



MODULAR GUIDE AND PROTECTION SYSTEMS

We secure urban areas.



CITYBLOC[®]
SECURITY BARRIERS

**VERSATILE
GUIDE AND PROTECTION
SYSTEMS**



**FOR
CONSTRUCTION SITES**





**FOR
MOVING TRAFFIC**



**FOR
STATIONARY TRAFFIC**



Editorial

Mobility is changing. Urban living space is growing and being redesigned. With the **new generation CITYBLOC®** we have set ourselves the goal of providing solutions for urban living that protect all road users equally.

At present there are no uniform test standards or standards for using safety barriers in the European Union.

The new CITYBLOC® series, which has successfully passed **standardised crash tests in accordance with EN1317**, sets new standards in inner-city infrastructure.

True to the motto: **PROTECTING LIVES IS OUR MOTIVATION**

Wolfgang Ganster
Sales & Operations Director
DELTABLOC International GmbH



CITYBLOC® — TESTED SAFETY IN URBAN TRAFFIC MANAGEMENT

Different road users — one traffic area

In urban environments, construction sites often pose a high risk potential. Choosing the right safeguarding equipment can secure work areas and protect the lives of construction workers and road users alike. The new CITYBLOC®, successfully tested in accordance with the strict requirements of EN 1317-2, ensures even greater safety in public, commercial and industrial areas.

The system is **modular**. The design of the individual elements allows for **small-scale safeguards** that guarantee highest **possible safety**.

The CITYBLOC® serves not only to protect road users, but also to guide traffic flows and to delineate areas. The "**Traffic Management Barrier**" **TMB** was specially developed for the inner-city area. Thanks to its plug-in openings, various road equipment accessories such as traffic signs and building fences can be attached quickly and easily.

CITYBLOC® guide and protection system and their extensive fittings are used along construction sites, cycle paths, at stops and loading zones, airports, railway stations and ports.



CITYBLOC® — crash tested and tested in accordance with EN 1317-2

EN 1317 — road restraint systems

On the one hand, road restraint systems as passive safeguarding equipment serve to prevent vehicles from veering off the carriageway, on the other hand, they must also protect the occupants and other road users in the best possible way. The test requirements for these restraint systems are defined and described in the European standard EN 1317.

CITYBLOC® safety barriers
crash tested in accordance with
EN 1317-2*: T1/W1



EN 1317-2 — Performance classes, impact test acceptance criteria and test methods for safeguarding equipment

The EN 1317 is divided into 8 parts, part 2 defines the performance classes. The classification is based on three criteria: the containment level, the working width and occupant safety.

CITYBLOC® — Crash tested in accordance with EN 1317-2*

At present there are no regulations or standards for restraint systems that apply to inner-city areas. However, especially in inner cities where so many different road users need protecting in a confined space, and traffic flows and construction sites need securing, the potential for danger is particularly high.

DELTABLOC® sets new standards here. True to the company motto **PROTECTING LIVES IS OUR MOTIVATION**, the new generation of CITYBLOC® systems now guarantees maximum safety.

CITYBLOC® is the first road restraint system for urban traffic areas that has been successfully crash tested in accordance with EN 1317-2.

In accordance with the specifications of crash test TB21, a car with a weight of 1300kg was steered at 80km/h into a CITYBLOC® safety barrier. It achieved the best possible **result T1/W1**.

This means that the CITYBLOC® chain shifts by a maximum of only 12cm. **At a speed of 50km/h**, the calculatory displacement is **only 6cm!**

CITYBLOC® — EN 1317-2* certification

Containment level	Test speed	Angle of impact	Working width
T1	80km/h	8°	W1 with $W_N = 0.5m$

* Overall system is based on the crash tested chain used in system type CB 240. For more information, see technical documentation.



SOPHISTICATED SYSTEM SOLUTIONS

CITYBLOC® GUIDE AND PROTECTION SYSTEMS

Maximum safety, easy installation
and manipulation

The CITYBLOC® system impresses with **state-of-the-art technology, unique features** and sets **new standards in safety technology**.

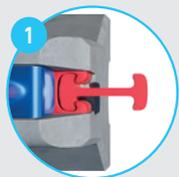
Safety and experience

The new CITYBLOC® system is based on the experience of DELTABLOC® road restraint systems. The **patented coupling system** is also part of the CITYBLOC® system.

