06/07/2023

Attention:
Village of Bayside, WI
Architecture Review Committee

PROJECT/SITE OWNER:	PROJECT SUMMARY:
Fox Point-Bayside School District PROJECT ADDRESS: 601 Ellsworth Ln	Three types of fences 544 lineal feet 4' black vinyl chain link 450 lineal feet 4' black aluminum Majestic style 186 lineal feet 6' cedar privacy

I have reviewed the proposed new fences for compliance with the Village's ordinances and have determined the following for consideration.

1. The 544 lineal feet of 4' high black vinyl chain link fence complies with the ordinance.
2. The 450 lineal feet of 4' high black aluminum Majestic style complies with the ordinance. The applicant has supplied a flyer with several types of fences on it. They forwarded a sheet that had called out the Majestic style.
3. 186 lineal feet of 6' high cedar privacy fence, is in violation of the ordinance Sec. 104-125 a (9). They will have to request a variance for this fencing, to proceed with installation.
4. The board always considers matching fences with neighboring fences.

VILLAGE CODE REVIEW

Supporting documentation or testimony must be provide at the meeting to verify code compliance with the above observations in red.

Dave Hendrix
SAFEbuilt
Wisconsin Operations Manager

ECHELON PLUS®

Ornamental Aluminum Fence

ECHELON PLUS®
ORNAMENTAL ALUMINUM FENCE

INTERNATIONAL BUILDING CODE COMPLIANT **IBC**

Echelon Plus has taken the quality and performance of aluminum ornamental fencing to a higher level. The strength characteristics of the reinforced rail and posts, coupled with a superior powder coat finish, make Echelon Plus the most durable .75" ornamental picket product on the market.

The sleek design and superior quality of Echelon Plus is International Building Code (IBC) compliant.

- Exceeds all IBC 2018 Handrail & Guards load requirements
- Standard 8 ft. panels yield project savings
- Redesigned rail for increased strength and maximum load capacity
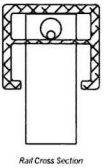
FORERUNNER® LOCKING SYSTEM

Ameristar reengineered the Echelon Plus ForeRunner rail to maximize strength. The innovative design of the ForeRunner rail contains an internally-secured rod that allows for variable pitch connection and high-angle biasability and eliminates the need for external fasteners.

Rail Cross Section

Increased security

The ForeRunner rail, with an internal retaining rod, prevents the attachment from being compromised. Fasteners are not exposed.
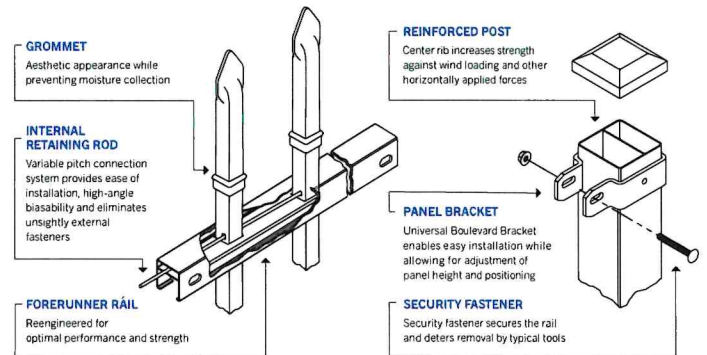
Aesthetic details

The "Good Neighbor Design" rod follows the ForeRunner centerline, providing a clean and uninterrupted look void of visible screws or rivets.
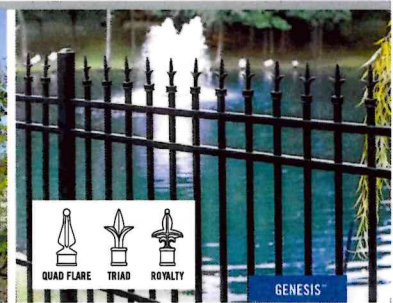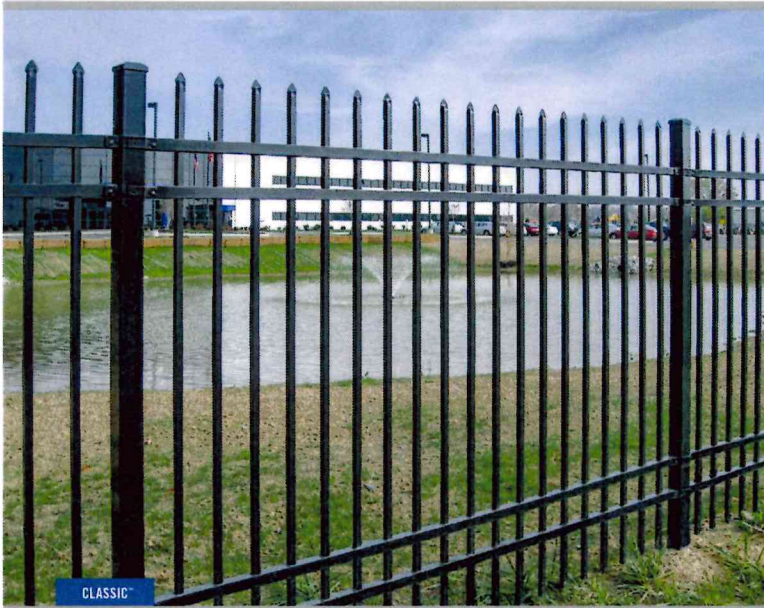
RAKEABLE VS STAIR-STEP

