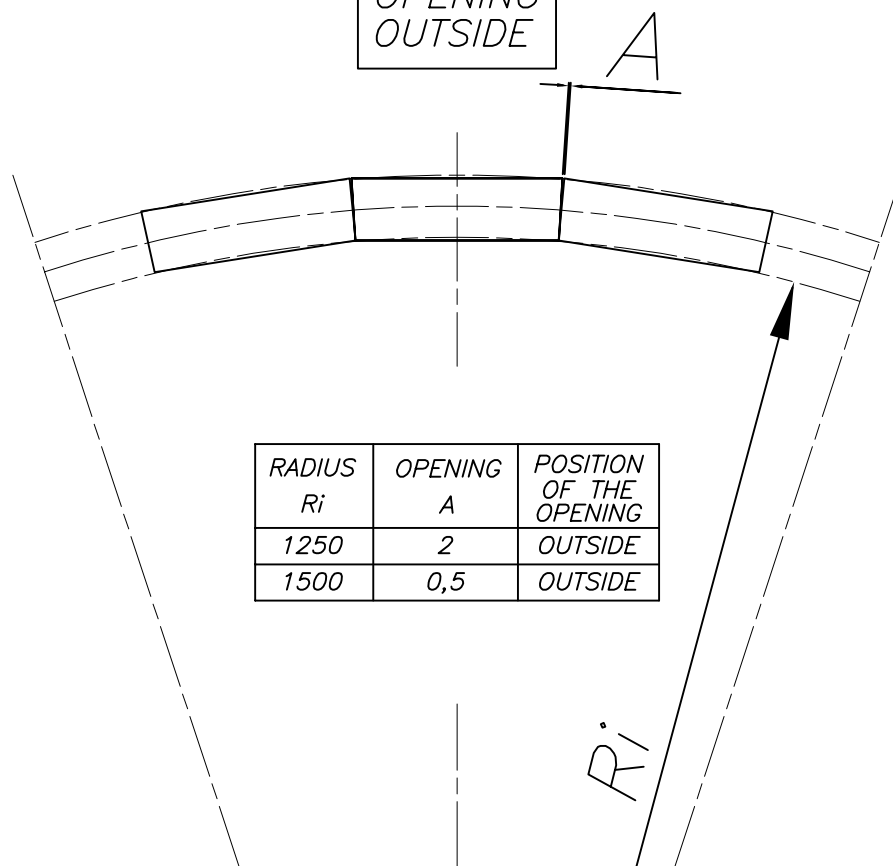


Sketch N°5

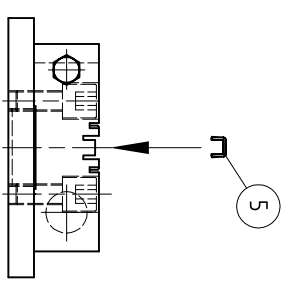
