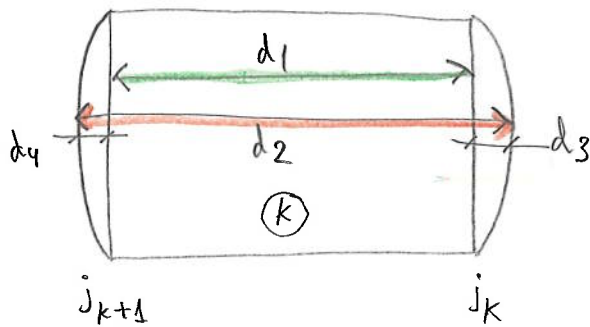
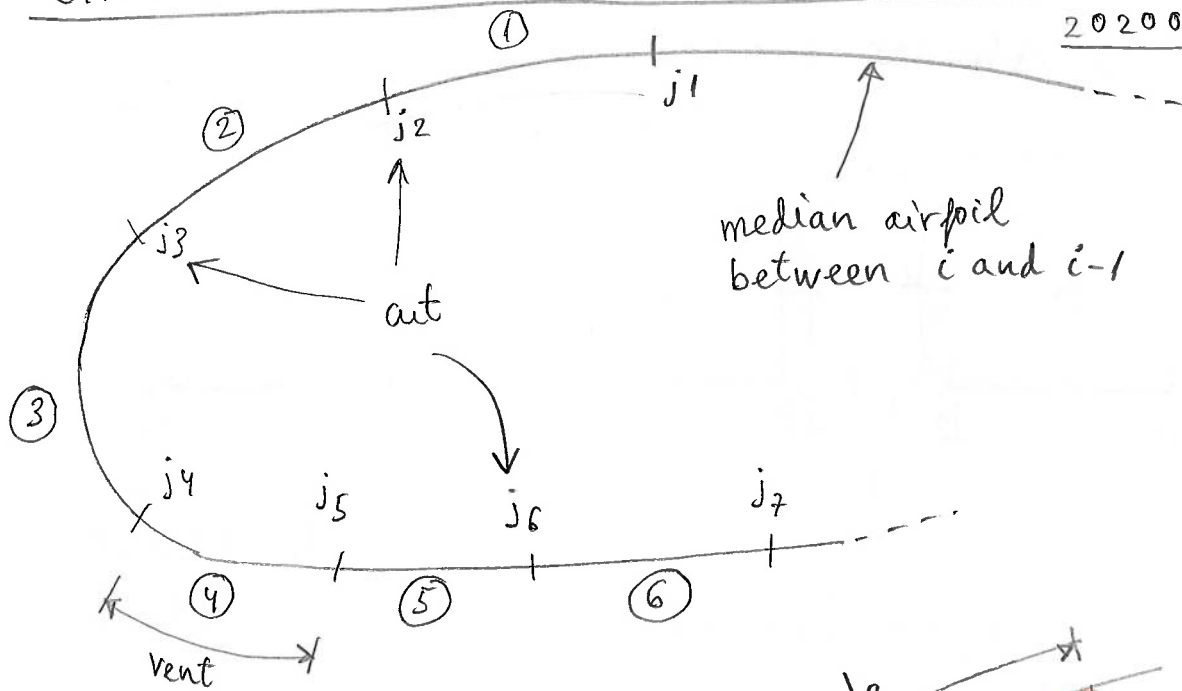
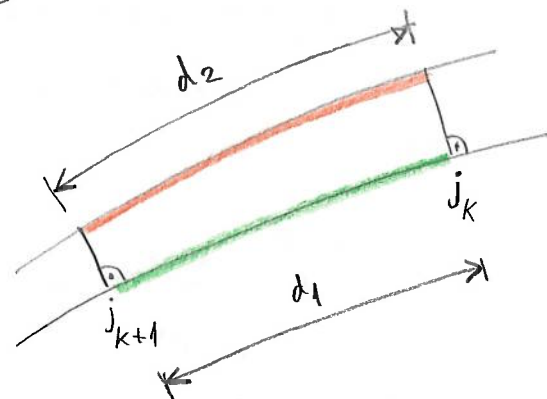


