Evaluation Service®

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PER-13063

Initial Approval	Re-Approved
October, 2005	February, 2018

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Report Owner
Quality Way Products, LLC
407 Hadley Street
Holly, MI 48442

Product
Qwik-Post and **Qwik-Adjust Support Columns**

Approved Manufacturing Locations
Quality Way Products, LLC
407 Hadley Street
Holly, MI 48442

Evaluation Report Information
www.qualitywayproducts.com
Quality Way Products Contact: Brian Mann - 248-634-2401

General Details
The following described columns are evaluated for vertical compression load only. The support columns are intended for interior use in wood frame or light steel frame construction. These columns have a rust-inhibitive paint inside and out.

Product Descriptions
Qwik-Adjust Column - The **Qwik-Adjust Columns** are a steel tube column with a fixed plate at one end and an adjustable screw unit at the other end. The column is manufactured in a Standard Duty (SD) and a Heavy Duty (HD) model. Both the Standard Duty & Heavy Duty columns are constructed of, Round Hollow Structural Steel, ASTM A500 Grade B or better. The Collar & Screw are manufactured from SAE 1215 Steel. These columns have a 4" adjustability.

Qwik-Post Column - The **Qwik-Post Columns** are a steel tube column with a fixed plate at both ends. This column is manufactured in a Standard Duty and a Heavy Duty model. Both the Standard Duty & Heavy Duty columns are constructed of, Round Hollow Structural Steel, ASTM A500 Grade B or better.

Code Compliance

Standard & Heavy Duty Columns	
2006 International Residential Code Section R407.2 and R407.3 **2012 International Residential Code** Section R407.2 and R407.3 **2015 International Residential Code** Section R407.2 and R407.3	**2006 International Building Code** Section 104.11.1 and 104.11.2 **2012 International Building Code** Section 104.11.1, 104.11.2 and 2205.1 **2015 International Building Code** Section 104.11.1, 104.11.2, 2205.1 and 2205.2

Compliance with the following Standard
AISC-360-10 - Specification for Structural Steel Buildings-Allowable Stress Design

General Product Use
1. All columns shall be installed vertically plumb with either end up and bear on a footing capable of carrying the imposed load. Column orientation is determined by the local building official. The base of the column must be restrained to prevent lateral movement.

2. These columns are intended for vertical compression load only. They have not been evaluated for any other load direction or type.

3. Immediately after the adjustable column is positioned and adjusted, the adjustable screw unit must be made inoperable by encasement in concrete or by a method approved by the local building official.

4. The **Qwik-Adjust Columns** nominal size is the column at its shortest adjustment and must not be adjusted to a longer length by more than 4".

5. The cap or base plates and their attachment to load carrying members are outside of the scope of this **PER**.

Items Requiring Verification

The following items are related to the use of **Quality Way Products - Qwik-Adjust** and **Qwik-Post Columns**, but not within the scope of this evaluation specification. However these items are related to the determination of code compliance.

1. Design, calculations, and details for the building system verifying compliance with this report.
2. Connections of the columns to the footing and supported structure.
3. Footing design and calculations for supporting the columns and the imposed load.

Design Thickness and Post Diameters

Load Calculations used to develop Table No. 1, 2 and 3 - Dated: February 18, 2015 - stamped by a Professional Engineer

Design Thickness:

1. Standard Duty - .111"
2. Heavy Duty 3.5" o.d - .201"
3. Heavy Duty 4.0" o.d - .211"

Table 1 [1,2,3]
Load Rating for Qwik-Adjust Columns (Lbs.)

