Asset VARIOGUARD® is a galvanised steel safety barrier, with a unit length of 4,000mm, a height of 900mm, and a base width of 700mm. Since the foot section is considered as part of the road, the effective base width is 400mm. A box beam on top of the unit is connected by SIGMA type posts to the unit base. These posts are bi-directional, and because the system is bolted together, they are field replaceable. The standard element has a weight of only 400kg, and incorporates an integrated drainage section of 120mm x 70mm.

Total system
For speed of installation, the standard 4,000mm Asset VARIOGUARD® section is delivered to site pre-assembled in 12m lengths, fitted with Quick-joint couplings. The pre-assembled lengths are then joined together with the complete run standing unfixed on the road. Anchorage is only usually necessary at the end terminals. Asset VARIOGUARD® can also provide tested transitions to other barrier systems or parapets, and expansion joints can be installed wherever needed, i.e. on bridges and viaducts. Asset VARIOGUARD® transitions to Open Box Beam are fully tested and approved.

Asset SOLOGUARD® is a further development of the Asset VARIOGUARD® system. Designed specifically for cross-over points and contra-flow situations, Asset SOLOGUARD® can be moved easily and quickly to allow for frequent lane manoeuvring. Manufactured with integral wheels, Asset SOLOGUARD® is used for carriageway cross-over points that can then be opened and closed by just two operators in 5 minutes. Emergency cross-over gates, widely used throughout the Highways Agency Network, can be opened to relieve traffic congestion after serious accidents have led to stationary traffic on motorways and trunk roads.

Asset SOLOGUARD® can also be used for emergency access points within the buffer zone in contra-flow situations, where long lengths of Asset VARIOGUARD® are in place.

For use on bridges, roads and work sites
Tested to BS EN 1317 - 2 : 1998, containment level H2
VARIOGUARD® by Asset International is a temporary / permanent Safety Barrier System that is tested to BS EN 1317 - 2 : 1998, containment level H2. Further testing and development of Asset VARIOGUARD® safety barriers has reduced the working width of VARIOGUARD®. This is unique to Asset International, achieving a W4 working width when tested in conjunction with an N2 test. Details are available on request.

Asset VARIOGUARD® is a steel temporary barrier tested with vehicles between 1.5 tonnes and 13 tonnes in weight. Errant vehicles driving onto the foot section stabilises the VARIOGUARD® and limits deflection.

Features include:
- Installation outputs of over 400m per hour can be achieved
- Minimal space required for installation, thus keeping lane closures to a minimum
- Lateral and longitudinal movement of Asset VARIOGUARD® is quick and simple due to our experienced workforce
- Site storage is never required, as deliveries of exact requirements are made to suit client's programmes.
- VARIOGUARD® Ultra - patented cushioning rubber pads developed with TRL offer enhanced protection to surfacing. A datasheet is available on request.

Asset VARIOGUARD® anchorage

Different types of anchorage are available for any situations including bridge decks, soft ground and standard carriageways.

300m of Asset VARIOGUARD® was positioned to provide additional security at the annual Labour Party Conference, Brighton.

Health and Safety

In compliance with the Health and Safety document 2005, No. 735 : The Work at Height Regulation, Asset International has equipped all delivery vehicles with an innovative, patented safety frame fall arrest system. The safety frame can be positioned on either side of the vehicle to allow for verge or median working. The operative working at height is safely harnessed to the safety frame from the time they leave the ground.

Asset International ensures that all logistics are accurately planned and executed with the use of dedicated trailers fitted with safety frames, rear mounted beacons and CCTV cameras. Comprehensive method statements and risk assessments are completed and agreed for all sites prior to operations commencing.

Asset International's ongoing commitment to continuous improvement in Health and Safety in the workplace is constantly reviewed through extensive site audits and risk assessments.

Asset International training

Asset International's entire work force (including office staff) are CSCS card holders and trained in accordance with Sector Scheme 2B for all Asset VARIOGUARD® systems. To save on costly documentation, details of qualifications, training and plant certification can be accessed on a site specific basis through the secure section of the Asset website.

