



Universidade Federal de Pernambuco
DEMEC - Eng. Naval

Modelagem de Painéis Planos Utilizando o Ansys Design Modeler

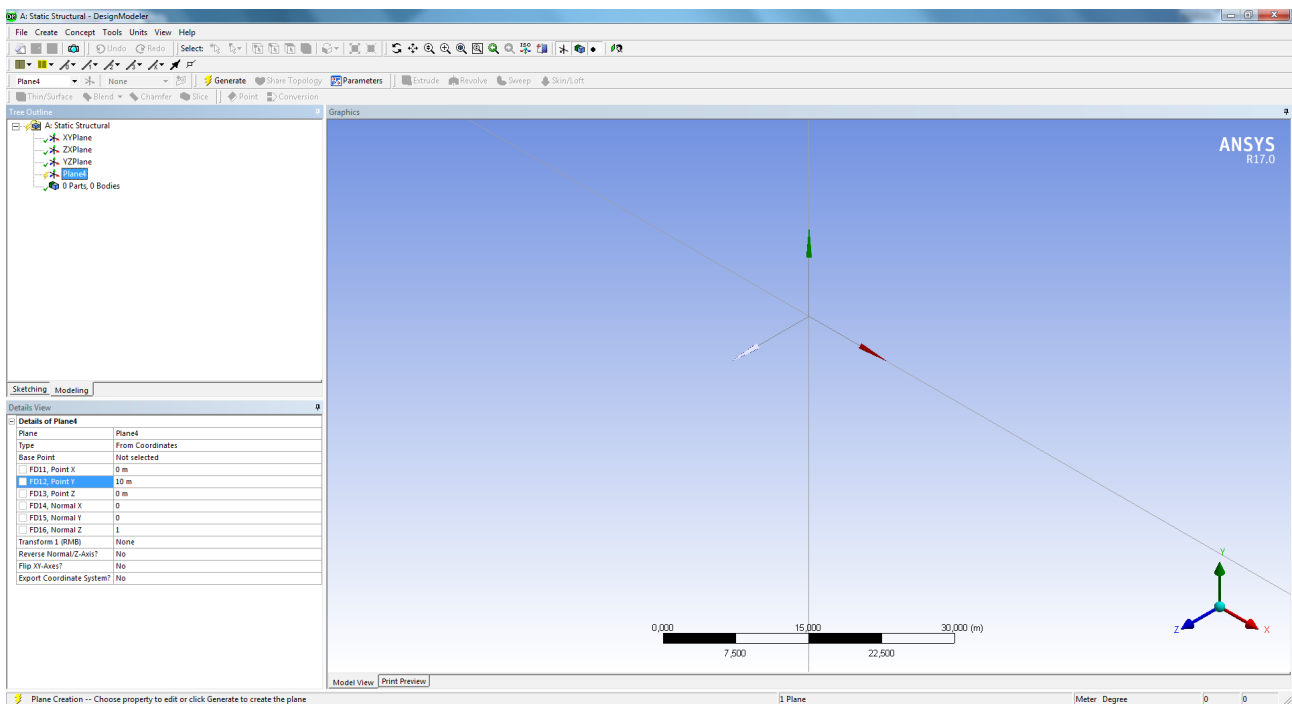
Prof. Adriano Dayvson Marques Ferreira

