

# Lattice Arch SUPPORT

## Product description

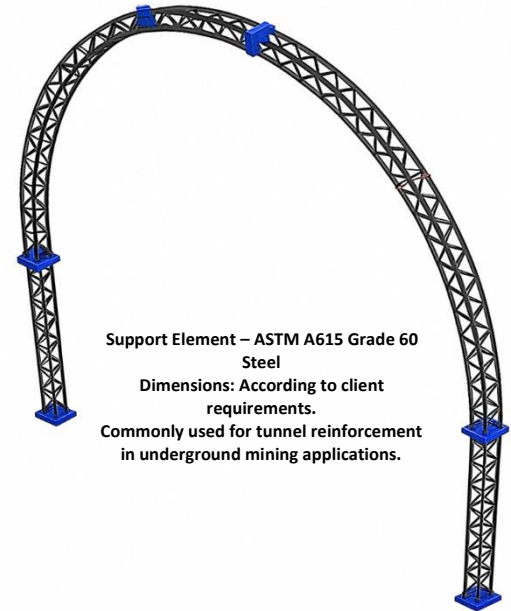
FORMIN's lattice shoring systems are structures made from structural steel (corrugated bar ASTM A615-G60). The framework is assembled through a controlled welding process to ensure strength and reliability.

The final product consists of arched segments of variable length, bolted together to form a complete ring along the tunnel perimeter. The main function of our lattice girders is to provide immediate support and safety to the surrounding ground, adapting as closely as possible to the tunnel excavation profile at the face.

Each unit is manufactured according to the design section specified in the client-approved drawings.

## Application

- ❖ Mainly used in permanent operations under conditions of extremely fractured and/or very weak rock, common in mining, tunneling, and other underground civil works.
- ❖ One of the best choices due to its excellent mechanical strength and deformation capacity, which help counteract tunnel convergence and prevent premature failure.
- ❖ Ensures optimal adherence and full interconnection with the shotcrete lining.
- ❖ Offers easy adaptation and precise fit to the excavation geometry.
- ❖ Functions as a continuous support system, maintaining effectiveness even after significant ground deformations have occurred.



## Technical Characteristics of the Bar

Standard / Grade	Carbon (C) %	Manganese (Mn) %	Phosphorus (P) %	Sulfur (S) %	Silicon (Si) %	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
ASTM A615-60	0.386	0.929	0.036	0.037	0.200	420	620	11 - 14

Las Uniones de las secciones se hacen mediante:  
Placas de Acero ASTM A36 y Pernos G8.

