

the future of road safety starts here.

Vehicle restraint systems in accordance with EN1317.



REBLOC[®]



Safety
you can rely on

REBLOC® combines almost 100 years of experience in the manufacture of concrete elements with the latest innovations and concepts in modern vehicle restraint systems.

REBLOC® technology, patents pending, enables the most stringent safety specifications to be met while raising the bar concerning rapid installation and cost effectiveness.

As an autonomous company within the Oberndorfer Group, REBLOC® develops, manufactures and markets state-of-the-art concrete vehicle restraint systems to enhance traffic safety. The comprehensive system offers the right solution for all main fields of application.

In line with our industrial background, REBLOC® is a provider of cost effective and reliable products for implementation in large volumes. It is important that safety and costs are well balanced. We believe our capability of producing technically advanced, efficient systems makes a considerable contribution to increasing road safety.

The REBLOC® management team

Werner Pröll

Helmut Oberndorfer

Mathias Redlberger



time is money and road safety. the system:

One of the objectives of our development engineers at REBLOC® was to develop a system that works without additional fastening components. That is because quick installation and straightforward logistics minimise the time taken to finish the work on-site. Plus, the lower the disruption to traffic flow, the higher the level of road safety.

"Concrete does not travel very well". This is a fact that REBLOC® takes very seriously and encouraged us to develop lighter and longer elements. The narrow elements represent a significant saving in material and weight compared to conventional systems. Installation and logistics are accelerated as a result and transport can be organised more efficiently.

The REBLOC® system offers products for permanent separation of traffic flow in the central reservation and along the verge of the road as well as temporary safety systems for managing roadwork sites. A range of special elements rounds off the system to offer technically superior solutions even for the most difficult installation situations.

REBLOC® systems feature very low maintenance and servicing requirements, further enhancing the level of road safety.

REBLOC®



**more than simple steel
and concrete.**
the next leap in technology
is already integrated.

The innovative coupling system integrated into the elements joins the individual sections to form a very high strength continuous chain that safely absorbs energy and force applied to the restraint system in the event of impact from a vehicle. A major benefit is that no extra fastenings are required, making the REBLOC® system much easier and safer to install. The symmetrical configuration of the couplings enables elements to be installed from either side. If repairs, maintenance or modifications need to be performed, individual elements can simply be lifted out of the continuous chain and then slotted back in again.

A full-length steel tension bar inside the concrete elements, together with ingeniously-designed reinforcements, efficiently absorbs impact to safely prevent even heavy vehicles from breaking through the restraint system.

The extended length of the elements creates a cost-effective system, which, in combination with the integrated coupling and full-length steel tension bar, reliably controls the deflection of vehicles. The dimensions of the elements also ensure quick and efficient installation.



road safety at the highest level. proven reliability in rigorous impact tests.

REBLOC® products have been subjected to real impact tests in accordance with European Standard EN1317 and have been proven to meet all the specifications of a modern vehicle restraint system. Meeting specifications regarding high containment levels ensures that the risk of vehicle breakthrough is eliminated as far as possible.

This versatile and flexible system enhances the safety of drivers and passengers inside lighter-weight vehicles in the event of an accident. The values reached for impact severity (ASI, THIV, PHD) are well below the limits in the specification by an additional safety factor. The ASI figures (Acceleration Severity Index) are within level A or B and demonstrate the extent to which REBLOC® fulfils safety specifications. The safety of motorcyclists is also increased to a great extent thanks to the uninterrupted smooth surface of the REBLOC® system.

The low working widths of the system is also a major safety advantage, allowing the restraint elements to be implemented even on very narrow stretches of road.



REBLOC®



road safety on location.

REBLOC® is always close to
your projects, worldwide.

