



# NADIR BRANDA

As a leading integrated manufacturer of PVC coated fabrics, Nadir Branda specializes in producing flexible ventilation ducts, technical textiles and roof membranes for the tunneling, mining, and industrial markets.

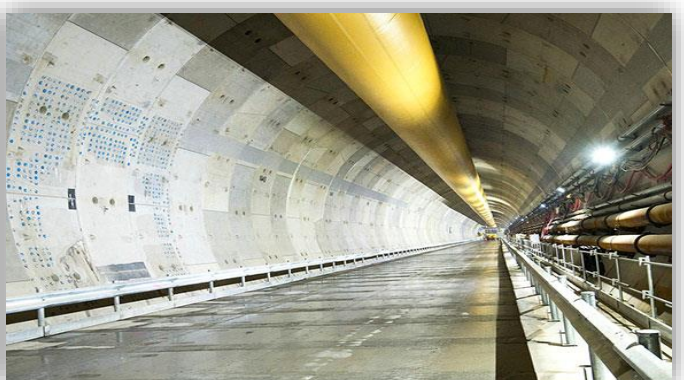
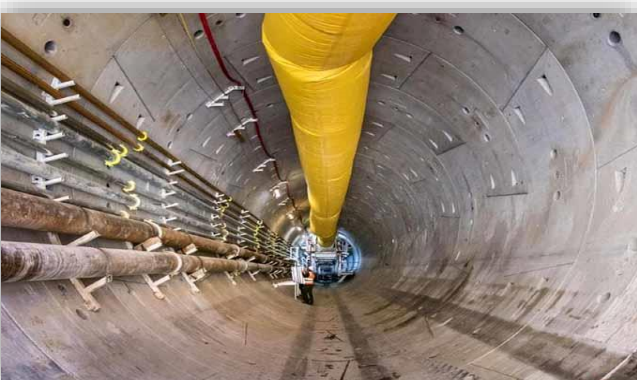
Founded in 1990 and created by a group of specialists of over 30 years' experience, Nadir Branda is an expert in developing as-the-matter-of-fact engineering ventilation solutions catered to clients in a global market.

With top-of-the-line production technology and one-single source of ventilation ducting supply, Nadir Branda as the best-in-class engineering service provider has served diverse clients worldwide, including project contractors, ventilation fan suppliers, PVC fabric distributors and wholesalers.



Nadir Branda's over 30 years of experience in underground ventilation industry and constantly-updated capability permits you;

- Free sample
- Free Ventilation Ducting Design Plan
- Free SGS testing
- Specific-diameter duct of customer-required friction factor Report(conformed to SIA norm)
- Engineered to meet your ventilation needs





## TUNNEL VENTILATION DUCTING SYSTEM

Fabric quality decides the performance of flexible ventilation duct because appropriate fabric grade is the key to withstand high air pressure effectively and convey fresh air efficiently.

Therefore, for every engineered project, kinds of chemical performance and dimension that fabric owned are of significance.

Nadir Branda with self-developed PVC production line is capable of manufacturing flexible ventilation duct with multiple custom options to fulfill your requirements in budget and quality.



Railway



Highway



Metro



Hydropower Station



Hydraulic Engineering

## BUILDING & CONSTRUCTION VENTILATION DUCTING SYSTEM

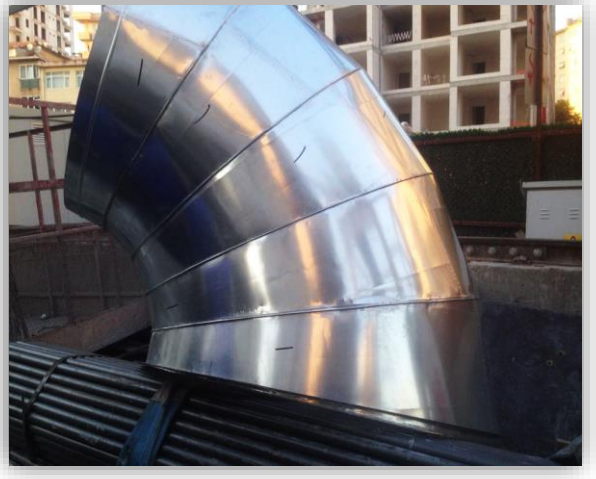
In construction ventilation projects, Nadir Branda utilizes quality PVC material to get high flow flexible ducting used indoors and outdoors.

With decades of expertise in ventilation and fabric construction, Nadir Branda has been and will be a professional provider in industrial ventilation ducting solutions, with the supply of safe, efficient and durable ducts based on customer needs.

## SUITABLE FOR MULTIPLE MINING OCCASIONS

Every mining ventilation duct, manufactured by Nadir Branda, meets the strict flame-retardant requirement of the Mine Safety and Health Safety (MHSA).