Nominal size	3" O.D. S Duty	3-1/2" O.D. S Duty	4" O.D. S Duty	3-1/2" O.D. H Duty	4" O.D. H Duty
75"	16,690*	20,410*	23,260*	28,440*	34,290*
78"	16,690*	20,410*	23,260*	28,440*	34,290*
81"	16,650	20,410*	23,260*	28,440*	34,290*
84"	16,150	20,410*	23,260*	28,440*	34,290*
87"	15,650	20,410*	23,260*	28,440*	34,290*
90"	15,150	20,410*	23,260*	28,440*	34,290*
93"	14,650	19,980	23,260*	28,440*	34,290*
96"	14,150	19,480	23,260*	28,440*	34,290*
99"	13,650	18,980	23,260*	28,440*	34,290*
102"	13,150	18,480	23,260*	28,440*	34,290*
105"	12,660	17,980	23,260*	28,440*	34,290*
108"	12,180	17,480	22,820	28,440*	34,290*
111"	11,700	16,970	22,320	28,440*	34,290*
114"	11,230	16,480	21,820	27,990	34,290*
117"	10,770	15,980	21,310	27,100	34,290*
120"	10,310	15,480	20,810	26,220	34,290*
123"	9,860	14,990	20,310	25,350	34,290*
126"	9,410	14,510	19,810	24,490	34,290*
129"	8,990	14,030	19,310	23,630	34,290*
132"	8,600	13,550	18,810	22,790	33,490
135"	8,230	13,080	18,310	21,960	32,560
138"	7,880	12,620	17,810	21,140	31,640
141"	7,560	12,160	17,320	20,330	30,720
144"	7,260	11,710	16,840	19,510	29,820

Notes:
*Tested screw capacity controls design using **2.5** Safety Factor
1. All steel tube to be ASTM A500 Grade B or better.
2. Nominal size on table is the column at the shortest adjustment
3. Designed per AISC-360-10 - ASD

Table 2 [1,2,3]
Load Rating for Qwik-Post Columns (Lbs.)

Nominal size	3" O.D. S Duty	3-1/2" O.D. S Duty	4" O.D. S Duty	3-1/2" O.D. H Duty	4" O.D. H Duty
75"	18,300	23,490	28,560	40,660	51,950
78"	17,810	23,030	28,140	39,830	51,140
81"	17,320	22,570	27,710	38,980	50,320
84"	16,820	22,100	27,270	38,120	49,470
87"	16,320	21,620	26,820	37,250	48,620
90"	15,820	21,130	26,360	36,370	47,740
93"	15,310	20,640	25,890	35,490	46,860
96"	14,810	20,150	25,420	34,590	45,960
99"	14,310	19,650	24,940	33,700	45,050
102"	13,810	19,150	24,460	32,790	44,140
105"	13,320	18,650	23,970	31,890	43,210
108"	12,830	18,150	23,480	30,990	42,280
111"	12,340	17,640	22,980	30,090	41,340
114"	11,860	17,140	22,480	29,190	40,400
117"	11,390	16,640	21,980	28,290	39,460
120"	10,920	16,140	21,480	27,400	38,510
123"	10,460	15,650	20,980	26,520	37,570
126"	10,010	15,160	20,480	25,640	36,620
129"	9,550	14,670	19,970	24,770	35,680
132"	9,120	14,190	19,470	23,920	34,740
135"	8,720	13,710	18,970	23,070	33,800
138"	8,350	13,240	18,470	22,230	32,870
141"	8,000	12,770	17,980	21,410	31,950
144"	7,670	12,310	17,490	20,610	31,030

Notes:
1. All steel tube to be ASTM A500 Grade B or better.
2. Nominal size on table is the column at the shortest adjustment
3. Designed per AISC-360-10 - ASD

Table 3 [1,2,3]
Load Rating for Qwik-Adjust Columns (Lbs.)
Using **2.0** Safety Factor

