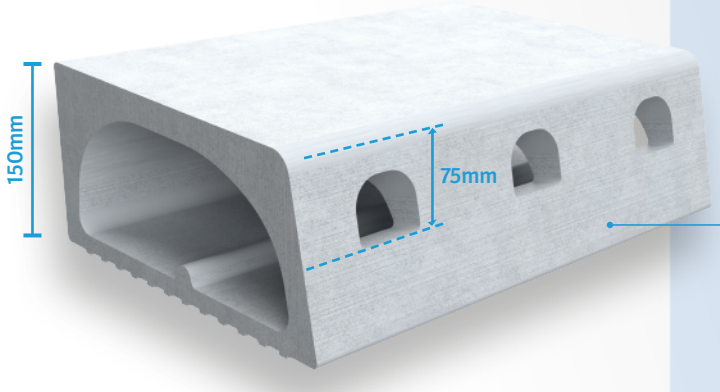
Suitable for 75 and 150 mm Kerb height and all heights in between

BRIDGE DRAINAGE UNIT

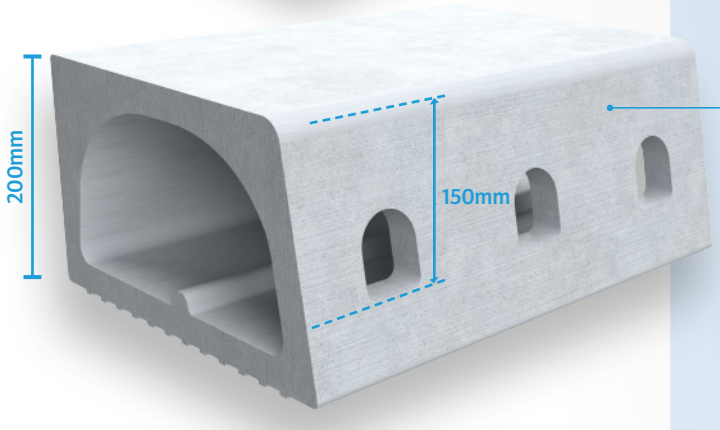
The bridge drainage channel Type M is designed to collect and discharge surface and structural water from bridges and elevated roads, used by all types of road vehicles.

AVAILABLE HEIGHT OPTIONS

The height of the inlet openings is milled to project-specific dimensions.



BD350x150 = 150mm high element
Top slope 4%
(according to BAST guideline Kap12)



BD350x200 = 200mm high element
Top slope 2%
(according to BAST guideline Kap12)

BRIDGE DRAINAGE

TECHNICAL FEATURES AND ADVANTAGES

The bridge drain elements are made of one material and are moulded monolithically. In other words, they are manufactured in one piece, which ensures a stable structure with high impact resistance.

LOADING CLASSES

Can be used up to group 4 (min. class D400) type M in accordance with the manufacturer's installation instructions (see installation instructions for bridge drainage). Test basis EN1433:2005-09 Section 7.15.). 40 tonnes load capacity.

CONFORMITY

Conformity with EN1433:2005-09

MATERIAL AND DURABILITY

Recycled plastic composite material.
It can be paved or asphalted.

WATERPROOF

No leakage according to 9.3.6 of the standard (see installation details of the bridge drainage). Test basis EN1433:2005-09 Section 7.5.1

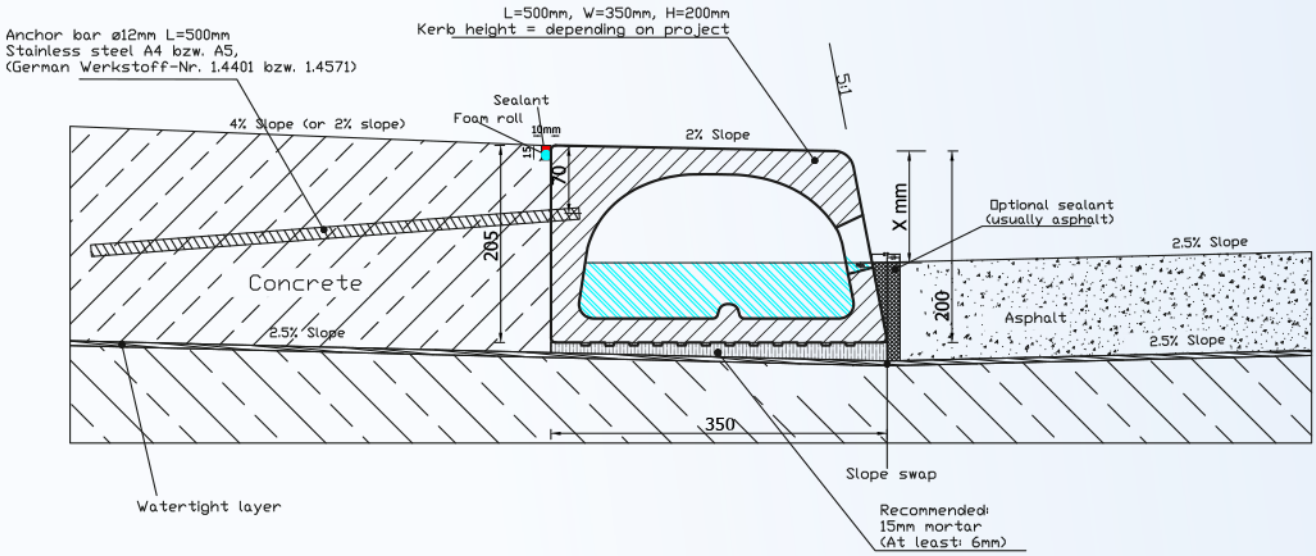
Light weight allows manual installation by one person. No machinery required. High installation capacity per day.

