



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

**APPLICATION #: OSP-0130**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Young Touchstone, a Wabtec Company

Manufacturer's Technical Representative: Vicki Piazza

Mailing Address: 200 Smith Lane, Jackson, TN 38301

Telephone: (414) 768-7420

Email: vpiazza@wabtec.com

**Product Information**

Product Name: Emergency and Standby Power Systems

Product Type: Remote Radiators

Product Model Number: Remote Charge Air Coolers 1.5 Square Feet thru 8 Square Feet

General Description: Units are remote mounted charge air coolers (also called intercoolers or aftercoolers) for turbocharged diesel powered gensets.

Mounting Description: Vertical and Horizontal Core, base mounted- rigid, -

Tested Seismic Enhancements: None

**Applicant Information**

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

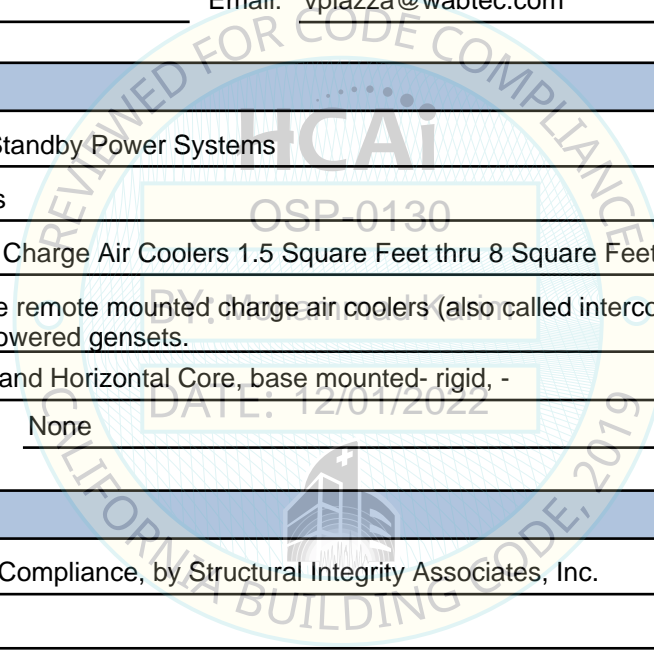
Contact Person: Katie Braman

Mailing Address: 5215 Hellyer Ave. Suite 210, San Jose, CA 95138

Telephone: (541) 639-2194

Email: kbraman@structint.com

Title: Program Manager, TRU Compliance





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

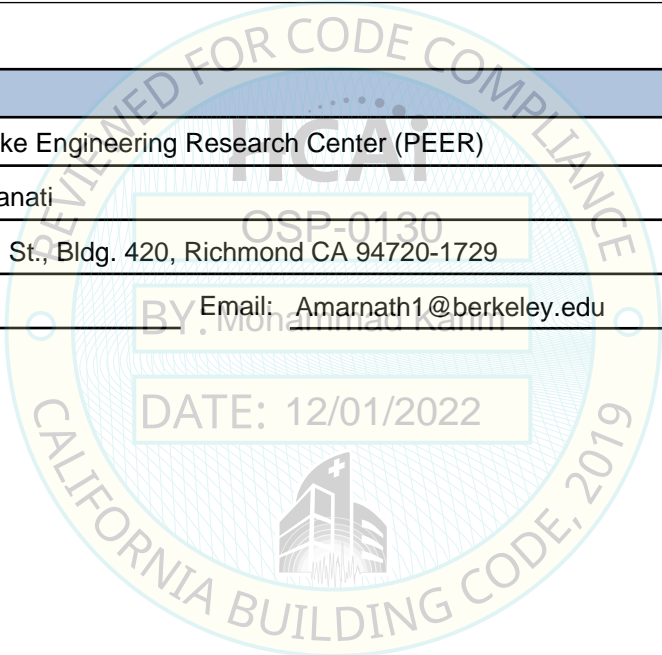
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.  
Name: Andrew Coughlin California License Number: S6082  
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025  
Telephone: (415) 635-8461 Email: acoughlin@structint.com

**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: Pacific Earthquake Engineering Research Center (PEER)  
Contact Person: Amarnath Kasalanati  
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94720-1729  
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44

SDS (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (Amplification factor) = 1.0