Recife, Outubro de 2016

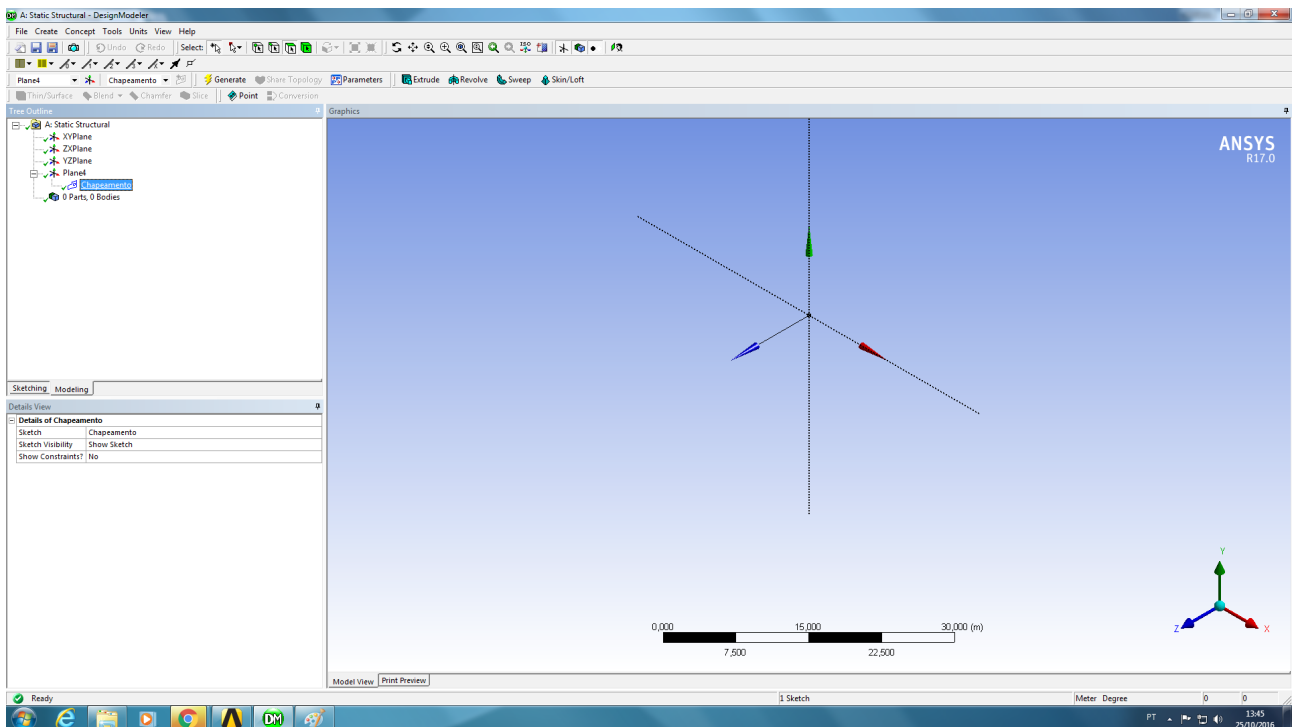
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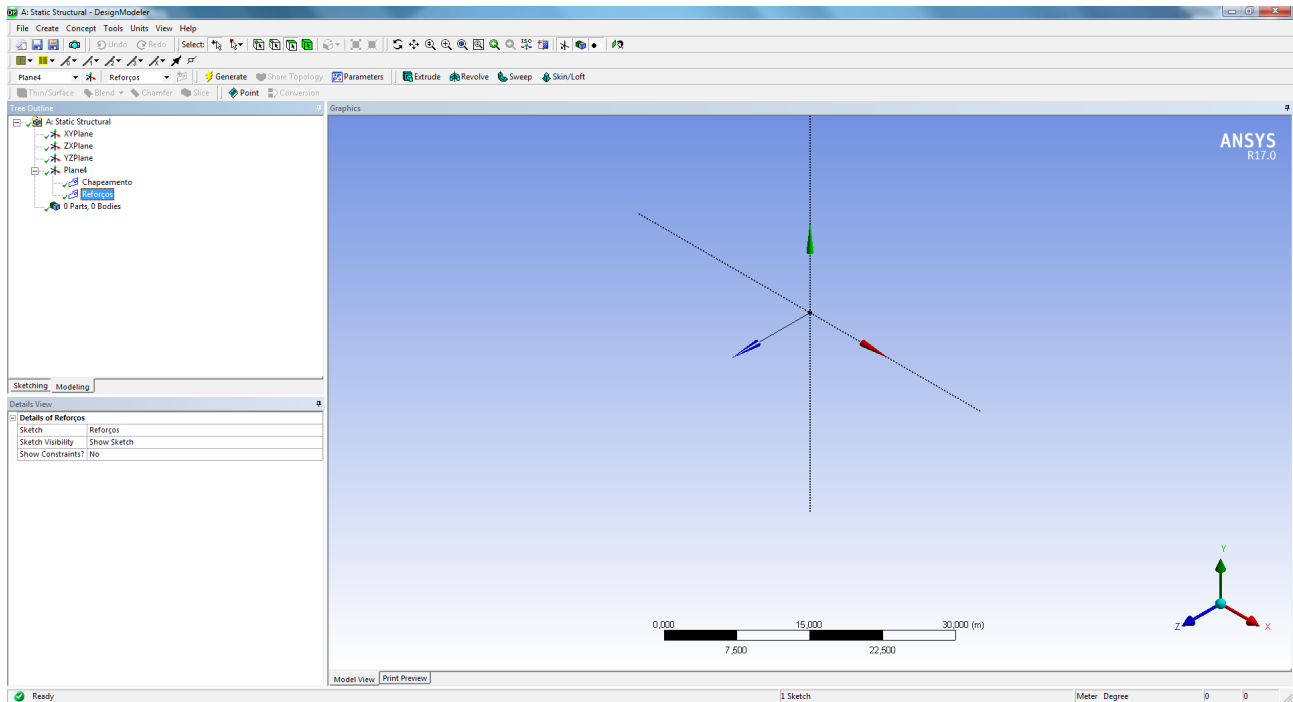
1. New Plane