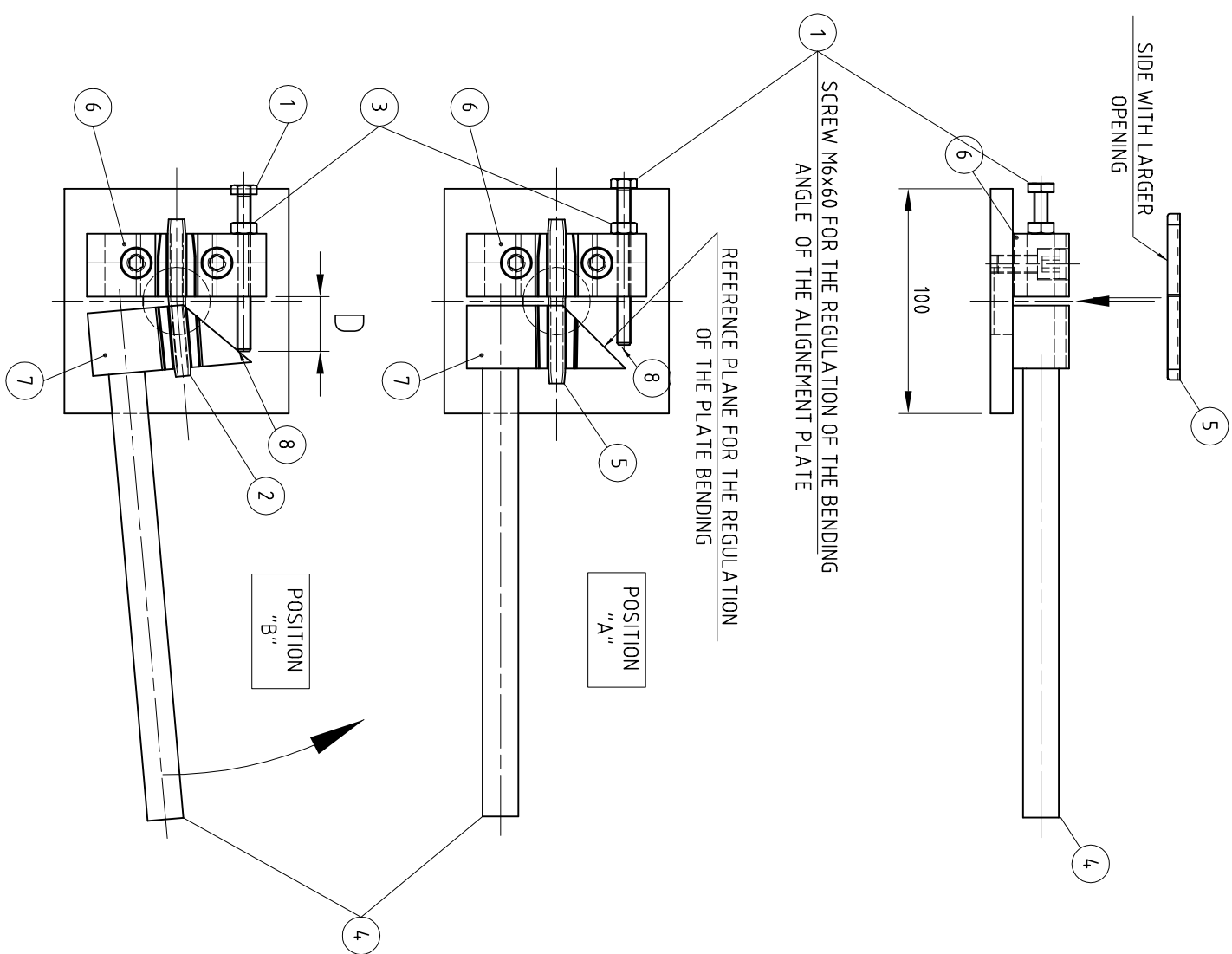
OPENING
INSIDE



