

## SUBMITTAL COVER SHEET

|          |
|----------|
| DATE:    |
| 4/9/2025 |

|                              |            |             |       |
|------------------------------|------------|-------------|-------|
| PROJECT SUBMITTAL #: 2241336 |            |             |       |
| Rice Rd Solar Project        |            |             |       |
| Specification Section        | Contract # | Submittal # | Rev.# |

## Project Information:

|                                             |                                                                                                       |                              |                    |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------|--------------------|
| <b>OWNER:</b><br>Abundant Solar Power, Inc. | <b>ARCHITECT:</b><br>LaBella Associates, D.P.C.<br>300 State Street, Suite 201<br>Rochester, NY 14614 | <b>CONSTRUCTION MANAGER:</b> | <b>CONTRACTOR:</b> |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------|--------------------|

## Submittal Information:

|                                           |                   |                    |                |                                |  |                        |  |
|-------------------------------------------|-------------------|--------------------|----------------|--------------------------------|--|------------------------|--|
| <b>SUBMITTAL NAME/DESCRIPTION:</b>        |                   |                    |                | <b>CONTRACTOR SUBMITTAL #:</b> |  | <b>SUBCONTRACTOR:</b>  |  |
| Fence Submittal                           |                   |                    |                |                                |  |                        |  |
| <b>SPECIFICATION:</b>                     | <b>PARAGRAPH:</b> | <b>DRAWING:</b>    | <b>DETAIL:</b> | <b>SUPPLIER:</b>               |  | <b>SUBSTITUTION:</b>   |  |
|                                           |                   |                    |                |                                |  |                        |  |
| <b>ACTION / INFORMATIONAL SUBMITTALS:</b> |                   |                    |                | <b>RECORD SUBMITTAL:</b>       |  |                        |  |
| Product Data                              |                   | Qualification Data |                | Field Test Report              |  | Warranty               |  |
| Shop Drawing                              |                   | Certificates       |                | Operation/Maintenance Data     |  | Attic Stock / Turnover |  |
| Sample                                    |                   | Warranty Sample    |                | As-built Drawing               |  | Other: _____           |  |
| Coordination Drawing                      |                   | Other: _____       |                |                                |  |                        |  |

## Contractor Review:

This submittal has been reviewed, checked and approved for compliance with the Contract Documents.  
 Any **substitutions / deviations** are noted below.

Signed: \_\_\_\_\_ Dated: \_\_\_\_\_

## Construction Manager Review:

This submittal has been received for coordination. Any observations noted below do not replace final review and acceptance by the Architect/Engineer of record.

Signed: \_\_\_\_\_ Dated: \_\_\_\_\_

## Architect/Engineer Review:

- |                                              |                                              |
|----------------------------------------------|----------------------------------------------|
| <input checked="" type="checkbox"/> Reviewed | <input type="checkbox"/> Revise and Resubmit |
| <input type="checkbox"/> Rejected            | <input type="checkbox"/> Furnish as Noted    |

Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

LaBella Associates, D.P.C.

Signed:  Dated: 4/9/25

## Architect/Engineer Comments:

|  |
|--|
|  |
|--|

**Rice Road Solar will  
have a total of  
3,874' of Deer  
Fence as noted  
below. This project  
will come with (01)  
20' wide Manual  
Double Swing Gate.**

 **BEKAERT**

better together

**Durable. Reliable.  
Lasting.  
Don't settle for less.**

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FENCING FOR THE LONG RUN.

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# Fencing For the Long Run

Forget constant repairs and replacements. When you put up a Bekaert fence, you're **FENCING FOR THE LONG RUN**. Whether you need a fence for your cattle, horses, sheep, goats, fields, or need to keep unwanted animals out, Bekaert's highly-durable, long-lasting wire fence can meet your unique needs. Designing and manufacturing agricultural fence products since 1880, we focus on delivering dynamic solutions and pride ourselves on manufacturing fences that are ready for a lifetime of challenges.

Each type of fence has an impact on the cost per foot, total cost, and annual ownership cost. Bekaert's team of experts offer unparalleled service to help you determine which fence is right for you as well as answer any questions about your fence project.

## Bekaert Fencing System

Additionally, we've proudly partnered with quality companies to bring you tools to help ease and speed up the fence installation process. The Bekaert Fencing System pairs the highest quality fence on the market with innovative products such as pre-installed joiners on select products, brace kits, wire joiners, and various tools. These partnerships help to simplify the entire process of installing, maintaining, and repairing your wire fence.

