



ICC-ES Listing Report

Reissued October 2024

ESL-1435

This listing is subject to renewal October 2025.

CSI: DIVISION: 32 00 00—EXTERIOR IMPROVEMENTS
Section: 32 31 00—Fences and Gates

Product Certification System:

The ICC-ES product-certification system includes evaluating evidence in support of test data provided by the listee to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: CDH SECURITY FENCE

Listee: CDH CUSTOM ROLL FORM, LLC

Evaluation: The CDH Security Fence is a steel fence consisting of horizontal rails, vertical posts and pickets. The fence is assembled using temper resistant fasteners. The fence sections are connected together by using a fish plate and fasteners to connect horizontal rails. The CDH Security Fence comes in 8 foot (2.44 m) and 10 foot (3.05 m) heights. All cold formed steel parts of the CDH Security Fence have a galvanized coating. The CDH Security Fence must be installed with a maximum post spacing of 96 inches (2440 mm) measured from post center to post center. Figures 1 and 2 provide installation details of 8 foot and 10 foot fence. The CDH Security Fence was evaluated based on the following standards:

- ASTM F2408-11, Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets
- ASTM F2814-09, Standard Guide for Design and Construction of Ornamental Steel Picket Fence Systems for Security Purposes

Components of Assembly: Hadley Security Fence component description (See Figures 3 and 4).

Posts- The fence posts are formed from cold-formed steel 12 gage thick galvanized steel conforming to ASTM A653, Grade 50, Class 1 with a galvanized coating meeting ASTM A653, G-90.

Horizontal Rails- The rails are formed from cold-formed steel 12 gage thick galvanized steel conforming to ASTM A653, Grade 50, Class 1 with a galvanized coating meeting ASTM A653, G-90.

Pickets- The pickets are formed from cold-formed steel 14 gage thick galvanized steel conforming to ASTM A653, Grade 50, Class 1 with a galvanized coating meeting ASTM A653, G-90.

Fish Plate- The fish plate splices the rails together and are manufactured from 3/16-inch-thick hot rolled steel complying with ASTM A36. The plates are hot-dipped galvanized meeting ASTM A653, G-90.

Picket Fasteners- M8 fully threaded carriage bolt with break-away nut. The bolt and nut have a hot-dipped galvanized coating.

Rail Splice Fastener-M12 fully threaded carriage bolt with a break-away nut. The bolt and nut have a hot-dipped galvanized coating.

Findings: When installed in accordance with the Evaluation Section with the specified components, the CDH Security Fence meets the residential, light industrial (commercial) and industrial structural requirements of Table 2 of ASTM F2408. The CDH Security Fence described in this listing report complies with Table 1 of ASTM F2814.

Identification:

1. Packaging of the CDH Security Fence carries a label indicating the manufacturer's name, the product name, date and time code and the ICC-ES Listing Mark.
2. The report holder's contact information is the following:

CDH CUSTOM ROLL FORM, LLC
1300 PHOENIX ROAD NE
WARREN, OHIO 44483
(513) 847-4446
www.cdhrollform.com
gregg.stahl@clarkdietrich.com

Installation: The product must be installed in accordance with the CDH Custom Roll Form, LLC published installation instructions.

Conditions of listing:

1. The listing addresses only conformance with the standards noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing applies only to the materials tested and as submitted for review by ICC-ES.
4. The anchorage of the posts to resist any required loads are outside the scope of this listing report and must be designed by registered design professional.
5. The break-away nuts must be installed according to manufacturer's installation instructions.
6. Gate design or gate anchorage is outside the scope of this listing report.
7. Wind loading or seismic loading is not considered and is outside the scope of this listing.

