



BEKAERT

better together

Prestressing Strand for Concrete Reinforcement

Local Production. Global expertise.

Benefits

① Made in USA

② Full DOT Compliance

③ Responsive Customer Service

Why choose Bekaert?

Versatility for concrete reinforcement

Bekaert's low relax 7-wire prestressing steel stand is ideal for structural reinforcements in construction industry applications. For precast components like bridge decks, beams, retaining walls, piles, pile caps and others, 7-wire strand provides strength and durability by reinforcing your structures with dependable domestic material.



Commitment to Quality and Safety

From product delivery to material regulatory compliance, Bekaert is committed to developing steel transformation solutions that help our customers deliver projects built for strength, durability, and longevity.

Creative Solutions to Customer Needs

Our PC Strand products are featured in some of the industry's most recognizable structures, including New York's Tappan Zee Bridge and applications such as HCB and the Halls River Bridge Replacement project in Florida.

Your Preferred Supplier

Bekaert knows the North American concrete reinforcement, highway construction, and precast market. We have been manufacturing the North American market for more than 25 years. Our responsiveness to our customers, commitment to quality, and innovation in product development make us a preferred provider for US-made steel reinforcement products.

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

Project-Ready Steel Solutions

- **Quality** - industry-leading product safety and quality manufactured to recognized ISO standards.
- **Innovation** - in-house R&D and close partnerships with customers means continuous improvement of existing products and consistent development of new solutions.
- **Efficiency** - in-stock materials, on-time delivery, and exceptional logistical support that produces lower transportation costs.
- **Compliance** - meets or exceeds ASTM A416 standards, DOT regulations, and Buy American provisions.
- **Support** - highly experienced engineering and technical support staff respond quickly and authoritatively to customer questions and needs.

Technical specifications

| Grade | Nominal ^a | | | Specified | | | | | |
|-------|----------------------|------------------------------------|--------------------------|----------------------------|---------------------------|--|--|--|--|
| | Strand diameter | Strand area | Linear weight | Strand tolerance | Minimum breaking strength | Minimum diameter difference between king and wrap wire | Minimum elongation in 24" gauge length | Hot dip metallic coatings | Minimum yield strength at 1% extension |
| | in mm | in ² mm ² | lbs/1000 ft kg/1000 m | in mm | lbs kN | in mm | % | oz/ft ² g/m ² | lbs kN |
| 270 K | 0.50" 12.7 | 0.153 98.7 | 520 780 | 0.526/0.494 13.35/12.55 | 41,300 184 | 0.003 0.076 | 3.5 | 0.10-090 ^b 31-275 | 37,170 165.3 |
| | 0.52" 13.2 | 0.167 108 | 570 840 | 0.546/0.514 13.85/13.05 | 45,000 200 | | | 0.10-0.90 31-275 | 40,500 180.1 |
| | 0.60" 15.2 | 0.217 140 | 740 1,100 | 0.626/0.594 15.85/15.05 | 58,600 261 | 0.004 0.102 | | 0.10-1.0 31-305 | 52,740 234.6 |
| | 0.70" 17.8 | 0.294 190 | 1,000 1,500 | 0.726/0.694 18.45/17.65 | 79,400 353 | 0.0045 0.114 | | 0.10-0.33 30-100 | 71,500 318 |

^a Nominal Elastic Modulus = 28.5 Mpsi (196 GPa).

^b 0.5" PC strand can be metallic coated with zinc or with Bezinal[®] zinc aluminum.

^c Coating weight specification per PTI stay cable specification DC45.1-12 appendix B.

Contact us

More
Information?

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