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The order-disorder (OD) structures of $\text{Rb}_2\text{Zn}(\text{TeO}_3)(\text{CO}_3)\cdot\text{H}_2\text{O}$ and $\text{Na}_2\text{Zn}_2\text{Te}_4\text{O}_{11}$

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Two newly discovered compounds, $\text{Rb}_2\text{Zn}(\text{TeO}_3)(\text{CO}_3)\cdot\text{H}_2\text{O}$ and $\text{Na}_2\text{Zn}_2\text{Te}_4\text{O}_{11}$, both crystallize with order-disorder (OD) structures comprising of layers and feature a high stacking fault probability. Both cases are unusual in that the OD character is due to different translation lattices of the adjacent layers. The stacking disorder is visible in the diffraction patterns in the form of diffuse streaking on the characteristic reflections.

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