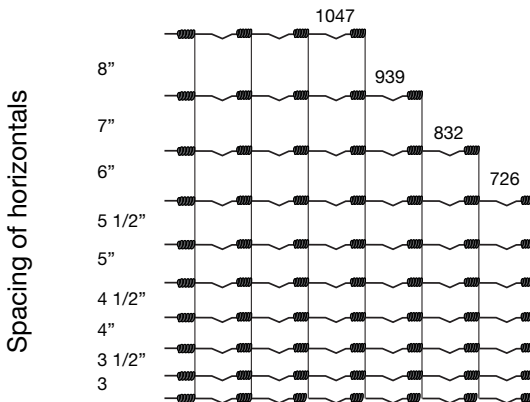


Find our partners on page 30.

# Reading a Fence Design

Woven wire is available in a variety of heights and configurations. All Bekaert fence products feature a fence design number. Understanding the components of the design number helps you better understand the product specifications of the design.

## How to read a fence design number:



Verticals spaced 6" or 12"

1047-6 12.5g 330' Class 3

- 10 = number of line wires
- 47 = height of fence in inches
- 6 = stay wire (horizontal) spacing in inches
- 12.5g = diameter of wire
- 330' = length of fence roll
- Class 3 = galvanization coating

# Why Use High-Tensile Wire?

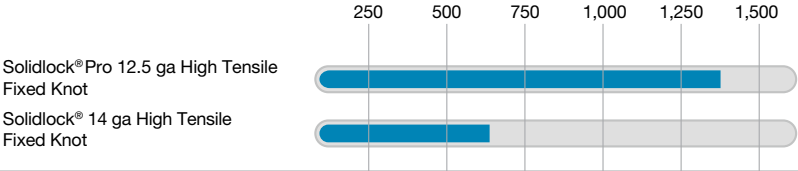
With an increased carbon content, high-tensile wire is stronger and less prone to elongation and sagging than its lower-carbon counterpart, which means less maintenance and repairs down the road. Plus, high-tensile wire is easy to install saving you money and time in your busy day. Bekaert offers several methods of fighting back that shield your fence from elements, increase its longevity and protect your investment for up to 40+ years.

## Professional Strength

When you need the strongest wire on the market, our professional products Gaucho® Pro, Solidlock® Pro and Cattleman® Pro are the way to go. These high quality products offer peak performance, minimal maintenance, and have superior breaking strength. They are perfect for large or more aggressive livestock that are prone to rub against it, root under it or run into it at high speeds.

- High tensile wire
- Highest breaking strength
- Lowest total cost of ownership per foot
- Least sag and stretch compared to standard low carbon fencing wire
- Longest lasting, fewer repairs, and less maintenance

**Fixed Knot Breaking Strength (in pounds)**



# Protection For Your Fence: Coating

Fencing is an investment, and like any investment, you want to get everything you can out of it for as long as possible. However, there are many factors that can reduce the lifespan of your fence. Everything from rain and snow to humidity, salt, chemicals and even sand can damage your wire. Bekaert offers several methods of fighting back that shield your fence from elements, increase its longevity and protect your investment for up to 40+ years.

# Bezinal®

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Guaranteed to protect your fence wire for at least 30 years on many of our products. Refer to specific product specifications for coating offerings.



Bezinal® was designed, developed, and produced exclusively by Bekaert. Consisting of advanced zinc-aluminum, Bezinal® outperforms galvanized coatings by at least 3 to 1 (for the same coating weight).

# Knots

One knot does not function the same as another. That's why Bekaert offers a variety of knots. So whether you need to keep livestock in, keep other animals out or are looking for something based on aesthetics, you'll get just the right fit for your project.

## Fixed Knot

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Fixed knots are tough enough to stand up to animal damage, and durable enough to last through increased pressure, high winds and snow loads. That's why it's the number one choice for professional installers, but easy enough to install for all. The fixed knot utilizes a third wire that is formed around the crossover points of the horizontal line and the one-piece vertical stay wires for added strength. Fixed knot provides superior strength and allows for increased post spacing. It's the best choice for an all-around, all-animal application.



# Fixed Knot Fence



Fixed Knot

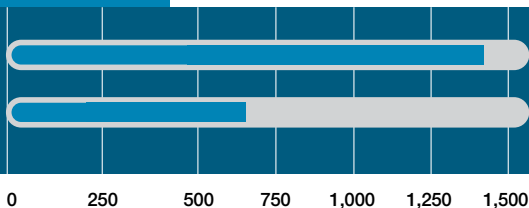
## Benefits

- best option for nearly all animal applications
- maximum strength: the knot firmly ties the line and stay wires together
- smaller openings at the bottom designed to prevent predator entry and small animal escape
- increased post spacing thanks to the solid vertical wire design combined with a high strength-to-weight ratio

### Fixed Knot Breaking Strength (in pounds)

**Solidlock® Pro 12.5 ga**  
High Tensile Fixed Knot

**Solidlock® 14 ga**  
High Tensile Fixed Knot



Select Solidlock® products include pre-installed Gripple joiners.  
Check with your local dealer or Bekaert Sales Representative for details.

