

# PC<sup>®</sup> SP 150/150

## Serrated fixing plate

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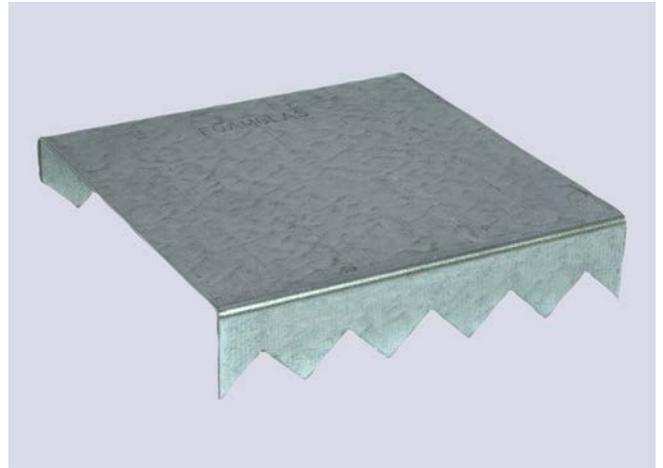
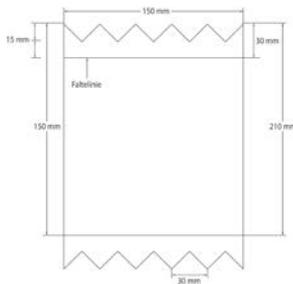
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### 1. Description and area of application

PC<sup>®</sup> SP 150/150 serrated fixing plates are used to eliminate thermal bridging for non-self-bearing metal cover and standing seam applications. They are manufactured from hot-dip galvanised steel Z275. PC<sup>®</sup> SP 150/150 serrated fixing plate has the following dimensions: 150 x 150 mm, 1.5mm thick. The edges incorporate 30mm deep serrated teeth.



### 2. Application

As the fastening system, serrated fixing plates are laid on a bitumen coating by a previously determined laying grid as recommended by the manufacturer of the primary metal covering. With a gas burner, the bitumen coating on top of the insulation layer is thermally activated under the serrated fixing plates. The plates are subsequently pressed into the insulation layer, fitting flush with the surface and bitumen bond. Depending on the building height and position, corner, edge and medium areas must be observed to determine the wind suction forces. The number of fastening points may also vary depending on the manufacturer's details of the metal covering. These include, for instance construction width and sheet width of the relevant profile plates. The teeth of the fixing plate should be placed perpendicular to the direction of the standing joints.

#### Secondary sealing

After gluing in the fastening system, the secondary seal is applied by torching on one layer of polyester-reinforced bituminous waterproofing membrane onto the surface. Joints are tight butted and sealed. The outline of the serrated fixing plate will remain visible beneath the sealing layer and can be easily located to accept metal covering fixings.

#### Fastening of standing seam with adhesion

The installation of the metal covering is carried out by fastening the fixings clips with appropriate self-drilling screws, through the membrane (min. 170g/m<sup>2</sup> polyester reinforced) and into the serrated plates. Advice should be sought from the manufacturer of the metal covering with regard to evidence of the extraction values of the bolt, or screw connection, to ensure the fixings are in accordance with the manufacturer recommendations.

The necessary number of fixings is dependant on the building height, grading and panel height.

Fixed and sliding self-drilling screws are positioned in accordance with object-specific requirements in the FOAMGLAS<sup>®</sup> insulating board structure (or the fastening equipment built in). All external forces such as wind suction, pressure and temperature-related length changing and the own loads of the metal cover are transmitted through the insulation into the bearing construction through the fixing plates. The system therefore remains free from thermal bridging.

The number of fixings can – in the system with serrated fixing plates – depend on the gradient, construction or building height and arrangement on the roof surface.

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### 3. Type of delivery and storage

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Box with 50 units each

150 x 150 mm, 1.5 mm thick.

Store in a dry place protected against humidity.

### 4. Consumption

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Depending on the type of application.

### 5. Key Data

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Steel type	Z275
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Additional information can be found in our technical data sheets (TDS). Our liability and responsibility are guided exclusively by our general terms and conditions and are not expanded by the statement of our technical documents nor by the advice of our technical field service.

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