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| 9-1)  The figure shows a horizontal steel bar of thickness *h* loaded in steady tension and welded to a vertical support. Find the load *F* that will cause an allowable shear stress, tallow, in the throats of the welds.      **49497.47468 N**  **49.49747468 kN** |  |

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| 9-13)  A steel bar of thickness *h* is welded to a vertical support as shown in the figure. What is the shear stress in the throat of the welds due to the force *F*? |  |

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| 9-18)  A steel bar of thickness *h*, to be used as a beam, is welded to a vertical support by two fillet welds as shown in the figure.  (*a*) Find the **safe bending force *F***if the allowable shear stress in the welds is tallow.      **2.707175512** |  |