Lefschetz properties for quadratic Stanley-Reisner Antinianizations and their idealizations

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We consider the quadratic artinianization of the Stanley-Reisner ring associated to a flag simplicial complex, module the square of the variables, and the Nagata idealization of the module of facets, which is a standard graded Gorenstein Gorenstein algebra. We compare when these algebras have the Lefschetz properties.