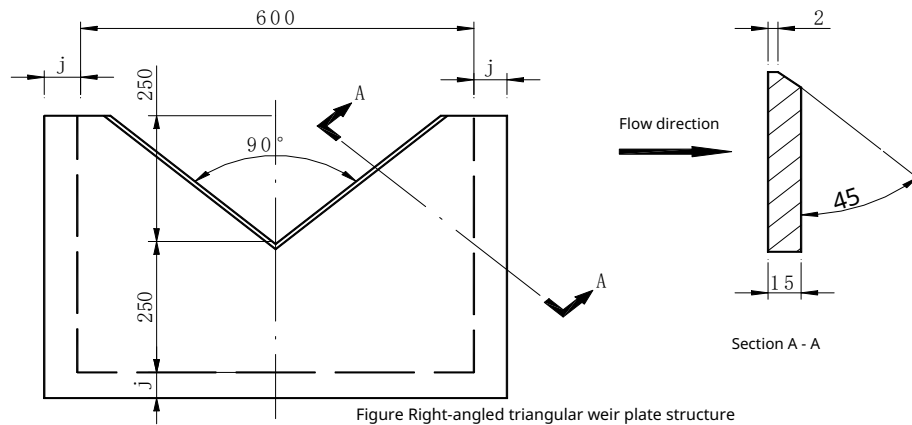


## Ultrasonic open-channel flowmeter weir plate dimensions

Weir plate type: triangular weir

Maximum flow rate: 361.59 t/h

Weir plate dimension drawing:



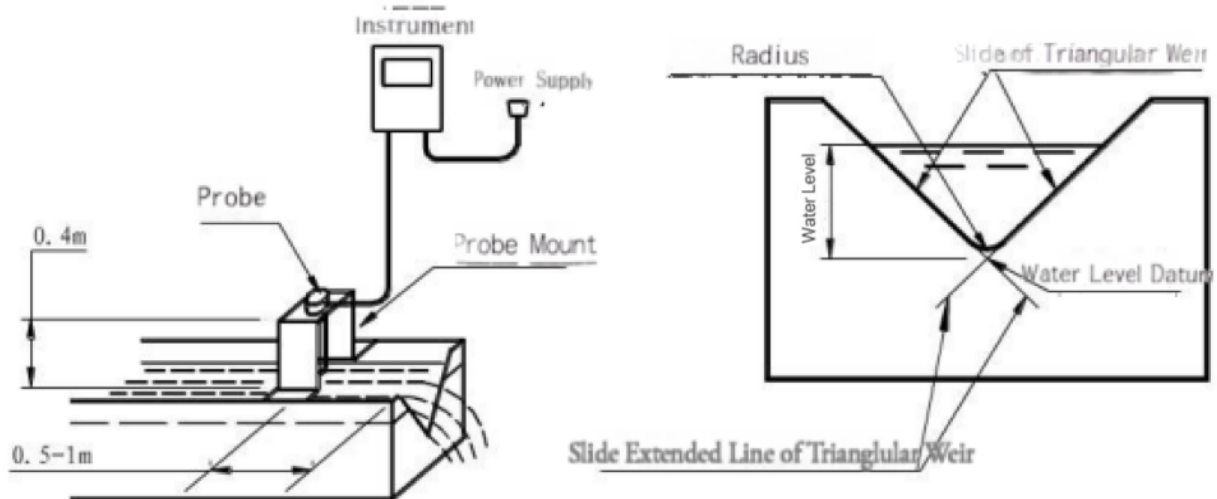
Material: fiberglass reinforced plastic (FRP);

Requirements: 1. The surface must be smooth, flat, and free of distortion; 2. The triangular crest edge must be straight and smooth.

j: the portion embedded in the channel side wall, dimensions determined by the installation site conditions.

The triangular weir is installed in the channel as shown in the above and below diagrams. The weir plate must be vertical and installed on the channel centerline. When processing the triangular weir it may cause the apex to become rounded. When determining the position where the water level equals zero, it is important to note that the water level zero point of the triangular weir should be at the intersection of the extension line of the side edge of the triangular weir.

The instrument probe should be installed 0.5 to 1 meter upstream from the weir plate.



Installation of the right-angled triangular weir in the channel and the water level zero point of the triangular weir

Note: 1 The weir is a free-flowing unsubmerged thin-plate weir.

2 The weir mouth angle is  $90^\circ$ .

3 The head over the weir is a maximum of 0.35 meters, corresponding to a maximum instantaneous flow of 361.59 t/h.