actibump®

FREQUENTLY ASKED QUESTIONS

Dok.nr./Doc. no. 90 028
Version E

edeva

What is the Actibump? What does it do? How does it work?

Actibump is a traffic safety system where speeding vehicles activate an inverted speed hump integrated into the road surface. It gives a physical reminder to speeding drivers. This is done by lowering a hatch a few centimetres into the road, creating a speed hump only for speeding vehicles.

Where should an Actibump be placed?

Where it is important to create a safe environment for vulnerable road users by reducing the speed of the passing vehicles but where it is also important to maintain full accessibility for all vehicle types. Actibump can be installed in pretty much any traffic situation. Such as cycle and pedestrian crossings, bus lanes, emergency vehicle routes, bus stops, intersections, roundabouts and so on. Actibump was originally constructed for town and city environments but has also proven to be very effective at toll booths. This indicates that it would be suitable for installation in harbours, at airports and industries – anywhere there are pedestrians and cyclists sharing space with vehicles moving at high speed. The retailer of the Actibump system will advise on the exact placement of the installation.

How much does an Actibump cost?

Actibumps are usually sold two and two or four and four. An installation with two Actibumps costs about €63 000. Comparable to traffic lights.

Is Actibump cost effective?

Yes, on the right site. The total installation cost depends on the installation site. The cost for an Actibump system, over a period of ten years, is approximately the same as an average speed camera/radar installation or a bus adapted speed hump (based on Swedish conditions). Actibump provides a durable speed securing effect with maintained accessibility, is low maintenance and needs no continuous work from administrative officials or law enforcement. It is substantially cheaper than a grade separation or a roundabout.

What speed limit is appropriate for an Actibump site?

5-50 kph.

What results can we expect?

So far the Actibump has yielded an 85-th percentile speed of the speed limit ±3 kph within six months to a year and the effect has persisted over the years. Speeding, and top speed, has decreased on all Actibump sites. Actibump has the same effect on driver behaviour as average speed cameras do. As the Actibump continuously collects data it is possible to analyse the speeding behaviour and adjust the settings accordingly. See the independent evaluations available on our homepage www.actibump.com

Does the safety effect last?

Yes. Statistics from all installations made since 2010 have shown that the desired effect is reached early and the effect lasts or is improved over time.

How does Actibump measure the speed of oncoming vehicles?

Usually using radar. There are other solutions as well.

Why radar?

Radar has many benefits. It is touch free, dynamic, has a low installation cost, can be aimed and adjusted to fit the specific site and has many points of measurement.

How does Actibump affect accessibility?

No vehicle type needs to slow down more than any other and all vehicles can maintain a continuous speed. As opposed to static traffic calming solutions where heavier vehicles need to slow down far below the speed limit to get a comfortable ride. The Actibump provides a continuous flow of traffic.

How does Actibump affect public transport?

Positively. As opposed to static hindrances Actibump does not delay public transport and the work environment of bus drivers is not affected. As long as the vehicles maintain a legal speed they will pass on a level road.

How does Actibump affect emergency vehicles?

Passing an Actibump at a speed above the legal limit will give the driver a physical reminder but healthy vehicles are not damaged by the passage. With a transponder as an accessory selected vehicles, for example emergency vehicles, may pass above the legal limit without discomfort.

How does Actibump affect crossing pedestrians and cyclists?

The accessibility for cyclists and pedestrians is improved as the speed of the motor vehicles is lowered. The drivers get enough time to see the vulnerable road users in time to slow down at crossings. See the independent evaluations on our homepage www.actibump.com

How does Actibump affect heavy goods traffic?

Positively. If they stay within the legal speed limit the work environment of the drivers is not affected at all, and neither is accessibility. The effect on speeding behaviour amongst heavier vehicles has proven to be the same as that of other vehicles.

How does actibump work during the winter?

Actibump has been used since 2010 and has functioned very well despite snow, ice , sand and salt. Since the Actibump is connected to the surface water inlet snow, rain and slush that enters the road module will drain off. As the system has no parts protruding from the road snow clearing vehicles can pass without damaging the construction. There is no need to shovel snow by hand at an Actibump site. Gravel is not an issue. There is plenty of space below the hatch for gravel to assemble without disturbing the mechanics and the hatch cannot get stuck because of gravel since it weighs 300 kilos.

What is the environmental impact of the Actibump system?

Actibump creates a continuous flow of traffic at the right speed. There is no need for breaking and accelerating at an Actibump, as there is at static hindrances, and with a continuous flow of traffic there is less congestion. This contributes to lower fuel consumption, less emissions and less noise.

How much maintenance is required?

Yearly maintenance is recommended in order to reach the full technical life span of the system (10-12 years). The system is remotely monitored, which means any need for service can be predicted and planned for.

How does the Actibump system handle two wheeled vehicles?

Regardless of vehicle type you pass the Actibump unaffected if you travel within the speed limit. On both sides of the road module there is space wide enough for bikes or motorcycles to pass. The Swedish Motorcycle association (SMC) has test driven the system and concluded that it is uncomfortable but it works to cross it on motorcycle even when activated.

How is the Actibump system controlled?

The system is controlled trough a web based system called EdevaLive. There are a variety of services available in EdevaLive, such as time and date controlled speed limits, statistics and remote system monitoring.

What signs are required?

An Actibump should be marked with special sign declaring that there is a speed activated hump (may vary between countries).

Is there a way to monitor the traffic on the Actibump site?

Yes. Statistics from the site can be viewed using the cloud service EdevaLive. Both real time data and periodical data can be viewed.

Can the system be combined with other equipment?

There are several accessories available for the Actibump system. For example WIM (Weight In Motion), vehicle classification and transponder. Other equipment can be added upon order.

Are speeding vehicles damaged?

No. “Healthy” vehicles are not damaged. If it can survive a static speed bump it will survive the Actibump.

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