



河北宝力工程装备股份有限公司
HEBEI BAOLI ENGINEERING EQUIPMENT CORPORATION LIMITED

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Air Shield Dam, Rubber Dam



河北宝力工程装备股份有限公司
HEBEI BAOLI ENGINEERING EQUIPMENT CORPORATION LIMITED

About us



Enterprise Tenet:

Leading technology innovation, good faith management based

Enterprise Philosophy:

Excellent quality, high efficiency, truth-seeking working, pragmatic working attitude, making friends with sincerity

Enterprise Spirit:

Constant improvement, the pursuit of excellence

Enterprise Goal:

The pursuit of stable and long-term return on investment, contributing to society to promote the progress of civilization

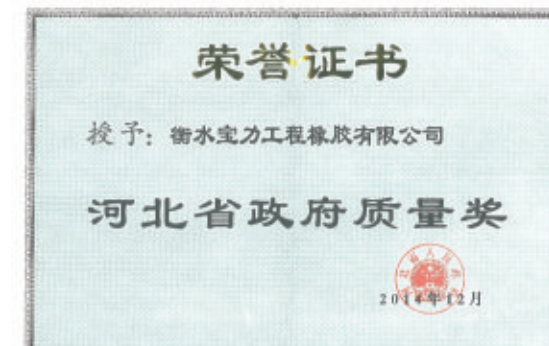
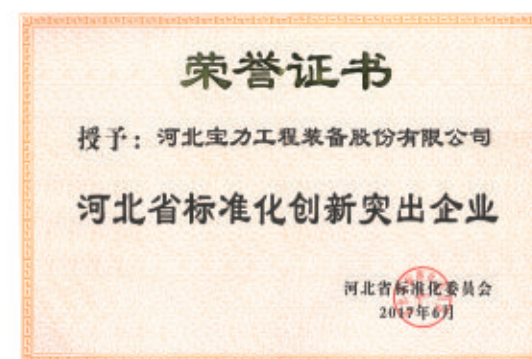
Hebei Baoli Engineering Equipment Corporation Limited. is founded in July 1993 the registered capital is RMB 257, 00 million. Located in Hengshui city, Hebei Province, which is the center of Beijing-Kowloon Railway and the Shijiazhuang-Dezhou Railway, The register address of BAOLI is No. 13, rubber& plastic road, the North Industrial Base, development zone, Hengshui City, which covers an area of 900, 000 square meters. Baoli company has more than 2680 employees, including 306 engineers and technicians. The Certificate of quality system ISO9001 has been obtained in 1998, the Environmental system certification ISO14001 and Occupation health and safety management system certification GB/T28001 have been obtained in 2009, these systems are continuously improved and running well during many years.

Company under the leadership of the board of director is the general manager responsibility system, followed by the deputy general manager, deputy general manager of finance, deputy general manager of technology (chief engineer), HR office, Business Department, Production Department, Bidding office, Law Department, Supply Department, Finance Department, Technology Department and the corresponding production workshops, which is an industry mainly produces railway and highway pot bearings, bridge steel bearings, bridge plate bearings, bridge expansion devices,, rubber dams, as well as highway traffic facilities products, Baoli company is the main industry of Baoli Group.

Baoli company is the supporting institution of “Hebei Engineering Rubber Technology Research Center”, also belongs to the “National Rubber Standard Committee Rubber Sundry Goods Branch Engineering Rubber Working Group”. By years of hard work and enterprising, Baoli now has a strong scientific and research team. With powerful technical strength and fully equipped test and inspection devices, Baoli has strong research and design ability.

Our company adopts general manager responsibility system which is leaded by board of directors, including deputy general manager, financial vice general manager, technology vice general manager(Chief engineer), office, sales department, production department, tendering department, degal department, purchase department, financial department, technology department, related workshopes and so on, it’s a professional manufacturing enterprise to produce bridge pot bearings, bridge spherical bearings, elastomeric rubber bearing pads, bridge expansion joints and related various traffic facilities, it is the core enterprise of BAOLI group.