$R_p$  (Response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

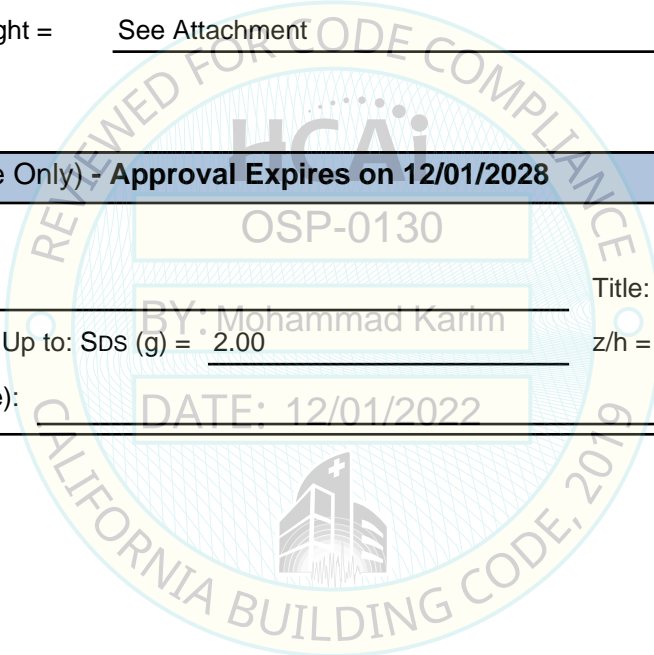
**HCAI Approval (For Office Use Only) - Approval Expires on 12/01/2028**

Date: 12/1/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.00 z/h = 1

Condition of Approval (if applicable): DATE: 12/01/2022



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company				<h2>TABLE 1</h2>	
<b>Model Line:</b> Remote CAC					
<b>Certified Product Construction Summary:</b> Carbon steel frame, Copper fin charge air core (ABT), Mechanical bond core header					
<b>Certified Options Summary:</b> Vertical Core 1.5 ft <sup>2</sup> to 8.0 ft <sup>2</sup> range					
<b>Mounting Configuration:</b> Base mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.					
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g \quad z/h=1.0$ $S_{DS} = 2.0g \quad z/h=0.0$	$I_p = 1.5$
Model Line	Model	Unit Size (ft <sup>2</sup> )	Weight (lb)	Notes	UUT
RCAC (Vertical Water Connections)	15A17084	1.5	370		1a
	20A17084	2.0	440		Interp.
	25A17084	2.5	480		Interp.
	30A17084	3.0	510		Interp.
	40A17084	4.0	650		Interp.
	50A17084	5.0	900		Interp.
	50A17168	5.0	1,200		Interp.
	80A17168	8.0	1,700		2a

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company	<b>TABLE 2</b>
<b>Model Line:</b> Remote CAC	

**Certified Product Construction Summary:**  
Carbon steel frame, Copper fin charge air core (ABT), Mechanical bond core header

**Certified Options Summary:**  
Horizontal Core 1.5 ft<sup>2</sup> to 8.0 ft<sup>2</sup> range

**Mounting Configuration:**  
Base mounted - rigid  
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0 g$      $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.0 g$      $z/h = 0.0$

Model Line	Model	Unit Size (ft <sup>2</sup> )	Weight (lb)	Notes	UUT
RCAC (Horizontal Water Connections)	15A17084	1.5	370		1b
	20A17084	2.0	440		Interp.
	25A17084	2.5	480		Interp.
	30A17084	3.0	510		Interp.
	40A17084	4.0	650		Interp.
	50A17084	5.0	900		Interp.
	50A17168	5.0	1,200		Interp.
	80A17168	8.0	1,700		2b

