



## Crashguard®

Crash Cushions & Terminals for 80 and 110 km/hr-R performance classes.



## Crashguard®

In the interests of safety it is sometimes necessary to install crash cushions at particular places along a roadside in order to protect (or be protected from) specific obstacles. These crash cushions are designed to limit the impact of a vehicle crashing into a fixed obstacle, e.g. a viaduct pillar. For this purpose Saferoad Holland has developed the Crashguard®.

Crashguard® has successfully been tested in accordance with EN 1317-3 and therefore fulfils the requirements of the highest performance class of 110 km/hr-R for redirective crash cushions.

For lower speed performance classes, Saferoad developed a shorter version which fulfils the requirements of 80 km/hr-R and less.

### System Overview

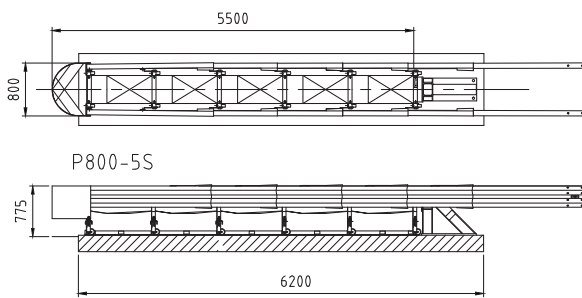
Type	P800		P1100		P1850		P2700	
	5S	6S	5S	6S	5S	6S	5S	6S
Max impact speed (km/h)	80	110	80	110	80	110	80	110
Redirection zone	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1
Displacement class	D1	D1	D1	D1	D1	D1	D1	D1
ASI	A	B	A	B	A	B	A	B
System width (m)	0.80	0.80	1.10	1.10	1.70	1.85	2.40	2.70
System length (m)	5.50	6.50	5.50	6.50	5.50	6.50	5.50	6.50
System shape	Parallel	Parallel	Parallel	Parallel	V-shape	V-shape	V-shape	V-shape
Tested system foundation / installation	Concrete Steel	Concrete Steel	Concrete Steel	Concrete Steel	Concrete Steel	Concrete Steel	Concrete Steel	Concrete Steel