The screwless connection not only allows for easy installation, **the self-contained chain** also provides for additional safety.

The **extensive range of fittings** for the attachment of various traffic signs and fence elements completes the product range for more safety.





Screwless, patented element connection
based on the proven DELTABLOC® coupling system



Proven New-Jersey profile
for rebound and deflection and maximum safety upon impact



Stability and safety
thanks to elastomer support



Drainage and cable ducting
thanks to cross and full-length longitudinal openings



Many railing solutions
for appealing designs



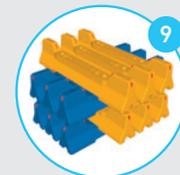
45° and 90° corner elements
for small-scale safeguards offering maximum safety



Many plug-in options
for traffic signs and common road equipment accessories



Integrated steel loops
for easy lifting and moving



Space-saving stacking
storage and transport also stacked crosswise



High-quality concrete
guarantees frost and de-icing salt resistance and increases lifespan

Smooth surface
for a pleasing appearance and dirt-repellent and easy to clean surface



EN 1317-2 tested CITYBLOC® elements
are marked with the symbol "T1"



CITYBLOC® safety barriers
have been crash tested and tested in accordance
with EN 1317-2* — up to 80km/h.

* Overall system is based on the crash tested chain used in system type CB 240.



VERSATILE AND MODULAR SAFETY IN URBAN TRAFFIC

Developed for many kinds of applications

The new CITYBLOC® generation has been developed as a **modular system** and offers a number **application possibilities** for the many different traffic areas.

CITYBLOC® systems **sustainably and efficiently minimise the risk** for all road users. They not only separate pedestrians and cyclists safely from motorised traffic, but also make it easy to signal danger spots thanks to their **extensive fittings**.

Successfully tested in accordance with EN 1317-2

The new CITYBLOC® generation is the first system on the market to be crash tested and tested in accordance with the strict **requirements of EN 1317-2**.





Construction site safety

Flexible safeguarding ...



In urban environments, construction sites often pose a high accident potential.

CITYBLOC® systems protect both road users and construction workers.

This system is particularly suitable for protecting small areas. Special curve radii allow flexible adaptation to local conditions.

CITYBLOC® TMB has been developed for easy and safe signalling of danger spots. The special shape allows easy attachment of various traffic equipment and signs.



Traffic flows

... safe guidance ...



With CITYBLOC® elements and the extensive range of fittings, cycling and walking paths as well as pedestrian zones can be safely separated from motorised traffic. This reduces the risk of accidents for all road users.

CITYBLOC® also offers the right solution for managing parking spaces and public transport stops with products that separate these areas from the flow of traffic and protect more vulnerable road users.



Stationary traffic

... efficient separation



In stationary traffic, there are numerous applications for CITYBLOC®. Both in parking lots as well as in commercial and industrial areas, they are used for demarcation or as safeguards.

Storage areas and loading zones, danger spots, embankments and green areas as well as plot and access roads can be separated safely and individually. At events, airports, freight yards and ports, CITYBLOC® guarantees maximum safety.



CITYBLOC® ELEMENTS SAFEGUARDING IN CONFINED SPACE

Tested safety with extensive options
Modular — flexible — versatile

The CITYBLOC® safety barrier has been specially developed to protect small areas. It is characterised by a small number of well thought-out modular building parts. Especially the **radius elements** of 45° and 90° provide for **flexible protection in confined spaces**.

Both the different curve radii and the proven DELTABLOC® coupling system make installation easy and flexible. Safeguards in public, commercial and industrial areas can be set up quickly and safely.





