

It's basic



HBB

Containment Levels N2 and H1 according to EN 1317-2



CE



- ▶ The human being stands in the centre of traffic and environmental policy and in the focus of all our actions
- ▶ The road network has become an indispensable part of our living standard
- ▶ Road safety equipment has an important influence on the consequences of accidents
- ▶ The development of road safety systems helps to continuously reduce the number of road casualties
- ▶ Our road restraint systems that have proven their quality in various tests and in many years of practice make an important contribution to this
- ▶ EN ISO 9001 certification is the basis for the quality of our production



HBB

HBB is a product line of various guardrail systems including transitions and end terminal with containment levels ranging from N2 to H2. The systems are all tested in accordance with EN 1317-2 and CE marked.

The use of a few basic elements makes this product line very unique and flexible in handling. Further on it guarantees fast and simple installation, efficient storage and logistics



HBB Installation examples



HBB 4.0

Containment level N2
working width W5



HBB 2.0

Containment level N2
working width W4



HBB 2.0b

For slopes
containment level N2
working width W3



HBB 1.33

Containment level N2 / H1, L1
working width W2 / W4

HBB Installation examples

HBB for bridge

Containment level H1
working width W2



HBB End Terminal

Performance class P2A



HBB Transition to SUPER-RAIL Eco

Transitions between the different HBB systems can be built easily without the necessity of any special part. An End Terminal P2A and transitions to other H1 and H2 barriers complete the HBB® product family.

The transitions enable a tested connection to barriers of higher containment levels. With these new products all guardrail scenarios on roads and bridges at N2 and H1 level can be covered.



HBB System overview

Description	Containment level	Working width normalized	ASI	Dyn. deflection normalized	Weight / m Profile A
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Systems for roadsides and median					
HBB 1.33	N2	W2	A (0,8)	0,7 m	22,9 kg
HBB 1.33 Plus	N2	W2	A (1,0)	0,9 m	26,7 kg
HBB 2.0	N2	W4	A (0,8)	1,2 m	19,3 kg
HBB 2.0b	N2	W3	A (0,8)	0,9 m	19,9 kg
HBB 2.0 Plus	N2	W3	A (1,0)	0,9 m	20,5 kg
HBB 4.0	N2	W5	A (0,6)	1,4 m	15,6 kg
HBB 4.0 Plus	N2	W4	A (1,0)	1,2 m	15,2 kg
HLK-Rail 1.33	N2	W2	A (1,0)	0,7 m	19,6 kg
HLK-Rail 1.33 Plus	N2	W2	A (1,0)	0,7 m	23,0 kg
HLK-Rail 2.0 Profil A	N2	W4	A (1,0)	1,2 m	16,4 kg
HLK-Rail 2.0 Profil B	N2	W4	A (1,0)	1,1 m	15,7 kg
HLK-Rail 2.0 b	N2	W3	A (1,0)	0,9 m	17,6 kg
HLK-Rail 2.0 Plus	N2	W3	A (1,0)	0,9 m	18,7 kg
HLK-Rail 4.0	N2	W5	A (1,0)	1,4 m	13,3 kg
HLK-Rail 4.0 Plus	N2	W4	A (1,0)	1,2 m	14,5 kg
HBB 1.33	H1	W4	A (0,8)	1,2 m	22,9 kg
HBB 1.33 Plus	H1	W3	A (1,0)	0,9 m	26,7 kg
HBB 2.0 Plus	H1	W4	A (1,0)	1,1 m	20,5 kg
HLK-Rail 1.33	H1	W4	A (1,0)	1,2 m	19,6 kg
HLK-Rail 1.33 Plus	H1	W3	A (1,0)	0,9 m	23,0 kg
HLK-Rail 2.0 Plus	H1	W4	A (1,0)	1,1 m	18,7 kg

Systems for bridges					
HBB 1.33 BW	H1	W2	A (0,9)	0,7 m	23,1 kg
HLK-Rail 1.33 BW	H1	W2	A (1,0)	0,7 m	19,6 kg

Transitions Containment level H1					
Transition HBB-EDSP	H1	W4	A (0,9)	1,1 m	28,4 kg
Transition HBB-SR Eco	H1	W4	B (1,2)	1,0 m	39,4 kg

Start / End terminal					
	Performance class			Weight / m Profile A	Test length
Start / End terminal for HBB	P2A	X1/y1	Z1	111,55 kg	16 m

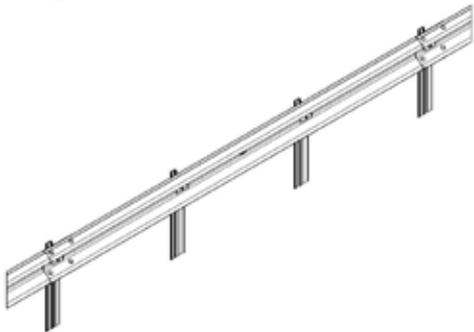
HBB Constructions



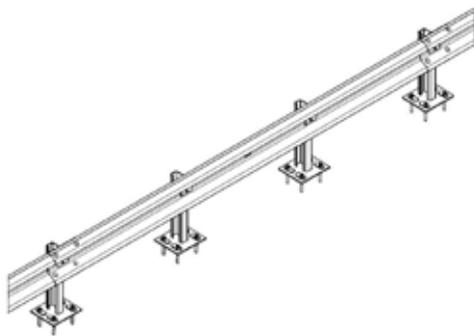
HBB 4.0



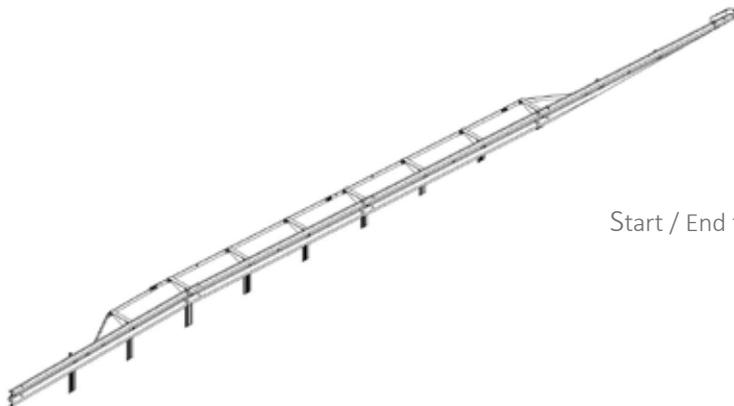
HBB 2.0



HBB 1.33



HBB for bridge



Start / End terminal



Meiser Road Safety GmbH
Edmund Meiser Straße 3
D-66839 Schmelz-Limbach



+49 6887 / 9590 100



+49 6887 / 9590 188



roadsafety@meiser.de



roadsafety.meiser.de/en/