Test equipments

MA 170002280516 AL (2017)国家认证认可(462)号 CNAS 检测 CNAS L0684

检测报告

报告编号: TC-JC-FS-2019-0304

委托(受检)单位: 河北宝力工程装备股份有限公司

产品(工程)名称: 橡胶坝袋

检测项目: 物理性能

检测类别: 委托送检

报告签发日期: 2019年3月6日

中冶建筑研究总院有限公司
国家工业建筑物质量安全监督检验中心

MA 170002280516 AL (2017)国家认证认可(462)号 CNAS 检测 CNAS L0684

检测报告

报告编号: TC-JC-FS-2019-0304 表式 GC-10 试验编号: 2019-0304

委托单位	河北宝力工程装备股份有限公司		委托人	蒋培有	
产品名称	橡胶坝袋	规格型号	JBD3.5-280 280-2	生产厂家	河北宝力工程装备股份有限公司
依据标准	SL 554-2011		样品数量	2m	
来样日期	2019年2月27日		检测日期	2019.2.28-2019.3.5	

检测项目	检测结果	技术指标	本项结论	
硬度(邵尔 A), 度	61	55-65	合格	
拉伸强度, MPa	16.0	≥14	合格	
扯断伸长率, %	495	≥400	合格	
热空气老化, (100℃×96h)	拉伸强度, MPa	13.4	≥12	合格
	扯断伸长率, %	428	≥300	合格

结论: 送检样品所检项目的检测结果符合 SL 554-2011《橡胶坝坝袋》标准中表 11 的技术指标要求。

注: 送检样品试验项目由委托方确定, 试验数据仅供参考。

批准: 李岩 审核: 李岩 试验: 李岩 报告日期(盖章): 2019年3月6日

检测单位地址: 中国北京海淀区西土城路 33 号 电话: (010) 82227226 邮编: 100088



One corner of BAOLI



Air Shield Dam

Operation principle of air shield dam

Air shield dam is a new type of dam which is composed of a group of shield plates, a group of air bags, a row of foundation anchorage bolts and a set of pneumatic charging and discharging system. It is a new type of hydraulic structure innovated by combining the advantages of rubber dam and steel plate dam (gate). It has the advantages of simple structure, short construction and installation period; Outstanding flood control capacity, safe and reliable operation; The height of water flow and the state of operation are continuously controllable; With stronger cleaning, silt discharge capacity; Higher capacity to hold and pass water; Short charging and discharging time, simple operation and management; Long service life, high comprehensive benefit; Strong seismic ability, high adaptability to the foundation; Good landscape effect and other characteristics.



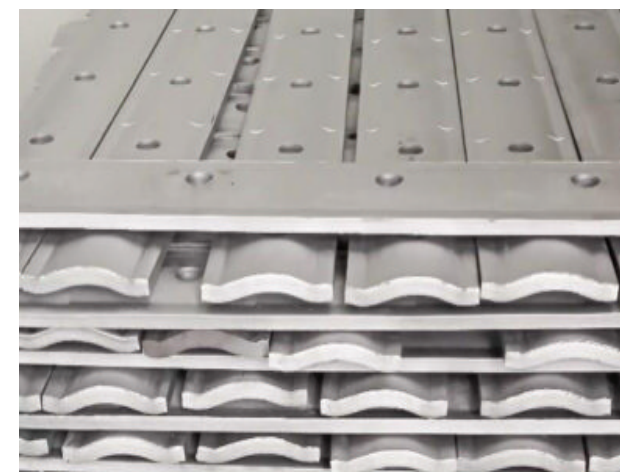
Advantages of air shield dam

- 1, Simple structure, easy installation. The modular structure does not need to use large construction equipment, saving manpower, material resources and financial resources, and the construction period is small.
- 2, With sufficient security. The steel shield fully protects the rubber dam bag, and the dam bag can provide sufficient cushioning force and is not afraid of large floating.
- 3, The ecological landscape effect is good. Dam top overflow will form a waterfall, very beautiful.
- 4, Low management and operating costs. Card hanging will not occur in operation, and there is no need for frequent maintenance and repair.
- 5, Cleaning and drainage ability is strong. When the dam collapsed, the shield plate completely adhered to the foundation, and the water blocking height was less than 9 cm.
- 6, Stronger earthquake resistance. There is a soft connection between the shield plate and the foundation, which will not cause system failure and loss of normal operation ability due to the deformation of the foundation.
- 7, Wide range of application. It is suitable for various rivers with complicated hydrological conditions, and is suitable for urban beautification construction. It can also be directly applied to the transformation of various rubber DAMS and automatic turning dams.