2. New Sketch – Chapeamento

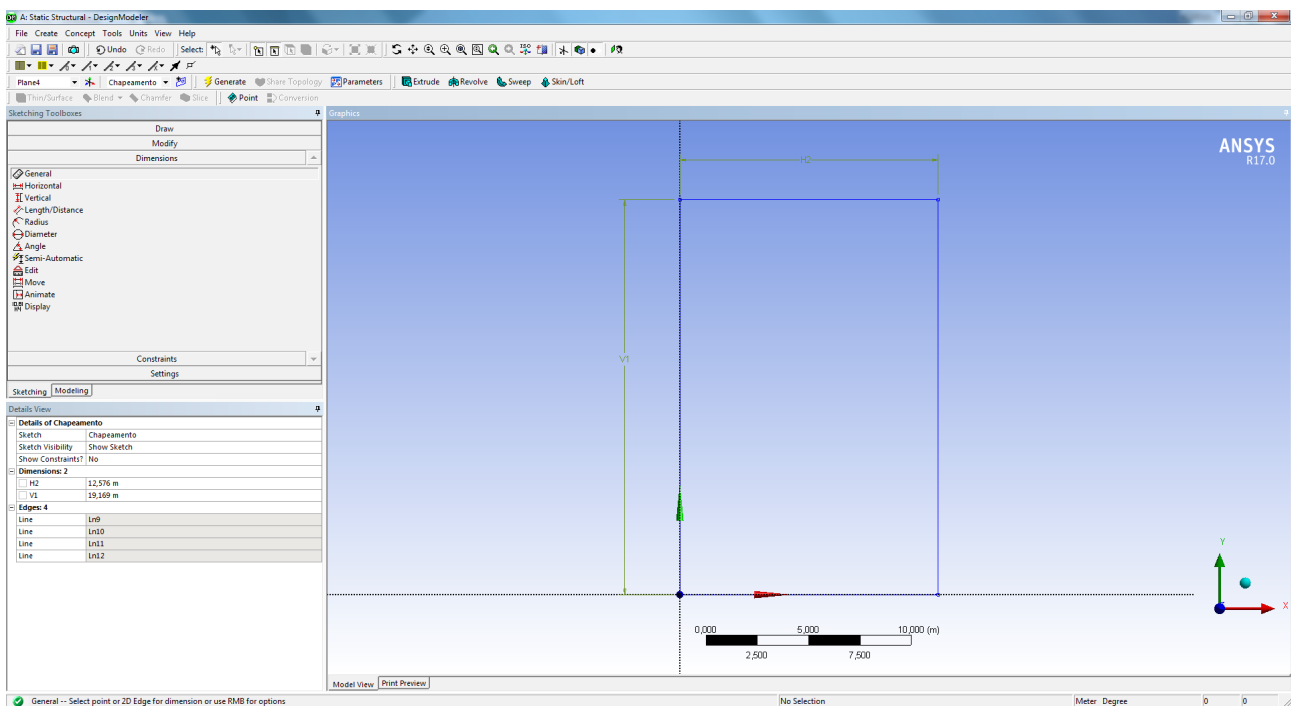


3. New Sketch – Reforço



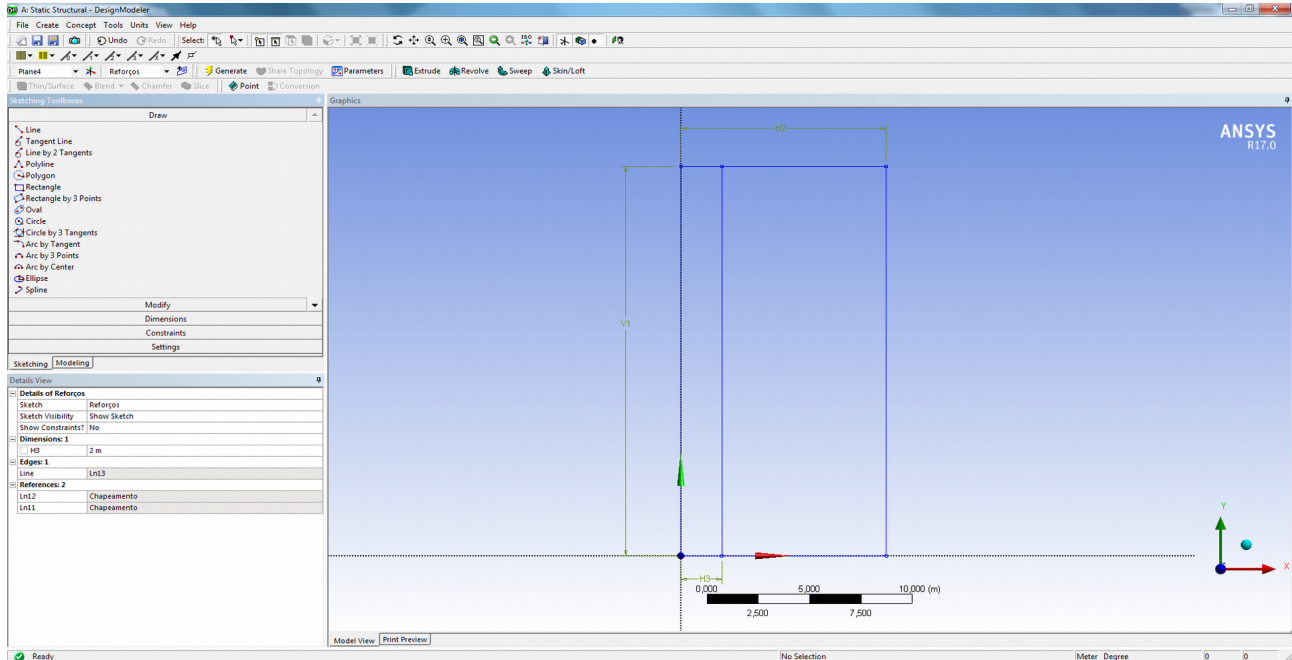
4. Sketching - Draw - Rectangle; Dimensions – General