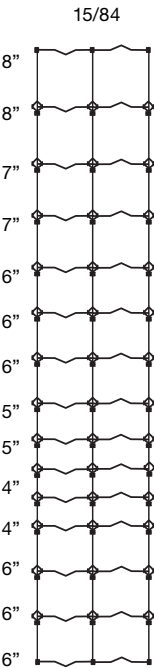
Solidlock® Pro Fixed Knot Game Fence



| Part # | Fence Design | Height | Vertical Spacing | Roll Length | Wire Gauge | Roll Weight | Coating  |
|--------|--------------|--------|------------------|-------------|------------|-------------|----------|
| 656445 | 1584-6       | 84"    | 6"               | 330'        | 12.5 ga    | 310 lbs     | Bezinal® |

**Solidlock® Pro 12.5 ga Game Fence**

Available in 6" stay spacing; select sizes available with 3" stay spacing.



# Staples / Fasteners



## Bekaert Barbed Staples

| Part # | Description      | Wire Diameter | Coating  | Package      |
|--------|------------------|---------------|----------|--------------|
| 162837 | 2" double barbed | 8 ga          | Bezinal® | 50 lb bucket |

Brace Kits

| Part # | Product                         | Description                                                                                                                                         | # of pieces | # of pieces in Case Qty | Box Weight (lbs) |
|--------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|------------------|
| 288591 | BeFAST Brace Kit, 16.5ft (Bulk) | 16.5' of 5/32" thick, 1x19 strand cable with pre-ferruled loop and Large Gripple. Designed for high load vineyard and H-Brace fencing applications. | 1           | 40                      | 35               |

At Bekaert, it's our ambition to be your preferred supplier of steel wire products and solutions. Together with you, we look how we can create more value to make your business grow. With over 140 years of experience and 27 000 skilled employees, you can rely on us to meet your needs. Our global presence and activities in mobility, construction, energy & utilities, lifting and agriculture mean we are always within reach to offer a solution that is innovative, durable and cost efficient.

## FENCING FOR THE LONG RUN.

f / bekaertfencing  
YouTube.com/BekaertFencing



More  
information?

[fencing.bekaert.com](http://fencing.bekaert.com)

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Building 500; Suite 100  
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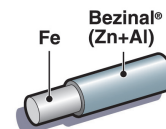
Responsible editor:  
SA Bekaert NV - 05 2021



# Bekaert®

## Bezinal® Coated

## High Tensile Fixed Knot Fencing



### Features

- Solid vertical stay wires
- Bezinal® coating
- High tensile steel wires

### Benefits

- Locks together line and stay wires for maximum strength.
- Superior corrosion resistance (2x better than class 3 galvanized wire)
- Maximum strength  
Reduced sagging and elongation  
Easier installation  
Increased post spacing  
Lower maintenance

**Bekaert Corporation**  
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Building 500, Suite 100  
Marietta, GA 30067

[bekaertfence.com](http://bekaertfence.com)



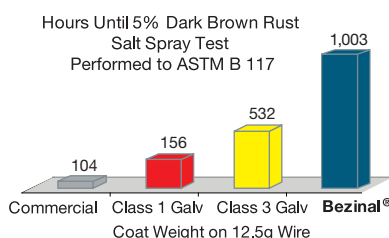
**MADE IN THE USA**

### Superior Coating Technology

Initially developed for the telecom industry in the 1990's due to demand for a longer lasting coating. Bekaert Bezinal® Coating stands up better than any other coating, including Class 3 Galvanized. You never have to be concerned on how Bezinal Coating will perform. Bezinal will outperform Class 3 galvanization in all areas where coating is important:

- ✓ More Corrosion Resistant
- ✓ Better Self-Healing
- ✓ Higher Resistance to Chipping and Flaking
- ✓ Maintains Appearance

In other words, it last longer, looks better, and is more cost effective (less money per foot of wire).



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All Bekaert plants that produce Bekaert® Bezinal® coated fixed knot fences hold an ISO 9001 certificate.

# ***Wood Treated Right***



***Build a dependable fence with a dependable product!***

## **Committed to Quality**

Wolmanized® wood is poles, piles, timbers, posts, or plywood that is pressure treated with CCA preservative to provide structural protection from termites and fungal decay. For 75 years, CCA treated wood has been specified in a wide variety of applications.