CALCULATION OF THE ARCHES OF THE CUTS

20200303

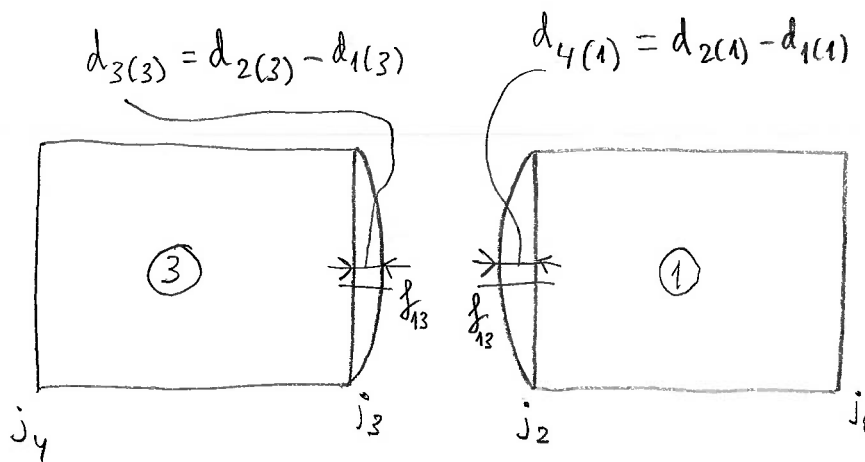


panel zone (k)
(plan view)



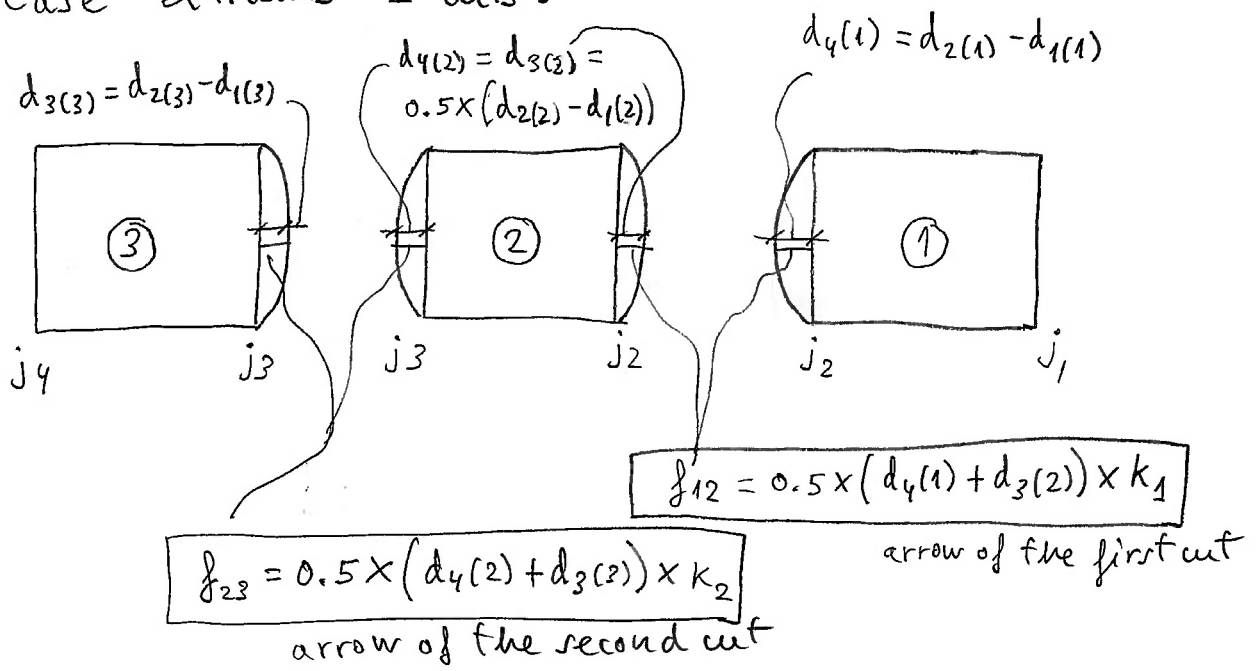
panel zone k
(airfoil view)

