



INTERTEK REPORT No.: 3068232-1

REPORT ON WITNESS TESTING

OF

ITW BUILDEX'S TEKS PIN  
MODEL 2746910

BASED ON

AISI TS-4-02

STANDARD TEST METHODS FOR DETERMINING THE TENSILE AND  
SHEAR STRENGTH OF SCREWS

AND

AISI TS-5-02

TEST METHODS FOR MECHANICALLY  
FASTENED COLD-FORMED STEEL CONNECTIONS

FOR

ITW BUILDEX  
1349 WEST BRYN MAWR AVE.  
ITASCA, IL 60134

BY

INTERTEK TESTING SERVICES NA, INC.  
8431 MURPHY DR.  
MIDDLETON, WI 53562

TEST DATES: MAY 23-27, 2005  
REPORT DATE: MARCH 23, 2006

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## INTRODUCTION

Intertek Testing Services NA Inc., of Middleton, Wisconsin witnessed tests performed in the ITW Buildex Quality Assurance Laboratory in Itasca, IL. Rick Armstrong, Technical Projects Manager for Intertek witnessed and participated in the testing. This report gives the results of the evaluation of the provided sample. The test results described in this report are limited to the submitted item.

## SPECIMEN DESCRIPTION

The fastener tested is described as Buildex 0.115 x 1-inch Teks Pin part number 2746910.

The material used in all the tests except 1A and 1B were standard steel studs or material cut from these studs. The studs were manufactured by Clark Steel Framing Systems and included thickness of 22, 20, 18, 16, and 14 gauges. All studs were 33-ksi minimum tensile strength. The fasteners were driven by pneumatic nailer.

## PROCEDURES

### **Tensile Tests 1A Ref. AISI TS-4-02 Sec. 3.1**

Tensile tests were set up with the shank of the Teks Pin being held fast in a grip attached to the immovable platen of the Tinius Olsen universal testing machine (UTM). The head was held by inserting it through a hole of the fixture on the movable element of the UTM. The speed was set to 0.2 inches per minute and the UTM recorded the maximum load obtained before the fastener broke.

Loads attained per specimen tested					Average	Min	Max	St. Dev
1	2	3	4	5				
2032.5	1918.3	1932.1	1982.1	2026.9	1978.38	1918.3	2032.5	52.56

The failure mode in all cases was the shaft of the Teks Pin breaking at the UTM grip.