OPENING
OUTSIDE

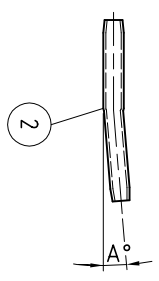


Sketch N°6

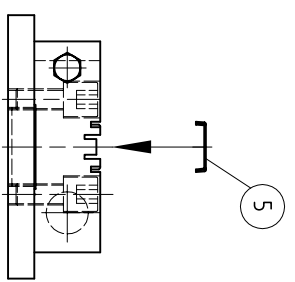
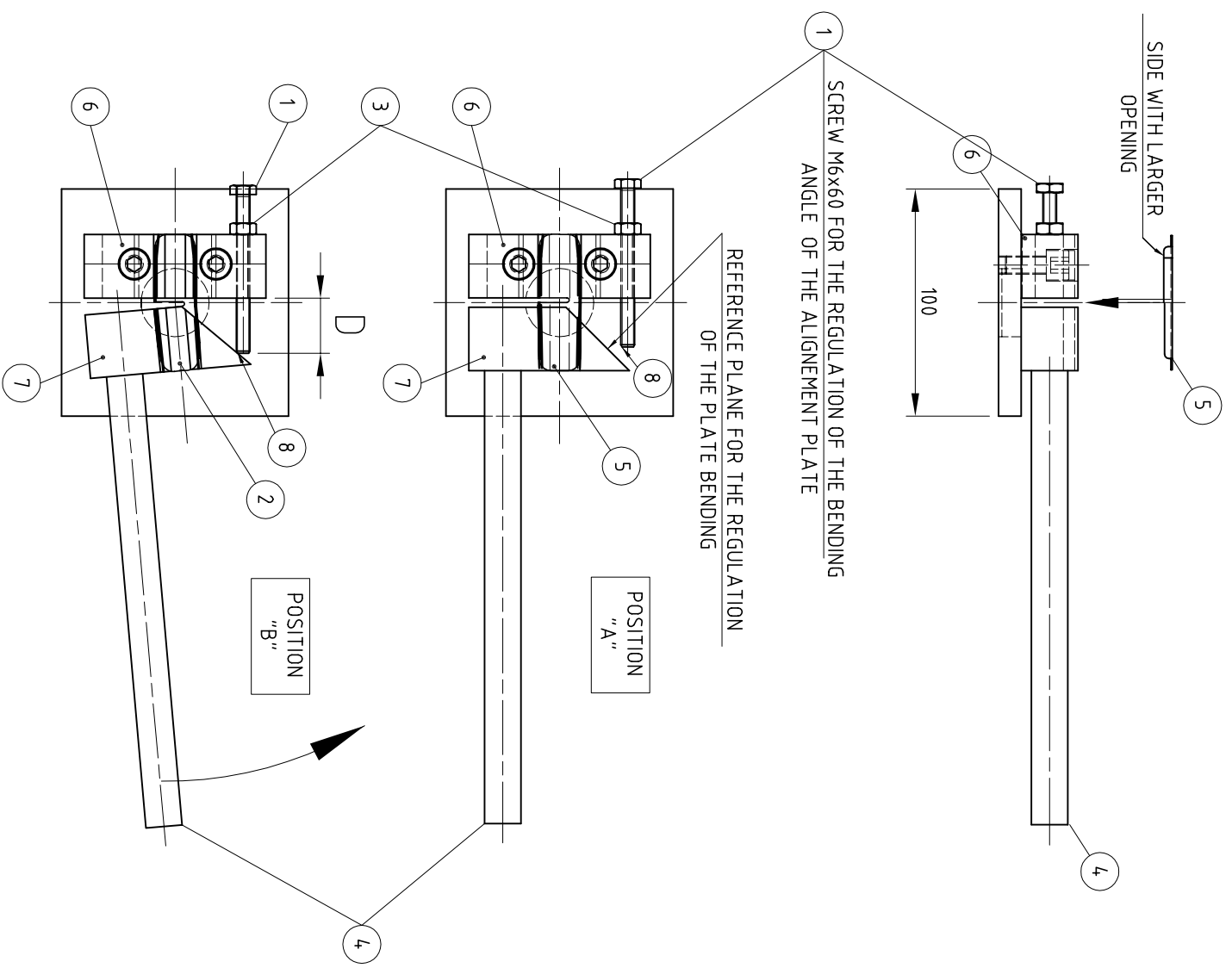


CURVE		
RADIUS	D	A°
1250	20.5	9°
1500	21.5	7.5°
1750	22.3	6.5°
2000	23	5.5°
2250	23.5	5°
2500	23.8	4.5°
2750	24	4.3°
3000	24.3	4°