# UNIT UNDER TEST (UUT) SUMMARY SHEET

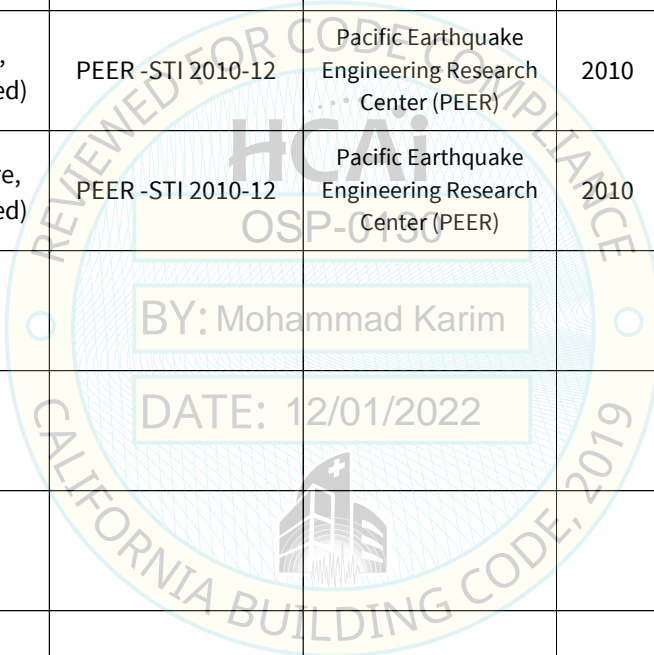
1800975-CR-001-R4



**Manufacturer:** Young Touchstone, a Wabtec Company

**Model Line:** Remote CAC

UUT	Unit Description (Mounting)	Report Number (UUT #)	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>p</sub>
1a	1.5 ft <sup>2</sup> CAC, vertical core, (leg mount non-isolated)	PEER -STI 2010-12	Pacific Earthquake Engineering Research Center (PEER)	2010	No <sup>1</sup>	2.0	1.0	1.5
1b	1.5 ft <sup>2</sup> CAC, horizontal core, (leg mount non-isolated)	PEER -STI 2010-12	Pacific Earthquake Engineering Research Center (PEER)	2010	No <sup>1</sup>	2.0	1.0	1.5
2a	8 ft <sup>2</sup> CAC, vertical core, (base mount non-isolated)	PEER -STI 2010-12	Pacific Earthquake Engineering Research Center (PEER)	2010	No <sup>1</sup>	2.0	1.0	1.5
2b	8 ft <sup>2</sup> CAC, horizontal core, (base mount non-isolated)	PEER -STI 2010-12	Pacific Earthquake Engineering Research Center (PEER)	2010	No <sup>1</sup>	2.0	1.0	1.5



**Notes:**  
1. PEER was not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company	<b>UUT 1a</b>
<b>Model Line:</b> Remote CAC	
<b>Model Number:</b> RCAC15A17084 <b>Serial Number:</b> 2979113	

**Product Construction Summary:**  
Carbon steel frame, horizontal arrangement, copper fin core

**Options/Subcomponent Summary:**  
Leg mounted to frame, 1.5 ft<sup>2</sup> size, vertical core, non-isolated mount

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
370	26.3	33.5	22.2	N/A	33.0	N/A

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Test Mounting Details:**



UUT1a was mounted to I-beams with twelve (12) 1/2" A307 bolts<sup>1</sup>. The I-beams were mounted to the GENSET rail with eight (8) 1/2" A307 bolts and the GENSET rail was mounted to the shake table with eight (8) 1/2" A307 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

<sup>1</sup>See drawing with mounting details below for bolt reference. It is assumed that A307 bolts are used to mount the unit to the shake table since this bolt is called out in the drawing.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