## Crashguard P800-5S

D1 · Z1 · A

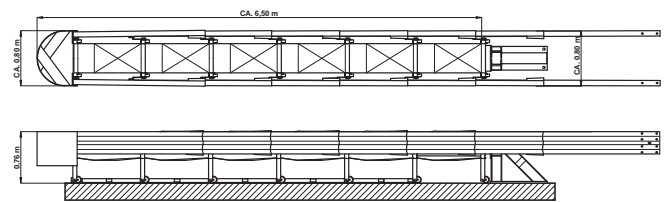


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## Crashguard P800-6S

D1 · Z1 · B

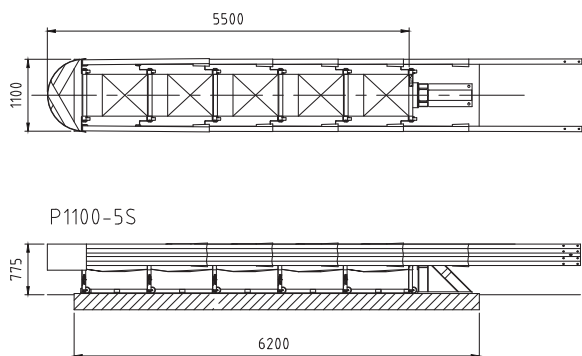


## Crashguard P1100-5S

D1 · Z1 · A

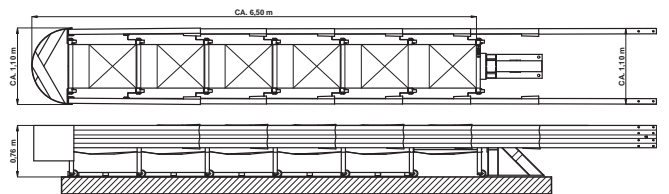


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## Crashguard P1100-6S

D1 · Z1 · B

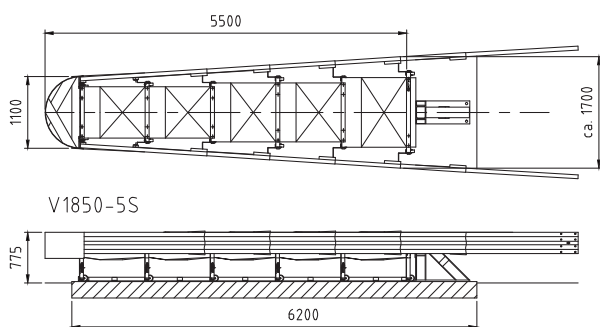


## Crashguard V1850-5S

D1 · Z1 · A

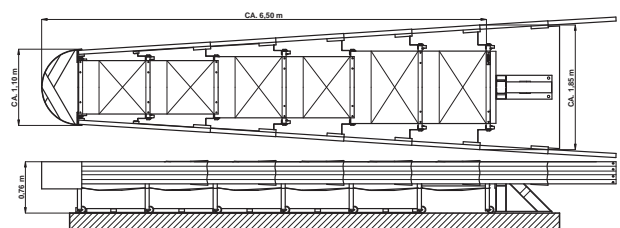


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## Crashguard V1850-6S

D1 · Z1 · B

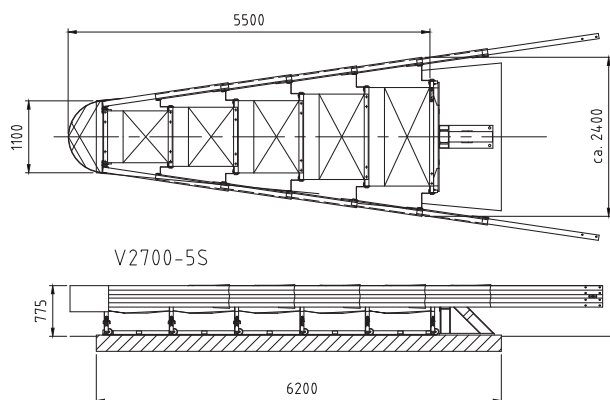


## Crashguard V2700-5S

D1 · Z1 · A

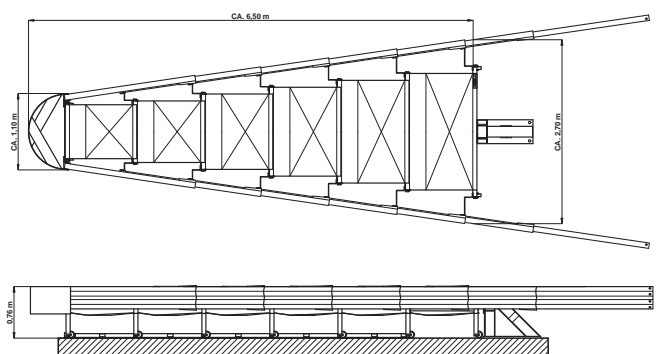


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## Crashguard V2700-6S

D1 · Z1 · B



# Crashguard®

## Crash Cushions & Terminals

The Crashguard® could be described as a “crash cushion” which is constructed out of five or six interconnected compartments with a guard-rail running along each side. The number of collapsible impact tubes in each compartment increases from the front to the back so that the energy of the impact is quickly and completely absorbed. Because of the ground rail running along the full length of the crash guard, the crash impact absorption is controlled. In a side-impact situation the Crashguard® works as a normal guard-rail whereby the vehicle is guided safely along. The system type chosen depends on the actual road situation and the level of safety required. The standard type of Crashguard® is available from stock.

The Crashguard® is normally used for permanent installations, but can also be applied in temporary situations such as road work activities, thereby contributing to increased road safety.

### Here is a list of the advantages of using Crashguard®

- lower possibility of passenger injuries;
- proven solution for many situations;
- gradual and controlled impact energy dissipation due to the collapsible impact tubes and ground rail;
- safe and unobtrusive;
- simple to install, repair and replace.



