Alperin's weight conjecture for certain blocks of defect two

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Alperin's weight conjecture predicts in particular that if B is a block of a finite group with an abelian defect group P then the number of isomorphism classes of B should be equal to that of the Brauer correspondent C of B. We show that this holds if P has order p^2, the inertial quotient of B is abelian and C has a unique isomorphism class of simple modules.