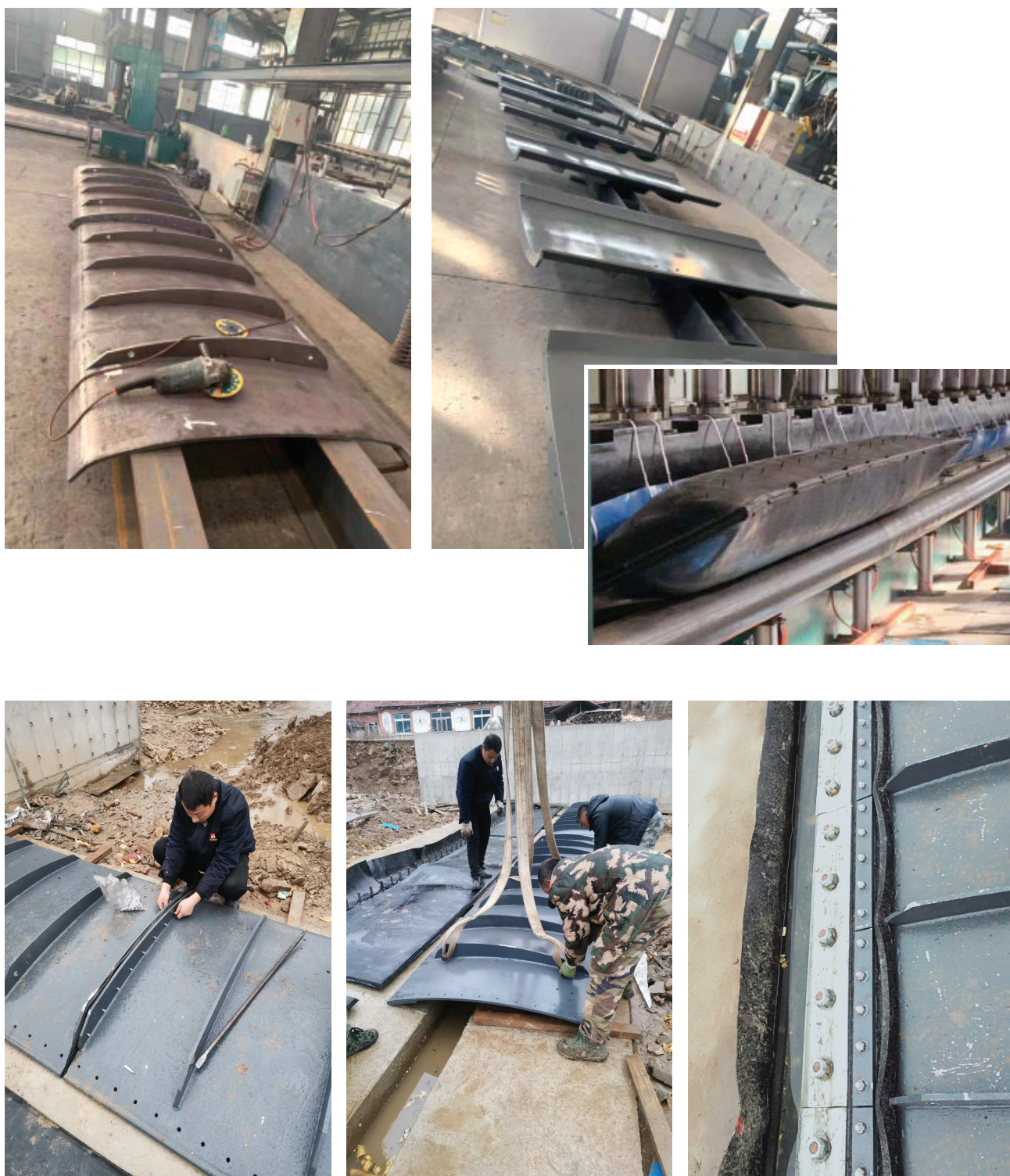


Operation principle of air shield dam

1. The standard length of the upper pressing plate is 996mm, and the standard length of the lower backing plate is 998mm
2. The bolt cutting section adopts wrong thread, the bottom has a bent hook section, and the bolt spacing is 200mm
3. The nut adopts the corresponding product specifications, it is appropriate to use double nut
4. There are gaps at both ends of the pressure plate to facilitate installation and seepage prevention
5. The safety factor of the bolt is 3 times the radial strength of the dam bag



Production and construction pictures of air shield dam



Effect picture of air shield dam

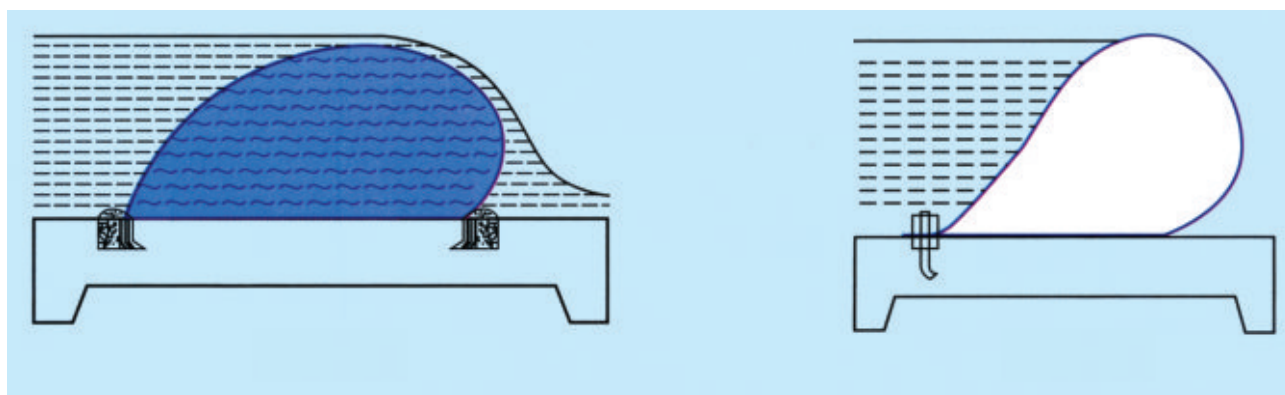


Rubber Dam

Rubber dam is a new type of water retaining structure composed of impregnated canvas as the skeleton and synthetic rubber. It is fixed on the base plate by anchorage to form a sealed bag. In dry season, the rubber dam bag is filled with water or the inflatable lift dam is used to block water to meet the needs of industrial and agricultural production, domestic water and urban landscape. The rubber dam has the characteristics of short construction period, long life, convenient operation and maintenance, strong earthquake resistance, etc. It has been widely used in irrigation, power generation, flood control, industry and agriculture, aquaculture, garden landscaping, beautifying the urban environment and other fields, and has been recognized and praised by many users.

