



Ready for all panel types

# DB NBF SERIES INTEGRATED NOISE BARRIER SYSTEM





# DB NBF SERIES READY FOR ALL PANEL TYPES

It can take all the wind loads in accordance with Eurocode standard — no foundation required.

A noise barrier system must meet all requirements of a structural construction. The DB NBF series can be used surface mounted, pile driven, pinned or anchored without a foundation on a temporary or permanent basis. It is crash tested and certified as an EN 1317 restraint system and engineered in accordance with Eurocode for full technical acceptance as a static structure. Additionally the DB NBF series fulfills all acoustic requirements in accordance with EN 14388.

Structurally engineered to withstand impacts, traffic vibration, wind & snow loads



### INDIVIDUAL DESIGN

# WITH CONCRETE, WOOD, METAL, PLASTIC OR TRANSPARENT PANELS

The DB NBF concept allows the integration of all typical panel types, independent of material or design.

The DB NBF base unit acts as a heavyweight foundation for the whole system. Standard steel columns are inserted on site. In the longitudinal direction, the system runs parallel to the gradient of the roadway up to a maximum longitudinal gradient of 6%.

Setting up the DB NBF Series in three easy steps:

- ▶ Placing the base unit
- Inserting the steel column
- Inserting the individual panels



#### **PHONOBLOC®**

### FULLY CE-CERTIFIED AND TESTED

- ► In accordance with EN 1317-5
- ► Containment levels H2 and H4b
- ► Up to 20 dB reduction according to EN 1793-1
- ► Statics according to EUROCODE

#### **FULLY MODULAR**

- ► All types combinable
- ► Connectable to H2 DB 80 Series
- Connectable to H4b DB 120 Series
- ► Connectable to STEELBLOC®

#### **APPLICATIONS**

- ► Double sided
- ► Central reserve or verge
- ► Temporary or permanent

#### **DESIGN**

- ► Noise protection panel freely configurable (concrete, translucent, aluminium, timber)
- ► Individual colour selection
- Steel supports concreted in or screwed (TA) possible



SURFACE MOUNTED



PILE DRIVEN ON SUBSOIL



PINNED ON ASPHALT



ANCHORED ON CONCRETE

#### **PROPERTIES**

Surface mounted H2 | W4 | B H4b | W5 | B

Pile driven on subsoil H2 | W3 | B

Pinned on asphalt H2 | W3 | B H4b | W4 | B

Anchored on concrete H2 | W3 | B

DB 80 NBF (Base unit) Width / Height / Length 0.83 / 0.80 / 5.0 m

DB 100 NBF (Base unit) Width/Height/Length 1.05/1.0/5.0 m

DB 150 NBF (Base unit) Width / Height / Length 1.25 / 1.5 / 5.0 m

NBF Wall Height in 0.5 m steps

#### VARIABLE PANELS FROM TOTAL HEIGHT DB 80 NBF 2.0M DB 100 NBF 2.0M DB 150 NBF 2.5M

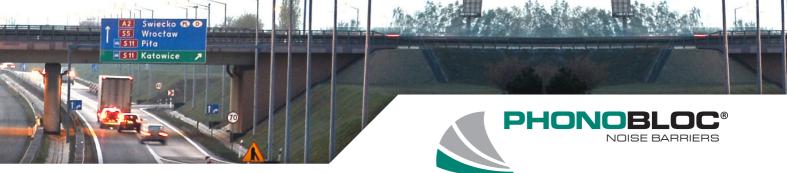
AHB (Aluminium lightweight Panels)
BHB (Wood-Concrete Panels)
Metallic Panels
Transparent Panels
Timber Panels
Dust Protection Panels
Wind Protection Panels
Other Panels

## APPLICATION FOR TEMPORARY AND/OR PERMANENT USE

Most flexible & economic dual-use: for temporary construction site protection and / or for permanent road safety and noise protection

#### **DB NBF SERIES PRODUCT RANGE**

Туре	Performance	Installation Method
DB 80F NBF	H2   W3   B	pile driven on subsoil
DB 80P NBF	H2   W3   B	pinned on asphalt
DB 80A NBF	H2   W3   B	anchored on concrete
DB 100 NBF	H2   W4   B	surface mounted
DB 100P NBF	H4b   W4   B	pinned on asphalt
DB 150 NBF	H4b   W5   B	surface mounted



### **DB NBF SERIES**

# BEING AS CLOSE AS POSSIBLE TO THE SOURCE OF NOISE

The DB NBF Series is part of DELTABLOC®'s holistic passive traffic safety concept. Designed and tested to act as both a vehicle restraint system and a noise barrier it can be placed much closer to live traffic than ordinary noise barriers. Through SafeLink® Transitions it can be connected seamlessly to the DB 80 Series, the DB 100 Series, the DB 120 Series, STEELBLOC® and many other third-party systems.



The DB NBF Series protects double sided against noise and errant vehicles

#### **VARIABLE HEIGHT**

Maximum system height depends on local wind loads – height is statically verified

#### H2 & H4B/UP TO 20DB

Highest containment level, highest noise protection

#### **SPECIAL SOLUTIONS**

Transitions to other safety barrier types, terminals, emergency doors, etc.

#### **FULL STATIC CALCULATION**

The DB NBF Series always comes with a full static calculation according to EUROCODE

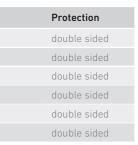
### loves simplicity

The mounting surface needs to be stable and supporting, and this comes automatically with any standard road construction.

**DB NBF SERIES** 

No need for foundations, deep piling or concrete works. No need for digging, excavating, mixing or drying. No need for heavy construction equipment. Just place the DB NBF base element on a stable ground, insert the steel columns and fit in the acoustic panels.

Short construction times are guaranteed.





# THE DB NBF SERIES ABSORBS NOISE AND IMPACTS

The integrated noise barrier fulfills containment levels H2 & H4b.







#### **DELTABLOC INTERNATIONAL GMBH**

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