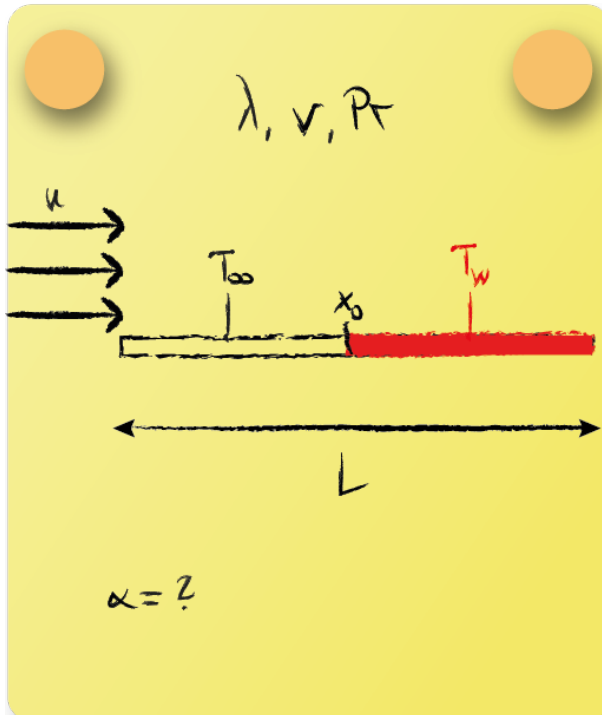# Heat Transfer Correlation: Task 3



The image describes a plate with length L which is heated from $x_0$. A fluid streams with velocity u over this plate.

1. HTC.4: $\overline{Nu_L} = 0,664 Re_L^{1/2} Pr^{1/3}[1-(\frac{x_0}{L})^{3/4}]^{2/3}/[1-\frac{x_0}{L}]$

2. $Re_L$ = 3.1:2402,7 |3.2:15197,6 |3.3:33783,8 |3.4:1849,1

3. $\overline{Nu_L}$ = 3.1:35,64 |3.2:146,14 |3.3:259,7 |3.4:28,01

4. $\overline{\alpha}$ = 3.1:0,179 |3.2:92,21 |3.3:16,00 |3.4:0,271