

The ProTec Family – an overview.

Mobile crash barriers and special elements at a glance.



Safety by Berghaus



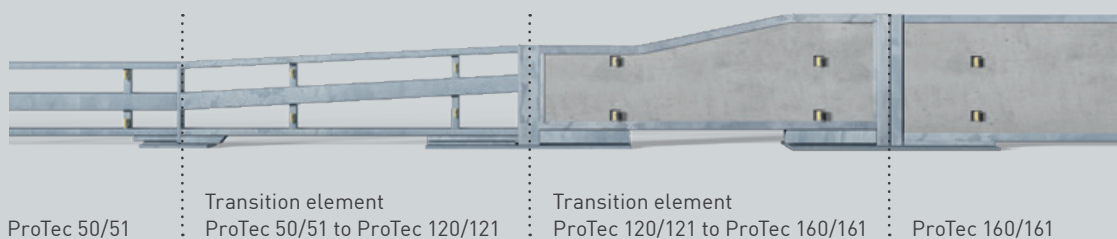


Advantages of the ProTec family at a glance:


- 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 volume
- 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 City	
	
Containment level	T1
Effective range	W2
ASI value	A
Structural width	0.24 m
Height	0.50 m
Element length	2 m
Min. installation length	135 m
Ground anchoring	no
Weight per m	23.5 kg

ProTec 50	
	
Containment level	T1
Effective range	W2
ASI value	A
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

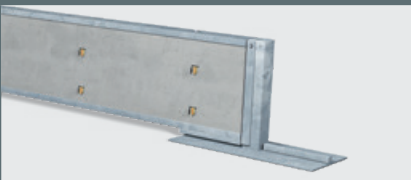
ProTec 51	
	
Containment level	T1/T3
Effective range	W2/W3
ASI value	A/A
Structural width	0.24 m
Height	0.50 m
Element length	6 m
Min. installation length	136 m
Ground anchoring	yes**
Weight per m	28.7 kg

ProTec 80	
	
Containment level	T1/T3/H1
Effective range	W1/W2/W6
ASI value	A/A/A
Structural width	0.24 m
Height	0.50 m
Element length	6 m
Min. installation length	156 m
Ground anchoring	no/no/yes*
Weight per m	80 kg

ProTec 100	
	
Containment level	T1/T3/H1
Effective range	W1/W2/W6
ASI value	A/A/A
Structural width	0.25 m
Height	0.56 m
Element length	6 m
Min. installation length	137 m/118 m
Ground anchoring	no/no/yes**
Weight per m	124 kg












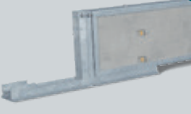
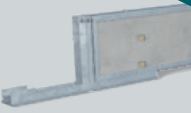
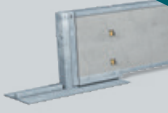




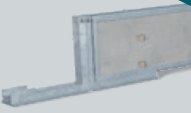
ProTec 120	
	
Containment level	T1/T3/H1
Effective range	W1/W2/W5
ASI value	A/A/A
Structural width	0.30 m
Height	0.60 m
Element length	10 m
Min. installation length	120 m/150 m
Ground anchoring	no/yes*
Weight per m	163 kg

