



Why choose Bekaert?

Your wire transformation and coating specialist

No matter what shape, composition or mechanical characteristic your steel wire application requires, with over 135 years of experience, we have the flexibility and technical know-how to comply.

The experienced producer of steel wire building products

Whatever your design is, we can help you build it. Our wire solutions for the construction industry include a wide selection of strands, fibers, meshes, fences and customized products.

Customer-driven innovation

Together with customers and independent research partners, we are able to create new solutions that keep up with industries' evolving needs. Our in-house engineering department develops machinery, testing and process equipment to bring those new products to reality.



Worldwide service. World-class quality.

Bekaert is a leading producer of low relaxation PC wires and strands. With production facilities and sales offices strategically located across the globe, we are able to deliver consistent quality, reliable service, competitive pricing and just-in-time service, wherever you are.

Contact us

More Information?

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@ **BEKAERT**

better together

Low relaxation
PC steel wires
and strands

Full range. Better structures.



Increase the performance and lifetime of your concrete structure with Bekaert PC strands and wire. As an experienced producer of steel wire solutions, we fully control the quality our products; from wire drawing and coating to stranding and testing. We offer a full range of PC strand solutions, which have been thoroughly tested and certified according to industry standards.

Build better structures. Rely on Bekaert.

Developing your business together

We see our customer relation as a partnership facing a common and stimulating challenge: to create stronger, better and cost-efficient concrete structures. Together we can create the perfect wire or strand that meets both current and future quality and design requirements of the construction industry.

Adding value to your strands

An important part of our R&D and sales support work is to discuss and support you, our customer, in defining the perfect strand for your application. We focus on developing new production processes and testing procedures to satisfy the emerging needs and requirements of you and your customers.

Bekaert follows various control procedures including online production control and extensive lab testing (e.g. fatigue testing). Our research team also work closely with our customers and partners to develop and perform customized tests.

Our partners



Discover the benefits of galvanized PC strand

Corrosion is the number one cause of failure in steel-reinforced structures. Galvanized PC strand provides tangible cost benefits to structures by increasing overall lifetime, reducing maintenance needs, improving aesthetics, and providing more durability during installation. Galvanized strand can be used in long-span bridges, post-tensioned structures or in prestressed concrete to combat premature failures.



Choose your properties

Bekaert has a wide range of capabilities to fine-tune the mechanical features of strands. These include different compositions, shapes, coatings, relaxation classes and diameters.

	Plain
Shape	Compacted
	Indented
Relaxation	< 2.5 % R2
	Bright
Coating	Galvanized
	Bezinal® 3000
	Wax
Filler	Grease
Sheathing	HDPE
Wire diameter	3-8 mm
Strand diameter	8.0-20.0 mm
	0+2 0+3 1+6 3x 1+6 1+6+12 7x7
Construction	

Types of strands

Plain strand		
Compacted strand		
Unbonded strand		
Compacted unbonded strand		
Bonded strand		

Value-added packaging

In addition to our extensive packaging options, Bekaert also offers special UV protection and the application of anti-corrosive agents for better on-site storage.



FITNESS FOR DOWNSTREAM PROCESSING

The consistent dimensions and high ductility of Bekaert PC wires enable smooth downstream processing (e.g. stranding and compacting). We are also able to meet more demanding customer requirements in terms of coat weight, dimensional tolerances and mechanical properties.

To guarantee the uncompromised quality of our products, Bekaert's production processes are ISO 9001 and ISO 14001 certified. Standards to which Bekaert's prestressing wire and strands comply are ASTM A416, BS 5896, prEN 10138 – 2 (wire) and prEN 10138 – 3 (strands).



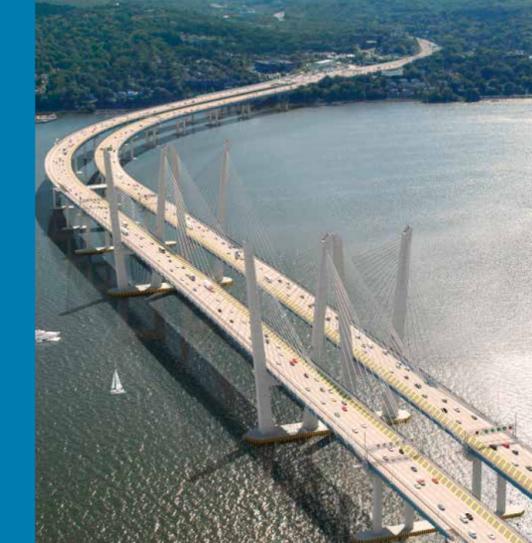
BEKAERT PC STRANDS IN PRACTICE

Challenge

The Tappan Zee Bridge is a new and state-of-the-art cantilever bridge in the US state of New York. While designing the pile caps on which the bridge rests, engineers needed a unique reinforcement solution that would help ensure the goal of +100-year bridge-life.

Solution

New York State Thruway Authority Approved the use of Bekaert galvanized PC strand based on its proven performance, certified quality and domestic manufacturing.



A wide application range

Bekaert develops and manufactures prestressing wires and strands for a wide range of concrete applications. Our main applications include railway sleepers, poles, beams, girders, prestressed concrete slabs, LNG tanks, water reservoirs, ground anchors, stay cables, wind mills and bridges.



LNG tanks

As proven by certified external laboratories, Bekaert strands maintain their mechanical properties at cryogenic conditions below -165°C. This makes them suitable for the construction of LNG tanks.



Post-tensioned structures

Bekaert plain or compacted strands are the ideal component for large concrete post-tensioned structures such as bridges and containment buildings. As per your request, we can apply wax, grease and HDPE.



Precast elements

Bekaert PC wire and strands feature consistent mechanical properties and are widely used for production of various precast elements, including structural members.



Cable mining bolts

Smooth and indented cable mining bolts provide critical stabilization for excavators. Bekaert's reinforcing strand has the flexibility, high resistance and low linear weight needed to anchor closed or open-pit structures. Our bolts are available uncoated or galvanized and can be used as tensioned or untensioned anchors.