Figure IV. Finite element model showing the geometry, the mesh, the boundary conditions, and the loading conditions for eye G1. (a) Front view; (b) Side view. Each finite element model is planar rectangular and composed of 8-node hexahedral elements, each with a length of approximately 25 μm. The model is subjected to a state of biaxial stress where sliding boundary conditions are shown in red, and distributed pressure loads are shown in blue. Note that the thickness of each model is only 50 μm (half of actual dimension) since transverse plane symmetry is assumed. A state of plane stress was also assumed.