Nominal size	3" O.D. S Duty	3-1/2" O.D. S Duty	4" O.D. S Duty	3-1/2" O.D. H Duty	4" O.D. H Duty
75"	17,640	22,880	28,000	35,550	42,870
78"	17,150	22,410	27,560	35,550	42,870
81"	16,650	21,940	27,120	35,550	42,870
84"	16,150	21,460	26,660	35,550	42,870
87"	15,650	20,970	26,200	35,550	42,870
90"	15,150	20,480	25,730	35,190	42,870
93"	14,650	19,980	25,260	34,300	42,870
96"	14,150	19,480	24,780	33,400	42,870
99"	13,650	18,980	24,290	32,490	42,870
102"	13,150	18,480	23,810	31,590	42,870
105"	12,660	17,980	23,310	30,690	41,970
108"	12,180	17,480	22,820	29,780	41,030
111"	11,700	16,970	22,320	28,890	40,090
114"	11,230	16,480	21,820	27,990	39,140
117"	10,770	15,980	21,310	27,100	38,200
120"	10,310	15,480	20,810	26,220	37,250
123"	9,860	14,990	20,310	25,350	36,310
126"	9,410	14,510	19,810	24,490	35,370
129"	8,990	14,030	19,310	23,630	34,430
132"	8,600	13,550	18,810	22,790	33,490
135"	8,230	13,080	18,310	21,960	32,560
138"	7,880	12,620	17,810	21,140	31,640
141"	7,560	12,160	17,320	20,330	30,720
144"	7,260	11,710	16,840	19,510	29,820

Notes:
1. All steel tube to be ASTM A500 Grade B or better.
2. Nominal size on table is the column at the shortest adjustment
3. Designed per AISC-360-10 - ASD