Clicar sobre o *Sketch* Chapeamento na árvore principal, clicar em Sketching e criar retângulo com as dimensões do painel



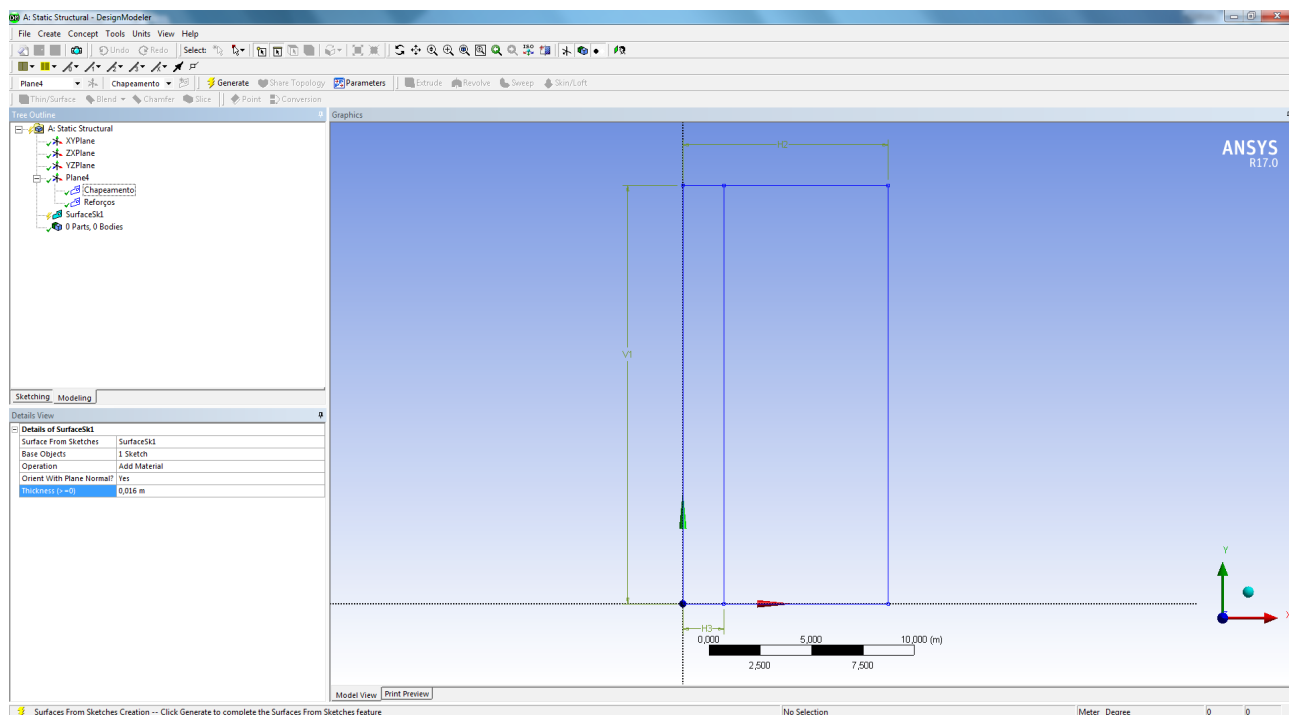
5. Sketching - Draw - Line; Dimensions – Vertical || Horizontal

Clicar sobre o *Sketch* Reforço na árvore principal, clicar em Sketching, criar linha e definir distância até uma das extremidades do chapeamento