Having a unique picket to rail connection allows Echelon products a minimum biasability of 10%, eliminating any possible security risks due to large gaps under the fence panels.

FULLY RAKEABLE PANELS

STAIR-STEPPING PANELS

GROMMET
Aesthetic appearance while preventing moisture collection

INTERNAL RETAINING ROD
Variable pitch connection system provides ease of installation, high-angle biasability and eliminates unsightly external fasteners

FORERUNNER RAIL
Reengineered for optimal performance and strength

REINFORCED POST
Center rib increases strength against wind loading and other horizontally applied forces

PANEL BRACKET
Universal Boulevard Bracket enables easy installation while allowing for adjustment of panel height and positioning

SECURITY FASTENER
Security fastener secures the rail and deters removal by typical tools

NO RIVETS. NO SCREWS. NO WELDS.

PICKETS	RAILS	POSTS	HEIGHTS
.75" SQ. x .045"	1.4375" x 1.25" x (.110" SIDE / .090" TOP) **FORERUNNER® RAILS**	2.5" SQ. x .060" *With reinforced internal web.*	3', 3½', 4', 4½', 5', 6' *Custom heights also available.*

CLASSIC™

MAJESTIC™

GENESIS™

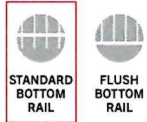QUAD FLARE TRIAD ROYALTY

CONQUEROR™

WARRIOR™

STYLES

CLASSIC™ MAJESTIC™ GENESIS™ CONQUEROR™ WARRIOR™

Note: Classic, Majestic, Genesis & Warrior 3- & 4-rail panels are IBC compliant.

BOTTOM OPTION

STANDARD BOTTOM RAIL FLUSH BOTTOM RAIL

PANELS

3-RAIL & 4-RAIL PANELS AVAILABLE

COLORS

BLACK BRONZE WHITE
Custom colors also available.
Refer to color sample for actual color.

ADORNMENTS

BALL CAP RING *(internally secured)* BUTTERFLY SCROLL

POOL & PET PERFORMANCE

In many cases, particularly in relation to pool safety, a **specific rail spacing** is essential, while the containment of small pets requires a **narrower picket spacing**.

NOTE: Monarch 2-rail 4' ht. panels are available and IBC compliant.

GATE SYSTEMS

From swing gates for pedestrian or vehicle access to sliding gates for high-functioning points of entry, each of these gate systems is individually constructed to provide project-specific performance.

WALK GATE

TRANSPORT™ SLIDING GATE
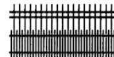
ARCHED GATE

ESTATE GATE

PUPPY PANELS

Echelon Plus Puppy Panels reduce the space between pickets to less than 2" up to a height of 2' above ground.

CLASSIC™ **MAJESTIC™** **GENESIS™**

NOTE: 4-rail Puppy Panels are IBC compliant.

Echelon fence systems are protected to endure the elements and are maintenance free

Pc PROTECTED BY POWDER COATING

Echelon fence systems are backed by over 40 years of excellence in the fencing industry.

LIFETIME WARRANTY

Ameristar is committed to providing products that meet the Buy American Act.