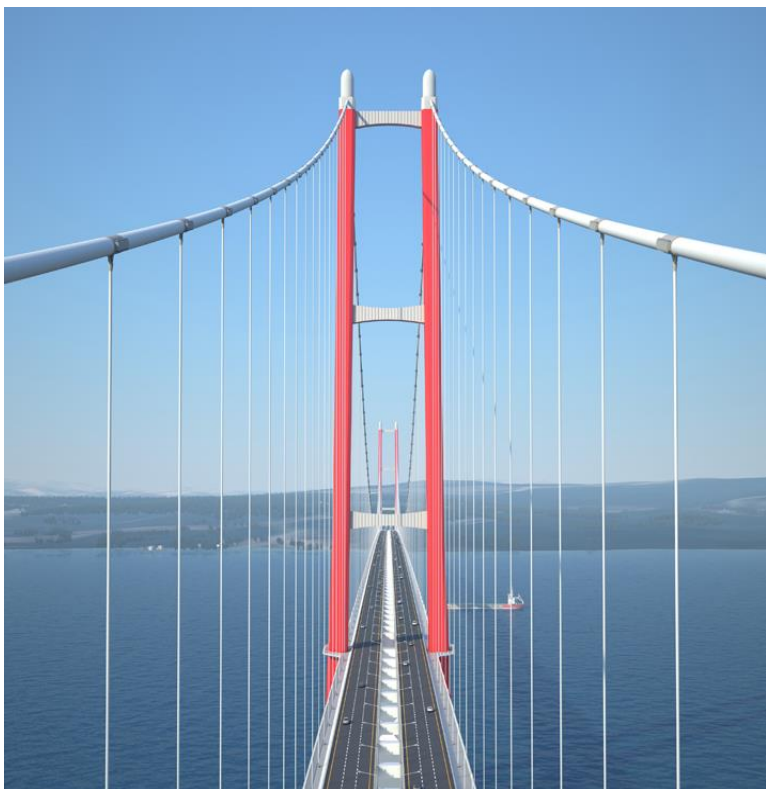
One project needs several types of ventilation ducts according to the complexity of the on-site mining operation.



## PROJECTS | NADİR BRANDA

Nadir Branda has been producing ventilation duct systems for over 30 years to be used in constructions of the railways, subways, highways, mines and canals in national and international major projects and is the first choice of Turkey's largest contractors in these projects. Some of the projects that Nadir Branda produced ventilation duct systems are listed below.

HIGHWAY	EURASIA TUNNEL / ISTANBUL TURKEY	7 KM	VENT. DUCK SYS.	YAPI MERKEZİ, DLYS
SUBWAY	KADIKÖY-PENDİK / ISTANBUL TURKEY	30 KM	VENT. DUCK SYS.	DOĞUŞ İNŞAAT, YAPI MERKEZİ, ASTELLI
SUBWAY	ÜSKÜDAR – ÇEKMEKÖY / ISTANBUL TURKEY	26 KM	VENT. DUCK SYS.	DOĞUŞ İNŞAAT
SUBWAY	İSTANBUL AIRPORT MECİDİYEKÖY - KEMERBURGAZ/ TURKEY	70 KM	VENT. DUCK SYS.	CENGİZ-KOLİN-KALYON
SUBWAY	HALKALI ARNAVUTKÖY İHSANİYE / ISTANBUL TURKEY	25 KM	VENT. DUCK SYS.	CENGİZ-KOLİN-KALYON
SUBWAY	TAVŞANTEPE SABİHA GÖKÇEN AIRPORT / ISTANBUL TURKEY	18 KM	VENT. DUCK SYS.	GÜLERMAK, ÇELİKLER İNŞAAT
SUBWAY	BOSTANCI DUDULLU /ISTANBUL TURKEY	18 KM	VENT. DUCK SYS.	ŞENBAY, KOLİN, KALYON
SUBWAY	GÖZTEPE KOZYATAĞI ATAŞEHİR ÜMRANIYE / ISTANBUL TURKEY	22 KM	VENT. DUCK SYS.	GÜLERMAK, NUROL, MAKYOL
SUBWAY	SOFIA SUBWAY / REPUBLIC OF BULGARIA	4 KM	VENT. DUCK SYS.	DOĞUŞ İNŞAAT
HIGHWAY	BINLADIN TUNNEL / RIAD, SAUDI ARABIA	4 KM	VENT. DUCK SYS.	DOĞUŞ İNŞAAT
MINE	GOLD MINE / BURKİNA FASO	2 KM	VENT. DUCK SYS.	MNG, MAPA
MINE	GOLD MINE / LIBERIA	2 KM	VENT. DUCK SYS.	MNG, MAPA
MINE	COPPER MINE / ORDU TURKEY	3 KM	VENT. DUCK SYS.	SYP İNŞAAT
HYDROPOWER STAT.	HPS / GİRESUN TURKEY	2 KM	VENT. DUCK SYS.	SYP İNŞAAT
TUNNEL	ALİBEYKÖY SEWAGE / ISTANBUL TURKEY	2 KM	VENT. DUCK SYS.	KALYON İNŞAAT
SUBWAY	GEBZE-DARICA / IZMIT TURKEY	CONT.	VENT. DUCK SYS.	ANT, YILDIZLAR, EMON
SUBWAY	TAVŞANTEPE-TUZLA / ISTANBUL TURKEY	CONT.	VENT. DUCK SYS.	EZE –METKÜP İNŞAAT / ALARKO, CENGİZ İNŞAAT
HIGHWAY	DARDANELLE 1915 BRIDGE / TURKEY	CONT.	VENT. DUCK SYS.	YAPI MERKEZİ, LİMAK



