Surface mounted & crash tested

DB NBF SERIES
NOISE BARRIER SYSTEM
Developed to reduce noise and hold back errant vehicles, surface mounted, for H2 and H4b containment.
The DB NBF Series comes surface mounted up to a height of 6.0 m. It can take all the wind loads according to EUROCODE standard – without any anchoring or fixation to the ground.

A noise barrier wall must meet all requirements of a structural construction. The DB NBF Series is a surface mounted modular system. It is crash tested and certified as an EN 1317 restraint system and engineered according to EUROCODE for full technical acceptance as a static structure. Additionally the DB NBF series fulfills all sonic requirements of EN 14388.

Structurally engineered to withstand impacts, traffic vibration, wind and snow loads.

Individual Design

With concrete, wood, metal 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 the foundation for the whole system. Standard steel columns are inserted on site, fully adjustable for perfect vertical alignment independent of road inclination. Finally any type of panel can be inserted up to the intended height.

Setting up the DB NBF Series in three easy steps:

1. Placing the base unit
2. Inserting the steel column
3. Inserting the individual panels
**PHONOBLOC®**

**FULLY CERTIFIED AND TESTED**
- EN 1317-5 CE-certified
- 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
- Median or roadside
- Temporary or permanent

**DESIGN**
- Noise protection panel freely configurable (concrete, translucent, aluminium, timber, ...)
- Individual color selection

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**Performs at H2 and H4b**

**Performance Classes**
- Surface mounted
  - H2 W4 B
  - H4b W5 B

**Base unit**
- DB 100 NBF
  - Width / Height / Length
    - 1.05 / 1.0 / 5.0 m
- DB 150 NBF
  - Width / Height / Length
    - 1.25 / 1.5 / 5.0 m

**NBF WALL**
- Height in 0.5 m steps
  - Up to 6.0 m

**VARIABLE PANELS ABOVE TOTAL HEIGHT**
- DB 100 NBF 2.0 m
- DB 150 NBF 2.5 m
  - AHB (Aluminium lightweight Panels)
  - HB (Wood-Concrete Panels)
  - Metallic Panels
  - Transparent Panels
  - Timber Panels
  - Dust Protection Sheets
  - Wind Protection Panels
  - Other Panels

**APPLICATION FOR TEMPORARY AND / OR PERMANENT USE**
- Most flexible & economic dual-use:
  - 1st for construction site protection,
  - 2nd for permanent road safety and noise protection.

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**DB NBF SERIES PRODUCT RANGE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB 100 NBF 200-450</td>
<td>H2 W4 B</td>
</tr>
<tr>
<td>DB 150 NBF 250-600</td>
<td>H4b W5 B</td>
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</table>
Acoustically Efficient
BEING AS CLOSE AS POSSIBLE TO THE SOURCE OF NOISE

The safety barrier is the closest element to noisy vehicles. The DB NBF is crash tested and certified to be right there.

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 walls. Through SafeLink® Transitions it can be connected seamlessly to the DB 80 Series, the DB 120 Series, STEELBLOC® and many other third-party systems.

FOR ROADSIDE AND MEDIAN
The DB NBF Series protects double sided against noise and errant vehicles

VARIABLE HEIGHT
The DB NBF Series can be set up to a height of 6.0m surface mounted

H2 & H4b / up to 20dB
Highest containment level, highest noise protection

SPECIAL SOLUTIONS
Transitions to other safety barrier types, terminals, emergency doors, ...

FULL STATIC CALCULATION
The DB NBF Series always comes with a full static calculation acc. to EUROCODE

DB NBF SERIES LOVES SIMPLICITY ...

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

No need for foundations, deep piling, 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.

... and short construction times are guaranteed.
THE DB NBF SERIES

ABSORBS NOISE AND IMPACTS

The surface mounted H2 and H4b precast system for the median and roadside.

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