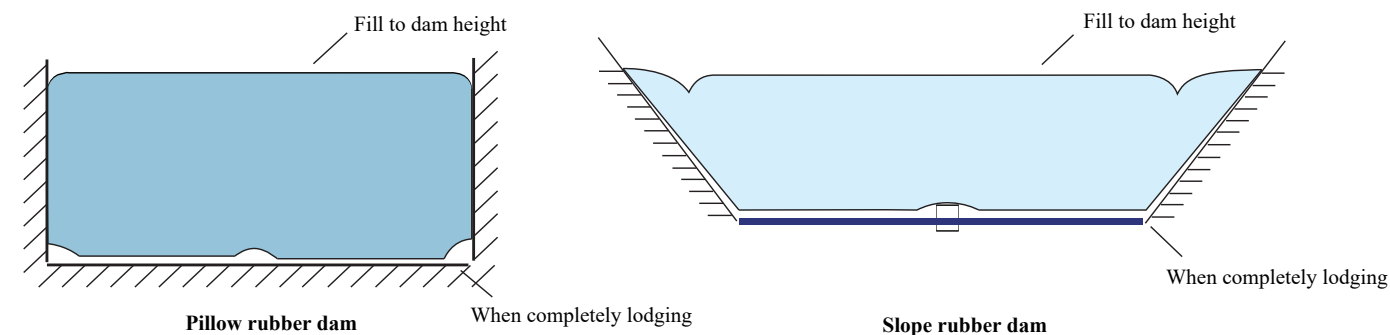
- According to the medium can be divided into water-filled rubber dam and inflatable rubber dam.
- According to the installation form can be divided into pillow type rubber dam, slope rubber dam.
- Anchoring forms are divided into bolt anchoring and wedge anchoring, single anchor and double anchor.
- The dam bag can choose different specifications and parameters according to the level of water head, the size of air pressure, the type of skeleton cloth, the internal pressure ratio and so on.
- Our company can produce a variety of colors of rubber dam according to customer demand.

Running state cross-sectional diagram of rubber dam



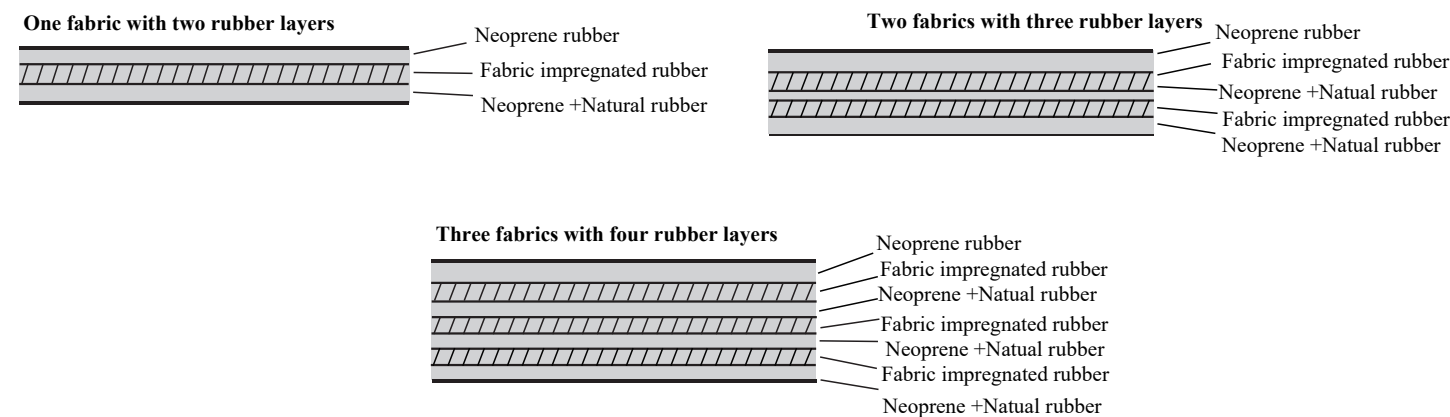
Dam bag form

Rubber dams are mainly included pillow rubber dam and slope rubber dam two forms.

