The ProTec Family – an overview.

Mobile crash barriers and special elements at a glance.







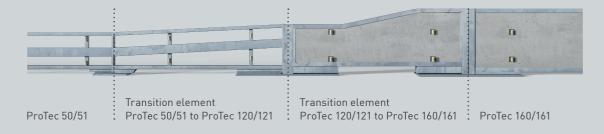


Advantages of the ProTec family at a glance:

- test conditions as per DIN EN 1317-2
- smallest effective range class
- narrow structural width needs minimum space requirements
- quick and easy installation
- reflectors mounted in protected recess
- generous water drainage opening under the crash barrier
- no risk of aquaplaning or of dirt accumulating in front of the crash barrier
- systems with successfully tested tipping length limitation (KLB element)
- rubber-based stands protect the road surface
- low element weight for high transport loading
- wide range of connection and special elements
- repair elements for swift reconstruction after an accident
- force-fit connections available for all ProTec barriers

The ProTec family consists of several successfully tested mobile crash barriers - for all application areas of mobile road restraint systems pursuant to the ZTV-SA. Despite differing shapes and structures, all mobile crash barriers in the ProTec family can be combined with each other and fitted together with force-fit connections. Mobile crash barriers in the ProTec family can also be combined with stationary restraint systems or mobile systems by other manufacturers with a force-fit connection.

Combination example for a force-fit connection across the whole ProTec family.





The ProTec family at a glance:



ProTec 50						
Containment level	T1					
Effective range	W2					
ASI value	Α					
Structural width	0.24 m					
Height	0.50 m					
Element length	6 m					
Min. installation length	149 m					
Ground anchoring	no					
Weight per m	28.7 kg					





Min. installation length

Ground anchoring

Weight per m



ProTec 100



ProTec 120

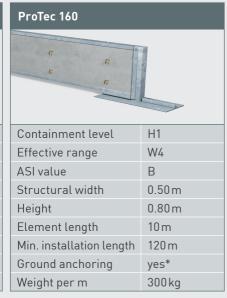


156 m

80 kg

no/no/yes*

Containment level	T1/T3/H1
Effective range	W1/W1/W5
ASI value	A/A/B
Structural width	0.24 m
Height	0.63 m
Element length	10 m
Min. installation length	156 m
Ground anchoring	no/no/yes*
Weight per m	170 kg

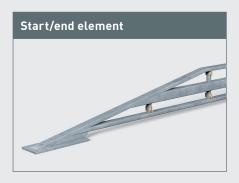


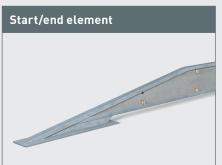


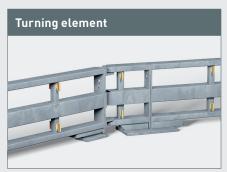
^{*} only start fasten to the ground ** only start/end fasten to the ground

Effective range Containment level	W1	W2	W3	W4	W5	W6
T1	ProTec 100 ASIA ProTec 120 ProTec 121 ProTec 80 ASIA ProTec 161 ASIA	ProTec 50 ASIA ProTec 50 City ProTec 51 ASIA				
Т3	ProTec 161 ASIA ProTec 161 ASIA	ProTec 120 ASIA ProTec 80 ASIA	ProTec 51 AS A			
N2			ProTec 161 As I B			
H1				ProTec 160 ASI B	ProTec 120 ASI B	ProTec 100 ASIA
L1			ProTec 161 45/B			

Special elements available for all crash barriers:











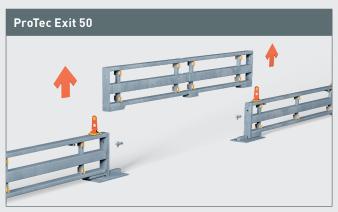




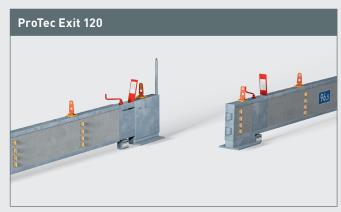




Fast access for emergency services:



We have developed ProTec Exit 50 and ProTec Exit 120 as easily separated elements for mobile crash barriers that can be opened quickly in an emergency without needing tools. Just a couple of simple actions are all it takes to release the force-fit connection of the crash barriers and open the ProTec Exit 50 or ProTec Exit 120 elements.



The resulting emergency opening then gives the fire brigade, emergency services and police easy access through the otherwise closed, mobile crash barrier. In special cases it is also possible for traffic to be diverted away through the emergency opening. ProTec Tor 120 has fulfilled the requirements of containment level T3 according to DIN EN 1317!

Safety by Berghaus





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The ProTec set in scene: as 360° view and as video







Subject to technical changes and errors. Products may differ from illustrations shown. All details are approximate.