

MAINTENANCE MANUAL

REBLOC[®] ROAD RESTRAINT SYSTEMS

for:

REBLOC RB80L_4_N2/W4

REBLOC RB80L_8_H1/W5

REBLOC RB80_8_N2/W3

REBLOC RB80_8_H1/W4

REBLOC RB80H_8_H2/W5

REBLOC RB85BF_8_T3/W1

REBLOC RB85BF_8_H2/W5

REBLOC RB85BFS_8_T3/W2

REBLOC RB100H_2_H3/W6 | RB100H_3_H3/W6 | RB100H_4_H3/W6

REBLOC RB100_2_H2/W5

REBLOC RB100_8_H2/W5

REBLOC RB100_8_H4b/W6

REBLOC RB110L_8_H2/W5

REBLOC RB110_8_H4b/W6



1. General

The REBLOC[®] vehicle restraint system is very maintenance friendly. There are no required loose parts and the connecting coupling is integrated into the elements. Thus, the REBLOC[®] system provides maximum safety against vandalism. Basically the system is maintenance-free and no regular maintenance work is required. Visual inspections on visible damages have to be carried out on a regular basis.

Maintenance work may be necessary after a vehicle impact. Depending on the severity of the impact there are various scenarios:

- 1) If there are only scratches and / or abrasion marks visible but no cracks and no deflection of the system no maintenance / repair work is necessary.
- 2) If there is no damage / crack formation visible and the system has been displaced, it is sufficient to replace the effected barriers in their original location (see installation instructions).
- 3) If there are cracks with a width $> 0,2$ mm or parts of the reinforcement exposed because of concrete spalling the functionality of the barrier is ensured. Nevertheless to durability the affected barriers must be replaced or refurbished.
- 4) When there are severe cracks (> 2 mm) and / or severe concrete spalling and / or damage / deformations are visible to the connection coupling, the barrier system functionality can no longer be guaranteed, the effected safety barriers elements must be replaced immediately.
- 5) In case of the RB80H_8 and RB110L_8_H2/W5 it must be additionally checked after an impact, if damages appear in the area of the tongue and groove. If so, the respective elements need to be replaced.

The remarks above also apply to the terminal elements and their anchorage. It is extremely important in cases of potential damage to the anchoring foundation to inspect the anchoring bolts and the anchoring plate.



system lightly displaced



abrasion marks, system not damaged

2. Durability

Concrete C30/37 is used in the REBLOC[®] vehicle restraint system, the concrete cover is as indicated by EN 13369 / EN 1992-1-1. The concrete exposure class is dictated by the climate and local environmental conditions.

In the temperate zone, where the application of thawing salt occurs in the winter season the concrete class XF4 according to EN 206 is applied.

All exposed steel parts, in particular the connection coupling, are hot-dipped galvanized in accordance with EN ISO 1461. Climate and environmental-related requirements of the construction site are considered as de-icing salt is used in the temperate zone. Here the climate and environment-related requirements of the installation location are taken into account, which in the temperate zone applies to the use of road salt according to the above specifications.

In accordance with the evaluation methods EN ISO 1461 and EN 206-1 REBLOC[®] Concrete Barriers can be considered to have a life cycle of twenty-five years in minimum depending on the weather and environmental conditions.

3. Environmental Recycling

The disposal of a REBLOC[®] Concrete Barriers unit should incorporate all appropriate recycling principles. The steel parts (reinforcement, tension bars and connecting coupling) of the barrier should be mechanically separated from the concrete. Each material type being environmentally recycled through approved recycling companies.

There are no regulated substances within the REBLOC[®] road restraint system.

4. Applicable Documents

Datasheet REBLOC RB80L_4_N2/W4

Datasheet REBLOC RB80L_8_H1/W5

Datasheet REBLOC RB80_8_N2/W3

Datasheet REBLOC RB80_8_H1/W4

Datasheet REBLOC RB80H_8_H2/W5

Datasheet REBLOC RB85BF_8_T3/W1

Datasheet REBLOC RB85BF_8_H2/W5

Datasheet REBLOC RB85BFS_8_T3/W2

Datasheet REBLOC RB100H_2_H3/W6

Datasheet REBLOC RB100H_3_H3/W6

Datasheet REBLOC RB100H_4_H3/W6

Datasheet REBLOC RB100_2_H2/W5

Datasheet REBLOC RB100_8_H2/W5

Datasheet REBLOC RB100_8_H4b/W6

Datasheet REBLOC RB110_8_H4b/W6

Datasheet REBLOC RB110L_8_H2/W5

Datasheets special elements to the corresponding systems

Installation instructions REBLOC Permanent Systems