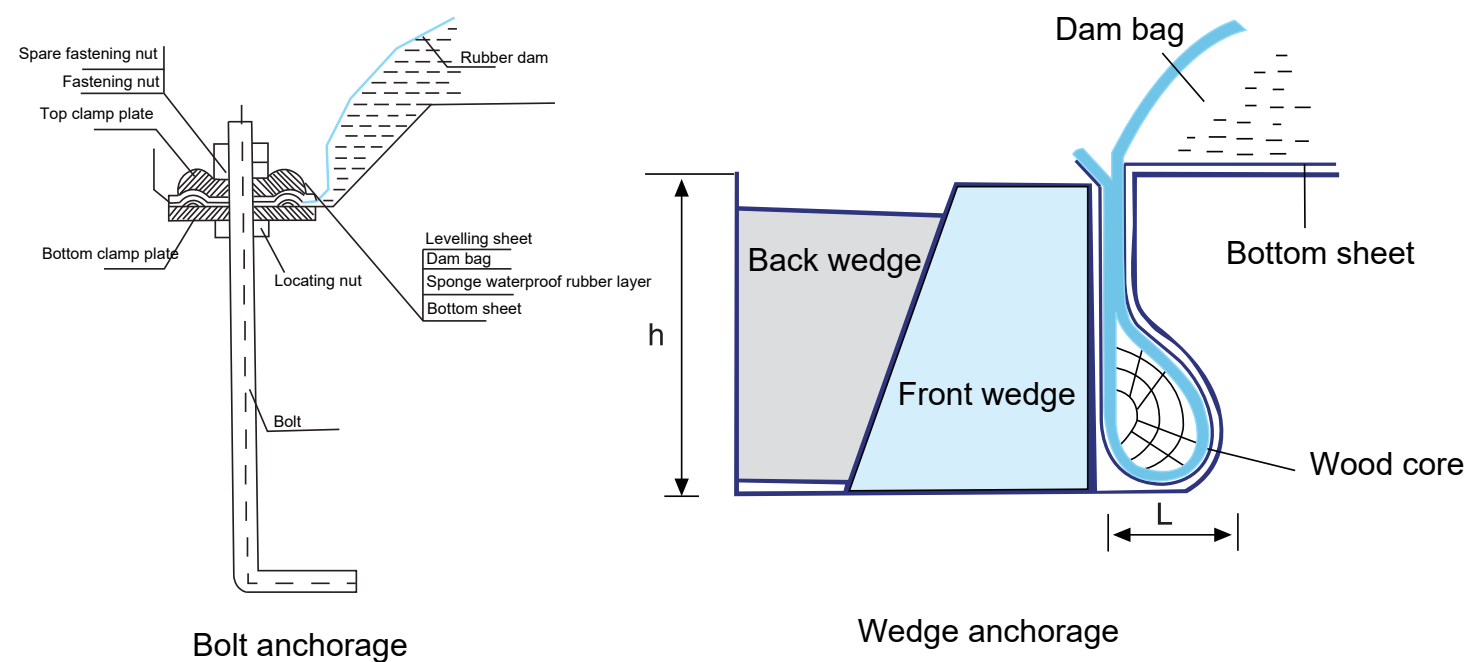


Product material function introduction

- Dam bag material can be divided into one fabric with two rubber layers, two fabrics with three rubber layers, three fabrics with four rubber layers and so on.
- The outer layer of rubber layer is slightly thick, and it has the functions of abrasion resistance, sun resistance and aging resistance.
- The middle layer of rubber layer has the function of protecting the canvas and connecting the canvas.
- The inner layer of rubber has the functions of air tightness and water tightness, preventing the aging of the canvas and so on.



