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**DIVISION: 06—WOOD AND PLASTICS**  
**Section: 06095—Nails**

**REPORT HOLDER:**

**TRACKERS INC.**  
**1513 EAST McFADDEN AVENUE**  
**SANTA ANA, CALIFORNIA 92705**  
**(714) 541-6851**  
[www.gotrackers.com](http://www.gotrackers.com)

**EVALUATION SUBJECT:**

**TRACKERS COLOR-CODED NAILS**

## 1.0 EVALUATION SCOPE

- 2003 *International Building Code*® (IBC)
- 2003 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)

**Properties evaluated:**

Structural

## 2.0 USES

The nails are used for engineered and non-engineered connections.

## 3.0 DESCRIPTION

### 3.1 General:

The nails are formed from steel wire complying with ASTM A 853, Grades 1015 through 1020. The nails have a smooth shank and a round head. The nails are plastic-collated, and have a color-coded head, coded to identify the nail diameter and length. See Table 1 for a list of color codes and recognized nail sizes.

### 3.2 Dimensions and Fastener Tolerances:

Nails described in this report conform with the dimensions and tolerances specified in ASTM F 1667, "Standard Specification for Driven Fasteners: Nails, Spikes, and Staples."

### 3.3 Nail Bending Yield Strength ( $F_{yb}$ ):

Nails formed from wire having a nominal diameter of 0.142 inch (3.6 mm) or less have a minimum average bending yield strength,  $F_{yb}$ , of 100,000 psi (689 MPa). Nails with diameters greater than 0.142 inch (3.6 mm), and up to 0.162 inch (4.1 mm), have a minimum average bending yield strength,  $F_{yb}$ , of 90,000 psi (620 MPa).

## 4.0 INSTALLATION AND DESIGN

### 4.1 General:

Nail edge distances, end distances, and spacings must be sufficient to prevent splitting of the wood, and must conform to design requirements in Part 11.1.5 of the 2001 National Design Specification (NDS) (IBC and IRC) or Section 12.4 of the 1991 NDS (UBC), and IBC Section 2304.9 or UBC Section 2318. The ANSI/AF&PA NDS-2001 is referenced in Section 2306.1 of the IBC, and in Sections R502.2, R602.3 and R802.2 of the IRC. The ANSI/NFoPA NDS-1991 is referenced in Section 2316 of the UBC.

Fasteners that are larger than specified for the intended use may be used for shear and diaphragm applications, provided consideration is given to avoiding wood splitting, in addition to restrictions on edge distance and spacing of the large-diameter fasteners.

### 4.2 Allowable Loads:

Allowable lateral and withdrawal loads for nails are as specified for nails having the same dimensions in the NDS or UBC Chapter 23, Division III.

## 5.0 CONDITIONS OF USE

The Trackers nails described in this report comply with those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Use of the nails must be in accordance with this report.
- 5.2 Use in chemically treated wood, such as pressure-preservative- or fire-retardant-treated wood, or exterior or exposed conditions is outside the scope of this report.
- 5.3 When required by the code official, calculations demonstrating that the applied loads are less than the design values in this report must be submitted for approval. Calculations must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Nails and Spikes (AC116), dated February 2005.

## 7.0 IDENTIFICATION

The nails are packaged in containers or cartons bearing the Trackers name; the evaluation report number (ESR-2040); the Trackers brand name; and the nail description (type, length, and diameter or gage). The heads of individual nails are colored as noted in Table 1.

TABLE 1—TRACKERS COLOR-CODED NAILS<sup>1</sup>

SIZE [length × diameter (inches × inch)]	COLOR
$2\frac{2}{8} \times 0.113$ (8d cooler)	Yellow
$2\frac{1}{2} \times 0.131$ (8d common)	Blue
$3 \times 0.131$	White
$2\frac{1}{8} \times 0.148$	Pink
$2\frac{1}{4} \times 0.148$	Grey
$2\frac{3}{8} \times 0.148$	Lime
$3 \times 0.148$ (10d common)	Purple
$3\frac{1}{4} \times 0.131$	Black
$3\frac{1}{2} \times 0.135$ (16d box)	Red
$3\frac{1}{4} \times 0.148$ (16d sinker)	Green
$3\frac{1}{2} \times 0.162$ (16d common)	Orange

For **SI**: 1 inch = 25.4 mm.

<sup>1</sup>All nails have a smooth shank.