MEETS BUY AMERICAN ACT

Why Choose Ameristar?
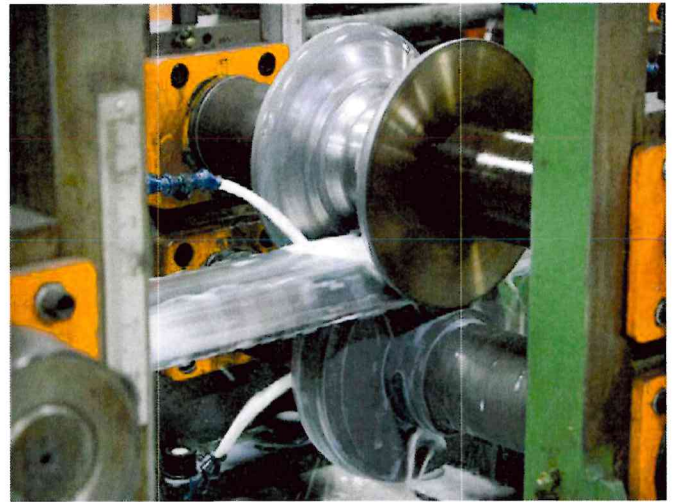
KNOWLEDGE AND EXPERIENCE

For over 40 years we've delivered aesthetically pleasing, high-quality and innovative fencing products with superior design strength and easy installation.

PROVEN CAPABILITIES

Our integrated in-house processes, extensive raw materials and finished goods inventory translate into quality, on-time delivery.

INDUSTRY LEADERSHIP

We continually raise the bar in manufacturing customer-focused solutions. Our high standards produce premium products that go beyond merely meeting minimum industry standards.

FENCE PRODUCTS

AMERISTARPERIMETER.COM | 888-333-3422

Experience a safer and more open world
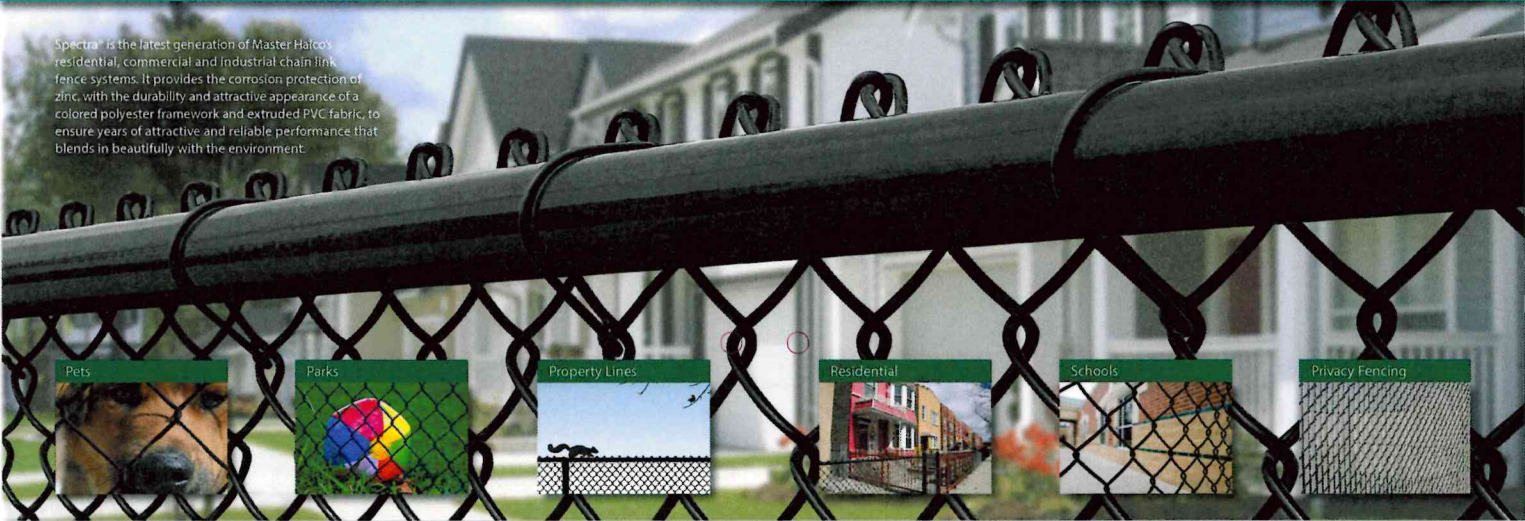
#9729-2023

AMERISTAR®

ASSA ABLOY

![Master Halco logo] MASTER HALCO®

Spectra® Chain Link

Spectra® Color Chain Link... *Made to perform.*

Spectra® is the latest generation of Master Halco's residential, commercial and industrial chain link fence systems. It provides the corrosion protection of zinc, with the durability and attractive appearance of a colored polyester framework and extruded PVC fabric, to ensure years of attractive and reliable performance that blends in beautifully with the environment.