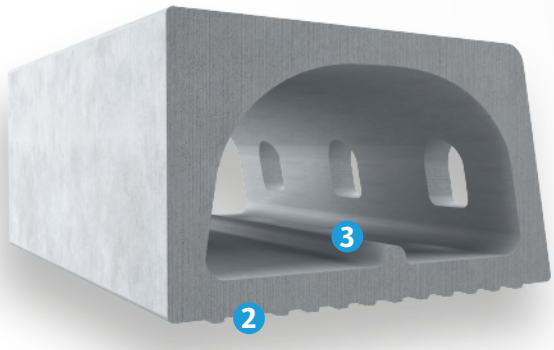
System advantages:

- Environmentally friendly, made from 70% recycled plastic.
- Versatile applications.
- Large inlet cross-section ensures high drainage capacity, rapidly removing water.
- Well-suited for installations involving numerous cables and pipes.
- 2-in-1 solution: curb and drainage pipe installed in one step.
- Prevents aquaplaning through rapid drainage.
- Prevents corrosion of the structure since the bridge body is not perforated.
- Ideal for renovation and new construction of bridge projects.

Placement advantages:

- Lightweight (± 15-18 kg) makes the built in elements easy to transport and quick to install.
- No heavy lifting tools required.
- Easy connection to the sewer system.
- Up to 60% lighter than concrete.
- Flat placement.





MAINTENANCE

Easy maintenance through inspection and suction elements.

Advantages of maintenance:

- Simple cleaning using flushing methods.
- Resistant to frost and de-icing salts.
- Easily accessible via inspection elements from the road surface.

1 INSPECTION OPENING

For maintenance work, the cover of the inspection element can be opened. This allows the bridge drainage system to be inspected and cleaned with a high-pressure water jet.

2 RIBBED BASE FOR BETTER ADHESION

Since the elements are installed on a mortar bed, they are equipped with a ribbed base plate that enhances adhesion to the mortar and improves the stability of the channel.

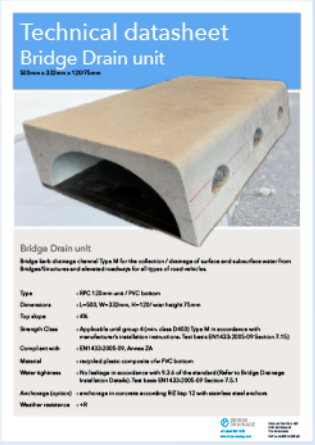
3 INTERNAL FLOW DIVIDER

The additional internal flow divider generates a dry-weather drainage channel. During minor rainfall events, only the dry-weather drainage channel is activated. This results in higher flow velocity and increased shear stress for the removal of contaminants.

CUSTOM SOLUTIONS

We specialize in customization. Depending on your requirements, we determine which element best fits your project. We can utilize various production locations, material types, and manufacturing methods to meet your schedule and needs. Below are some examples of custom products:

Riga, Kekava (LT)
Taller model



Kamen A1 (DE)
120mm recessed unit

Aarburg (CH)
Stainless steel unit
with anti-slip structure

Kirchdorf (DE)
SMC unit with
anti-slip structure

TECHNICAL DETAILS

BRIDGE DRAINAGE

STAINLESS STEEL DOWELS (according to RiZ kap12)

If necessary, and to increase the stability of the unit in the event of snow ploughs being used, we can optionally add stainless steel anchor rods that connect to the bridge cap.