Keystone Fence Supplies is committed to producing quality treated products that meet AWPA standards. A strict quality control program and on site lab ensure correct chemical penetration and retention. Available support from Arch Wood Protection guarantees accuracy.

CCA treated wood products, when used as directed, offers decades of service, is safe to handle, safe to work with, safe for animals, and safe for the environment.

# Forest to Fence Line

Keystone Fence Supplies controls the entire manufacturing process of their agricultural fence posts. This allows them to provide a top of the line product.

The process starts by selecting southern yellow pine trees in the forest. Keystone Fence Supplies then cuts the trees to length and runs them through a specialized post peeler. After being examined for quality, they are set aside to air season until dry.

The fence posts are then sent to a CCA wood preserving facility. After pressure treatment, the fence posts are ready to be installed in agricultural fencing applications.

## Post Specifications

- Species: Southern Yellow Pine
- Chemical: CCA-C
- Retention: .40pcf ground contact
- Treated to AWWPA Standards
- Approximate 30 year service life

## Loblolly Pine vs. Other Pine Species

Loblolly Pine is one of several pines native to the Southeastern United States. The wood industry classifies Loblolly Pine as a southern yellow pine. Loblolly Pine is the preferred choice for fence post manufacturing because it is easy to peel, easy to treat, and the strength characteristics exceed those of other popular tree species. Other species of trees also have symmetrical knots which cause the fence post to fail while driving it into the ground during installation.

| Tree Species   | Static Bending Modulus of Elasticity (E) | Compress. Parallel to Grain, Max Crushing Strength | Compress. Perpen. to Grain, Fiber Stress at Prop. Limit | Shear Parallel to Grain, Max Shear Strength |
|----------------|------------------------------------------|----------------------------------------------------|---------------------------------------------------------|---------------------------------------------|
|                | 10^6 psi                                 | psi                                                | psi                                                     | psi                                         |
| Pine, Loblolly | 1.79                                     | 7,130                                              | 790                                                     | 1,390                                       |

Line & Brace Posts will be 4"-5" x 14' long and Driven 4' into the ground  
Terminal & Gate Posts will be 5"-6" x 14' long and set in 4' concrete foundation

Source: U.S. Forest Products Laboratory

## What is CCA and How Does It Work?

### Chemical Composition of CCA-C

All Wolmanized® Heavy Duty™ wood is treated with CCA-Type C, which is composed of the following:

|                                           |       |
|-------------------------------------------|-------|
| Hexavalent Chromium (CrO <sub>3</sub> )   | 47.5% |
| Copper (CuO)                              | 18.5% |
| Arsenic (As <sub>2</sub> O <sub>5</sub> ) | 34.0% |

The chemical used to preserve Wolmanized® pressure treated wood is a mixture of copper oxides, chromium, and arsenic, and is known as CCA. The preservative has been formulated to render wood useless as a food substance for termites and fungi while keeping the wood attractive, clean, odorless, non-staining, and safe to handle when used as directed.

Unlike commercially produced trivalent arsenic, the arsenic in Wolman® CCA is in the form of inorganic pentavalent arsenate, a naturally occurring trace element. In the treatment process, the pentavalent arsenate becomes fixed, or chemically bound, in the wood cells as highly leach-resistant insoluble precipitates.

# Wood and Metal Gates

KEYSTONE FENCE SUPPLY CO

Office: (717) 949-8170

Email: [sales@keystonefencesupplies.com](mailto:sales@keystonefencesupplies.com)

Internet: [www.keystonefencesupplyco.com](http://www.keystonefencesupplyco.com)

280 North Locust Street - Schaefferstown, PA 17088

## Heavy Duty 2x4 Wire Filled Gates

The Heavy Duty 2x4 Wire Filled Gate is coated with a zinc rich primer and has a black powder coat finish. Constructed with 1.9" 14 gauge tubing. 50" Height. 2x4 wire fill. Made in the USA.

Includes heavy duty hinges, two 3/4" HDG bolt hooks, and a locking spring loaded latch.



*Constructed 4" short of stated length to accommodate mounting hardware.*

## Heavy Duty Deer and Game Gates

The Heavy Duty Deer and Game Gate is coated with a zinc rich primer and has a black powder coat finish. Constructed with 1.9" 14 gauge tubing. 98" Height. 4x4 wire fill. Made in the USA.

This style gate includes an easy to operate door within the gate for easy access.

Includes heavy duty hinges, two 3/4" HDG bolt hooks, and a locking spring loaded latch.

**Gate Sizes:**

**Pair of  
10' - 810G44**



*Constructed 4" short of stated length to accommodate mounting hardware.*

**Total of (01)  
20' wide Manual  
Double Swing  
Gate**