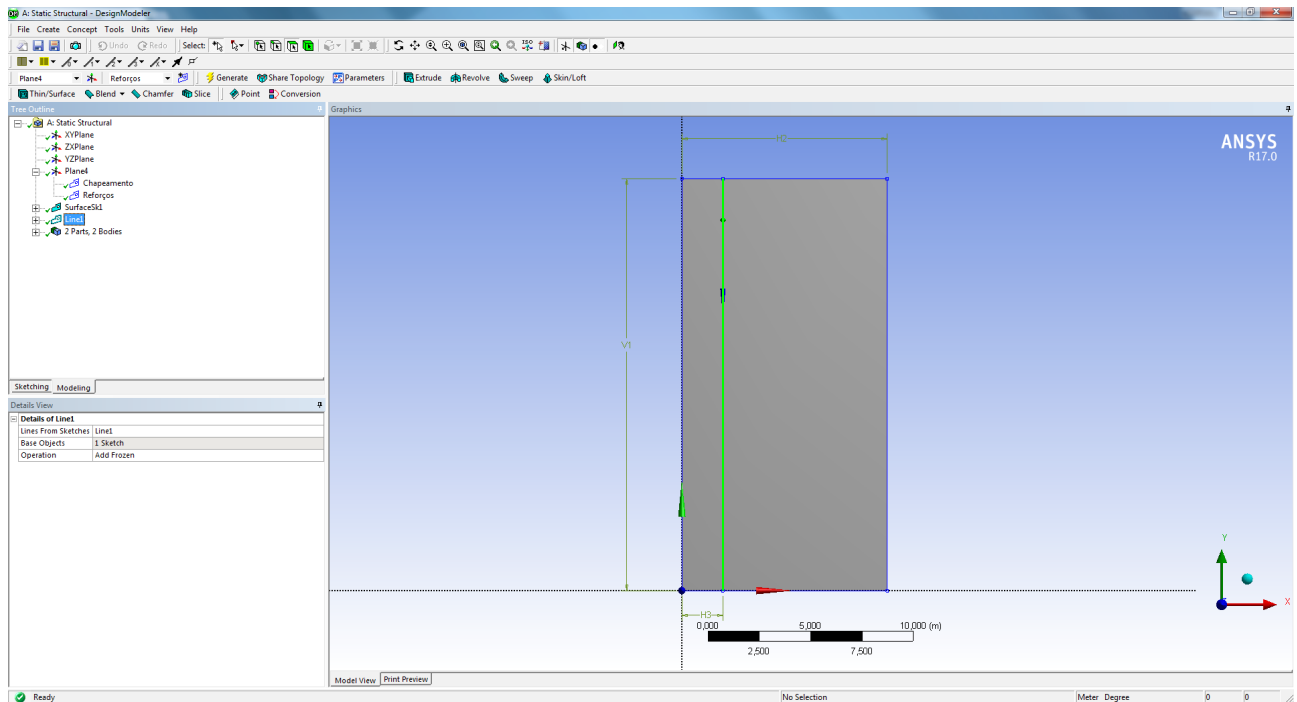
6. Concept – Surface from Sketch

Transformar o Sketch em Superfície, atentar para deixar Operation no modo Frozen e definir a espessura do chapeamento.



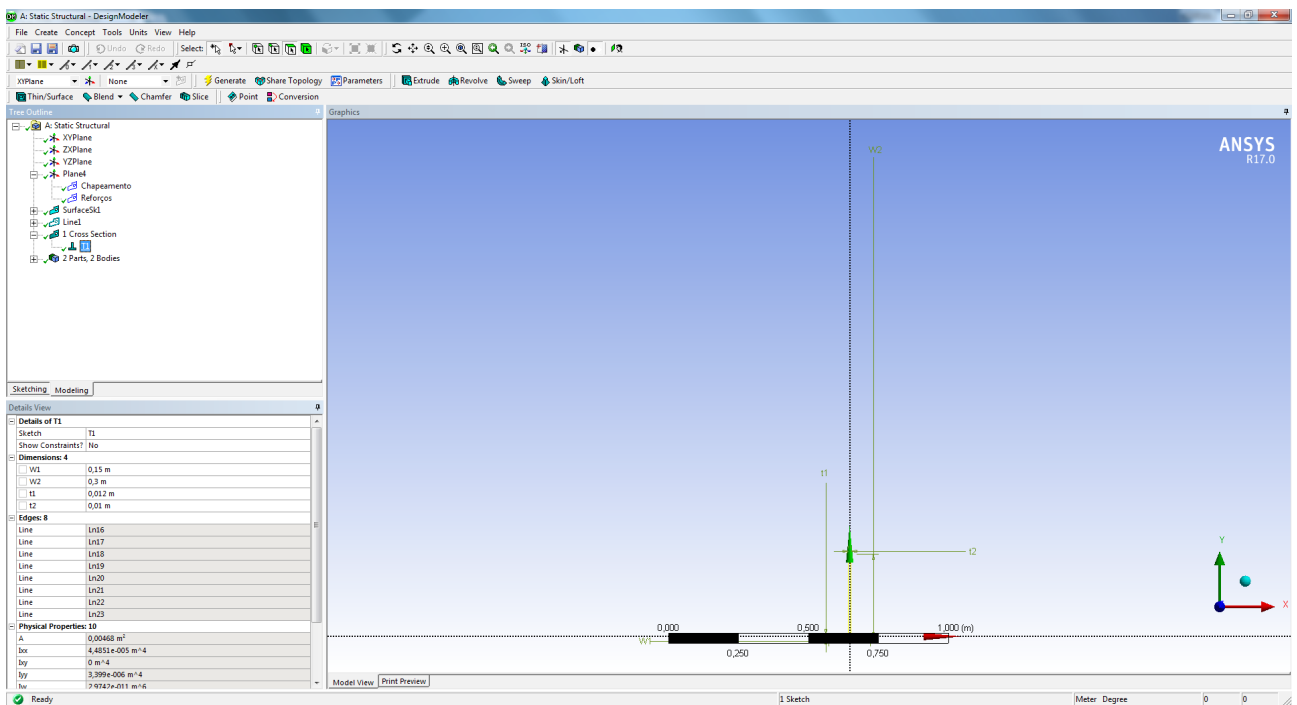
7. Concept – Line from Sketch

Transformar a linha em um corpo de linha.



