



Hörmann
Doors for Home and Industry

Lisa Modest-Danke

Verena Lambers

Sophie Eiling

E-mail: pr@hoermann.com

Image 1: The certified OktaBlock mobile vehicle barrier from Hörmann allows different events to be secured against attacks from vehicles in a flexible, location-independent and cost-efficient manner.

Hörmann perimeter protection systems Mobile vehicle barrier OktaBlock

Under the name OktaBlock, Hörmann now offers mobile vehicle barriers to secure access roads and open-air events against motor vehicles breaking through. The OktaBlock meets the crash test standards of the international safety standards BSI PAS68:2013 and IWA-14-1:2013. The same applies to the technical guideline of the German police for mobile vehicle barriers, the requirements of which the OktaBlock TR variant was designed to meet. In Germany, Hörmann offers the mobile vehicle barriers on a purchase and rental basis.

One of the most important features of the OktaBlock, which gives it its name, is the octagonal base plate with a jagged edge. In the event of a vehicle impact, the bollard tilts forward and the base plate with its prongs wedges between the vehicle and the road. Due to the braking effect achieved in this way, the vehicle quickly comes to a standstill and is unfit to drive. Due to its axisymmetric geometry, the Hörmann OktaBlock has no predefined impact side and can thus prevent a vehicle collision from any direction. According to the manufacturer, this is only available from Hörmann.

The effect of the OktaBlock has been proven in various crash tests. In the test prescribed by the international standards BSI PAS68:2013 and IWA-14-1:2013, an unmanned lorry with a test weight of 7.5 tons and a speed of 50 km/h drives into a single OktaBlock module. The resulting impact energy is around 750000 joules. The crash tests, which have also been successfully completed and are required by the German police's technical guidelines for mobile vehicle barriers, are even more demanding. In the test carried out on a wet road, the barrier must absorb an impact from two different angles of 90 and 45 degrees, with a maximum impact energy of up to 986000 joules in protection category SK1B.

With the extension kit, the OktaBlock also meets the requirements of the British VADS standard (Vehicle Attack Delay Standard) of the Centre for the Protection of National Infrastructure (CPNI).

In contrast to other mobile solutions, the certificates are also valid when individual modules are used. It is therefore not necessary to connect several modules, making the OktaBlock very flexible to use in a wide range of constellations.

Flexible, location-independent and cost-effective

With the OktaBlock, different events can be almost completely secured against attacks from vehicles in a flexible, location-independent and cost-efficient manner. In contrast to fixed safety bollards and other blocker devices, all structural measures, such as the attachment of ground anchors or the laying of supply lines, are not required.

By means of a transport aid that can be screwed into the bollard cover, the completely assembled individual barrier can be easily put into position with a crane or forklift truck, and installed and removed without special technical knowledge. In addition, Hörmann offers the OktaMover transport aid, which can be used to position or move the mobile

bollards without using a crane or forklift truck. In an emergency, this makes it possible to quickly and easily create access for rescue vehicles, for example. Without a crane or forklift, the vehicle barrier cannot be moved or manipulated and therefore does not have to be guarded before and during the event. The individual elements can be stored outdoors and transported on standard lorries in a space-saving manner. Hörmann recommends that an expert develops a perimeter protection concept to ensure that the installation complies with requirements and standards. The Hörmann OktaBlock blends inconspicuously into the overall concept of events and is not perceived to be threatening. The surface of the vehicle barriers can also be used for advertising or information purposes. For better visibility in the

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dark, construction site lights known from road traffic can be fastened to the head of the OktaBlock using a universal adapter.

OktaBlock barriers can be arranged individually, in rows or offset. This allows individual protection concepts to be implemented according to requirements. In addition, the barriers provide unobstructed escape routes at all times without impairing visibility. The Hörmann OktaBlock is also suitable for narrow streets and pavements or bike paths, which can often be certifiably secured effectively with just one module. Barriers with unlimited width are possible, as well as a sluice arrangement with defined passage points for emergency and rescue vehicles.

Hörmann supplies the OktaBlock modules in two different versions. While the standard model practically withstands a maximum impact energy of approximately 750000 joules, the OktaBlock TR model was designed for up to 986000 joules. It meets the even stricter requirements of the technical guideline (TR) of the German police for mobile vehicle barriers.

In both cases, the base plate measures 800 × 800 mm. With a weight of 450 kg, the OktaBlock TR weighs 100 kg more than its lighter sibling. The bollards are 1250 mm high and have a diameter of 273 mm. In the standard version, the mobile road blockers are supplied in Anthracite grey. All RAL colours are available on request.

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Images and captions:



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Image 2: The OktaBlock barriers from Hörmann can be arranged individually, in rows or offset. This allows individual protection concepts to be implemented according to requirements.



Image 3: In the event of a vehicle impact, the OktaBlock from Hörmann tilts forward and the base plate with its prongs wedges between the vehicle and the road surface, quickly bringing the vehicle to a stop.



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Image 4: By means of a transport aid that can be screwed into the bollard cover, the individual barrier, which does not involve any assembly work, can be easily put into position with a crane or forklift truck, and installed and removed without special technical knowledge.



Image 5: Hörmann offers the additional transport aid OktaMover. This allows mobile vehicle barriers to be quickly and simply moved without using motorised special vehicles.

Photos: Hörmann