**Manufacturer:** Young Touchstone, a Wabtec Company

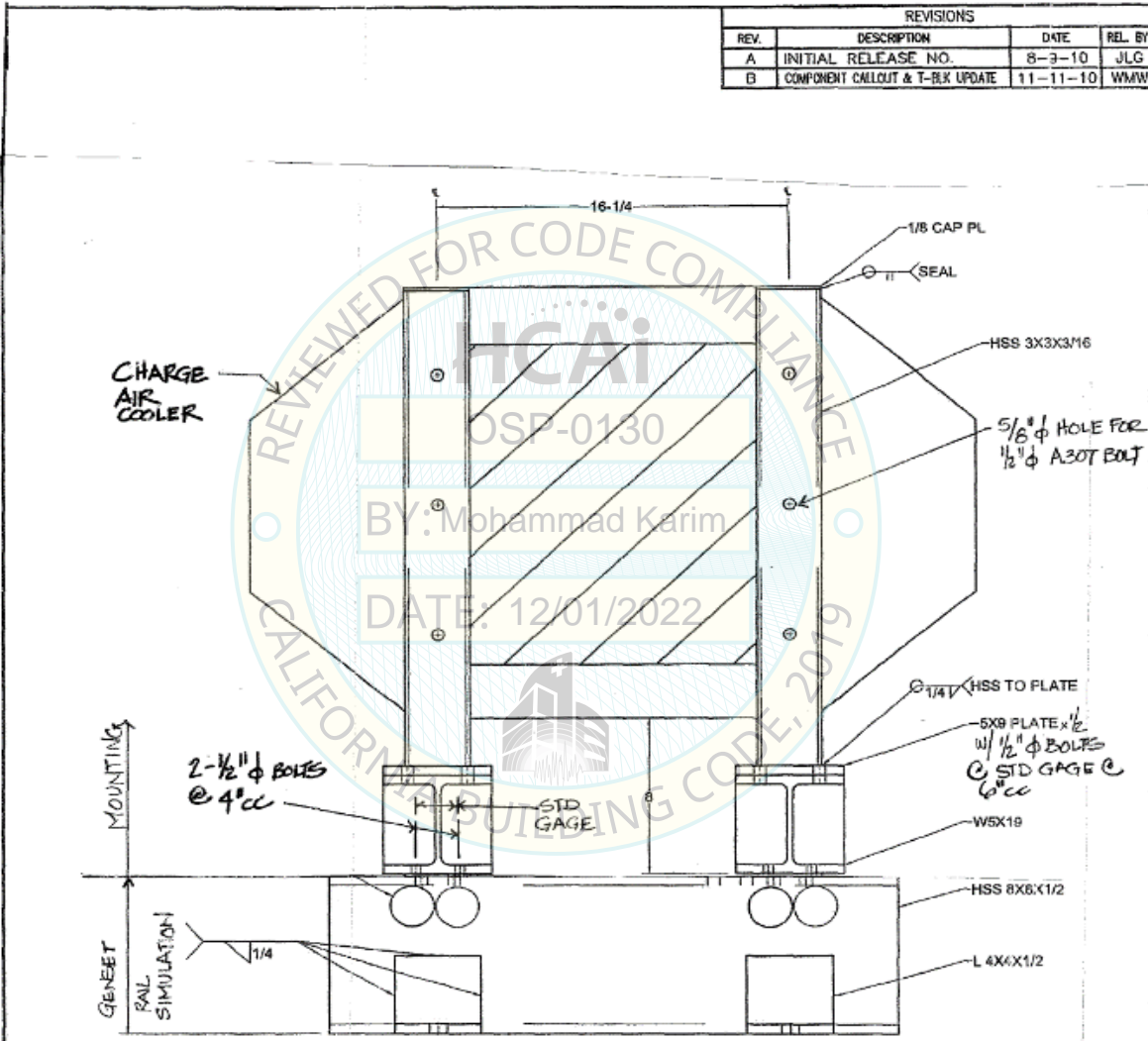
**Model Line:** Remote CAC

**Model Number:** RCAC15A17084

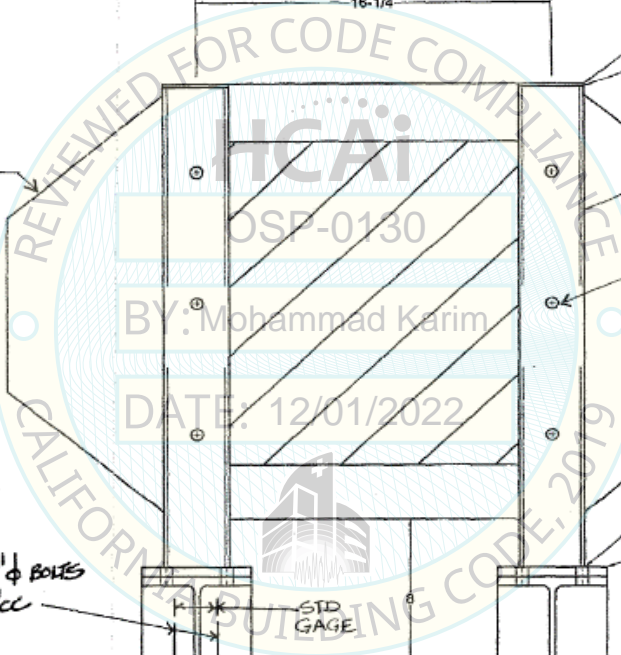
**Serial Number:** 2979113

**UUT 1a**

**Drawing with Mounting Details:**



REVISIONS			
REV.	DESCRIPTION	DATE	REL. BY
A	INITIAL RELEASE NO.	8-3-10	JLG
B	COMPONENT CALLOUT & T-BLK UPDATE	11-11-10	WMW



**NOTES:**  
1. ALL DIMENSIONS ARE IN INCHES.

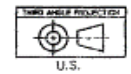
DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY. ALL TOLERANCES ARE TO BE REFERENCED FROM DECIMAL REQUIREMENTS.

