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ANALYSIS: From Fourier's law, Eq. 1.2, the heat flux is $q'' = \frac{k(T_2 - T_1)}{L} = \frac{0.023 \text{ W/m} \cdot \text{K} (20 - 2)}{0.025 \text{ m}} = 16.6 \text{ W/m}^2$. Since the flux is uniform over each of the five walls through which heat is transferred, the heat load is $q = q'' \times A_{\text{total}} = q'' [2(W_1 + W_2) + W_1 \times W_2]$. $q = 16.6 \text{ W/m}^2 [2(0.6 \text{ m} (1.6 \text{ m} + 1.2 \text{ m})) + (0.8 \text{ m} \times 0.6 \text{ m})] = 35.9 \text{ W}$.
COMMENTS: The corners and edges of the container create local departures from one-dimensional ...

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Calculate the heat flux through the insulated sheet. Here, is the temperature difference, is the length of the insulated sheet along the direction of heat flow, and k is the thermal conductivity. Substitute for, 0.02 m for L, and for k. Therefore, the heat flux through the insulation sheet is.

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