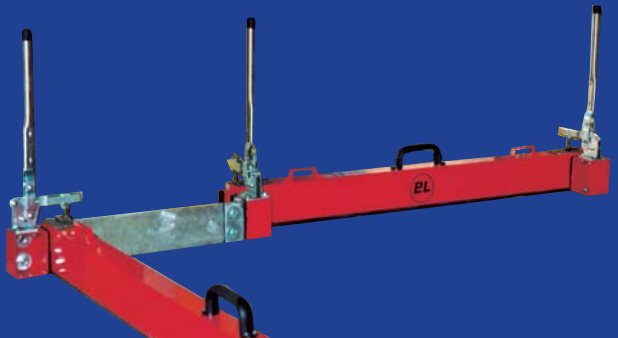




Containment Systems

Retention Barriers

Water Barriers



Blobel Environmental Engineering

Blobel Environmental Engineering State of the Art safety sealing systems

BLOBEL is your worldwide partner and we offer optimum solutions for complex situations, which reflect market needs.

Following a thorough analysis of the situation at hand, we develop sealing systems that are custom designed for each specific case.

We cover all the angles, from expert analysis, to controlled manufacturing, professional installation and fast, reliable customer service.

All BLOBEL Umwelttechnik systems are internationally approved.

Maximum safety

In developing our products we apply state-of-the-art technology to not only comply with but to exceed current safety guidelines and achieve the highest standards. We take into account the need for possible retrofitting to satisfy anticipated future specifications (eg. blinking light, warning tone, pressure sensor with time delay, light curtain, etc. for automatic systems) so that they can be realised without great expense.

Maximum quality

Our barriers are known for their robustness due to the use of high-quality materials. The seals used are flame retardant, highly resistant to chemicals (according to DIN 4102-B1) and can be reliably implemented where uneven ground conditions exist, such as corrugated sheet metal. All of our products are subjected to continuous quality assurance measures in keeping with DIN ISO 9001.

We offer the Economy and Superflex Lines which are comprehensive systems designed to contain contaminated fire fighting water and provide overflow protection. While the Economy Line operates at a relatively simple level, the Superflex Line generally boasts at least two high-performance features.



Spare Parts

BLOBEL
U MWELTTECHNIK

Innovative Products

Consultation
Engineering Services



Ready for the future: The convenient Superflex Line

The mobile slide-insert barrier system

Slide-insert barriers are comprised of one or more barrier bodies that are guided into place in a narrow bracket and placed under tension in the event of an emergency. They can therefore also be implemented where availability of space is limited. Installation is possible inside or outside of the opening to be protected.

The use of welding technology allows for comparatively high retention heights and protects against breakage.



Barrier combination, retention barrier BL/BST, rectangular, mobile, loading ramp protection, limited ceiling height



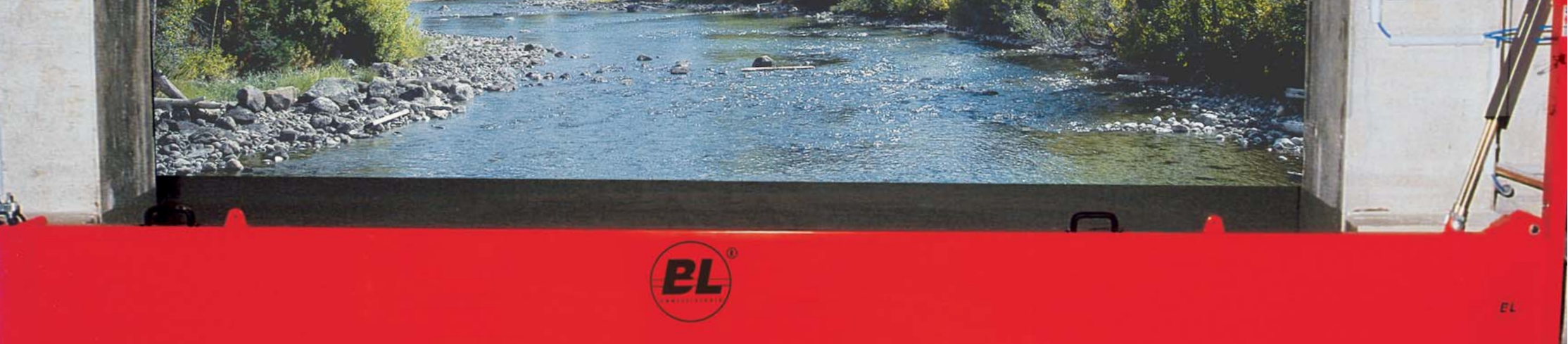
Retention barrier BL/BMT, manual slide-insert system in the Superflex Line, trapezoidal in form, modular design



