



haagh protection

**Safety pallet gate systems**

## Haagh Protection

Haagh Protection BV has been active in the field of workplace safety since 1981. Over the years we have frequently seen that a good, safe workplace not only increases job satisfaction but also prevents accidents and helps to reduce absenteeism. Good safety therefore contributes significantly to workforce productivity and quality. A good and safe workplace yields results!



Haagh Protection BV has a range of specialized safety equipment and products. Our brochure provides you with information about our pallet gate systems (or pivoting pallet gates) made to provide protection and safety for open loading areas between different floor levels and platforms. Our high quality products comprise items for use in every industrial environment.

Our brochure provides an overview of both standard solutions readily available and customized solutions which can be fully adapted to a specific situation. All our products share the same characteristics providing a safe and pleasant workplace while requiring a minimum amount of space.

In our brochure you will find more details about our pallet loading gates/ pivoting safety gates for safe working at heights.

## Criteria

To find the best solution for every loading situation using a pallet gate system, some important points should be considered first regarding the items to be loaded and the building itself. When assessing the situation Haagh Protection applies the following criteria:

### Dimensions

The height, width and depth of the load (dimensions), to be transported individually or on a pallet. Note: protruding loads on the pallet should also be allowed for.

### Installation height

The available installation height determines the maximum height of the load.

### Installation depth (outswing)

Pivoting gates require extra space to operate.

### Direction of goods transport

Determine which direction (backwards or sideways) the load is positioned in and out of the pallet loading gates. A sideways movement requires more depth.

### Type of transport

Which type of transport is in use. A fork-lift truck or reach truck requires different facilities than, for example, a travelling crane.

### (Fire) doors and roll-up doors are in place

Positioning a pallet loading gate directly next to or behind a door needs special requirements.

### Situating the device

Assembly ensures that the front of the gate aligns precisely with the mezzanine floor edge. This is particularly important when loading a pallet from a lower floor. The fork-lift driver places the pallet on the edge of the mezzanine floor. The gate then closes behind the pallet. When the pallet is not in the right position, the gate will not close and the goods cannot be transported.

### Type of material and basic construction

The basic construction must comply with a series of specifications to construct and install a pallet loading gate.

### Contrasting colour

Devices are produced in signal yellow (standard RAL 1028). This colour contrasts with the surrounding area for optimum visibility and to help reduce the risk of accidents.

### Easy to operate

The device helps to provide a safe workplace and, in addition, it is simple and easy to operate. The device's construction ensures that, under normal use, it does not present any risk or hazard during use and operation.

*On page 10 you can find our enquiries form.*



## Standard solutions

Characteristic of the Vario series is their compact construction. They require a minimum amount of space so no valuable storage and/or working space is lost. The connection between the separate components is ingenious making

them easy to operate. The device is shock-resistant and is very durable, even in heavy use. The Vario series is available on order and competitively priced. Haagh Protection can supply every type of Vario including assembly,

if desired. The tubular frame sections are supplied in powder coat signal yellow (RAL 1028 colour) in accordance with the BS-4800 norm. Other colours are available on request. The tubular frame sections meet the

employment protection act. Haagh Protection offers a two-year guarantee on every product. Technical drawings are available on request.

### Vario 10 serie

The Vario 10 series is a pivoting loading gate design. The movable part of the gate lifts partly over the goods.

#### Suitable for loads as follows:

- Height: 1.600 mm
- Choice of widths: 1.200, 1.600, 2.000 en 2.600 mm\*
- Depth: 1.400 mm

#### Installation space dimensions:

- Height: 2.150 mm
- Width: 1.600, 2.000, 2.400 en 3.000 mm\*
- Depth: Fixed supports: 900 mm  
Pivoting component: 1.900 mm
- Turning radius: 2.250 mm  
(measured from the floor edge)

\* These widths take into account space needed to manoeuvre on both sides.

### Vario 18 serie

The Vario 18 series is a swing arm pivoting loading gate. Three rectangular frames swing over the sides of the goods.