REV	DATE	DESCRIPTION



YOUNG TOUCHSTONE 1.5 SQFT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
1 PLACE DECIMAL = ±.06  
2 PLACE DECIMAL = ±.03  
3 PLACE DECIMAL = ±.01  
ANGULAR = ±0°30'  
FRACTIONS = ± 1/16  
BREAK SHARP CORNERS R=.005 MAX



REV: E	SHEET: 1 OF 1
SIZE: A	SCALE: NONE
APPROVALS PER REVISION BLOCK	
INTERPRET IAW ANSI Y14	
CAGE CODE: 4U931	

DWG NO: A-SD-S-V15N

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# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company	<b>UUT 1b</b>
<b>Model Line:</b> Remote CAC	
<b>Model Number:</b> RCAC15A17084 <b>Serial Number:</b> 2979113	

**Product Construction Summary:**  
Carbon steel frame, horizontal arrangement, copper fin core

**Options/Subcomponent Summary:**  
Base mounted, 1.5 ft<sup>2</sup> size, horizontal core, non-isolated mount

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
370	26.3	33.5	22.2	9.0	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ESAC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Test Mounting Details:**



UUT1b was mounted to I-beams with six (6) 1/2" A307 bolts<sup>1</sup>. The GENSET rail was mounted to the shake table with eight (8) 1/2" A307 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

<sup>1</sup>See drawing with mounting details below for bolt reference. It is assumed that A307 bolts are used to mount the unit to the shake table since this bolt is called out in the drawing.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