Retention barrier BL/BAP, manual system in the Superflex Line, permanently bolted in place



Mobile Superflex



The Superflex Line: Stationary design using an expandable modular system

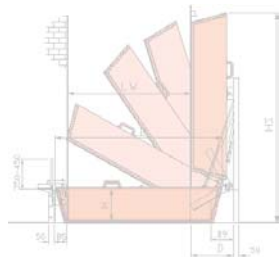
Barriers BL/BED, BL/BDD, BL/BED-KB and BMT of our Superflex Line are designed to be modular in nature. The basic manual version can be incrementally expanded to become semi-automatic or fully automatic. Retrofitting can be performed in response to modifications in the installation environment or changes in external influences. Due to the modular nature of this system changes can be made in a trouble-free manner usually without the need for reinstallation.

Precision and reliability

Due to their special gate-line design, our barriers close in a precise and accurate manner and are known for their durability and longevity. This is simply an indication of the high level of quality of our products.

Flexibility and creativity

Lifting platforms and loading ramps can be easily accommodated with barriers in a "U" shape and around corners where sufficient clearance space is available.



Retention barrier BL/BED, manual system in the Superflex Line, modular design



Retention barrier BL/BDD, "U" shape, special form, manual system, modular design

Automatic barriers: Maximum safety without disturbing work operations

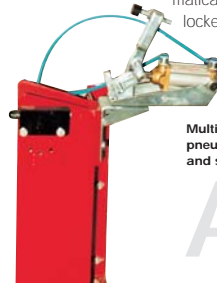
If desired, the barriers can be opened and closed directly from a forklift without interrupting work operations. This is a convenience you will certainly no longer want to do without.

Automatic/pneumatic barriers: Implemented in all explosion-protected zones

The consistent application of common international compressed air techniques makes it possible to use various types of signals, such as fire detection systems, smoke detectors, moisture sensors, sprinklers, etc., for activation of our systems. In the event of activation, the systems close completely automatically. Additional manual activation features are also integrated.

100% functional in the event of an emergency and ready for use as often as needed

The distinct advantage of our pneumatic systems lies in their handling. In the event of failure of all auxiliary power during an emergency, the barriers close automatically in a damped manner and can be locked manually.



Multi-functional block with pneumatic tensioning device and safety stop



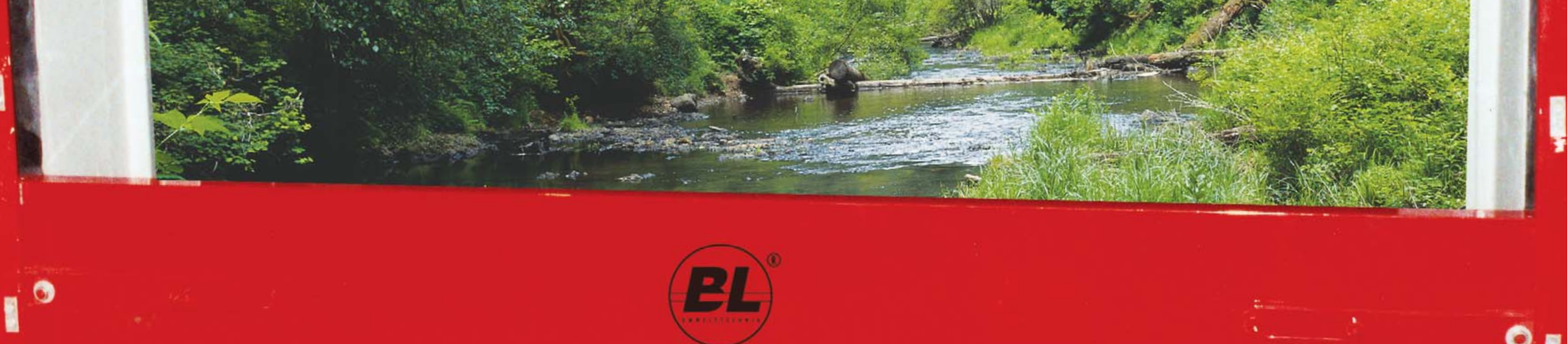
Retention barrier BL/BED-A, semiautomatic, damped automatic closing, manual resetting