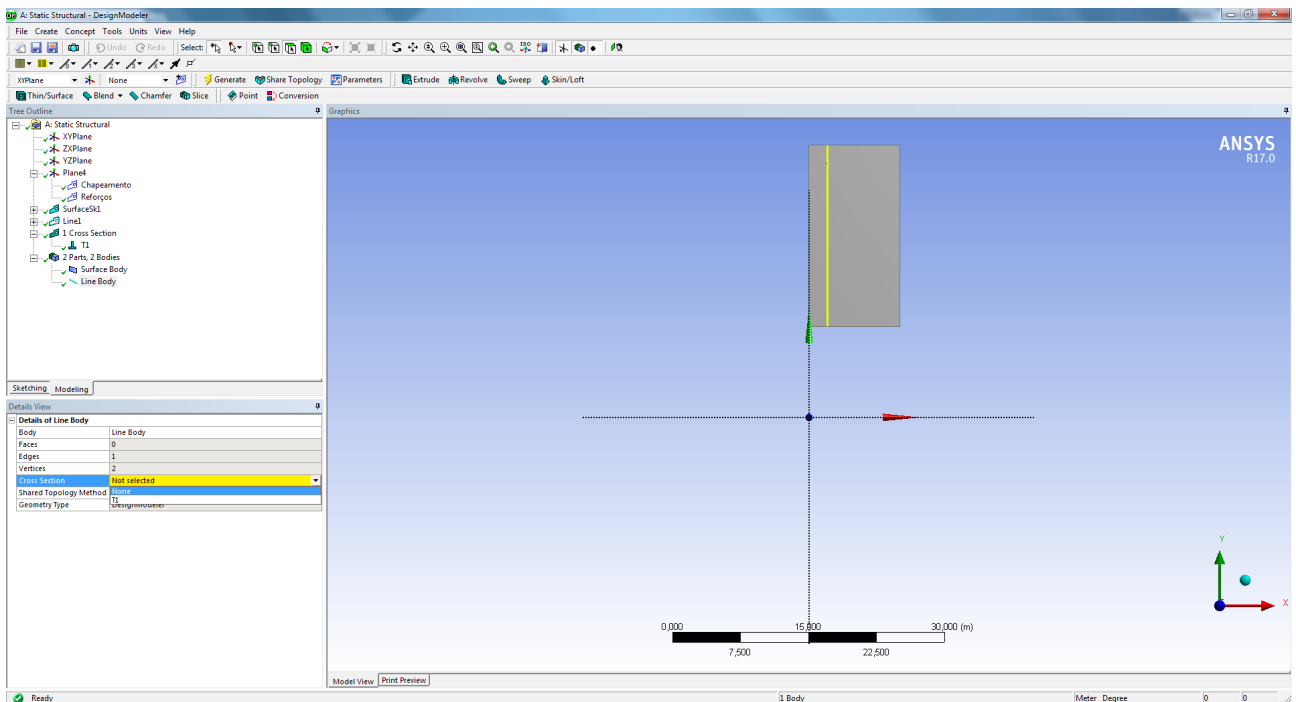
8. Concept – Cross Section

Criar seção dos reforços

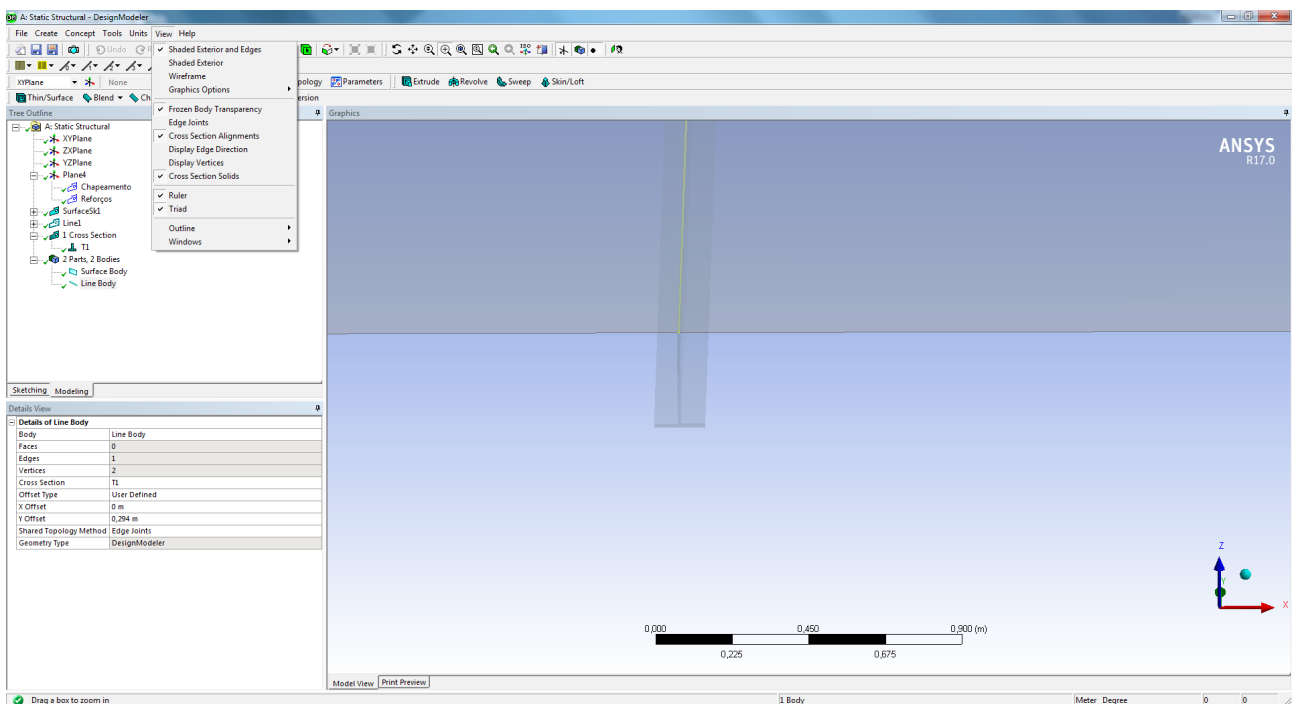


