

ABSTRACT

With a method for manufacturing a glass plate in which shape processing is performed on an edge surface of a glass plate having a disk shape, the disk-shaped glass plate has a main surface and an edge surface that is perpendicular to the main surface. The method includes a step of processing the edge surface into a target shape by irradiating the edge surface with a laser beam while moving the laser beam relative to the edge surface in a circumferential direction of the glass plate having the disk shape. A cross-sectional intensity distribution of the laser beam with which the edge surface is irradiated is a single mode, and $W1 > Th$ holds true and $Pd \times Th$ is in a range of 0.8 to 3.5 [W/mm] when a width of luminous flux of the laser beam in a thickness direction of the glass plate at an irradiation position of the edge surface is $W1$ [mm], a thickness of the glass plate is Th [mm], and a power density of the laser beam is Pd .