

# Transitions

Using extensive knowledge of Safety Barrier development, Corus have produced Vetex Transitions, providing an end-to-end solution.



Corus CEP have used all the knowledge and experience gained in the development of Vetex Safety Barriers to design Vetex Transitions which connect road barriers to bridge protection. Corus is now able to offer a complete end-to-end solution.

The VT100 Parapet Transition is the shortest of its type, offering considerable cost savings without compromising safety. It provides a transition between Vetex N2 and Protect 365 N2 parapet systems—both manufactured by Corus.

The system has been designed and verified by computer simulation and tested with modern vehicles to meet the requirements of EN 1317.

VT100 is approved by the Highways Agency.



Other traditional transitions are available on request



## Corus driving safety forward

Introducing a range of innovative EN 1317-approved vehicle restraint systems for use in modern highways. Corus CEP are using over 40 years experience to bring a new generation of improved barrier systems to the highway with safety at the forefront.

Corus CEP have been manufacturing safety barriers to designs created by the Highways Agency since the 1970s.

With the introduction of the European Standard EN 1317, Corus launched Vetex, a pioneering steel barrier system, precision-engineered to set best practice in the highways industry.

Corus designs and manufactures EN 1317 - compliant steel safety barrier systems for

verge and central reservation applications on motorways, trunk and non-trunk roads. Off-road barrier is also available for car parks, building and machinery protection.

### Improved Safety

The 2004 announcement by the Highways Agency, stating all safety barrier systems in the UK must comply with the European Standard EN 1317 by April 2005 gave Corus the scope to innovate the design and improve safety on the UK's highways.

Corus CEP grasped the opportunity and invested heavily in the design of Vetex using the latest technology 3D dynamic Finite Element Analysis (FEA). This enabled the business to simulate the behaviour of vehicles and barrier prior to physical testing.

In the face of faster and heavier traffic on Britain's motorways, safety barrier systems had to evolve and Corus CEP are leading the way.

# Products



**Combining safety, performance and installation efficiency, Corus provides a range of products for all Safety Barrier needs.**

## Vetex Normal Containment (N2)

Vetex Normal Containment (N2) is suitable for all high-speed road applications, where normal containment is required. It is designed to contain average-sized vehicles with a mass of 1,500kg. This type of barrier is used on motorways, trunk and non-trunk roads, in verges and central reservations.

The N2 system combines safety performance with installation convenience. Vetex N2 is an innovative, cost effective solution for safety barrier applications and has been designed to fully integrate with traditional barriers.

## Vetex Higher Containment (H2)

Vetex H2 represents an evolution in high containment barrier technology, designed to contain very large vehicles, such as coaches and lorries. These systems are used on motorways, in high-risk areas, such as bridges, gantries, concrete abutments, and off-road to protect machinery or buildings. Corus high containment barrier can contain vehicles of up to 13,000kg. It has been designed with collapsible elements to absorb impact energy assisting safety performance.

## Vetex End Terminals

Vetex End Terminals combine safety performance with installation ease. They have been engineered to offer a safer alternative to traditional terminals.

The Vetex P1 Terminal allows a vehicle to mount the terminal smoothly, without snagging, and redirects it onto the ground, giving an improved level of safety for vehicle occupants.

Vetex P1 end terminal effectively anchors and terminates barrier runs, and because it is straight-ended, can be installed where space is limited. Fully compatible with existing UK barrier runs, Vetex P1 is ideal for maintenance, repair and new build projects. Application <50mph.

The P4 full height terminal offers a robust and competitive end terminal solution for areas where there is an increased risk of vehicle impact. Application >50mph.



Vetex P1 terminal



ABC P4 terminal



Extension P4 terminal



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| <p><b>Vetex N2</b></p> <ul style="list-style-type: none"> <li>• Untensioned barrier system, suitable for high speed applications</li> <li>• Fast and easy to install</li> <li>• Fully compatible with traditional barrier</li> <li>• Low maintenance</li> <li>• Suitable for all ground types</li> </ul> |
| <p><b>Vetex H2</b></p> <ul style="list-style-type: none"> <li>• Untensioned for quick, easy installation and low maintenance</li> <li>• Same working width as DROBB, with a higher performance class</li> </ul>  |