Pets Parks Property Lines Residential Schools Privacy Fencing

Our Spectra® Fencing System
Premium quality frame and fabric is guaranteed for 15 years.

15 Year Warranty

Features and Benefits:

- Zinc-coated steel framework is thoroughly cleaned during the pre-treatment process, then color coated with a 3 mil minimum polyester layer for protection from corrosion.

- All galvanized wire has a 15 mil minimum extruded polyvinyl chloride coating for dual protection from corrosion and the elements.

- Fittings are made of galvanized steel with a 3 mil minimum of polymer layer for protection from corrosion.

Available Colors
Choose from 3 serene colors that blend in perfectly with the environment. Spectra® defines property lines, and will add value to any residential or commercial property.
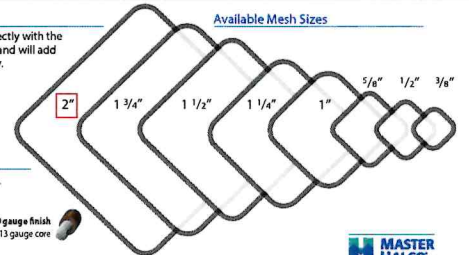
Midnight Black   Forest Green   Sierra Brown

Available Wire Gauges (Finish and Core)
Use the finish gauge number when ordering.

6 gauge finish
9 gauge core

8 gauge finish
11 gauge core

9 gauge finish
13 gauge core

11 gauge finish
14 gauge core

Available Mesh Sizes

2"   1 3/4"   1 1/2"   1 1/4"   1"   5/8"   1/2"   3/8"

MASTER HALCO®

Spectra® Color Chain Link Recommendations

FABRIC

Spectra® polyvinyl chloride extruded over zinc-coated steel core wire.

FABRIC		Type 2 Residential	Type 2 Commercial
	Fabric Gauge	9 gauge and 11 gauge finish	6 gauge, 8 gauge, and 9 gauge finish 6 gauge is not available for 3/8" mesh or 1/2" mesh
	Fabric Mesh	1-1/4", 1-1/2", 1-3/4", and 2"	3/8", 1/2", 5/8", 1", 1-1/4", 1-1/2", 1-3/4", and 2"
	Fabric Height	3', 42", 4', 5', and 6'	3', 42", 4', 5', 6', 7', 8', 9', 10', and 12'
	Fabric Selvage	Knuckle - Knuckle (KK) for 5' and Under. Knuckle - Knuckle (KK) or Knuckle - Twist (KT) for 6'.	Knuckle - Knuckle (KK) for 5' and under; for mesh sizes 1" and smaller. Knuckle - Knuckle (KK) or Knuckle - Twist (KT) for 6' and over.

FRAMEWORK - TYPE 2

Spectra® polyester resin, 3 mils minimum, over galvanized steel ASTM F 1043, Group 1C, with a minimum yield strength of 50,000 PSI. Protective coating per ASTM 1043, external coating Type B, zinc with organic overcoat, 0.9 ounces per square foot minimum zinc coating with chromate conversion coating and verifiable polymer film.

		Type 2 Residential	Type 2 Commercial
	Top Rail	1-3/8" O.D. Spectra® 17 Gauge or 16 Gauge	1-5/8" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe
	Line Posts	1-5/8" O.D. Spectra® 17 Gauge or 16 Gauge	1-7/8" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe
			2-3/8" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe
	Terminal Posts	1-7/8" O.D. Spectra® 16 Gauge	2-3/8" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe
		2-3/8" O.D. Spectra® 16 Gauge	2-7/8" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe
			4" O.D. Spectra® Deluxe Quality (DQ) or Spectra® Full Weight Pipe

Gates

Fabric	Same Gauge and Mesh as Chain Link Selected
Frame	Same as Top Rail Selected

Fittings

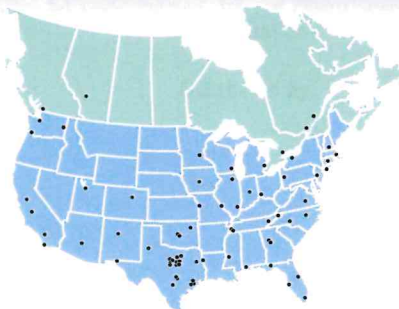| Tension and Brace Bands	Polymer Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Pressed Steel
Caps, Eye Tops, Rail Ends	Polymer Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Pressed Steel or Aluminum
Sleeves	Polymer Coating, 3 Mils Minimum, Over Hot-Dipped Galvanized Steel
Tie Wires	Polymer Coating, 3 Mils Minimum, Over Zinc-Coated Steel Wire

Slats - Privacy

Material Composition	Polyethylene Thermoplastic
Colors	Green, Black, Brown, Gray, Redwood, Blue, Desert Sand

MASTER HALCO®

MasterHalco.com | 888-MH-Fence

Branch service centers are located throughout North America.