#### Suitable for loads as follows:

- Height: 1.800 mm
- Choice of widths: 1.200, 1.600, 2.000 en 2.600 mm\*
- Depth: 1.400 mm

#### Installation space dimensions:

- Height: 2.075 mm
- Width: 1.600, 2.000, 2.400 en 3.000 mm\*
- Depth: Fixed supports: 800 mm  
Pivoting component: 1.580 mm
- Turning radius: 2.025 mm  
(measured from the floor edge)

\* These widths take into account space needed to manoeuvre on both sides.

### Vario 22 serie

The Vario 22 series is a swing arm pivoting loading gate. Three rectangular frames swing over the sides of the goods.

#### Suitable for loads as follows:

- Height: 2.200 mm
- Choice of widths: 1.200, 1.600, 2.000 en 2.600 mm\*
- Depth: 1.400 mm

#### Installation space dimensions:

- Height: 2.493 mm
- Width: 1.600, 2.000, 2.400 en 3.000 mm\*
- Depth: Fixed supports: 800 mm  
Pivoting component: 1.617 mm
- Turning radius: 2.203 mm  
(measured from the floor edge)

\* These widths take into account space needed to manoeuvre on both sides.

### Vario 30 serie: Guillotine concept

The guillotine model can be used where there is limited space behind the loading area. This problem occurs when there is insufficient space for the outswing or a lateral displacement of the load.

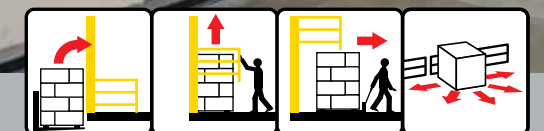
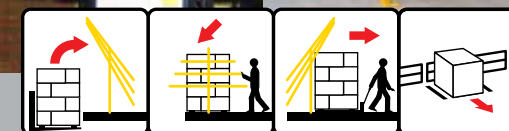
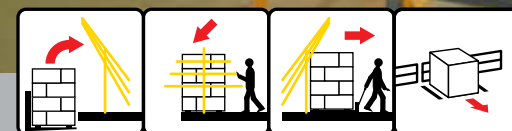
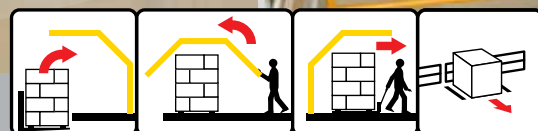
#### Suitable for loads as follows:

- Height: 2.050 mm
- Choice of widths: 1.200, 1.600, 2.000 en 2.600 mm\*
- Depth: 1.400 mm

#### Installation space dimensions:

- Height: 3.180 mm
- Width: 1.600, 2.000, 2.400 en 3.000 mm\*
- Depth: Fixed supports: 300 mm  
Sliding component: 1.510 mm

\* These widths take into account space needed to manoeuvre on both sides.





## Customized solutions

For situations where the specifications of the Vario 10, 18, 22 and 30 series do not meet your requirements, Haagh Protection can always provide you with a customized solution. This could be the case when, for example, there is a (fire)door, low headroom or an

overhead crane. We can offer you a range of solutions for these situations. And again, we supply our products including assembly, if desired. All of our products are made in a standard RAL1028 colour but there is a choice of other RAL colours, subject to availability.

## Special Note:

Pallet loading gates do not fall under any EN standard. Haagh Protection products are supplied in accordance with the laws and regulations on gate systems. Under normal use the equipment does not cause any injury to bystanders/or users.

After delivery and installation Haagh Protection offers a two-year guarantee over the whole supply programme. This is only applicable in cases of normal use and does apply for components that have been subject to undue wear.

### Up-and-over tumble gate model

This pallet loading gate type is specifically suitable for situations where the length, width or height of the load is unsuitable for a standard type Vario application. The solution could be a DP type up-and-over tumble gate model allowing several loads to be stacked beside or behind each other. The depth, height and width are then customized to your needs.

The up-and-over tumble SD type gate is specifically designed to enable the loading and unloading point to be closed off by, for example, fire doors, high-speed doors, sliding doors and/or overhead doors. This model allows the door to be completely closed when the device is open (in an open position towards the floor edge) but still allows the load to be placed on the mezzanine floor edge (instead of several decimetres behind the floor edge).

