(a) box : 6 sides
base =
$$2 \times 3$$
 m²
sides = $2 \left[2 \times 1.5 \right] m^2 + 2 \left[3 \times 1.5 \right] m^2$
top = 2×3 m²

$$Q = -A \left(\frac{7}{2} - \frac{7}{1} \right) - ignore$$

$$A \times 1 + \Delta \times 2$$

$$k_{TM_1} + k_{TM_2} - edges$$

$$question = -\left[\frac{1}{4} (6) + 2(3) + 2(4.5) \right] \left[-10 - 30 \right]$$

$$question = -\left[\frac{0.125}{0.7} + \frac{0.05}{0.05} \right]$$

$$question = -\left[\frac{0.125}{0.7} + \frac{0.05}{0.05} \right]$$

$$= 712.7 \text{ J/s} = 0.713 \text{ kW}$$

(b) get T° at brick / foam interface. ⇒ Top

heat flow rate is some for each

heat flow rate is some for each layer and composite of two layers

for brick alone:

 $Q = - \underbrace{km A \left(T_{bf} - T_{i}\right)}_{\Delta x_{i}}$

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$$712-7 = -(0.70)(6+2(3)+2(4-5))(-37_4-30)$$

$$(0.125)$$