LOWER ALIGNEMENT PLATE
BENT

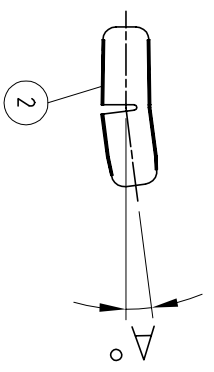


Sketch N°7

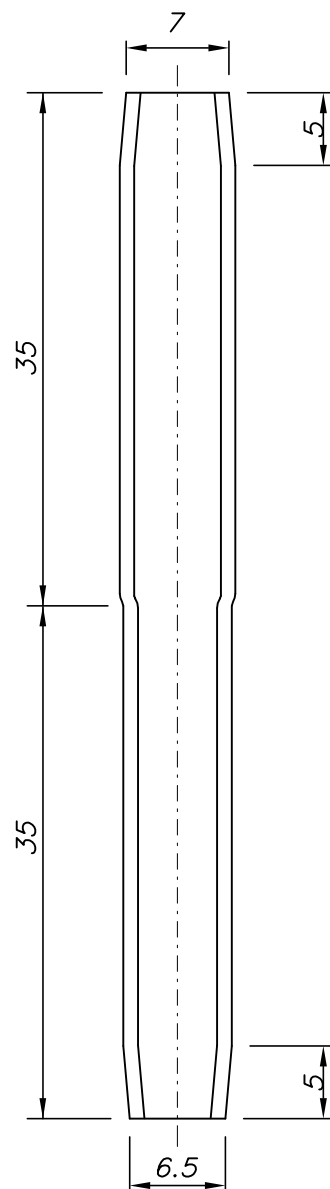


CURVE		
RADIUS	D	A°
1250	20.5	9°
1500	21.5	7.5°
1750	22.3	6.5°
2000	23	5.5°
2250	23.5	5°
2500	23.8	4.5°
2750	24	4.3°
3000	24.3	4°

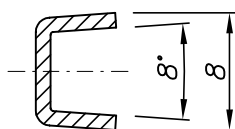
UPPER ALIGNEMENT PLATE BENT



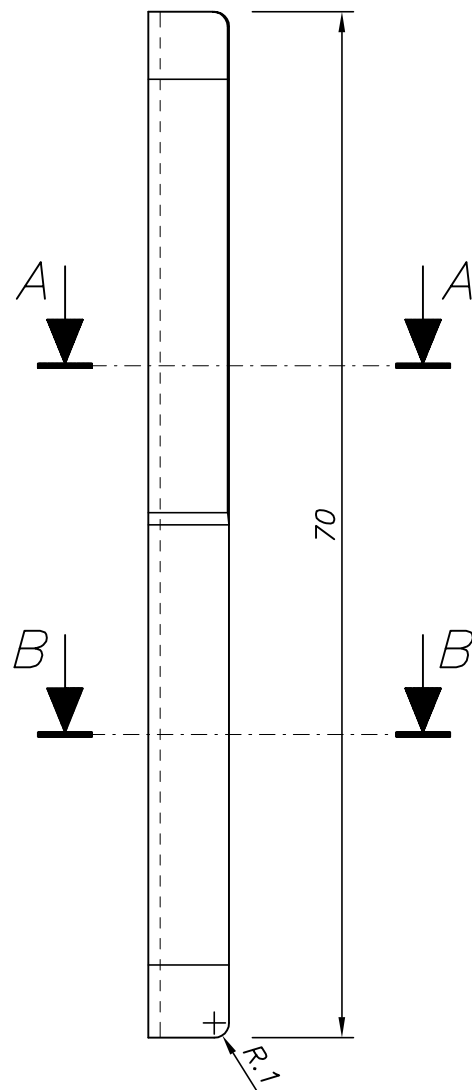
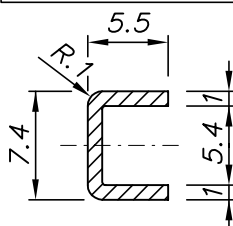
Sketch N°8

[illegible]