9. Clicar no corpo de linha e selecionar **Cross Section**

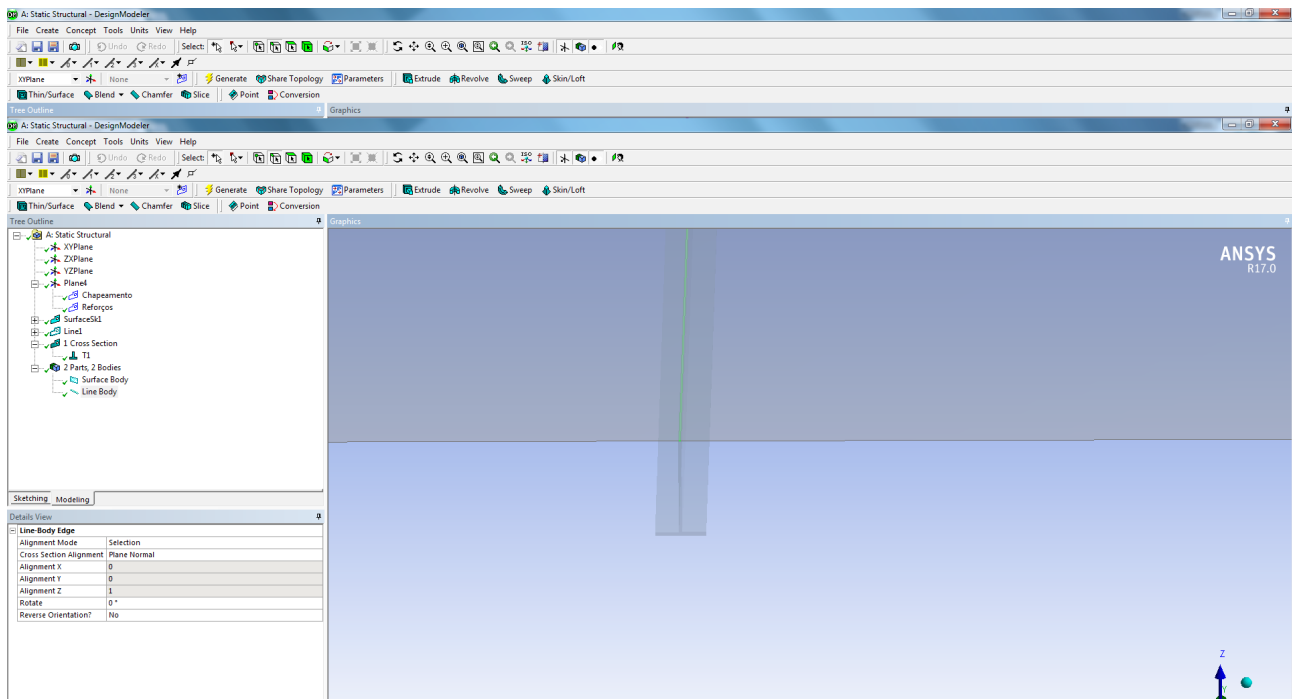
Obs- Mudar o Offset Type para User Defined e calcular o valor adequado