Retention barrier BL/BED-PM, fully automatic, usable as often as needed. Based on BL/BED manual system, modular design



Retention barrier BL/BDD-PM, fully automatic, for limited heights or large spans. Based on BL/BDD, modular design



The Economy Line: The standard of safety

Our Economy barriers offer all the features expected from an economical high-quality retaining system. The barriers are designed in such a way that they can be integrated with little effort in most locations as an emergency retaining system. The Economy system is distinguished by its solid workmanship and ease of handling.

In contrast to the modular design of the Superflex Line, the manual Economy Line, cannot be expanded to become a fully automated retaining system.

The standard colour for all systems is RAL 3020 "traffic red." Special colour requests are also available.



Water barrier BL/BD, stationary system using a gate-like design



Water barrier BL/STL, manual slide-insert system, rectangular, ideal for emergency exits/escape routes or where little space is available



Water barrier BL/EX, manual slide-insert system, trapezoidal in form, reliable, long life even when in continuous use



Barrier body from the BL/EX series

Economy also means maximum quality

The difference often lies in the details. When evaluating barriers, pay close attention to the quality of the seal, the accuracy of the barrier fit and the material used. The Economy line also has, for example, heat-resistant aluminium handles and a chemical-resistant and fire-resistant seal. Where higher retaining heights are concerned, the individual aluminium elements are welded rather than bonded.

Blobel makes its mark in the industry through the use of high-quality materials and often very involved production methods. Safety for people and protection of the environment are our highest priorities.



Water barrier BL/SB-200, manually stackable slide-insert system, rapid, reliable, proven in flood water protection



Quality in every detail



BL/EX, sealing of railroad rails (refer also to BL/BMT and BL/BST-EX)

Economy

Blobel Enviro

Planning, Installation, Service

Our consultation, planning and design services guarantee your system will comply in all aspects with legally prescribed requirements.

Our engineering consultation services include:

- Situation analysis and assessment
- Development of concepts for overall or partial securing of plant premises and manufacturing facilities
- Water retention assessment
- WHG assessment
- Quality assurance and monitoring

Delivery and installation by our professionals is an integral part of our service.

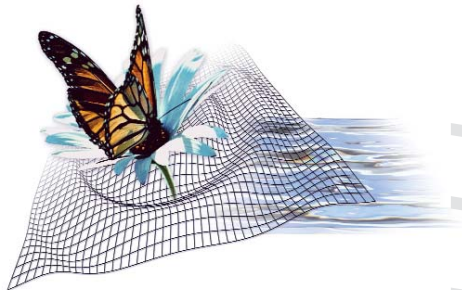
You will receive all of the necessary certifications after each installation:

- Approval in conformity with building specifications
- Test certificates available
- "IdF" certification report
- TUV certification for operation in conformity with "WHG" § 19 I
- Table of resistances for the seals
- CE conformity declaration

Spare parts

BLOBEL products are known for their highly robust nature. The stocking of spare parts for routine maintenance can therefore be limited primarily to wearing parts such as seals. Spare parts for all older designs are also available.

Our products are consistently coordinated with one another. In this way, special parts can also be integrated in existing product lines. Spare parts are conveniently available from the warehouse or with short-notice delivery.