CITYBLOC® — products range

Type	Dimensions (L×W×H)	Weight	Comments
Elements*			
CB 120	120×38×50cm	290kg	
CB 120 incl. handrail	120×38×100cm	296kg	galvanised steel railing, all RAL colours possible
CB 240 **	240×38×50cm	580kg	
CB 240 incl. handrail	240×38×100cm	592kg	galvanised steel railing, all RAL colours possible
CB 120 tail	120×38×50cm	230kg	ground anchoring possible
CB 120 tail incl. handrail	120×38×100cm	236kg	ground anchoring possible, galvanised steel railing, all RAL colours possible
CB 120 terminal	120×38×50cm	210kg	ground anchoring possible
CB Radius 90	50×38×50cm	116kg	90° curve element
CB Radius 90 incl. handrail	50×38×100cm	120kg	90° curve element, galvanised steel handrail, all RAL colours possible
CB Radius 45	36×38×50cm	56kg	45° curve element
Fittings			
CB fence adapter	FA-M — middle element	steel, galvanised, all RAL colours possible, compatible with all common construction fences with a pipe diameter ≥34mm	
	FA-U — transition element		
	FA-E — tail		
CB lifting plate	Tool for easy and safe installation of elements		
* All CITYBLOC® elements are supplied with a steel coupling, coupling lock and mounting hardware.			



CB 120 with/without handrail

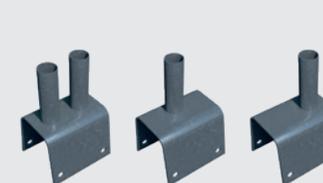
CB 240 with/without handrail



CB 120 tail without/with handrail

CB 120 terminal

CB Radius 90 without/with handrail



CB fence adapter: FA-M / FA-U / FA-E



CB Radius 45

CB Radius elements are the ideal supplement for small-scale safeguards.

** System type for crash-tested system configuration according to EN 1317-2.



CITYBLOC® TMB TRAFFIC MANAGEMENT BARRIER

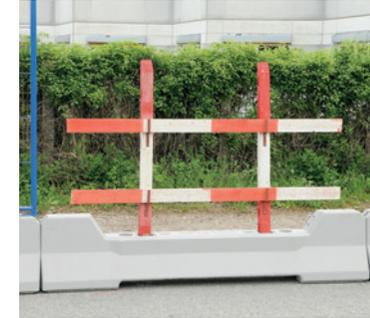
Modular safeguarding of construction sites
with integrated plug-in openings

The CITYBLOC® TMB — **Traffic Management Barrier** is a special element for inner-city environments.

It is particularly suitable for securing construction sites. Different plug-in openings make it possible to quickly and easily integrate traffic signs, barriers, warning beacons and other common fittings directly into the TMB. **Danger spots** can thus be **signalled quickly and safely**.

In addition to construction sites, it can also be used everywhere where hazardous areas need to be designated, traffic flows separated or road users guided.





CITYBLOC® TMB 240 can be fully combined with all CITYBLOC® CB elements.



CB Radius elements are the ideal supplement for small-scale safeguards.



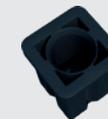
TMB 240



DM60/76



40x40



DM42

CITYBLOC® TMB — Traffic Management Barrier

Type	Dimensions (L×W×H)	Weight	Comments
Elements*			
TMB 240	240×38×50cm	470kg	plug-in openings for traffic signs, barriers, warning beacons, road equipment accessories and other fittings
Fittings			
CB clamp taper cone DM60			for sign posts with a diameter of 60mm
CB clamp taper cone DM76			for sign posts with a diameter of 76mm
CB tube clamp 40×40			for square 40×40mm tubes
CB tube clamp DM42			for tubes and stubs with a diameter of 42mm
* All CITYBLOC® elements are supplied with a steel coupling, coupling lock and mounting hardware.			



CITYBLOC® — THE GUIDE AND PROTECTIVE SYSTEM

CB 120 / CB 240*

The system relies on the well-known New Jersey profile and a proven coupling system based on the patented DELTABLOC® coupling system.

Applications:

- ▶ securing of pedestrian and cycle paths
- ▶ delineator for stationary traffic
- ▶ securing of public transport stops
- ▶ traffic flow control in industrial areas
- ▶ fall protection along slopes

CB 120



CB 240*



TMB 240

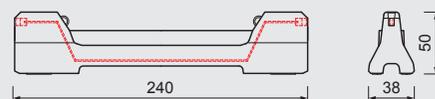
The CITYBLOC® TMB 240 — Traffic Management Barrier is a guide and protection system for inner-city environments. The various plug-in openings in the TMB 240 can be used to attach a wide variety of road equipment accessories such as traffic signs, warning beacons, barriers, construction fences and much more. This system is therefore particularly suitable for securing construction sites.