The up-and-over tumble OH type is especially designed for situations requiring the full headroom height of the opening. This is often the case in situations where the headroom is very low and a maximum high load need to be transported. This model allows optimum height clearance at the rear of the device.

### Vario 50 Barrier gate model

For complex situations, where space for manoeuvring is limited, Haagh Protection's Vario 50 barrier gate model can offer a solution. A special transfer mechanism between the two barriers directly steers the construction. If one barrier gate is open the other automatically closes.

This is an ideal solution in situations where there is an overhead hoist or crane. The barrier gate is also a safe option for use with double doors. There are models available enabling goods to be transported backwards or to the left or right.

### Vario 360 rotating model

The Vario 360 models offer a solution in situations where the space behind the loading opening area is limited, unloading is done with a hoist and/or a lot of height is required for loading.

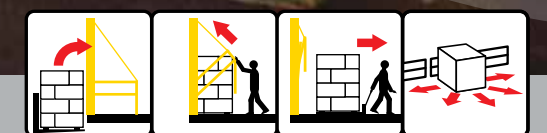
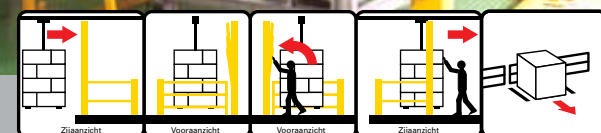
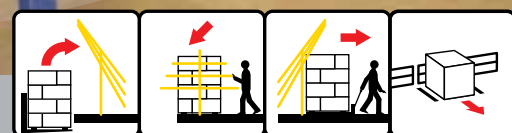
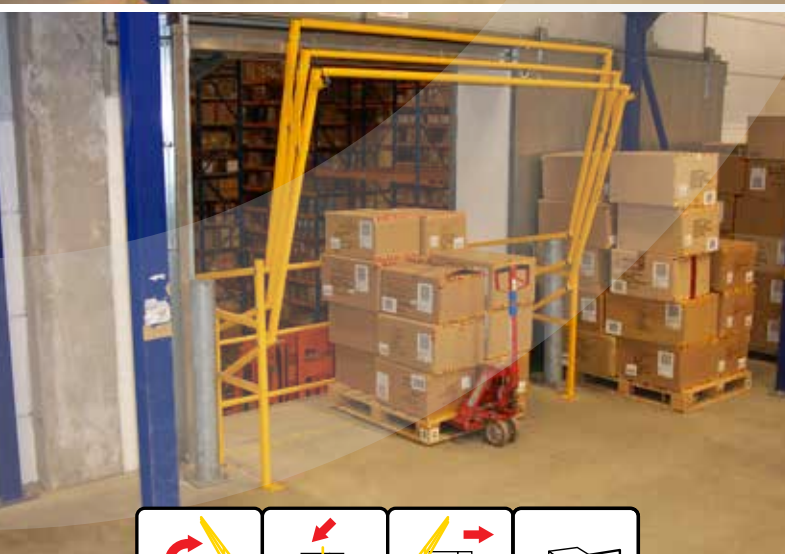
Haagh Protection rotating models are suitable for areas where there are no height restrictions and for loads weighing up to approx. 1000 kg. Delivery includes metal loading ramp.

### Vario 30HI Sliding/folding model

The sliding/folding model is a variant of the Vario 30 guillotine device and is ideal for use in areas where, besides the overall height, the available depth behind loading opening is limited. For use with loading heights up to approx. 1500 mm.

Haagh Protection can also provide solutions for areas with a low installation height and depth or extra high loads based on the guillotine model.

**NEW !**





## Case Studies

In the past, Haagh Protection has realized many customized projects using non-standard devices.

For many years, Haagh Protection has not only provided its customers with solutions for safety in the workplace but has also assisted them with customized solutions for their needs.

