

PHONOBLOC® DB 100 NBF 200-450 GENERATION 2

Technical Product Data Sheet

					L1	L2	L3	L4a	L4b
T1	T2	T3	N1	N2	H1	H2	H3	H4a	H4b

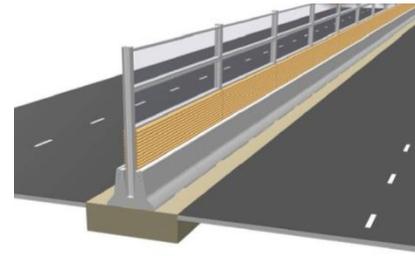
The integrated noise barrier foundation DB 100 NBF sets new standards in the field of modularity, noise protection and road safety.

The system was tested in the performance class H2 according to EN 1317. The construction of the free-standing noise protection wall is executed by using standard steel posts. Transparent panels, aluminium or concrete panels, as well as others noise protection elements can be combined.

Main features:

- ▶ high containment level H2
- ▶ narrow working width W4
- ▶ wall height: 2.0m to 4.5m
- ▶ variable noise-barrier elements from 2.0m height
- ▶ narrow construction width 1.05m
- ▶ 2-sided system (central reserve - and verge application)
- ▶ narrow planning width:

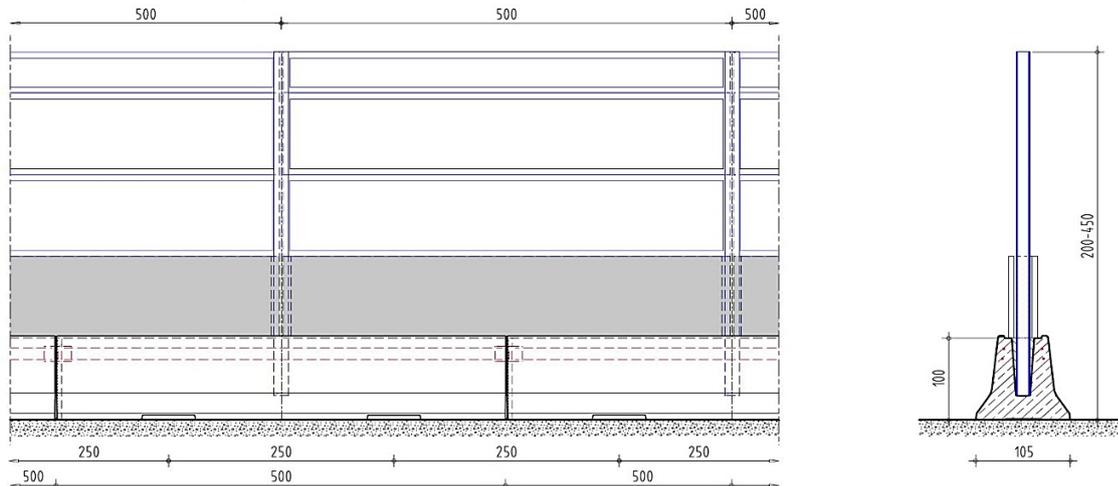
central reserve application	1.55m
verge strip application	1.30m



Technical specifications	
Concrete qualities	resistant to frost and de-icing salts (depending on specific national regulations)
Noise protection qualities	sound insulation: according to the client's requirements (up to B4) sound absorption: according to the client's requirements (up to A5)
Coupling, Tension bar	patented coupling system, hot-dip galvanized; patented steel tension bar
Accessories	optional: tested reflectors, sign posts, light pole connections, cover, safety cable,...
Curve radii	≥ 123m (for smaller radii special solutions are possible)
Sag - and Crest radii	sag radii: ≥960m crest radii: ≥ 570m (for smaller radii special solutions are possible)
Carriageway crossfall	max. 7%, at vertical alignment of the noise barrier panels
Supplement products	transition elements, lowering elements
Miscellaneous	As sound absorbing material, various materials are possible depending on the requirement (for example PHONOBLOC® wood-concrete, aluminium, transparent elements, other panel systems).

PHONOBLOC® DB 100 NBF 200-450 GENERATION 2

Technical Specifications



Test results according to EN 1317-2

Type	DB 100 NBF 450 / 5m T180	
Containment level	H2	
Working width	W4	
Vehicle Intrusion	VI1	
ASI	ASI B	
Element length	5m	
Element width	1,05m	
System height	Minimum height 2,0m to max. 4,50m	
Working width	1,3m	
Planning width	Central reserve application: 155cm	Verge strip application: 130cm
Vehicle intrusion	0,6m	
Dynamic deflection	0,3m	
Tested system length	65m (without terminal elements)	
Tension bar	T180	
Terminal anchoring	No	
Ground materials	Unbound base course of sandy gravel, asphalt or concrete	
Ground conditions	According to structural calculation	
Wind load capacity	According to structural calculation	
Anchoring in underground	No, free standing	
CE certification	Yes	

Base element	Tension bar	Weight	l / w / h
DB 100 NBF / 5m T180	T180	8.415kg	500 / 105 / 100cm
Noise barrier panels	--	Depending on the system	Depending on the system

PHONOBLOC® DB 150 NBF 250-600 GENERATION 2

Technical Product Data Sheet

					L1	L2	L3	L4a	L4b
T1	T2	T3	N1	N2	H1	H2	H3	H4a	H4b

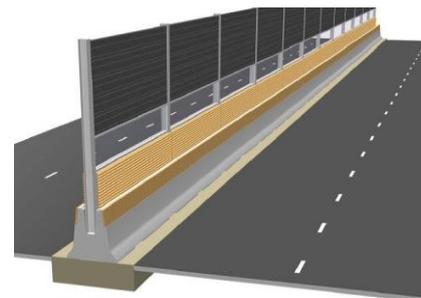
The integrated noise barrier foundation DB 150 NBF sets new standards in the field of modularity, noise protection and road safety.

