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Dear Mr. Berman:

The following provides the original comments that were sent to us along with responses on behalf of Quick Tie Products, Inc.:

**Comment #1 by Randy Shackelford:** The QTB, QTG, QTO, and QTR products are wire rope meeting ASTM A1023, according to the report. ASTM A1023 is not referenced in the Florida Building Code, so this application must be split so those products are evaluated using Method 2.

**Quick Tie's Response:** ASTM A1023/A1023M – *Standard Specification for Stranded Carbon Steel Wire Ropes for General Purposes*, is a specification that covers the general requirements for the more common types of stranded steel wire ropes, including tolerances and minimum strength properties. The QT products have always been made from wire ropes meeting this Specification. Method 1 has been used as the product approval method for Quick Tie Products, including the QT wire rope products, for the FL3557-R0 (2001) and FL3557-R1 (2004) approval process. Therefore one would logically anticipate that if it has been satisfactory in the past, it should be satisfactory for the FL3557-R2 application

**Comment #2 by Randy Shackelford:** The specific test standard used for the tests referenced in 6.2.1, 6.2.2, 6.2.3, 6.2.4, and 6.2.5 is not listed, so it can not be verified that the test lab is accredited to perform these tests.

**Quick Tie's Response:** The test reports referenced in Section 6.2.1 and 6.2.2 of FL3557-R2 AE 0910-01.1 for the QT wire rope products were included in Section 6 - *Substantiating Data* of the ICC-ES Legacy Report 9913A for the Quick Tie™ products. Report 9913A was used as the evaluation report for the two previous Florida Product Approvals for the Quick Tie products (i.e., FL3557-R0 and FL3557-R1). Therefore it again would be logical to anticipate that if it has been satisfactory in the past, it should be satisfactory for the FL3557-R2 application

The test reports referenced in Section 6.2.3, 6.2.4 and 6.2.5 of FL3557-R2 AE 0910-01.1 were prepared by the Structural Building Components Research Institute (SBCRI). The SBCRI's accreditation was discussed in our January 14, 2011 response to public comments and includes:

SBCRI is accredited to perform building system and building element testing generally for the properties needed to accurately assess the structural performance of these elements or systems. (see Figure 1):

<b>I. Construction Materials / Mechanical</b>	
<b>ITEMS, MATERIALS OR PRODUCTS TESTED</b>	<b>SPECIFIC TESTS OR PROPERTIES MEASURED</b>
Building Systems	Compression, Deflections, Tension, & Flexure
Building Elements	Compression, Deflections, Tension, & Flexure

Figure 1: SBCRI Accreditation

Therefore SBCRI can provide accredited test results for tests that generate compression resistance, tension resistance, bending/flexural resistance and measure deflections/deformations in any applied loading conditions onto a building element or building system.

Further, the SBCRI is accredited to apply the needed test method technique that is appropriate to generate an accurate measurement of compression, tension, bending/flexure and resulting deflections (see Figure 2).

<b>I. Construction Materials / Mechanical</b>		
<b>ITEMS, MATERIALS OR PRODUCTS TESTED</b>	<b>SPECIFIC TESTS OR PROPERTIES MEASURED</b>	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b>
Building Systems	Compression, Deflections, Tension, & Flexure	ASTM E72, E73, E455, E564, E2127
Building Elements	Compression, Deflections, Tension, & Flexure	ASTM D4761, ASTM E8

Figure 2: SBCRI Accreditation

This is allowed by ANSI/ACCLASS because much of SBCRI’s work is performed on full scale in situ representations of entire code complying structures where SBCRI needs the flexibility to measure load paths that create compression, tension, flexure/bending and resulting deflections in three dimensions. Therefore, SBCRI’s internal testing quality control relies upon accurately measuring the applied load and measuring the resulting resistance load through the building element and/or building structure. SBCRI does this in all testing undertaken. The simple equation that SBCRI uses to ensure that they have provided an accurate test result is the fundamental principle of “loads in” equaling “loads out” or “statics works.” Hence, SBCRI’s accreditation does apply to any compression, tension and bending/flexure tests that are performed using the technique(s) needed to generate the load and measure the resulting resistance (see Figure 3). In all cases, SBCRI also measures a variety of deformations.

**I. Construction Materials / Mechanical**

ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*DETECTION LIMIT/ RANGE/ EQUIPMENT
Building Systems	Compression, Deflections, Tension, & Flexure	ASTM E72, E73, E455, E564, E2127	Load Cells, Actuators, String Potentiometers
Building Elements	Compression, Deflections, Tension, & Flexure	ASTM D4761, ASTM E8	Load Cells, Actuators, String Potentiometers



**AClass Accreditation Services**  
*An ANSI-ASQ National Accreditation Board Company*

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Structural Building Components Research Institute (SBCRI)**

6300 Enterprise Lane, Madison, WI 53719  
 Dan Hawk Phone: 608-274-4849

**TESTING**

Valid to: February 5, 2011 Certificate Number: AT - 1373

This is to certify that

**Structural Building Components Research Institute (SBCRI)**

6300 Enterprise Lane  
 Madison, WI 53719

has been assessed by AClass®  
 and meets the requirements of international standard

**ISO/IEC 17025:2005**

while demonstrating technical competence in the field(s) of

**TESTING**

Refer to the accompanying Scope(s) of Accreditation for  
 information regarding the types of calibrations and/or  
 tests/types to which this accreditation applies.

AT-1373

**CERTIFICATE NUMBER**

**AClass APPROVAL**



Certificate Valid: 02/05/2009-02/05/2011



Figure 3: SBCRI Accreditation

SBCRI was successfully recertified the week of January 3, 2011 and had the baseline testing areas/assemblies reviewed for performing compression, tension, bending/flexural, cyclic and all resulting deformations based on a “loads in” equaling “loads out” basis. Therefore, in the future SBCRI believes that they are very qualified to provide testing that exceeds any requirements that Florida and the majority of testing facilities can provide given SBCRI is one of the only facilities that can/will provide “loads in” and “loads out” data to assure an outside agency evaluating their work of known and precise accuracy and data quality control.

Finally, SBCRI would encourage the Florida Product Approval process to require all testing and test facilities to provide “loads in” and “loads out” data so that the Florida Product Approval process is assured that there is rock solid internal testing quality control as SBCRI has found that it is very easy to generate inaccurate results when only applied load cells or only reaction load cells are used.