Your service representative

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Blobel Environmental Engineering

An overview of our barriers

	Design types	Auxiliary functions	Implement.	Safety		
Superflex		Permanent closure				
		Installation within opening preferred				
		Single barrier body				
		Multiple barrier bodies				
		Vertical travel capability				
		Horizontal swiveling capability				
		Rotating capability, one side				
		Rotating capability, both sides				
		Relaying/folding capability, one side				
		Relaying/folding capability, both sides				
		Modular design (upgradeable)				
		Fully automatic				
		Pneumatically controlled				
		Electrically controlled				
		Pneumatic closing				
		Automatic closing operation				
		Electromagnetic securing feature				
		Manual resetting				
		Pneumatic locking				
		Extreme circumstances				
	Extreme heights and spans					
	Low room heights					
	Can be customised on request					
	Design-tested *					
	Conforms with WHG §19g					
	Proven in the fire fighting industry					
	Conf. w. LGA Test Guideline 3/93					
	Field-tested					
	Quality-controlled					
	Ease of handling					
stationary	mobile slide-insert					
	stationary					
		BL/BST				
		BL/BSTEX	•			
		BL/BMT	•			
		BL/BTL	•	•		
		BL/BTL-TR	•	•		
		BL/BAP	•	•		
		BL/BTL-SB	•	•		
		BL/BAP-SB	•	•		
		BL/BTL-SB Vario	•	•		
		BL/BAP-SB Vario	•	•		
		BL/BED				
		BL/BED-KB	•			
		BL/BDD	•			
		BL/BDD-KB	•			
		BL/BHS-M	•			
		BL/BW-M	•			
		BL/BW-A	•			
		BL/BW-PM 1	•			
		BL/BW-PM 2	•			
		BL/BW-PM 3	•			
	BL/BW-E	•				
	BL/BHS-PM 1	•				
	BL/BHS-PM 2	•				
	BL/BED-A	•				
	BL/BED-PM 1	•				
	BL/BED-PM 2	•				
	BL/BED-PM 3	•				
	BL/BED-E	•				
	BL/BDD-PM 1	•				
	BL/BDD-PM 2	•				
	BL/BDD-PM 3	•				
Economy	m. slide-insert					
	stationary					
		BL/ST	•			
		BL/EX	•			
		BL/STL	•			
		BL/SB-200	•			
		BL/BD	•			
	BL/BD-K	•				
	BL/BD-D	•				
	BL/BHV	•				

* Design-tested: • Certification ○ Analogous testing

Blobel Environmental Engineering

Our field-proven barriers are available in the following basic forms

Mobile slide-insert barriers

Mounted in front of the opening

In the event of an emergency, the barrier body is placed into mounts installed in front of the opening to be protected and then pressed against the ground by means of tensioning levers. The barrier bodies are generally stored on a wall to the left or right of the opening to be protected using the included wall brackets.



Mounted within the opening

Installation of these barriers is carried out within the opening without further restricting the passageway. Rapid deployment is therefore ensured.



Stackable

Two or more barrier bodies are placed into the receiving bracket. This is a special solution for areas where large volumes of water are to be retained.



Intra-room

These barriers facilitate the partitioning of portions of a room (e.g. the area around a lifting platform).



Open premises

Areas on open premises can be closed off with these barriers, even over large distances.



Stationary barriers manual or automatic

Vertical travel capability

Rapid and uncomplicated operation, even where large retention heights are concerned. This design type is implemented where local circumstances or the dimensions of the barrier body do not allow for the use of rotating or swiveling variants.



Rotating/swiveling capability

Minimal space requirements. These barriers function according to a gate-like principle and are frequently implemented in driveway or passageway situations.



Rotating/folding capability

Use of this type is particularly useful where low room heights are concerned. Barriers with rotating/folding capabilities are available with these capabilities either on one or both sides.



Rotating capability on two sides

These barriers have two separate barrier bodies that engage precisely into each other. This solution is suitable for relatively large openings where low ceiling heights are involved.



Horizontal swiveling capability

These barriers operate on a door-like principle and are particularly suited for use where narrow corridors are involved.