High-quality steel loops and the full-length drainage openings allow quick and easy assembly and disassembly of the elements using a HGV crane, excavator or forklift. The TMB 240 can be stored in a space-saving fashion even stacked crosswise.

Applications:

- ▶ securing inner city construction sites
- ▶ temporary and permanent protection of pedestrian and cycle paths
- ▶ securing of public transport stops

TMB 240



* System type for crash-tested system configuration according to EN 1317-2.

CITYBLOC® – VERSATILE FITTINGS

Signs and livery

CITYBLOC® is ideal for advertising. Either by means of direct inscription, foiling on the protective barriers or advertising signs that can be attached to the handrail thanks to the integrated plates. The elements can also be painted. This means that CITYBLOC® elements can be used simultaneously as a guide system and advertising medium at outdoor events and shopping centres.

Application as an advertising medium and visitor guide system:

- ▶ at events such as trade fairs, events, concerts
- ▶ outdoor area of shopping centres, parking lots
- ▶ at stations, airports, stops



Construction fences and adapters

The special CITYBLOC® construction fence adapters for CB 120/CB 240 and TMB 240 provide a simple and cost-effective way to completely shut off or restrict access to safety-relevant areas.

The adapters are designed for safeguarding using different fence heights, which can be covered with nets or tarpaulins if required.

For this type of installation there is proof of stability in accordance with Eurocode EN 1991-1-4.

Applications:

- ▶ for securing construction sites and storage areas
- ▶ wind-permeable nets and tarpaulins as privacy shields, dust protection and advertising media





CITYBLOC® REFERENCES







We develop safety.

Creativity and innovation is what drives DELTABLOC® to develop the safest road restraint systems in the world. Enthusiastic engineers constantly come up with new ideas to improve performance and efficiency. In fact, more than 30 patents have been incorporated into the entire DELTABLOC® product range, making them both unique and superior.

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DELTA BLOC Deutschland GmbH
DELTA BLOC Nederland B.V.
DELTA BLOC UK Ltd.
DELTA BLOC France SAS
DELTABLOC d.o.o. (Slovenia)
DELTABLOC RO S.R.L.
DELTA BLOC South Africa (Pty) Ltd.



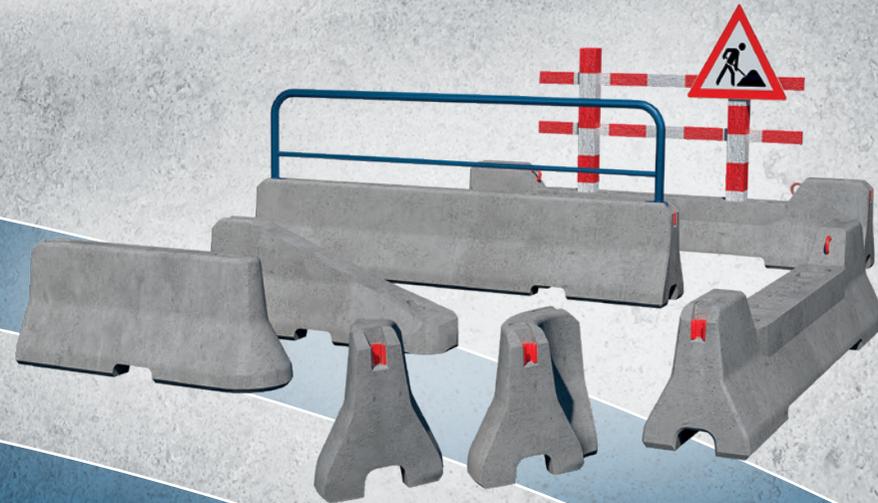
KIRCHDORFER
ROAD & TRAFFIC

A grayscale world map is centered on the page. A horizontal band of light gray color runs across the middle of the map, containing the text. The map shows the outlines of continents and some internal borders.

**PROTECTING LIVES
IS OUR MOTIVATION**

GUIDE AND PROTECTION SYSTEMS FLEXIBLE AND MODULAR.

Tested safety in urban areas.



KIRCHDORFER
ROAD & TRAFFIC

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