## UNDERGROUND VENTILATION DUCTS

### LAY FLAT VENTILATION DUCT

Round lay flat ventilation duct as the portable flexible duct with custom choices (diameter, length and fabric material) meets your quality requirement and project budgets.



### OVAL VENTILATION DUCT

Oval ventilation duct as the portable flexible duct with custom choices (diameter, length and end connection) meets your quality requirement and project budgets.



### SEMI RIGID VENTILATION DUCT

Round and square spiral ventilation duct strengthened by hard-drawn steel or spring steel that can be bent withstand high pressure and handles the rigor of mine and tunnel projects.



### FIBERGLASS RIGID VENT DUCT

Fiberglass Rigid duct is a flexible, interlocking duct solution for tunnel and mining application by constructing from filament wound fiberglass roving and reinforced with polyester fibers.



### INDUSTRIAL FLEXIBLE DUCT

Flexible duct with PVC laminated fabric and steel wire reinforcing by rubber strip covered. Ideal for factory, lab, basement, underground project of coal mines, tunnels, subway, ships.



## QUALITY

### STRICT INCOMING RAW MATERIAL INSPECTION

Besides the test reports from superior suppliers, Nadir Branda checks the performance of incoming materials by our independently-developed production line as it is sensitive to process, to see if they can make a complete PVC film or not.

If the film cannot be formed completely, Nadir Branda would stop using the material and stop its cooperation with the suppliers.

### ON-GOING PRODUCTION QUALITY INSPECTION

The chemical and physical structures of textile fabric determine how it will perform, and ultimately whether it is acceptable for a particular use.

To minimize the defect rate, Nadir Branda specialists would sample the in-process fabric products every hour to assess the performance of textile materials up to the standard of being vent hose and weigh product quality for regulatory compliance.

## FINISHED PRODUCT QUALITY INSPECTION

### GRAB TENSILE TESTING

Based on DIN53354 Standard or ASTM Standard (or other types of national standard), sampling fabric would undergo a grab test to meet customer requirement by in-house tensile strength tester.

Inspectors set up related data and supervise the whole process step by step to get the result precisely.

### FLAME RETARDANT TEST

For underground ventilation ducting, the flame-resistant properties need to be fully understood so that the flexible hose can be used safely in the engineered operation work.

For delivering fabric product that meets NFPA 701 Standard, a Nadir Branda expert performs the test in the flame chamber to measure the flammability of a fabric when it is exposed to specific sources of ignition.

### LOW TEMPERATURE BEND TEST

Fabrics coated with PVC are used in underground ventilation requiring low-temperature flexing.

Referred to the GB, ASTM and Din Standards, the test method evaluates the ability of fabric sample in the low-temperature chamber to withstand a selected bend at an established low temperature.

### FINISHED DUCT INSPECTION

After the ventilation ducts and fabric rolls are completed, the inspector will conduct random inspections on the appearance, hot welding seam, suspension seam, end connection coupling and tightness and other aspects. If everything meets the Nadir Branda acceptance standards, the cargoes can be folded and packed into the warehouse and awaiting delivery instructions. If not, we will increase the rate of spot checks. when the failure rate exceeds 5%, we will reschedule the batch production.

To further enhance our customers' confidence in the quality of our products, we also can accept the third part inspection!

Moreover, Nadir Branda makes samples with better performance but lower price compared to peers.



Beyçiğim Sokak No:11 Kadıköy  
istanbul / TURKEY



+ 90 545 543 01 80



[www.nadirbranda.com](http://www.nadirbranda.com)



[info@nadirbranda.com](mailto:info@nadirbranda.com)



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