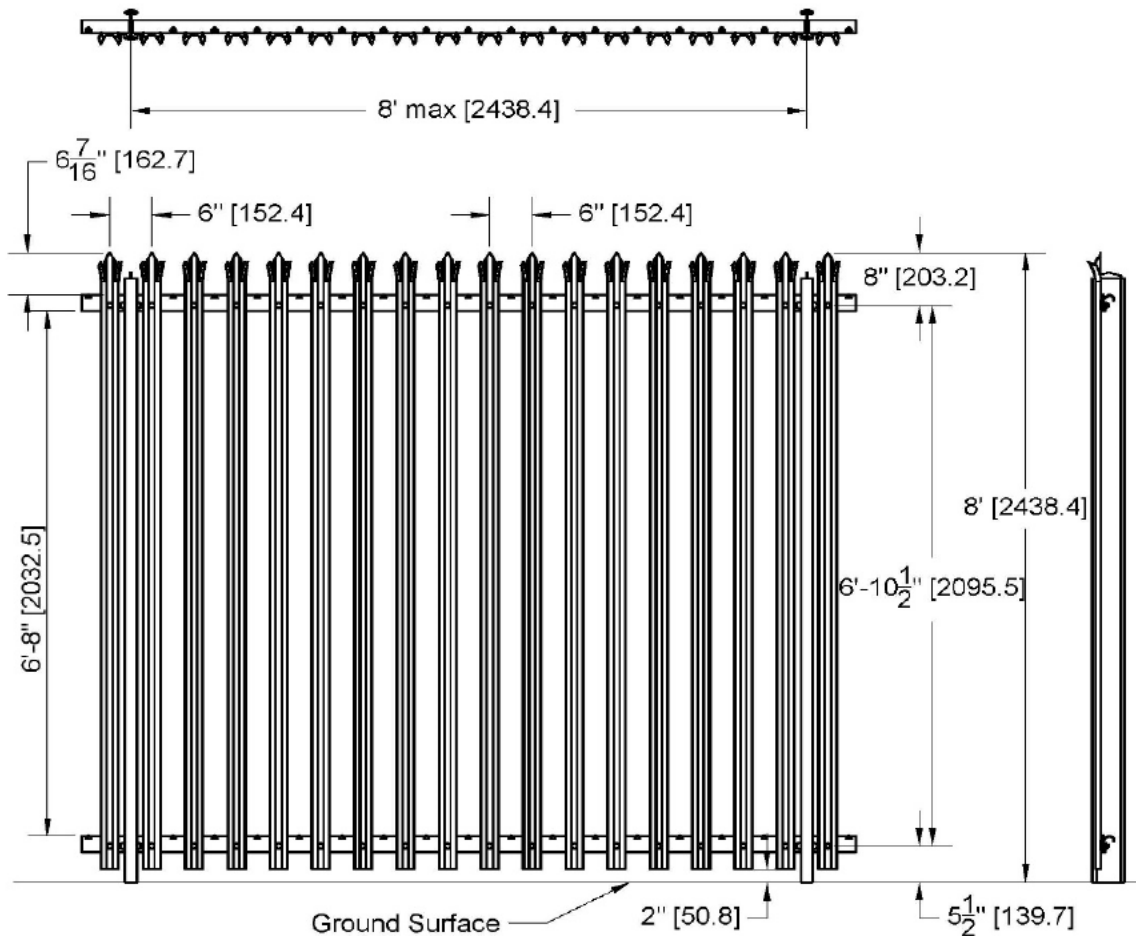


Figure 1- Typical Installation of 8-foot CDH Security Fence

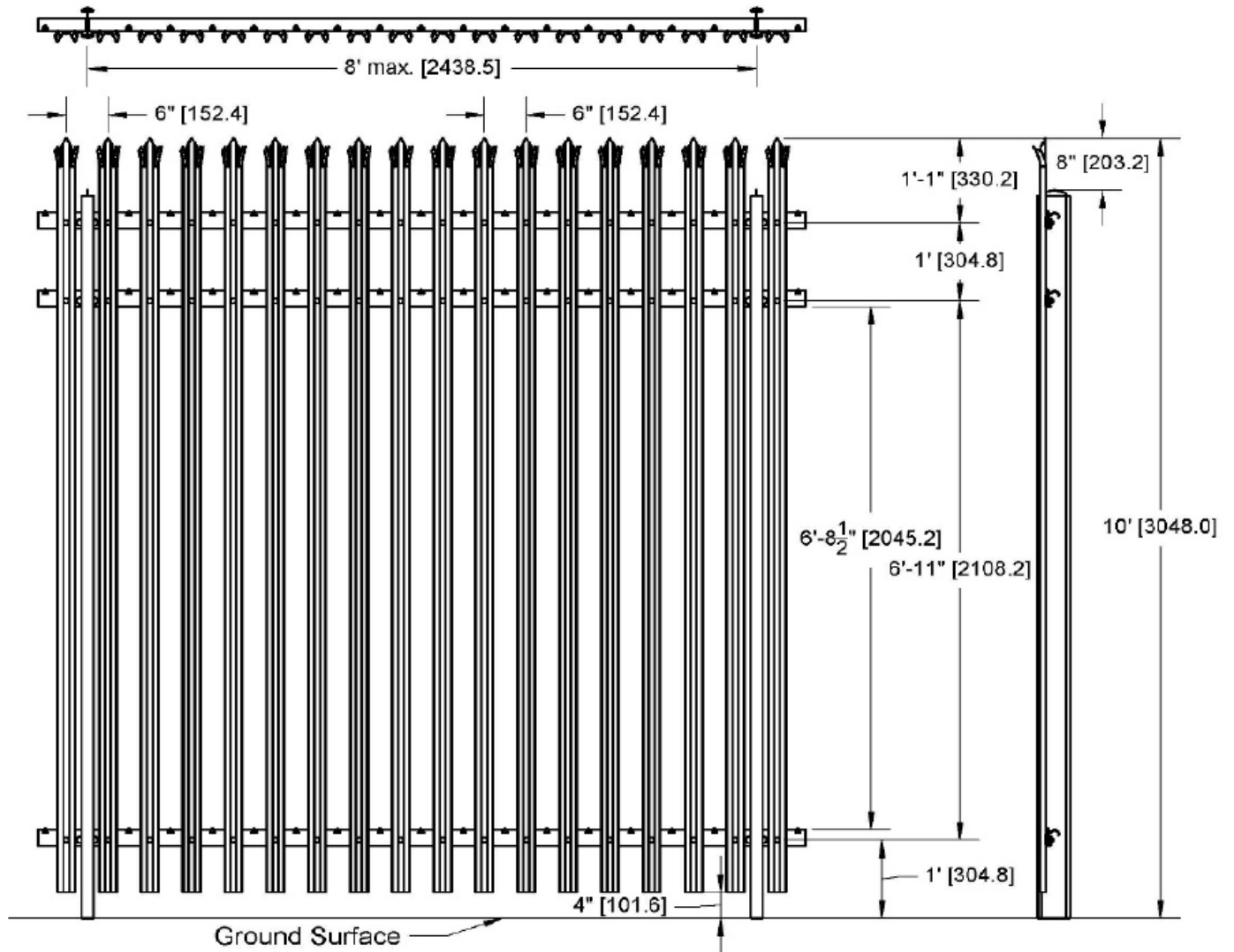
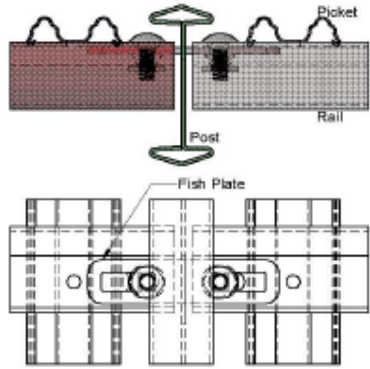
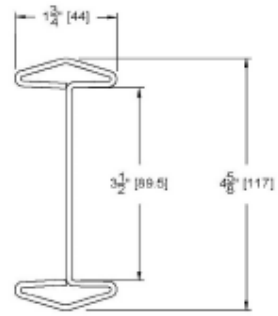


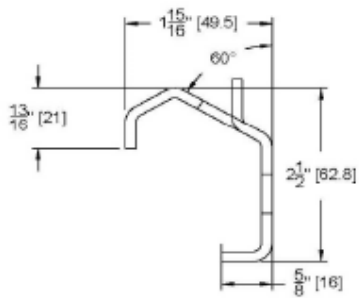
Figure 2- Typical Installation of 10-foot CDH Security Fence



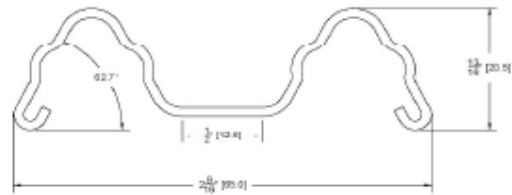
Rail Splice



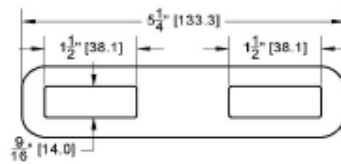
Post Cross Section



Rail Cross Section



Picket Cross Section



Horizontal Rails Splice Plate
Fish Plate

Figure 3- CDH Security Fence Components



M8 Carriage Bolt w/ Break away nut



M12 Carriage Bolt w/ break away nut



After break away nut is installed

Figure 4- M8 and M12 Break-away Nuts with Bolts