### Production site

Five specially customized pallet safety gates were installed by manufacturer of hygiene products. The devices were specially equipped with a vinyl tarpaulin at the front so that the automatic loading sensor could detect whether the device was available for loading the rolls. The device was also adapted to work without an extension so that it could operate in a minimum amount of space. Result: 5 fully customized pallet safety gates installed to the customer's satisfaction. Complying with the safety regulations (employment protection act) for a safe automated environment!



### Logistics site

Haagh Protection installed a customized pallet loading device with barriers at the front and a pivoting gate at the rear. This situation required a fire door to be closed in emergency situations but at the same time the customer wanted to use the full width of the opening. After studying the situation in detail, Haagh Protection came up with a solution which met the customer's needs and the outcome is that the device has been operating safely and easily ever since.



### Warehouse site

A chemical producer required customized guillotine devices to be installed to secure a raised loading platform (approx. 1.50m high) to guarantee safety against falls. To ensure safety it was decided to install multiple devices over the entire width enabling the goods to be transported in different directions.



### Transport site

Haagh Protection was requested to provide a model for use behind a roller door where very deep loads had to be transported. This led to a design combining the best of two types of pivoting safety gate. The result is that the roller door can close easily and deep loads can be quickly processed by the worker.

### Production site in a limited space

Haagh Protection supplied five guillotine devices to a customer whose production department covers a very small area. The devices were assembled in small outbuildings and were only 400 mm deep when folded. Despite a minimum amount space (which often makes the situation more dangerous) Haagh Protection was able to provide the workforce with a safe work environment.



### Production site

In this case the customer was a chemical producer who wanted a guillotine model solution for a loading area with an industrial door. There was a limited amount of space available behind the opening. Result: the solution was the Vario 30 model which fits exactly in the door opening so that risk of falls from a height are a thing of the past.



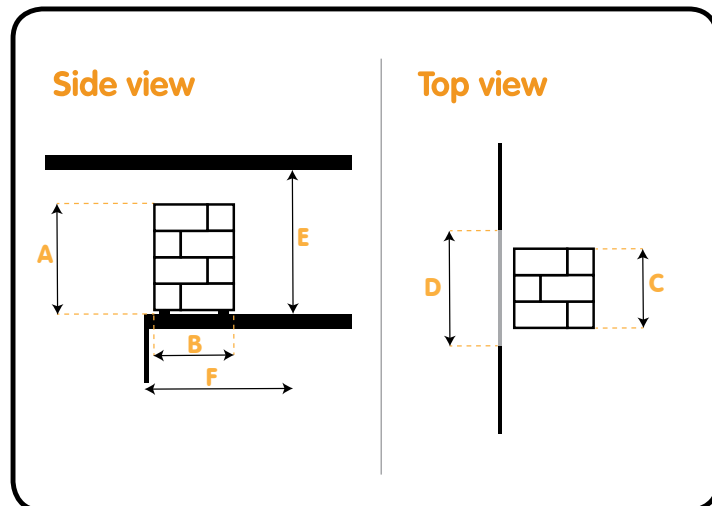


## Dimension detail forms

It is essential that the dimensions are correct. That is why Haagh Protection welcomes the opportunity to assess the situation on site. Getting the correct information is vital to ensuring the quality of the solution!

### Enquiry Form 1

You can use this form if the mezzanine floor is open (i.e. there is no opening in the wall), and when the passage not closed off by a (fire) door.