ProTec 121	
	
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

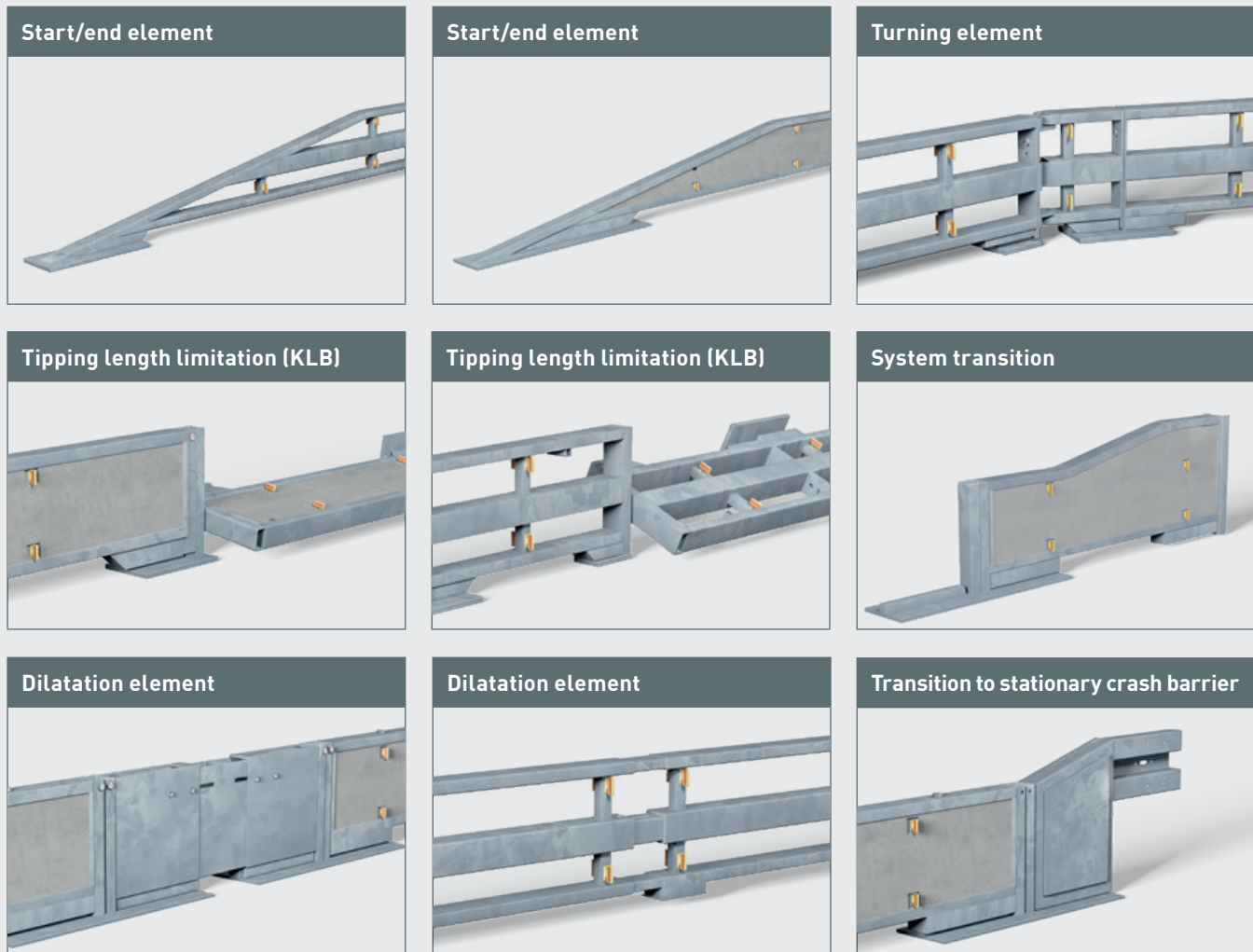
ProTec 160	
	
Containment level	H1
Effective range	W4
ASI value	B
Structural width	0.50 m
Height	0.80 m
Element length	10 m
Min. installation length	120 m
Ground anchoring	yes*
Weight per m	300 kg

ProTec 161	
	
Containment level	N2/H1/L1
Effective range	W3/W3/W3
ASI value	B/B/B
Structural width	0.25 m
Height	0.80 m
Element length	10 m
Min. installation length	126 m
Ground anchoring	yes*
Weight per m	315 kg

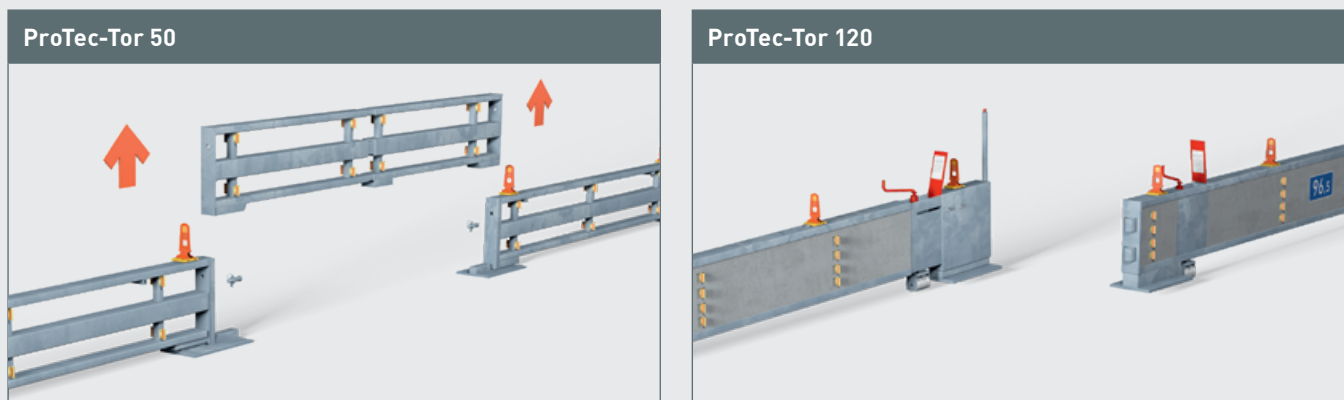
* only start fasten to the ground ** only start/end fasten to the ground

Effective range	W1	W2	W3	W4	W5	W6
T1	ProTec 100 <i>AS/A</i> 	ProTec 50 <i>AS/A</i> 				
	ProTec 120 <i>AS/A</i> ProTec 121 <i>AS/A</i> 	ProTec 50 City <i>AS/A</i> 				
	ProTec 80 <i>AS/A</i> 	ProTec 51 <i>AS/A</i> 				
T3	ProTec 121 <i>AS/A</i> 	ProTec 100 <i>AS/A</i> 	ProTec 51 <i>AS/A</i> 			
		ProTec 120 <i>AS/A</i> 				
		ProTec 80 <i>AS/A</i> 				
N2			ProTec 161 <i>AS/B</i> 			
H1			ProTec 161 <i>AS/B</i> 	ProTec 160 <i>AS/B</i> 	ProTec 120 <i>AS/B</i> 	ProTec 80 <i>AS/A</i> 
					ProTec 121 <i>AS/B</i> 	ProTec 100 <i>AS/A</i> 
L1			ProTec 161 <i>AS/B</i> 			

Special elements available for all crash barriers:



Fast access for emergency services:



We have developed ProTec-Tor 50 and ProTec-Tor 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-Tor 50 or ProTec-Tor 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.



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