We consider the well-studied partial sums problem in succinct space where one is to maintain an array of $n$ $k$-bit integers subject to updates such that partial sums queries can be efficiently answered. We present two succinct versions of the Fenwick Tree which is known for its simplicity and practicality. Our results hold in the encoding model where one is allowed to reuse the space from the input data. Our main result is the first that only requires $nk + o(n)$ bits of space while still supporting sum/update in $O(\log bn)/O(\log bn)$ time where $2^\alpha \leq b \leq \log O(1)n$. The second result shows how optimal time for sum/update can be achieved while only slightly increasing the space usage to $nk + o(nk)$ bits. Beyond Fenwick Trees, the results are primarily based on bit-packing and sampling making them very practical and they also allow for simple optimal parallelization.