**A** Maximum height of the pallet : ..... MM

**B** Maximum depth of the pallet : ..... MM

**C** Maximum width of the pallet : ..... MM

**D** Available opening (width) : ..... MM

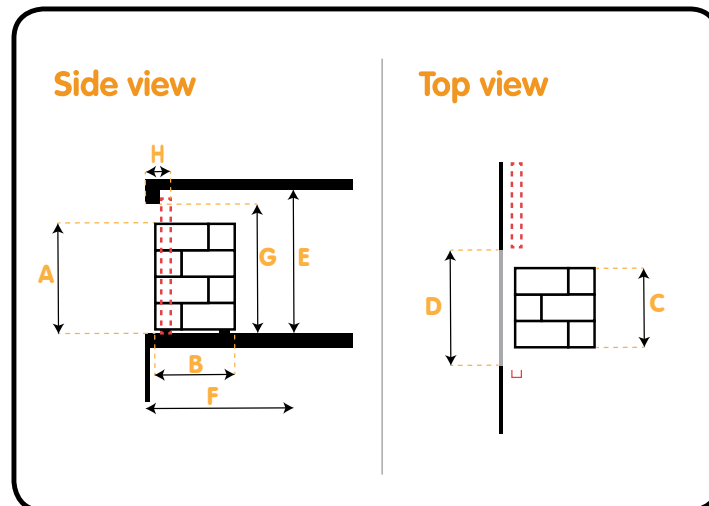
**E** Available height : ..... MM

**F** Available depth : ..... MM

To which side the goods are to be transported : to the back / sideways

### Enquiry Form 2

Please use this form if the mezzanine floor has an opening in the wall that, if necessary, should be closed off with a (fire) door.



**A** Maximum height of the pallet : ..... MM

**B** Maximum depth of the pallet : ..... MM

**C** Maximum width of the pallet : ..... MM

**D** Available opening (width) : ..... MM

**E** Available height behind the opening : ..... MM

**F** Available depth : ..... MM

**G** Height of the opening : ..... MM

**H** Distance from front side to the back of the door : ..... MM

To which side the goods are to be transported : to the back / sideways

## References

During the past 35 years, we have been working on improving and making the workplace safe. Over the years we have worked for many large and small businesses in the Benelux and Europe. Please see below a number of companies that have previously ordered our pallet safety gates.

### NETHERLANDS

DHL  
Action  
Nedcon  
Ad van Geloven  
Friesland Campina  
Nestle  
Delicia  
BAM  
Prenetal  
DKG Services  
Perfetti-VanMelle  
Sanorice  
Akzo Nobel  
Doc Data  
Nolte  
Adidas  
Paramelt  
Graham Packaging  
Starbucks Manufacturing  
Bart Smit  
Jan Verschuuren BV  
Heerkens van Bavel  
TNT  
Van Wijnen  
Hovuma  
Jorritsma Bouw  
Noordrek Bv  
JéWé BV  
DSV  
Wijzenol  
CRH  
SCA Hygiene  
Cimcool  
DAF Trucks  
Encko Food Group  
Kawasaki  
Heineken  
Loders Croklaan  
Plaza Food  
Quaker Chemicals  
QCPolymers  
Smit & Zoon  
Vista Print

### AZO

Tessenderloo Chemie  
Katoennatie  
Caldic  
Continental Rack  
Alpro  
Puratos  
Aveve  
Belgacom  
Felin  
Datwyler  
Jan de Nul  
Lubrizol  
Vopak  
Kellogg's  
SA Interbeton  
Stadsbader  
Plastic Omnium  
TVH Parts  
PB Clermont  
Umicore  
Christeyns  
Beaulieu  
Dr. Oetker  
Ineos  
Brouwerij Haacht  
Vamm Rack  
J-Tec  
Metalced

### GERMANY

Meta RegalBau  
Voest Alpine  
Regatec  
BASF  
Nedcon Lagertechnik

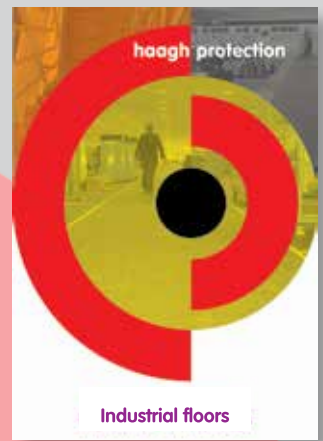
### EUROPE

Sun Chemical  
McCain Foods  
Cepro Sarl  
Cargill PLC  
GE

### BELGIUM

Nitto Europe  
Dexia  
Hesbaye Frost





For more information about Haagh Protection products please contact us at telephone 0161 22 65 59 or via [info@haaghprotection.com](mailto:info@haaghprotection.com).

Haagh Protection BV specializes in a number of very high quality products which all share the same characteristics which are to create a safe and pleasant workplace.

This brochure provides you with an overview of our products.

## Haagh Protection bv

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