Supporting information for

“Electronic structures of multilayer two-dimensional silicon carbide with oriented misalignment”

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Fig. S1 Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is 27.8°. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $t_1$ and $t_2$, respectively. The atom number in the commensuration cell in each layer is $N = 26$. 
**Fig. S2** Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is $21.8^\circ$. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $\mathbf{t}_1$ and $\mathbf{t}_2$, respectively. The atom number in the commensuration cell in each layer is $N = 14$.

**Fig. S3** Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is $38.2^\circ$. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $\mathbf{t}_1$ and $\mathbf{t}_2$, respectively. The atom number in the commensuration cell in each layer is $N = 14$. 
**Fig. S4** Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is 13.2°. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $\ell_1$ and $\ell_2$, respectively. The atom number in the commensuration cell in each layer is $N = 38$.

**Fig. S5** Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is 46.8°. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $\ell_1$ and $\ell_2$, respectively. The atom number in the commensuration cell in each layer is $N = 38$. 
Fig. S6 Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is 17.9°. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $t_1$ and $t_2$, respectively. The atom number in the commensuration cell in each layer is $N = 62$.

Fig. S7 Schematics of the atomic structure of bilayer 2d-SiC with oriented misalignment. The rotation angle is 42.1°. The commensuration cell is marked by the dashed lines, with the primitive vectors for the super-lattice denoted as $t_1$ and $t_2$, respectively. The atom number in the commensuration cell in each layer is $N = 62$. 