SEZ. A-A



SEZ. B-B

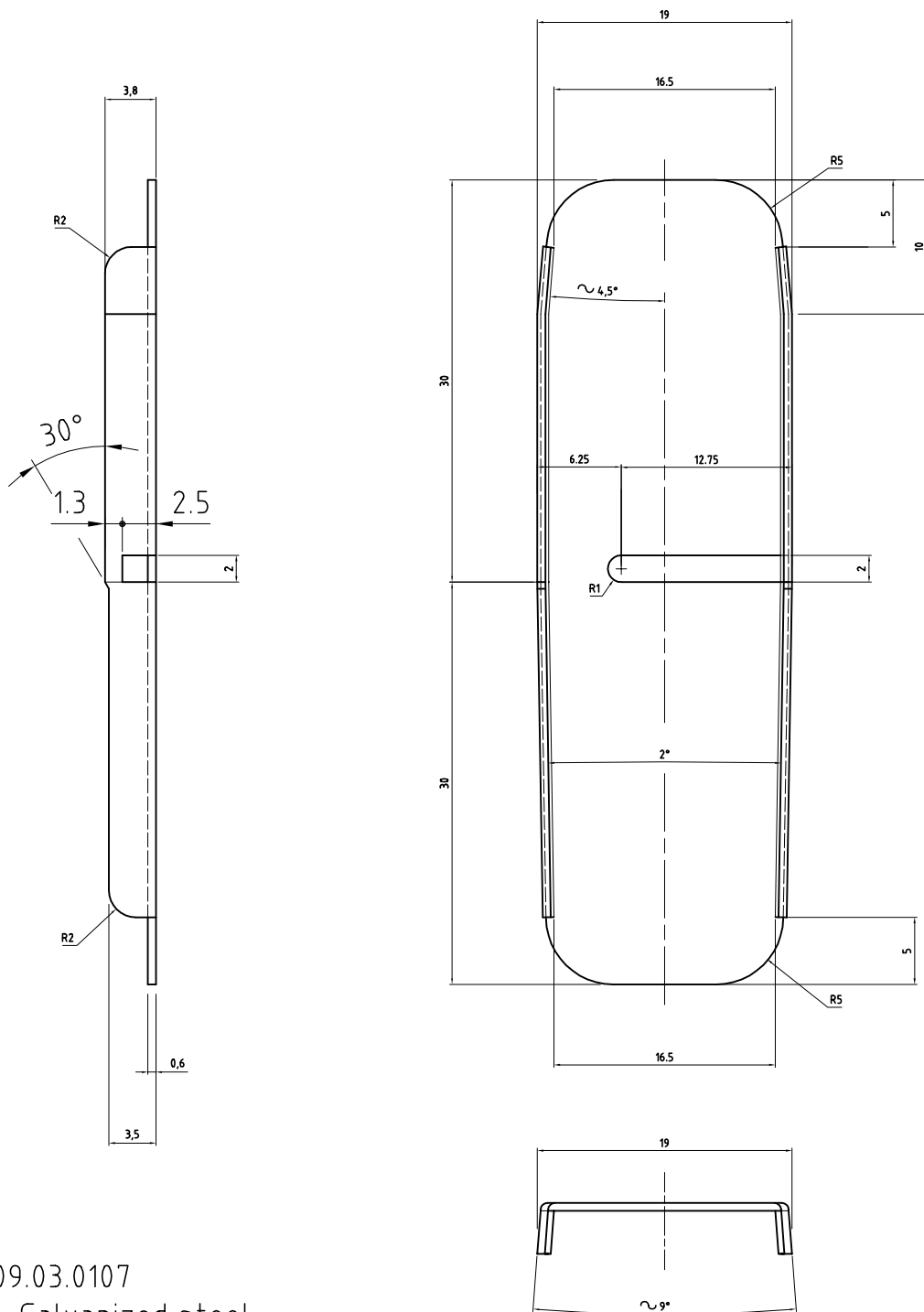


Codice. 509030106

Materiale: Acciaio comm. cromozincato

Tolleranze generali: Secondo UNI ISO 2768/1 classe m

 OSVALDO CARIBONI LECCO – S.p.A.	Scala		Data	Firma
	2:1	Disegnato	21.12.00	
		Contr.	21.12.00	
		Approv.	21.12.00	
Oggetto: LINEA DI CONTATTO ATOLLO PIASTRINA DI ALLINEAMENTO INFERIORE PER LA GUAINA ISOLANTE	Origine:			Mod.
	Disegno Nr.:		Serie:	
	P 52935		P	
A termine di legge ci riserviamo la proprietà di questo disegno con divieto di riprodurlo o di renderlo comunque noto a terzi, senza nostra autorizzazione scritta.	Sostituisce il N°. SCH-4662			
	Sostituito dal N°.			