* Patent owned by H.W. Martin Ltd
We install safety, safely

**Temporary / Permanent Safety Barrier**

Asset VARIOGUARD® is a galvanised steel safety barrier, with a unit length of 4,000mm, a height of 900mm, and a base width of 700mm. Since the foot section is considered as part of the road, the effective base width is 400mm. A box beam on top of the unit is connected by SIGMA type posts to the unit base. These posts are bi-directional, and because the system is bolted together, they are field replaceable. The standard element has a weight of only 400kg, and incorporates an integrated drainage section of 120mm x 70mm.

**Total system**

For speed of installation, the standard 4,000mm Asset VARIOGUARD® section is delivered to site pre-assembled in 12m lengths, fitted with Quick-joint couplings. The pre-assembled lengths are then joined together with the complete run standing unfixed on the road. Anchorage is only usually necessary at the end terminals. Asset VARIOGUARD® can also provide tested transitions to other barrier systems or parapets, and expansion joints can be installed wherever needed, i.e. on bridges and viaducts. Asset VARIOGUARD® transitions to Open Box Beam are fully tested and approved.

**For use on bridges, roads and work sites**

Tested to BS EN 1317 - 2 : 1998, containment level H2
 ASSET International is the industry leader in the development, supply and installation of temporary safety barrier solutions.

VARIOGUARD® by Asset International is a temporary / permanent Safety Barrier System that is tested to BS EN 1317-2 : 1998, containment level H2. Further testing and development of Asset VARIOGUARD® safety barriers has reduced the working width of VARIOGUARD®. This is unique to Asset International, achieving a W4 working width when tested in conjunction with an N2 test. Details are available on request.

Asset VARIOGUARD® is a steel temporary barrier tested with vehicles between 1.5 tonnes and 13 tonnes in weight. Errant vehicles driving onto the foot section stabilises the VARIOGUARD® and limits deflection.

Features include:
- Installation outputs of over 400m per hour can be achieved
- Minimal space required for installation, thus keeping lane closures to a minimum
- Lateral and longitudinal movement of Asset VARIOGUARD® is quick and simple due to our experienced workforce
- Site storage is never required, as deliveries of exact requirements are made to suit client programmes.
- VARIOGUARD® Ultra - patented cushioning rubber pads developed with TRL offer enhanced protection to surfacing. A datasheet is available on request.

Asset VARIOGUARD® anchorage

Different types of anchorage are available for any situations including bridge decks, soft ground and standard carriageways.

30m of ASSET VARIOGUARD® was positioned to provide additional security at the annual Labour Party Conference, Brighton.

Road over Rail

Asset VARIOGUARD® has been accepted as ‘the safe solution’ and is widely used on railway bridges for the protection of sub-standard parapets and footways. Asset’s engineers and CAD designers are available to assist in site specific solutions to technical difficulties including tight radii, access to utilities and pedestrian access.

The pre-assembled VARIOGUARD® lengths are joined together with the complete run standing unfixed on the road. For road speeds of 50mph and below Asset VARIOGUARD® is anchored at the terminal ends only. For road speeds greater than 50mph Asset VARIOGUARD® is usually anchored at 68m centres, thus fully complying with the requirements of EN 1317.

Asset VARIOGUARD® is fully tested, approved and listed in the Highways Agency Approved Road Restraint Systems Manual as follows:

<table>
<thead>
<tr>
<th>System Number</th>
<th>Containment Performance Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset VARIOGUARD® Single Sided System</td>
<td>N2 / W4</td>
</tr>
<tr>
<td>Asset VARIOGUARD® Single Sided System</td>
<td>N2 / W5</td>
</tr>
<tr>
<td>Asset VARIOGUARD® Double Sided System</td>
<td>N2 / W5</td>
</tr>
<tr>
<td>Asset VARIOGUARD® Double Sided System</td>
<td>N2 / W6</td>
</tr>
<tr>
<td>Asset VARIOGUARD® Ultra Quick-joint Adjustable System</td>
<td>N2 / W6</td>
</tr>
</tbody>
</table>

