



Calculation method of Penalties of Red PZ No.4 (motorway) infringement.

- Red PZ No.4 boundaries are 100 meters from the centreline of the motorway road A1 on both sides which creates a band of 200 meters' width.
- Coordinates of the centre line of the polygon are provided on the ENB (motorway.plt)
- The upper limit of PZ No.4 is 600ft AMSL.
- For every trackpoint, which is inside this area with an altitude below the upper limit a penalty will be determined.
- Penalties will be given based on number of track-points inside of the "tunnel" and the altitude below the upper limit
- For each track point inside PZ No.4 the penalty will be calculated by the formula:

$$\text{Track Penalty} = \frac{[\text{infringementpercentage}]^{1.5}}{10}$$

$$\text{Total penalty} = \text{Sum (Track Penalty)}.$$

The total penalty is the sum of all the calculated track point penalties and will be rounded to the next full digit.