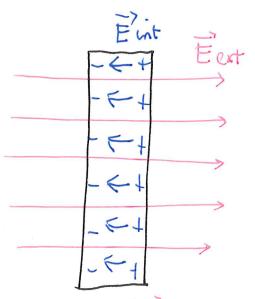
## Constuctor (neutral)



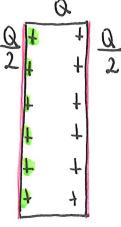
External electric field



 $\overrightarrow{E}_{int}$  cancels  $\overrightarrow{E}_{ext}$ , so  $\overrightarrow{E}=0$  inside the conductor.

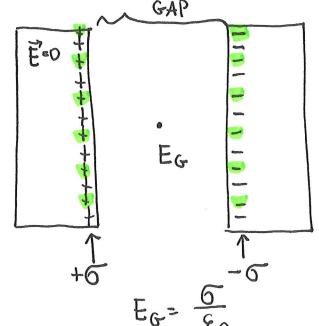
Surface density for conductors.





$$5 = \frac{Q}{2L^2}$$

$$E = \frac{C}{C}$$



Here:  $6 = \frac{Q}{12}$ 

property of conolictor

sigmo is defined differently here

$$| 5 | = 7.48 \times | 6^{-22} C/m^2$$

Outside 
$$\rightarrow 000 \text{ E-field} \rightarrow \text{concel}$$
  
 $E_{G} = \frac{8.85 \times 10^{-12} \text{ Cm}^{2}}{8.85 \times 10^{-12} \frac{\text{C}^{2}}{\text{N·m}^{2}}} = 0.845 \times 10^{-10} \text{ N/c}$   
 $E_{G} = 8.45 \times 10^{-11} \text{ N/c}$