Safety Barrier Gate

<table>
<thead>
<tr>
<th>Containment Performance Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset VARIOGUARD® Emergency and Maintenance</td>
</tr>
</tbody>
</table>

Transition Type

<table>
<thead>
<tr>
<th>Containment Performance Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset VARIOGUARD® transition between</td>
</tr>
</tbody>
</table>

TEMPORARY SAFETY BARRIER

PERMANENT SAFETY BARRIER

INSTALLING SAFETY SAFELY

In compliance with the Health and Safety document 2005, No. 733 - The Work at Height Regulation, Asset International has equipped all delivery vehicles with an innovative, patented* safety frame fall arrest system. The safety frame can be positioned on either side of the vehicle to allow for verge or median working.

The operative working at height is safely harnessed to the safety frame from the time they leave the ground.

Asset International ensures that all logistics are accurately planned and executed with the use of dedicated trailers fitted with safety frames, rear mounted beacons and CCTV cameras. Comprehensive method statements and risk assessments are completed and agreed for all sites prior to operations commencing.

Asset International’s ongoing commitment to continuous improvement in Health and Safety in the workplace is constantly reviewed through extensive site audits and risk assessments.

Asset International training
Asset International’s entire work force (including office staff) are CSCS card holders and trained in accordance with Sector Scheme 2B for all Asset VARIOGUARD® systems. To save on costly documentation, details of qualifications, training and plant certification can be accessed on a site specific basis through the secure section of the Asset website.

* Patent owned by H.W. Martin Ltd
VARIOGUARD® by Asset International is a temporary / permanent Safety Barrier System that is tested to BS EN 1317 - 2: 1998, containment level H2. Further testing and development of Asset VARIOGUARD® safety barriers has reduced the working width of VARIOGUARD®. This is unique to Asset International, achieving a W4 working width when tested in conjunction with an N2 test. Details are available on request.

Asset VARIOGUARD® is a steel temporary barrier tested with vehicles between 1.5 tonnes and 13 tonnes in weight. Errant vehicles driving onto the foot section stabilises the VARIOGUARD® and limits deflection. Features include:

- Installation outputs of over 400m per hour can be achieved
- Minimal space required for installation, thus keeping lane closures to a minimum
- Lateral and longitudinal movement of Asset VARIOGUARD® is quick and simple due to our experienced workforce
- Site storage is never required, as deliveries of exact requirements are made to suit clients programmes.

VARIOGUARD® Ultra - patented cushioning rubber pads developed with TRL offer enhanced protection to surfacing. A datasheet is available on request.

Asset VARIOGUARD® anchorage

Different types of anchorage are available for any situations including bridge decks, soft ground and standard carriageways.

3.50m of ASSET VARIOGUARD® was positioned to provide additional security at the annual Labour Party Conference, Brighton.

Asset VARIOGUARD® is fully tested, approved and listed in the Highways Agency Approved Road Restraint Systems Manual as follows:

- Asset VARIOGUARD® System Number 4: Containment Performance Class N2 : W5
- Asset VARIOGUARD® Single Sided System 1: N2 : W6
- Asset VARIOGUARD® Double Sided System 2: N2 : W6
- Asset VARIOGUARD® Double Sided System 3: N2 : W5
- Asset VARIOGUARD® Double Sided System 4: N2 : W5
- Asset VARIOGUARD® Ultra Quick Joint Amended System 5: N2 : W5

Asset SOLOGUARD® Emergency and Maintenance Crossing Point

- Containment Performance Class N2 : W2

In compliance with the Health and Safety document 2005, No. 735: The Work at Height Regulation, Asset International has equipped all delivery vehicles with an innovative, patented* safety frame fall arrest system. The safety frame can be positioned on either side of the vehicle to allow for verge or median working. The operative working at height is safely harnessed to the safety frame from the time they leave the ground.

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* Patent owned by H.W. Martin Ltd

Health and Safety

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For use on bridges, roads and work sites
Tested to BS EN 1317 - 2 : 1998, containment level H2

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