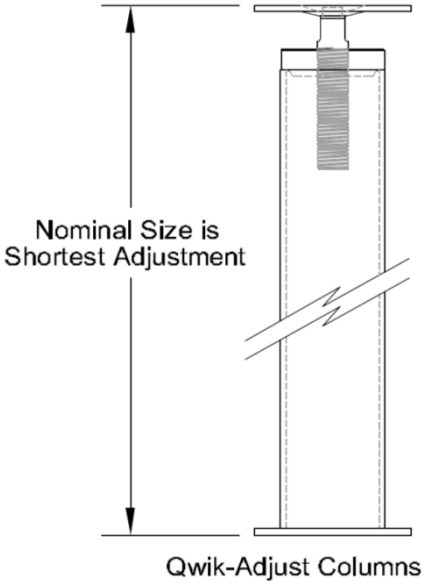

Figure 1 - Qwik-Adjust Columns

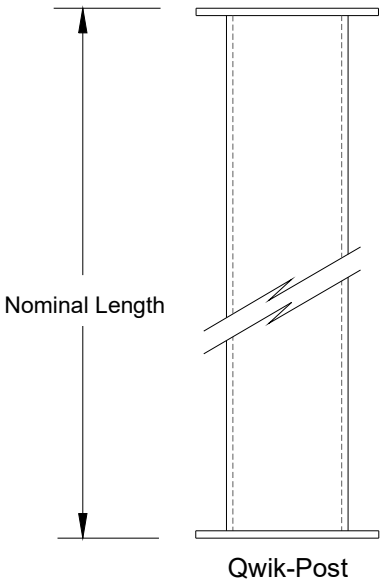

Figure 2 - Qwik-Post

Fixed and Jack Screw Plate Dimensions

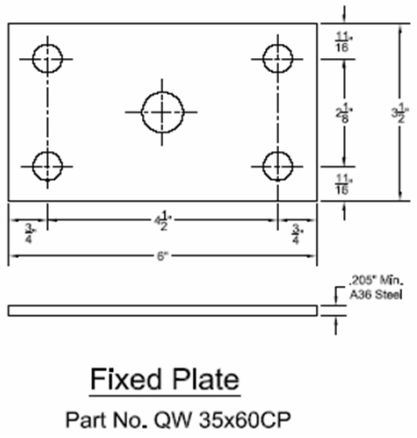

Figure 3 - 3.5" x 6" Cap Plate

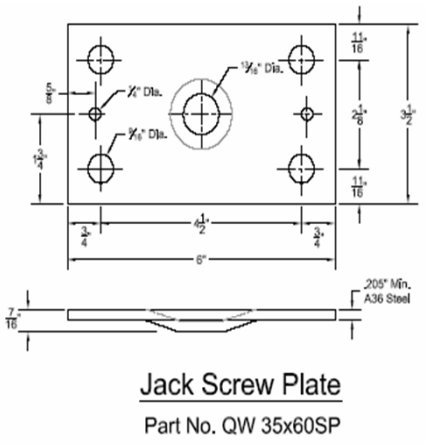

Figure 4 - 3.5" x 6" Screw Plate

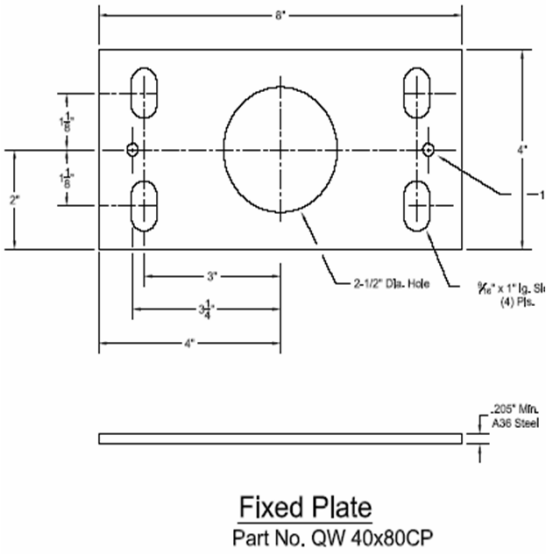

Figure 5 - 4" x 8" Cap Plate

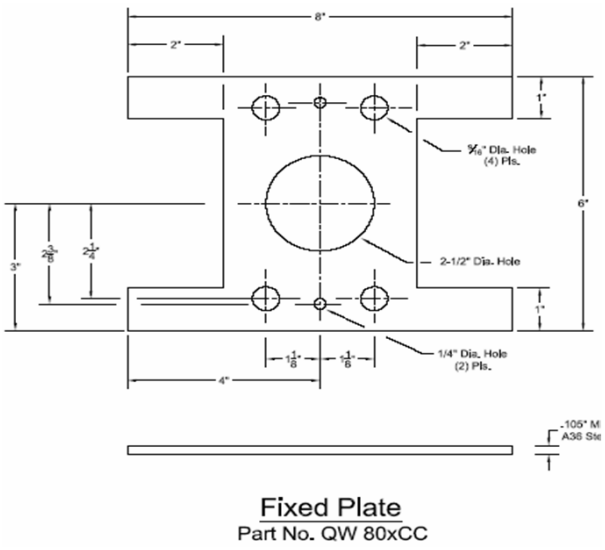

Figure 6 - 8" Clip Cap

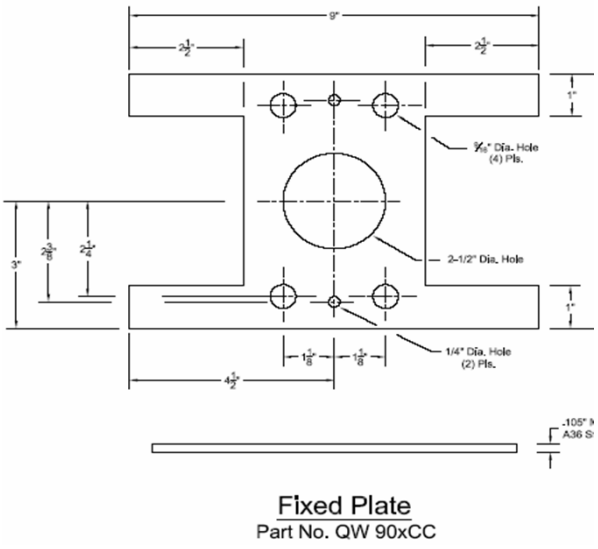

Figure 7 - 9" Clip Cap

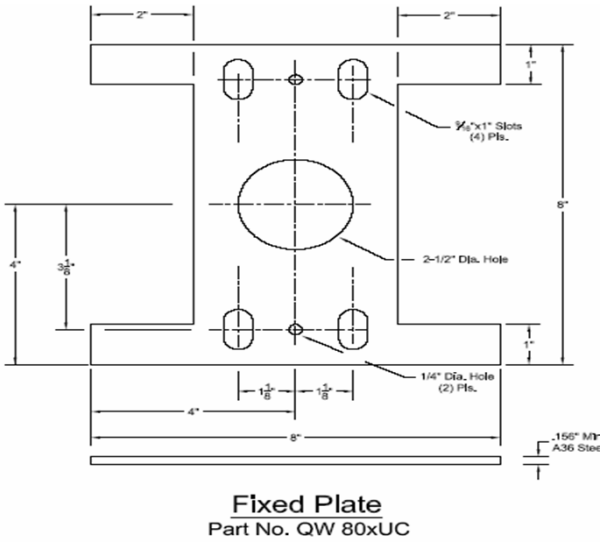

Figure 8 - 8" Universal Cap

Product Labeling

All columns manufactured by **Quality Way Products, LLC** that are covered by this **PER** must have a label attached with at least the following information:

1. Date of Manufacture
2. Load Capacity of Column
3. Manufacturer Name
4. This **PER** Number & *Pei* **ES** Logo
5. On Adjustable Column Labels, the Minimum and Maximum Column Length
6. On Adjustable Column Labels, the Design Safety Factor

Acceptable Evaluation Marks

Product Documentation

A Product Evaluation Service Agreement between *Pei* **Evaluation Service®** and **Quality Way Products, LLC**

An Follow-up Inspection Service Agreement between *Progressive Engineering Inc.* and **Quality Way Products, LLC**

A **Quality Way Products, LLC** - Qwik-Adjust & Qwik-Post Columns Quality Control Manual - Dated: 1/5/2018

A **Quality Way Products, LLC** - Qwik-Adjust & Qwik-Post Columns - Assembly and Plate Components Drawings - Dated: September, 2015