The system was tested in the performance class H4b according to EN 1317. The construction of the free-standing noise protection wall is executed by using standard steel posts. Transparent panels, aluminium or concrete panels, as well as others noise protection elements can be combined.

Main features:

- ▶ highest containment level H4b
- ▶ narrow working width W5
- ▶ wall height: 2.5m to 6.0m
- ▶ base element fitted with noise absorber panels from 1m
- ▶ variable noise-barrier elements from 2.5m height
- ▶ narrow construction width 1.25m
- ▶ 2-sided system (central reserve - and verge application)
- ▶ narrow planning width:

central reserve application	1.85m
verge strip application	1.55m

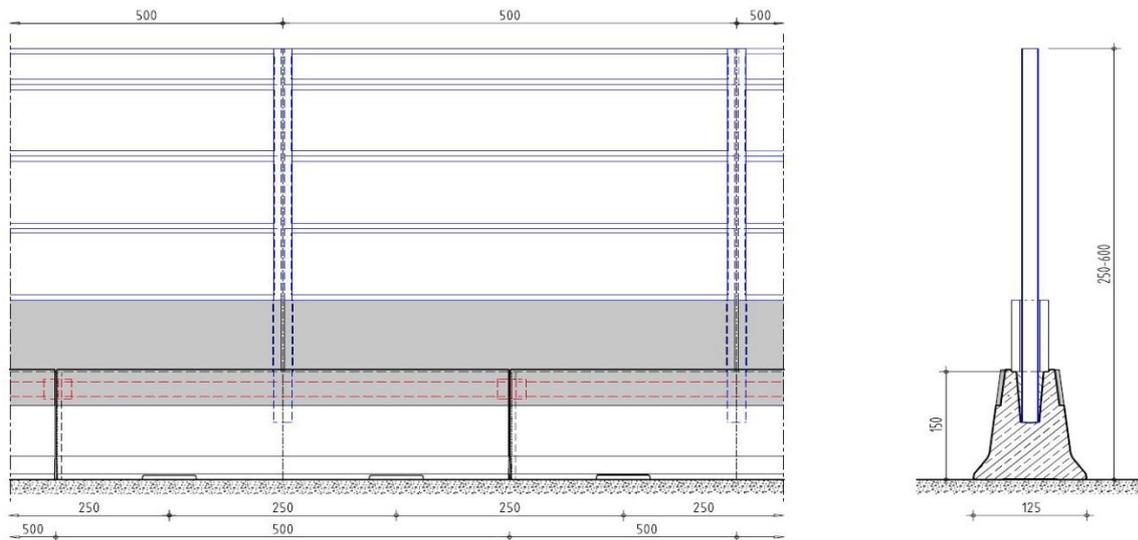


Technical specifications

Concrete qualities	resistant to frost and de-icing salts (depending on specific national regulations)
Noise protection qualities	sound insulation: according to the client's requirements (up to B4) sound absorption: according to the client's requirements (up to A5)
Coupling, Tension bar	patented coupling system, hot-dip galvanized, patented steel tension bar
Accessories	optional: tested reflectors, sign posts, light pole connections, cover, safety cable,...
Curve radii	≥ 143m (for smaller radii special solutions are possible)
Sag - and Crest radii	sag radii: ≥ 1305m crest radii: ≥ 716m (for smaller radii special solutions are possible)
Carriageway crossfall	max. 7%, at vertical alignment of the noise barrier panels
Supplement products	transition elements, lowering elements
Miscellaneous	As sound absorbing material, various materials are possible depending on the requirement (for example PHONOBLOC® wood-concrete, aluminium, transparent elements, other panel systems).

PHONOBLOC® DB 150 NBF 250-600 GENERATION 2

Technical Specifications



Test results according to EN 1317-2

Type	DB 150 NBF 600 / 5m T280		
Containment level	H4b		
Working width	W5		
Vehicle Intrusion	VI3		
ASI	ASI B		
Element length	5m		
Element width	1.25m		
System height	Minimum height 2.5m to max. 6.0m		
Working width	1,6m		
Planning width	Central reserve application: 185cm	Verge strip application: 155cm	
Vehicle intrusion	0.4m		
Dynamic deflection	0.3m		
Tested system length	80m (without terminal elements)		
Tension bar	T280		
Terminal anchoring	Yes		
Ground materials	Unbound base course of sandy gravel, asphalt or concrete		
Ground conditions	According to structural calculation		
Wind load capacity	According to structural calculation		
Anchoring in underground	No, free standing		
CE certification	Yes		
Basic element	Tension bar	Weight	l / w / h
DB 150 NBF / 5m T280	T280	12500kg	500 / 125 / 150cm
Noise barrier panels	--	Depending on the system	Depending on the system