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{1, 4}-leaper tours on a rectangular chessboard

A $\{1, 4\}$ -leaper on an $m \times n$ board is a generalized knight that moves one unit horizontally or vertically and four units in the perpendicular direction. That is, a $\{1, 4\}$ -leaper moves from (x, y) to $(x \pm 1, y \pm 4)$ or $(x \pm 4, y \pm 1)$ and we need to stay on the board. Criteria for some of the possible dimensions of the board which allow a closed tour will be given.