Code: 5.09.03.0107

Material: Galvanized steel

CARIBONI

OSVALDO CARIBONI LECCO – S.p.A.

Oggetto:

Upper central alignment plate

Scala

2:1

Disegnato:

Data

07/01/04

Controllato:

07/01/04

Approvato:

07/01/04

Firma

Disegno Nr.:

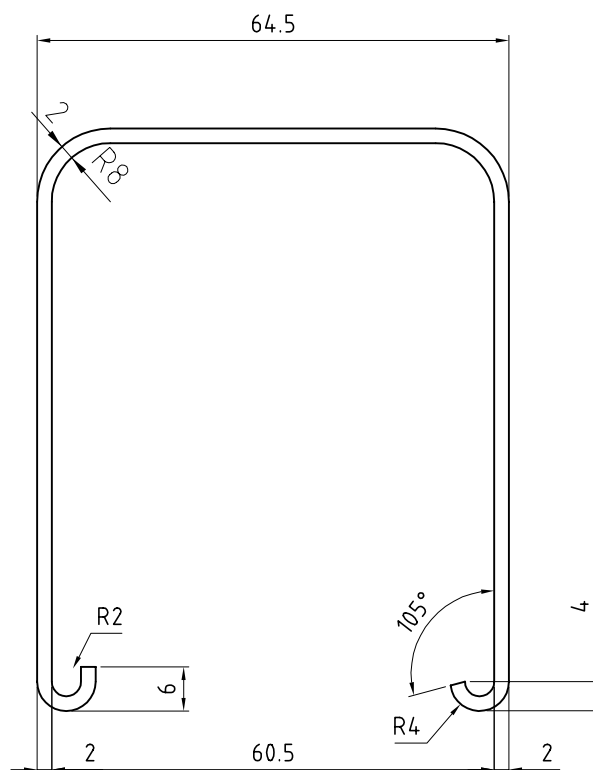
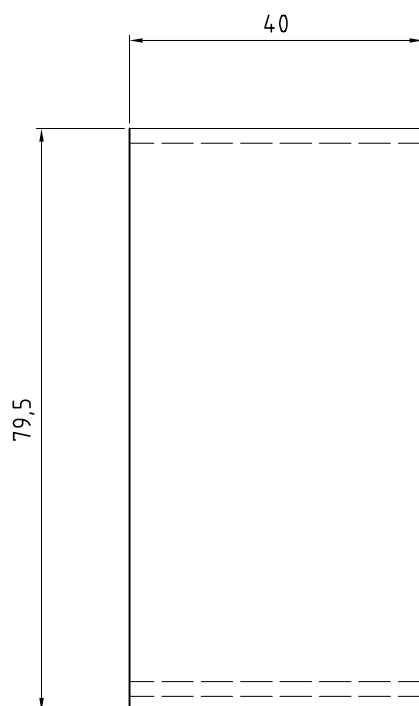
Serie:

Mod.

P 57312

P

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Materiale: PVC rigido assoluto K70 autoestinguente

Colore: Nero

Codice: 721000067

CARIBONI

OSVALDO CARIBONI LECCO - S.p.A.

Oggetto:

Fascetta di giunzione per elementi curve atollo

Scala

1:1

Disegnato:

27/11/03

Controllato:

27/11/03

Approvato:

27/11/03

Data

Firma

Disegno Nr.:

Serie:

Mod.

57248

P

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