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Find your local Master Halco branch and order today!

WESTERN RED CEDAR

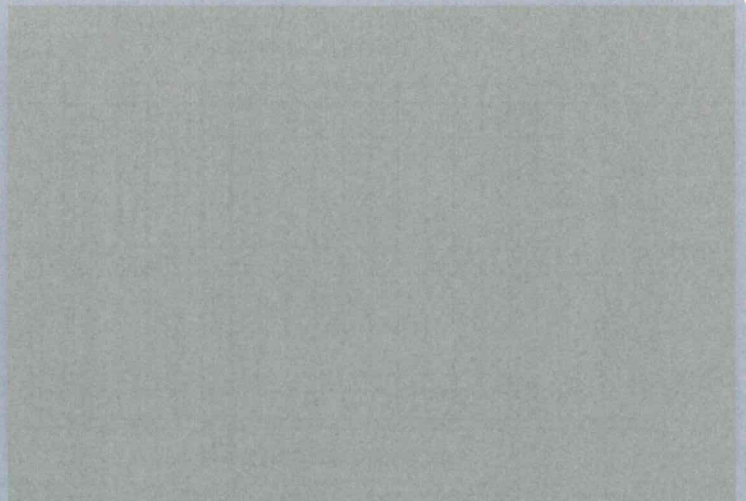Western Red Cedar's botanical name is Thuja plicata. Fence pickets, rails, and posts are one of the most decay-resistant Native American wood types with high durability when exposed to weather. Western Red Cedar is grown and harvested from sustainably managed North American forests. Western Red Cedar can be left natural, painted, or stained. Pre-Stained Western Red Cedar is available with a water-based stain that can be matched to your outdoor living environment.

Lengths: 4', 5', 6', 8'

Widths:	Nominal:	4"	6"	8"
	Actual:	3 ½"	5 ½"	7 ½"

Thickness:	Nominal:	1"	1"
	Actual:	5/8"	¾"

Grading: Fencing is appearance-graded and categorized by knot size/type and defect, which impacts the visual appeal and performance as a fence board. Boards are graded for 2-face appearance or 1-face appearance.

Availability for Western Red Cedar fencing is the United States and Canada. Typical Fences styles include Solid Board Vertical, Solid Board Horizontal, Board-on-Board, and Alternating Panel. Versatile and easy to work with, you can construct and install any fence style for your project. Longevity can be increased by installing the WRC boards and rails on a PostMaster Plus steel post for wood fence systems. Natural wood texture and colors range from rich amber to cinnamon brown and if left natural, it will age to a silvery grey.

