

## Impact Suitability Matrix

Workplace safety regulators, such as WorkSafe VIC, recommend keeping vehicle speeds between 5–7 km/h in areas where vehicles and pedestrians share space. The matrix below shows how different vehicle weights, speeds, and approach angles translate into impact forces, and demonstrates how these compare with the rated performance of each FlexGuard™ product.

### FlexGuard™ Triple Railing

Rated Impact Energy (J)	10 200		
Impact Angle (°)	90	45	22.5
Speed (km/h)			
5	10.6 t	21.2 t	72.2 t
6	7.3 t	14.7 t	50.1 t
7	5.4 t	10.8 t	36.8 t
8	4.1 t	8.3 t	28.2 t
9	3.3 t	6.5 t	22.3 t
10	2.6 t	5.3 t	18.1 t

### FlexGuard™ Floor Guard

Rated Impact Energy (J)	5 800		
Impact Angle (°)	90	45	22.5
Speed (km/h)			
5	6.0 t	12.0 t	41.1 t
6	4.2 t	8.4 t	28.5 t
7	3.1 t	6.1 t	21.0 t
8	2.3 t	4.7 t	16.0 t
9	1.9 t	3.7 t	12.7 t
10	1.5 t	3.0 t	10.3 t

## FlexGuard™ Bollard 168mm

Rated Impact Energy (J)		3 600
Impact Angle (°)		90
Speed (km/h)		
5		3.7 t
6		2.6 t
7		1.9 t
8		1.5 t
9		1.2 t
10		0.9 t

## FlexGuard™ Bollard 190mm

Rated Impact Energy (J)		6 900
Impact Angle (°)		90
Speed (km/h)		
5		7.2 t
6		5.0 t
7		3.6 t
8		2.8 t
9		2.2 t
10		1.8 t

**Do you have a speed/angle that isn't outlined here?**

For additional support, please contact your Barrier Group Account Manager.