10. Ativar Cross Section Solids em View e verificar alinhamento

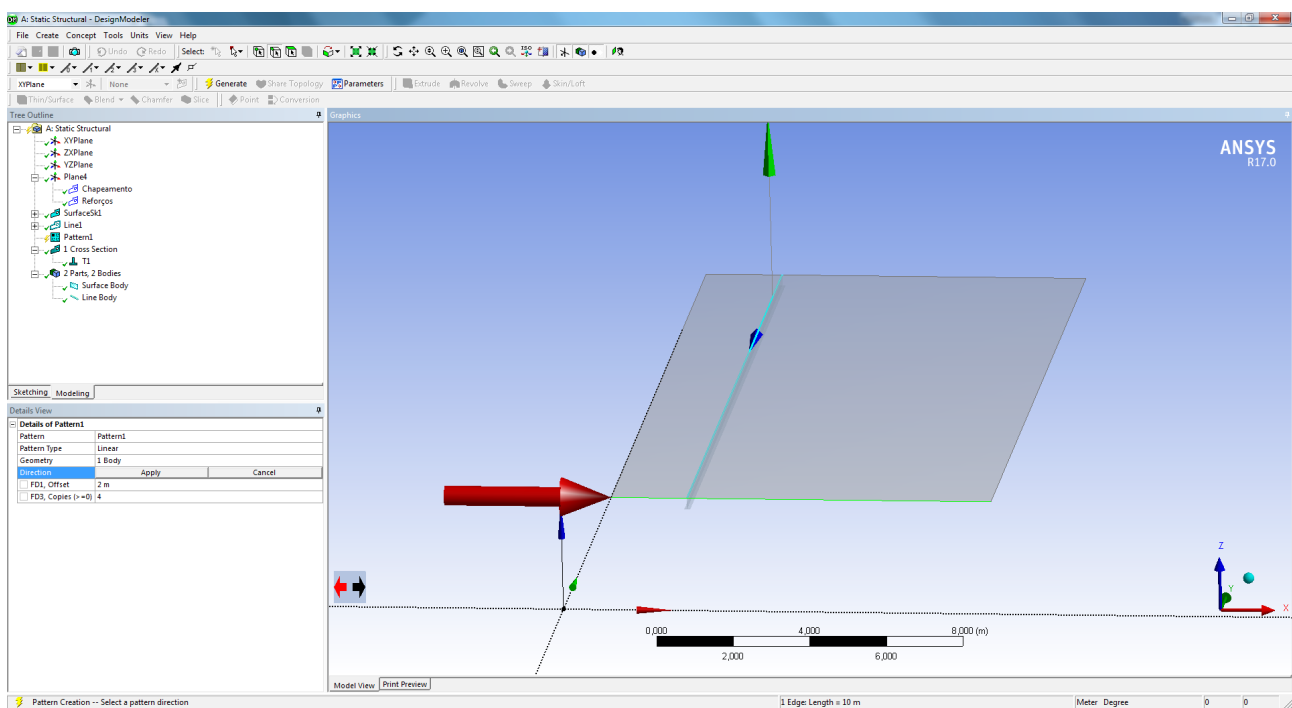


11. Clicar sobre o corpo de linha e rotacionar (se necessário) para o ângulo certo

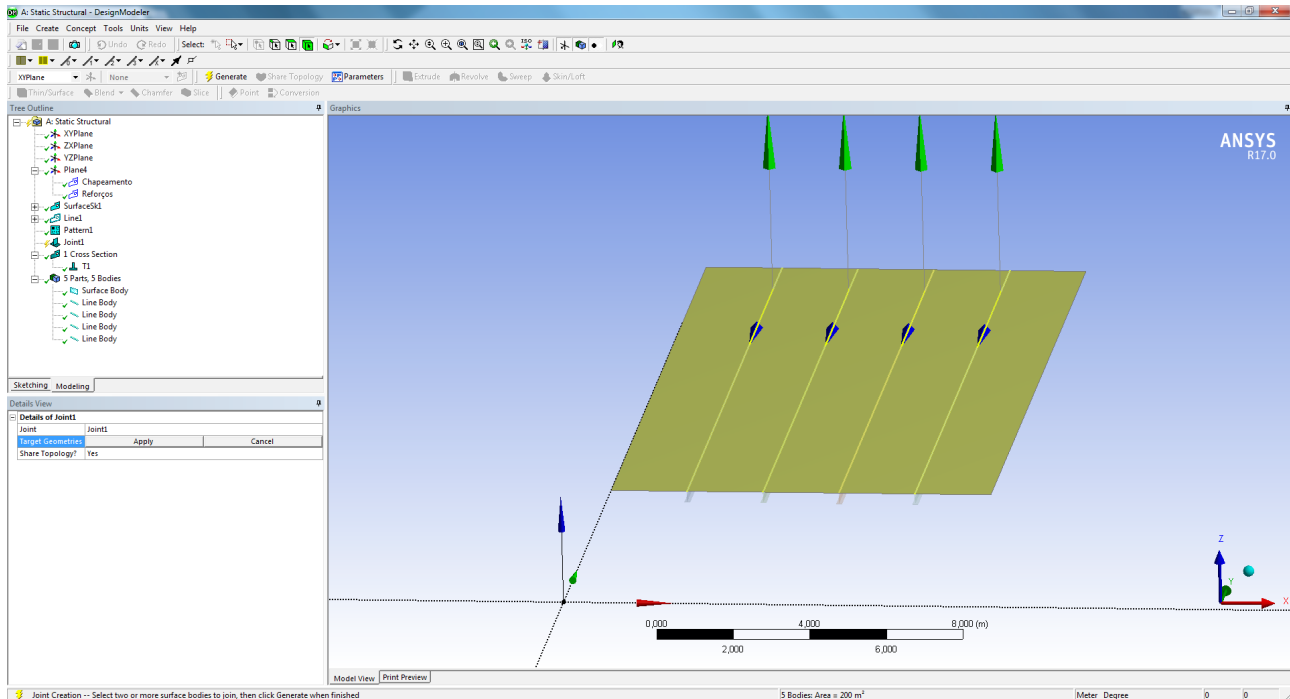


12. Create – Pattern

Criar os demais reforços do chapeamento



13. Tools – Joint



14. Selecionar todas as Geometrias com o direito e Clicar em *Form New Part*