8	7	6	5	4	3	2	1

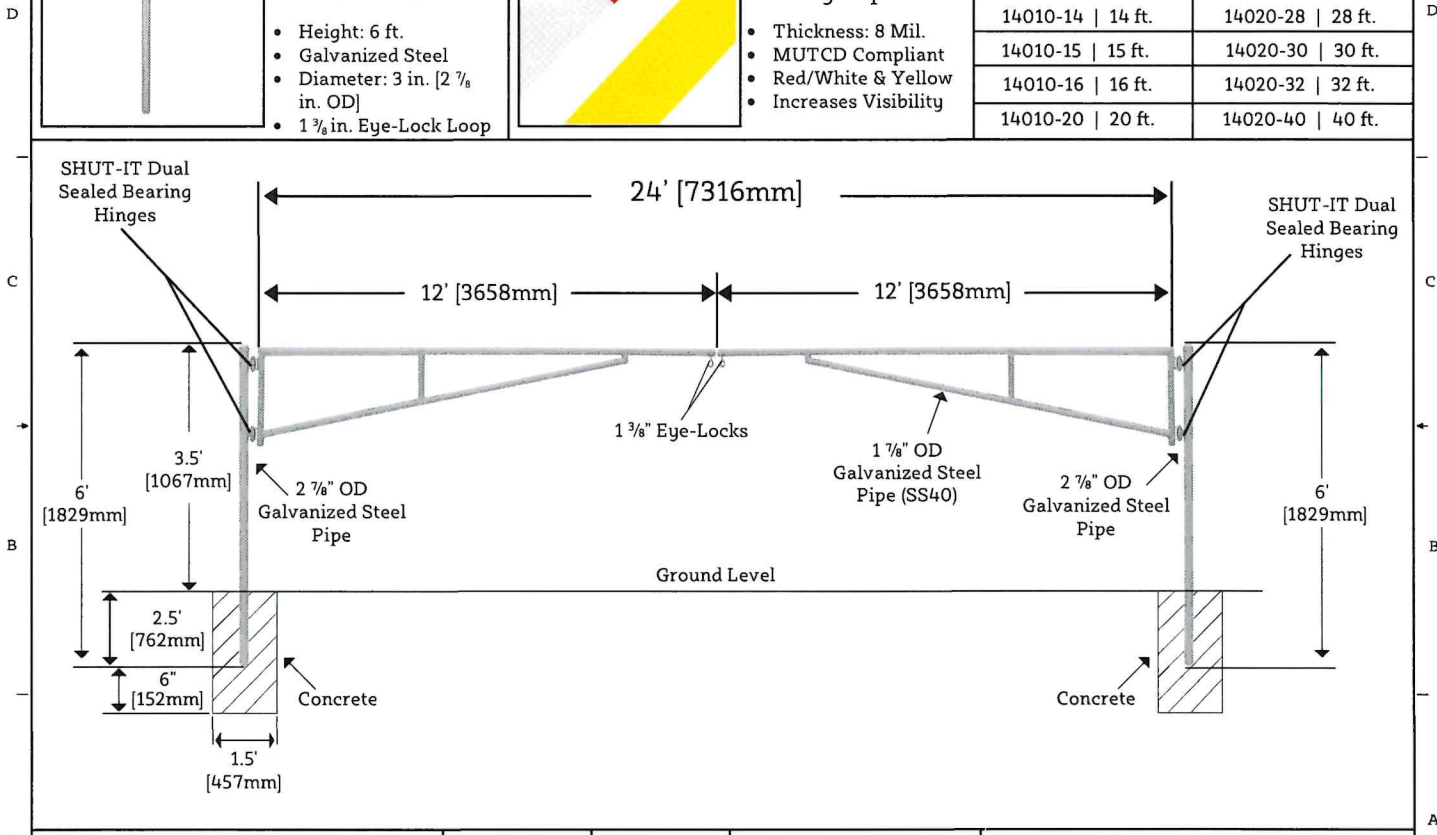**Optional Swing Gate Barrier Receiver Post - 14030R**

- Height: 6 ft.
- Galvanized Steel
- Diameter: 3 in. [2 ⅞ in. OD]
- 1 ⅜ in. Eye-Lock Loop

Optional Barrier Arm Gate & Post Safety Tape Kit

- Thickness: 8 Mil.
- MUTCD Compliant
- Red/White & Yellow
- Increases Visibility

Single Gate Models:	Double Gate Models:
14010-10 | 10 ft.	14020-20 | 20 ft.
14010-12 | 12 ft.	14020-24 | 24 ft.
14010-14 | 14 ft.	14020-28 | 28 ft.
14010-15 | 15 ft.	14020-30 | 30 ft.
14010-16 | 16 ft.	14020-32 | 32 ft.
14010-20 | 20 ft.	14020-40 | 40 ft.

SHUT-IT Dual Sealed Bearing Hinges

SHUT-IT Dual Sealed Bearing Hinges

24' [7316mm]

12' [3658mm]   12' [3658mm]

1 ⅜" Eye-Locks

2 ⅞" OD Galvanized Steel Pipe

1 ⅞" OD Galvanized Steel Pipe (SS40)

2 ⅞" OD Galvanized Steel Pipe

3.5' [1067mm]

6' [1829mm]

6' [1829mm]

Ground Level

2.5' [762mm]

6" [152mm]

Concrete

Concrete

1.5' [457mm]

Contact Information:		Manufacturer:	Part Number:	Product Description:	Product Specifications:
Web: www.TigerTeethStore.com Phone: (800) 878-7829 Email: Sales@TigerTeethStore.com		Barrier Gate Brands™	14020-24	SENTINEL 24 ft. Manual Double Swing Barrier Gate	• Width: 24 ft. • Material: Galvanized Steel • Installation Type: In-Ground • Barrier Gate Type: Manual Double Swing Gate

8	7	6	5	4	3	2	1