- case extrados 0 cuts \rightarrow do nothing
- case extrados 1 cut:

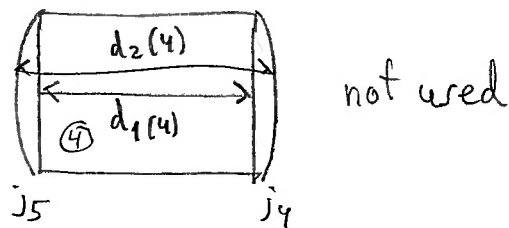


$$f_{13} = 0.5 \times (d_4(1) + d_3(3)) \times k_1 \quad \text{arrow of the first cut}$$

• Case extrados 2 cuts:

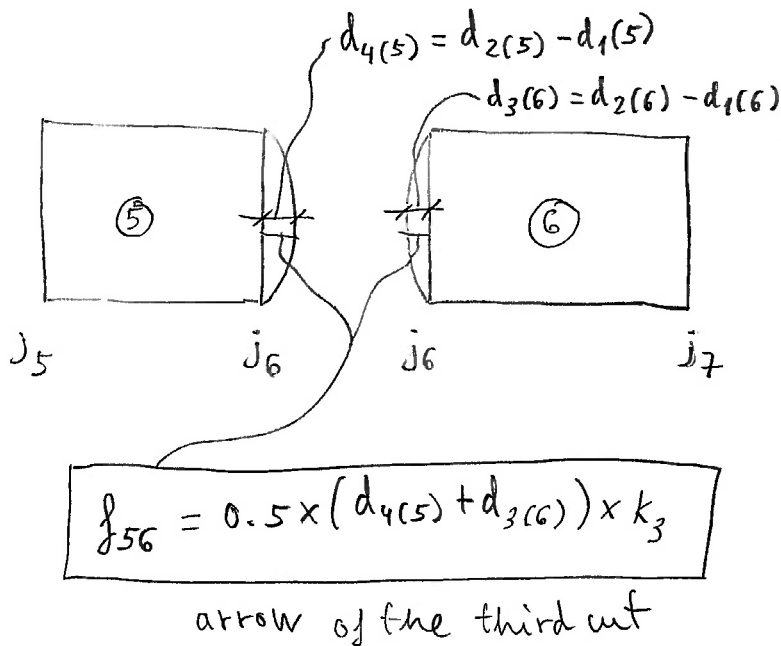


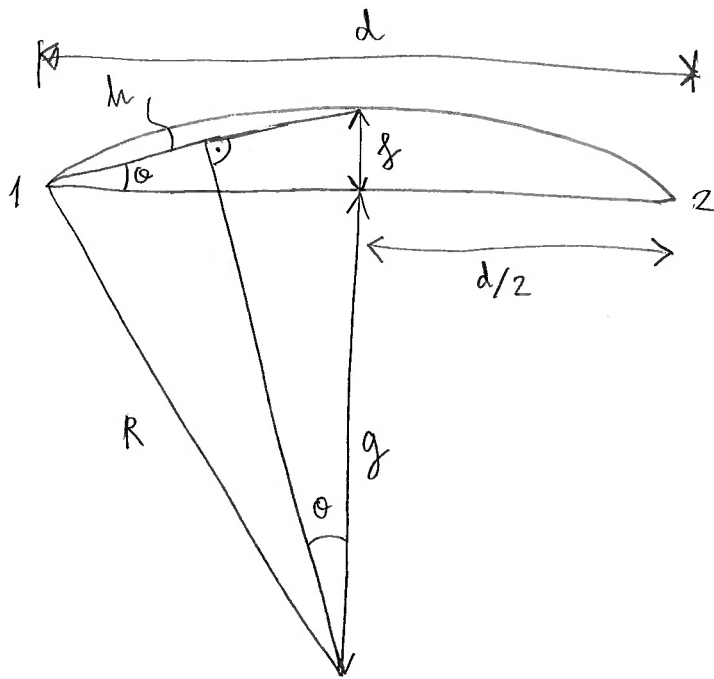
• Vents



• Case intrados 0 cuts: do nothing

• Case intrados 1 cut:



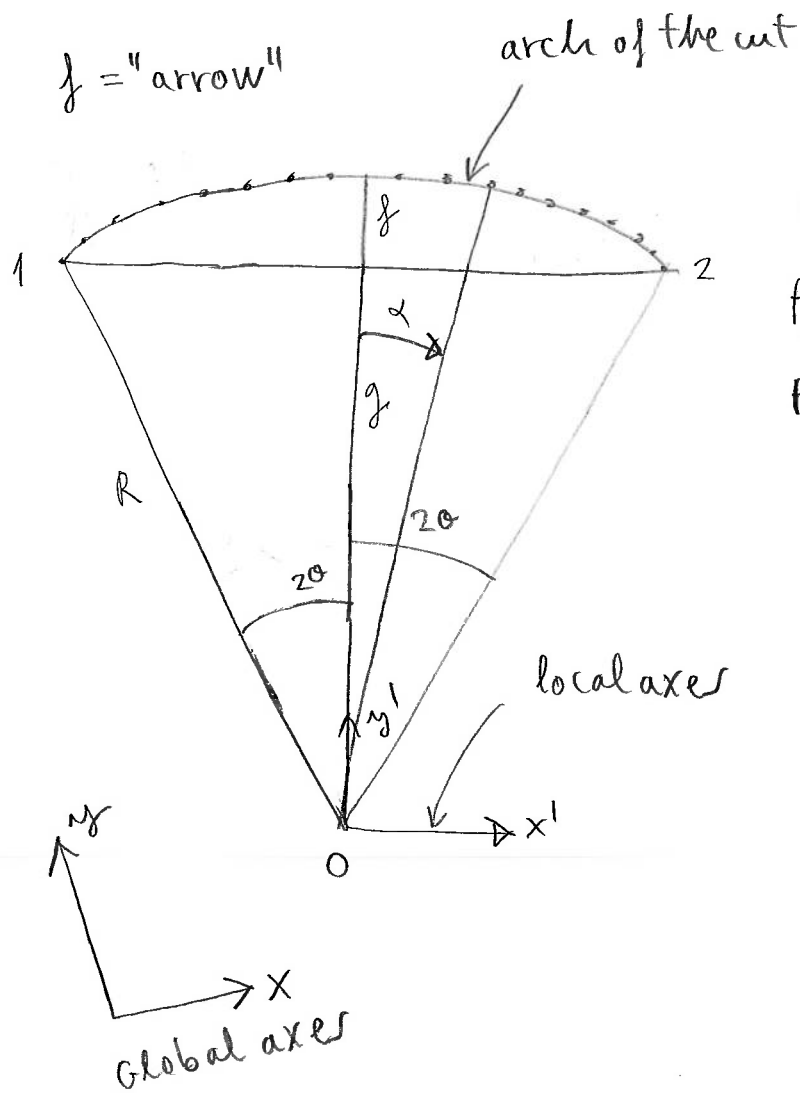


$$h^2 = f^2 + \left(\frac{d}{2}\right)^2$$

$$\theta = \arctan\left(f/(d/2)\right)$$

$$\frac{h}{2} = (f+g) \sin \theta$$

$$R = f + g$$



$$d \in [-2\theta, 2\theta]$$

$$\left. \begin{aligned} p_{x'} &= R \sin \alpha \\ p_{y'} &= R \cos \alpha \end{aligned} \right\}$$