



## Solution no. 2: Parallel approach. Area guarding.

A horizontal AOPD is used.

The above diagram shows the calculation of the safety distance S and the positioning of the AOPD. If the installation height of the AOPD is increased beyond 300 mm the safety distance will be less but one has to allow for the risk of a person entering the hazardous zone undetected by passing under the AOPD. In such cases it will be necessary to install an additional device based on an evaluation of the risk.

**Conclusion:** The table below shows the results of these two solutions. Operating constraints enable us to decide between the two solutions.

Advantages	Advantages	Drawbacks
Solution no. 1 S = 320 mm	Higher productivity because operator is closer. The short distance between the vertical barrier and the hazardous zone makes it possible to store material close to the machine.	More expensive safety device.
Solution no. 2 S = 1336 mm	Less expensive safety device enables access to be guarded regardless of the height of hazardous zone "a".	Operator much further away. Difficult to store products on the ground because the barrier takes up a great deal of space. Lower productivity. Higher productivity cost.