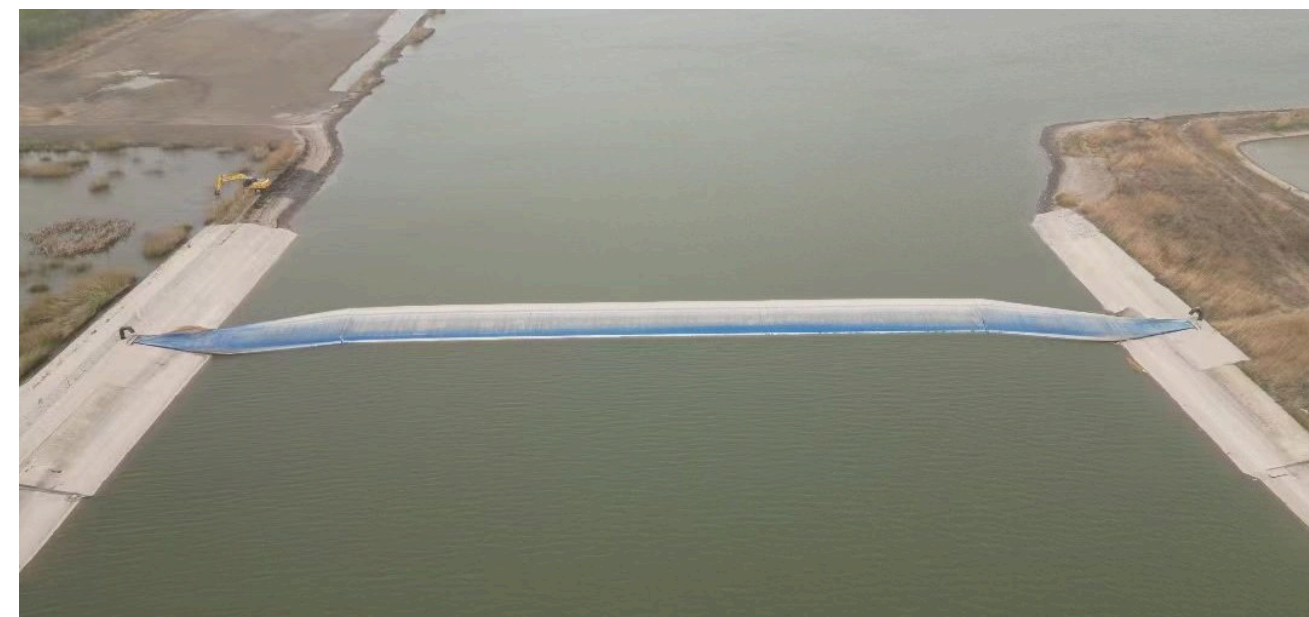
Anchorage form



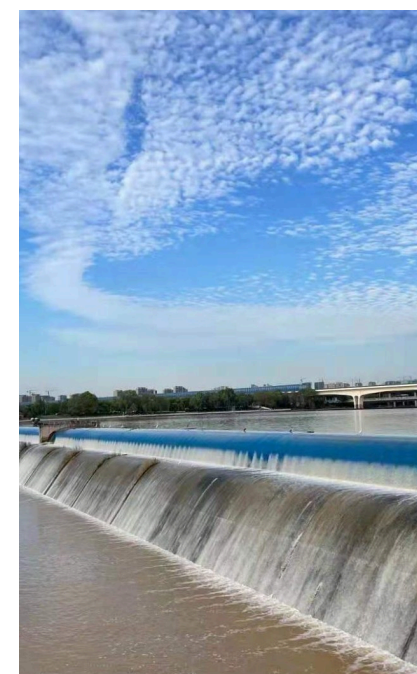
Product characteristics

- Specifications: there are models such as water blocking height 0.5m-6m, and anti-rust measures include painting, galvanizing and so on.
 - High standard: unified mold, fine manufacturing, universal parts, the upper and lower boards can be arbitrarily combined.
 - High strength: cold rolling steel plate forming, design safety factor is more than 3 times of the dam bag design tensile force.
 - Convenient for installation: the use of materials for easy cutting, welding, flat butt between the plates, good leak-proof effect.
- Note: Various forms of anchoring parts can be designed and produced according to user requirements.

Photos of performance



Rubber dam in Jiyun River, Tianjin



Rubber dam in
Ba River, Xi'an



Rubber dam in
Yucheng, Shandong



Rubber dam in
Shanhaiguan, Qinhuangdao

Photos of performance



Fengfeng coal mine rubber dam



Liaoning Pu ruver rubber dam



Longyan hydropower station



Baoding Yixian rubber dam



Rubber dam in Hetian, Xinjiang



Xingtai Garden show park rubber dam



Rubber dam in Dongfeng



Rubber dam for sunwu Country Binshui Park, Heihe City, Heilongjiang province.



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CONTACT US

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