Weight load
40 tons load capacity
Class D-400

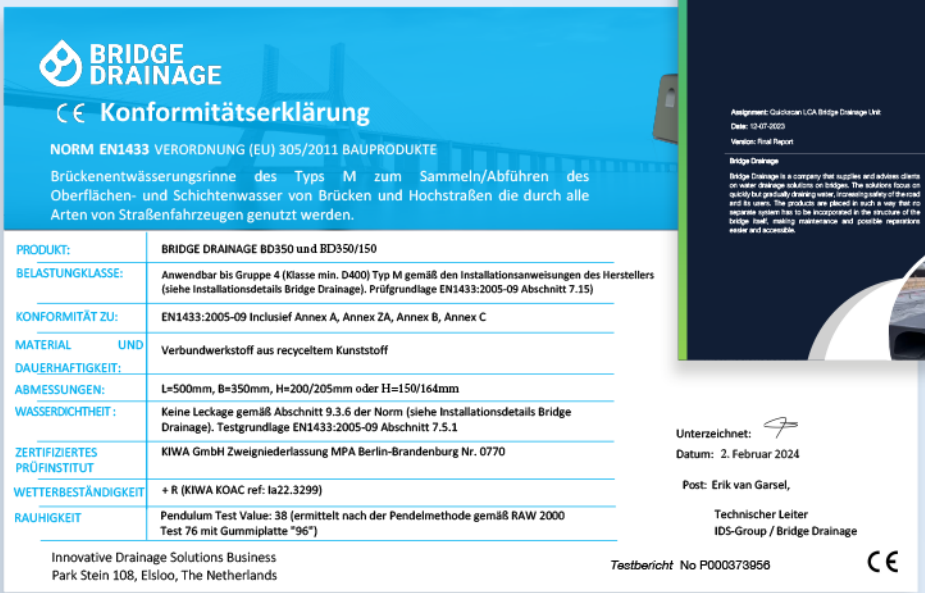
COMPLIES WITH CLASS D-400

The elements have been tested in collaboration with Kiwa Berlin and are capable of withstanding weight loads of up to 40 tons.

Weather resistance: +R

CERTIFICATES AND REPORTS

- Declaration of Conformity EN1433:2005-09, including Annex A, Annex ZA, Annex B and Annex C
- Kiwa Test Certificate EN1433:2005-09 Class D400
- Ecoras Quickscan LCA Impact Report Bridge Drainage Unit



BRIDGE DRAINAGE

CE Konformitätserklärung

NORM EN1433 VERORDNUNG (EU) 305/2011 BAUPRODUKTE

Brückenentwässerungsrinne des Typs M zum Sammeln/Abführen des Oberflächen- und Schichtenwasser von Brücken und Hochstraßen die durch alle Arten von Straßenfahrzeugen genutzt werden.

PRODUKT:	BRIDGE DRAINAGE BD350 und BD350/150
BELASTUNGSKLASSE:	Anwendbar bis Gruppe 4 (Klasse min. D400) Typ M gemäß den Installationsanweisungen des Herstellers (siehe Installationsdetails Bridge Drainage). Prüfgrundlage EN1433:2005-09 Abschnitt 7.15)
KONFORMITÄT ZU:	EN1433:2005-09 Inclusief Annex A, Annex ZA, Annex B, Annex C
MATERIAL UND DAUERHAFTIGKEIT:	Verbundwerkstoff aus recyceltem Kunststoff
ABMESSUNGEN:	L=500mm, B=350mm, H=200/205mm oder H=150/164mm
WASSERDICHTHEIT:	Keine Leckage gemäß Abschnitt 9.3.6 der Norm (siehe Installationsdetails Bridge Drainage). Testgrundlage EN1433:2005-09 Abschnitt 7.5.1
ZERTIFIZIERTES PRÜFINSTITUT	KIWA GmbH Zweigniederlassung MPA Berlin-Brandenburg Nr. 0770
WETTERBESTÄNDIGKEIT	+ R (KIWA KOAC ref: Ia22.3299)
RAUHIGKEIT	Pendulum Test Value: 38 (ermittelt nach der Pendelmethode gemäß RAW 2000 Test 76 mit Gummiplatte "96")

Innovative Drainage Solutions Business
Park Stein 108, Elsloo, The Netherlands

Unterzeichnet:
Datum: 2. Februar 2024
Post: Erik van Garsel,
Technischer Leiter
IDS-Group / Bridge Drainage

Testbericht No P000373956 CE

ecoras

Impact
Report
2023

kiwa

PRÜFZERTIFIKAT

Certificate
of the tests performed
- Test certificate Nr. P000373956-1 -

Bridge Drainage | Business Park Stein 108, 6181 MA, Elsloo, The Netherlands
T. +31-462 07 70 08 | info@bridge-drainage.com | www.bridge-drainage.com