



Product Evaluation Report

PER-07021

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Progressive Engineering Inc.

Initial Listing
September, 2007

Re-Approved
11/30/09

58640 State Road 15
Goshen, Indiana 46528

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Listed Product
SurePin® Pneumatic Fastener
Listed For
Aerosmith Fastening Systems

5621 Dividend Road
Indianapolis, IN 46241

Progressive Engineering Inc. is an accredited Testing Laboratory and Third Party Quality Control Agency. This **Product Evaluation Report** represents a product that Pei has a follow-up service agreement with. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Aerosmith Fastening Systems** of their liabilities for this product. Pei is accredited to ISO Standard 17020 and 17025. This **PER** is an official document if it is within one year of the initial or renewal date.

Product Manufacturing

The SurePin® Fasteners are manufactured by independent companies. Any company manufacturing product for Aerosmith, that is intended to be listed by this PER, has an agreement in place and has been previously inspected and approved by Pei.

Listing Details

SurePin® Fasteners are pneumatically driven steel pins used to attach cement fiberboard siding direct to concrete block. The smooth portion of the shank must be embedded into the concrete at least 3/4" - 1" for good depth penetration into the concrete.

Product Description

The **SurePin® Fasteners** are manufactured from AISI 1060 steel, heat treated to a Rockwell C hardness between 52 - 55 for the core and a R45N surface hardness between 39 - 50 for the surface, have a minimum tensile strength of 65,000 psi. The pins are electro-zinc plated with a chromate rinse or are mechanically zinc plated or use a nickel alloy electro-plate.

The pins are manufactured with a nominal finished shank diameter of .145" and a nominal head dia. of .300". The SurePin® is designed with a smooth shank and a ballistic point. The pins are identified by the Aerosmith logo head stamp as shown on page 2 of this PER. The pins are collated for powered gun application.

Tested to

ASTM E488-96 Section 5.2 Standard Test Method for Strength of Anchors in Concrete and Masonry Elements.

Code Compliance

1997 Uniform Building Code
2003 International Residential Code
2003 International Building Code

2006 International Residential Code
2006 International Building Code
2009 International Residential Code
2009 International Building Code

The SurePin® Fasteners are limited to use in resisting negative wind forces in this PER.

Fire Rated assemblies are outside of the scope of this PER.

Approved Pins

5193Z 5633Z 5383Z
5503Z 5253Z 5453Z
5573Z 5323Z

Product Documentation

SurePin® Fastening Guidelines for Cement Fiber Board dated August,2006
4/7/2009

A Quality Control Manual from each Approved Manufacturer

An agreement between PER owner (Aerosmith) & each Approved Manufacturer

A follow-up Listing & Inspection agreement between **Pei** and **Aerosmith Fastening Systems**

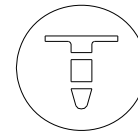
A Intertek ETL SEMKO test report No. 3117855-001 - ASTM E488-96 with SurePin® Fasteners attaching Hardie Siding in concrete block, dated 3/30/07.

ICC-ES Legacy Report ER-5667 - Reissued December 1, 2002

Product Labeling

Each Box of fasteners shipped, that are covered by this PER, must have a label attached with at least the following information:

1. Aerosmith Fastening Systems name, address or website.
2. Fastener designation
3. This PER number & Pei's logo
4. The catalog number
5. A lot number & Mfg. Plant Identification/Traceability
6. A Trademark head stamp by Aerosmith as shown



.300" Dia. Head

ASTM E488-96, Section 5.2 Performance Testing on the following SurePin® Fasteners

Product: **Aerosmith 5323HP - 1-1/4" Smooth Galvanized Pin**
Max HN-120A Pneumatic Nailer

Ultimate Withdrawal Values

Minimum Penetration: **3/4" - 1"**

Ultimate Load (embedded into concrete block at web center):	1165.51 lbf
Design Load (embedded into concrete block at web center) with 2.5 safety factor:	466.20 lbf

Product: **Aerosmith 5503HP - 1-1/4" Smooth Galvanized Pin**

Minimum Penetration: **1-1/8" to 1-3/16"**

Ultimate Load (embedded into concrete block at web center):	1168.83 lbf
Design Load (embedded into concrete block at web center) with 2.5 safety factor:	467.53 lbf

SurePin® plastic collated form



Boxes of 5323P as Shipped

SurePin® in collated form



Label for 5323 HP