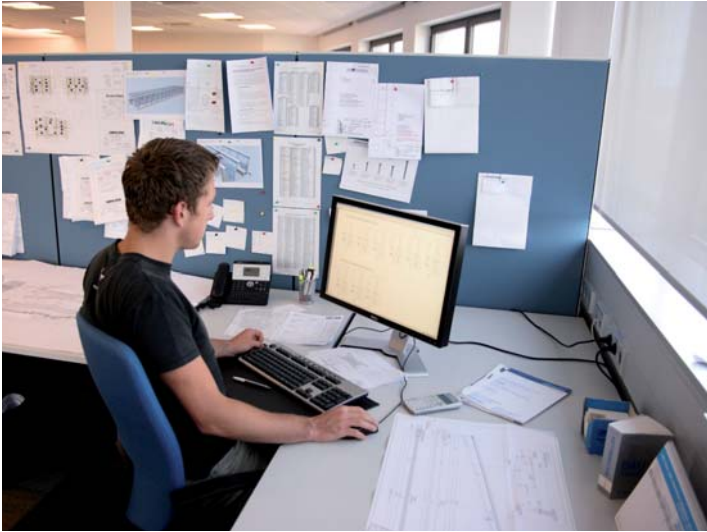
A network of production and sales partners enables us to supply products cost effectively throughout Europe and worldwide. 8 production plants at key locations and a fleet of 80 trucks and 6 mobile cranes let REBLOC® together with Oberndorfer respond cost effectively to your requirements throughout Austria and beyond.

no-compromise on quality with the built-in safety factor. approved industrial production to the highest standards.

When it comes to safety, we make no compromises on quality. Our industrial production processes guarantee consistent high quality. This is continuously monitored by internal and external controllers. A high level of automation allows us to react quickly to short-term demands.



ISO 9001:2008 No.08294/0
OHSAS 18001:2007 No.00334/0



raising the bar with research and development. applying technology to protect lives.

All REBLOC® systems are based on the principle of ongoing innovative development. A principle we take very seriously, which is why we constantly invest in new ideas and industry-leading development. In addition to meeting technical specifications we take into consideration the ease of use and durability of our systems. Cost effectiveness is also an important matter to us.

State-of-the-art simulation and calculation methods, complex testing facilities and instrumentation as well as a strong team of development engineers and material experts help us keep up the pace in creating new technologies. Short decision channels and our many years of expertise make it possible for us to respond quickly to new requirements and offer suitable solutions within a very short time-frame.



REBLOC®

Performance classes in accordance with EN1317-2*

Containment levels, vehicle impact test criteria

containment level	acceptance test	impact speed (km/h)	impact angle (°)	total vehicle mass (kg)	kinetic energy (kJ)
T1	TB 21	80	8	1.300	6.2
T2	TB 22	80	15	1.300	21.5
T3	TB21	80	8	1.300	-
	TB41	70	8	10.000	36.6
N1	TB31	80	20	1.500	43.3
N2	TB32	110	20	1.500	81.9
	TB11	100	20	900	-
H1	TB42	70	15	10.000	126.6
	TB11	100	20	900	-
H2	TB51	70	20	13.000	287.5
	TB11	100	20	900	-
H3	TB61	80	20	16.000	462.1
	TB11	100	20	900	-
H4a	TB71	65	20	30.000	572.0
	TB11	100	20	900	-
H4b	TB81	65	20	38.000	724.6
	TB11	100	20	900	-

Levels of working width

classes of working width levels	levels of working width (m)
W1	$W \leq 0.6$
W2	$W \leq 0.8$
W3	$W \leq 1.0$
W4	$W \leq 1.3$
W5	$W \leq 1.7$
W6	$W \leq 2.1$
W7	$W \leq 2.5$
W8	$W \leq 3.5$

Impact severity levels

impact severity level	index values
A	ASI ≤ 1.0
B	ASI ≤ 1.4
	PHD ≤ 20 g
C	1.4 \leq ASI \leq 1.9

and THIV \leq 33 km/h



* „ÖNORM EN 1317-2, Edition 2006-10-01, Road restraint systems. Published partly with permission from Austrian Standards plus.“

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