

## Zero Order (TZO) Waveplates



True zero order and Effective zero orders half and quarter single-plate waveplates rotate or convert polarization.

**Price** typically from 120-150 €

**Delivery**

*Stock* 1-3 days

*Manufacturing* 4-6 weeks

### True Zero Order (TZO) Waveplates

Alien Photonics true zero-order waveplates can be constructed in different ways. The main approaches being single-plate or plate glued or optically contacted (bonded) on base substrate.

Feature	Single Plate	Glued	Bonded (Optically Contacted)
Budget-friendliness	●●●●●	●●●●●	●●●●●
Ease of handling	●●●●●	●●●●●	●●●●●
Thermal Stability	●●●●●	●●●●●	●●●●●
LIDT**	●●●●●	●●●●●	●●●●●
Retardation Tolerance	●●●●●	●●●●●	●●●●●

### Effective Zero Order (ZO) Waveplates

Alien Photonics ZO waveplates can be constructed using different methods to suit various application needs. The common constructions are glued, bonded (also known as optically contacted), and air-spaced.

Feature	Air-spaced	Glued	Bonded (Optically Contacted)
Budget-friendliness	●●●●●	●●●●●	●●●●●
Ease of handling	●●●●●	●●●●●	●●●●●
Thermal Stability	●●●●●	●●●●●	●●●●●
LIDT	●●●●●	●●●●●	●●●●●
Retardation Tolerance	●●●●●	●●●●●	●●●●●