

Policy	ALG-009 360 degrees view and reverse driving signalling on vehicles			
Written	Checked	Approved	Revision	Date
J. Meerman	Suppliers	J. Toes	00	30-05-2017

A building site should be a safe workplace. It is therefore essential to make good agreements with one another and enforce their observance.

One of the risks on a building site is the risk of collision and/or entrapment by vehicles, a risk which has led to serious accidents in the past.

Reducing the risk of collision or entrapment is very important and primarily requires separating humans and machines, for example by putting in place pedestrian routes. Sticking to the "You see me, I see you" principle is very important, as is wearing reflective clothing.

Furthermore, we believe it is vital for the machinist to have a 360° view. In consultation with a number of key suppliers of Visser & Smit Hanab, we have agreed that all mobile diggers must be checked for this risk using the enclosed form. So it is important that the 360° view is guaranteed, which may be done with the aid of cameras, mirrors or additional supervision. This issue must be covered by the inspection during the annual test. The inspection seal certifies that this inspection has indeed been successfully completed.

From 1 September 2017, this obligation applies to the vehicles used in work performed by Visser & Smit Hanab.

This obligation applies not only to the company's own vehicles, but also to hired vehicles and the vehicles of subcontractors and suppliers. ALG-009-01 presents a 360° view checklist. This checklist must be completed for all machines for which a 360° view must be guaranteed, and can be requested by V&SH.

The machines listed below must at minimum have a "guaranteed 360° view" and acoustic reverse drive signalling.

- Hydraulic excavator (tyres)
- Suction sweeping vehicle
- Vacuum tanker
- Articulated dump truck/Tractor with trailer
- Lorry
- Loader/shovel
- Telescopic handler

Suitable camera systems and reverse drive signalling

To achieve a suitable reverse drive camera system, you should always first contact the supplier of the machine, who can advise you best on the most suitable system.

The principle in choosing a system must always be that the operators can see what is happening around the machine and that people outside the machine are alerted to the presence of a (road) driving machine/vehicle.

Cameras

There are (mobile) systems available for 360° imaging around the machine, possibly supplemented with visual representation on the screen by means of arrows pointing to where someone is located. In many cases, these can be linked to the screens already fitted in the cab.

Acoustic reverse drive signalling

Excavators where the front and back sides can be exchanged must be fitted with acoustic signalling on both sides. There are systems available where the driver can switch off the acoustic signalling after around 10 seconds.

You see me, I see you

Despite all technical measures, it remains necessary to take a defensive attitude near to mobile machines/vehicles. First make eye contact with the operator before passing a machine/vehicle: "You see me, I see you" ("Zie je mij, zie ik jou").



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Appendix 1: Machines that must have a guaranteed 360° view

Machine type	Example	Machine type	Example
Hydraulic excavator (tyres)		Suction sweeping vehicle	
Vacuum truck		Tractor with trailer	
Lorry		Loader/shovel	
Telescopic handler		Articulated dump truck	