A *Pei* test report No. 2005-0791(A) - 3" Standard Duty Jack Screw Ultimate Load Test - Dated: 4/13/2006 - stamped by a Professional Engineer.

A *Pei* test report No. 2005-0791(B) - 3-1/2" Standard Duty Jack Screw Ultimate Load Test - Dated: 4/17/2006 - stamped by a Professional Engineer.

A *Pei* test report No. 2005-0427 - 4" Standard Duty Jack Screw Ultimate Load Test - Dated: 4/17/2006 - stamped by a Professional Engineer.

A *Pei* test report No. 2005-0246(E) - 3-1/2" Heavy Duty Jack Screw Ultimate Load Test - Dated: 5/17/2006 - stamped by a Professional Engineer.

A *Pei* test report No. 2005-0246(B) - 4" Heavy Duty Jack Screw Ultimate Load Test - Dated: 5/17/2006 - stamped by a Professional Engineer.

Pei Calculations No. 2013-0450 - Quality Way Products, LLC - Column Calculations - Dated: 4/18/2013 - stamped by a Professional Engineer

Pei Calculations No. 2015-0329 - Quality Way Products, LLC - Calculations - Qwik-Adjust & Qwik-Post ASD and LRFD Axial Capacity Structural Analysis - Dated: 2/18/2015 - stamped by a Professional Engineer

A *Pei* test report No. 2015-0268 - Full Scale Axial Compression Tests on Qwik-Adjust Steel Support Columns to Verify Calculations - Dated: 3/24/2015

Pei Calculations No. 2015-0268 - Quality Way Products, LLC - Calculations - Qwik-Adjust Test Result Comparison Calculation Structural Analysis - Dated: 5/27/2015 - stamped by a Professional Engineer