**Manufacturer:** Young Touchstone, a Wabtec Company

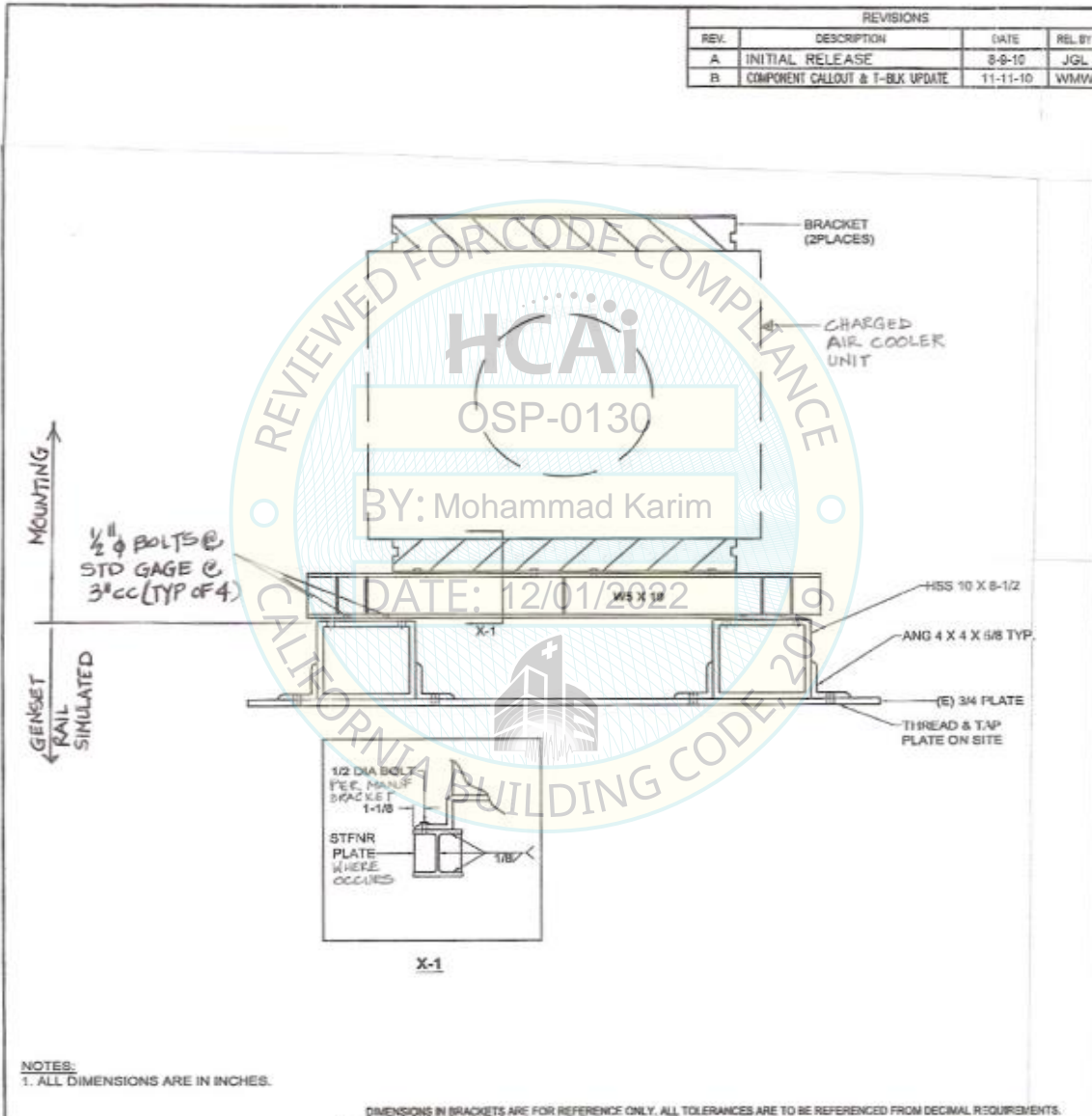
**Model Line:** Remote CAC

**Model Number:** RCAC15A17084

**Serial Number:** 2979113

**UUT 1b**

**Drawing with Mounting Details:**



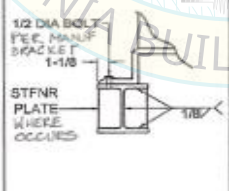
REVISIONS			
REV.	DESCRIPTION	DATE	REL BY
A	INITIAL RELEASE	8-8-10	JGL
B	COMPONENT CALLOUT & T-BLK UPDATE	11-11-10	WMW

1/2" Ø BOLTS @ STD GAGE @ 3" CC (TYP OF 4)

MOUNTING ↑

GENSET RAIL SIMULATED ↓

DATE: 12/01/2022



**NOTES:**  
1. ALL DIMENSIONS ARE IN INCHES.

DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY. ALL TOLERANCES ARE TO BE REFERENCED FROM DECIMAL REQUIREMENTS.

<table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>REL BY</th> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> </tr> </table>	REV.	DESCRIPTION	DATE	REL BY	B				SHEET: 1 OF 1 SCALE: NONE APPROVALS PER REVISION BLOCK INTERPRET IAW ANSI Y14 CAGE CODE: 4U931
REV.	DESCRIPTION	DATE	REL BY						
B									
THE VMD GROUP The Power of Together Bloomington, NJ 07403 Houston, TX 77041 member VISCOM	YOUNG TOUCHSTONE 8 SQ FT / 1.5 SQ FT UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMAL = ±.06 2 PLACE DECIMAL = ±.03 3 PLACE DECIMAL = ±.01 ANGULAR = ±0.30° FRACTIONS = ± 1/16 BREAK SHARP CORNERS R=.005 MAX								
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# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company	<b>UUT 2a</b>
<b>Model Line:</b> Remote CAC	
<b>Model Number:</b> RCAC80A17168 <b>Serial Number:</b> 2979067	

**Product Construction Summary:**  
Carbon steel frame, horizontal arrangement, copper fin core

**Options/Subcomponent Summary:**  
Leg mounted to frame, 8 ft<sup>2</sup> size, vertical core, non-isolated mount

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,700	44.2	55.9	40.3	29.0	19.0	10.0

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Test Mounting Details:**



UUT2a was mounted to I-beams with twelve (12) 1/2" A307 bolts<sup>1</sup>. The I-beams were mounted to the GENSET rail with eight (8) 1/2" A307 bolts and the GENSET rail was mounted to the shake table with eight (8) 1/2" A307 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

<sup>1</sup>See drawing with mounting details below for bolt reference. It is assumed that A307 bolts are used to mount the unit to the shake table since this bolt is called out in the drawing.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



**Manufacturer:** Young Touchstone, a Wabtec Company

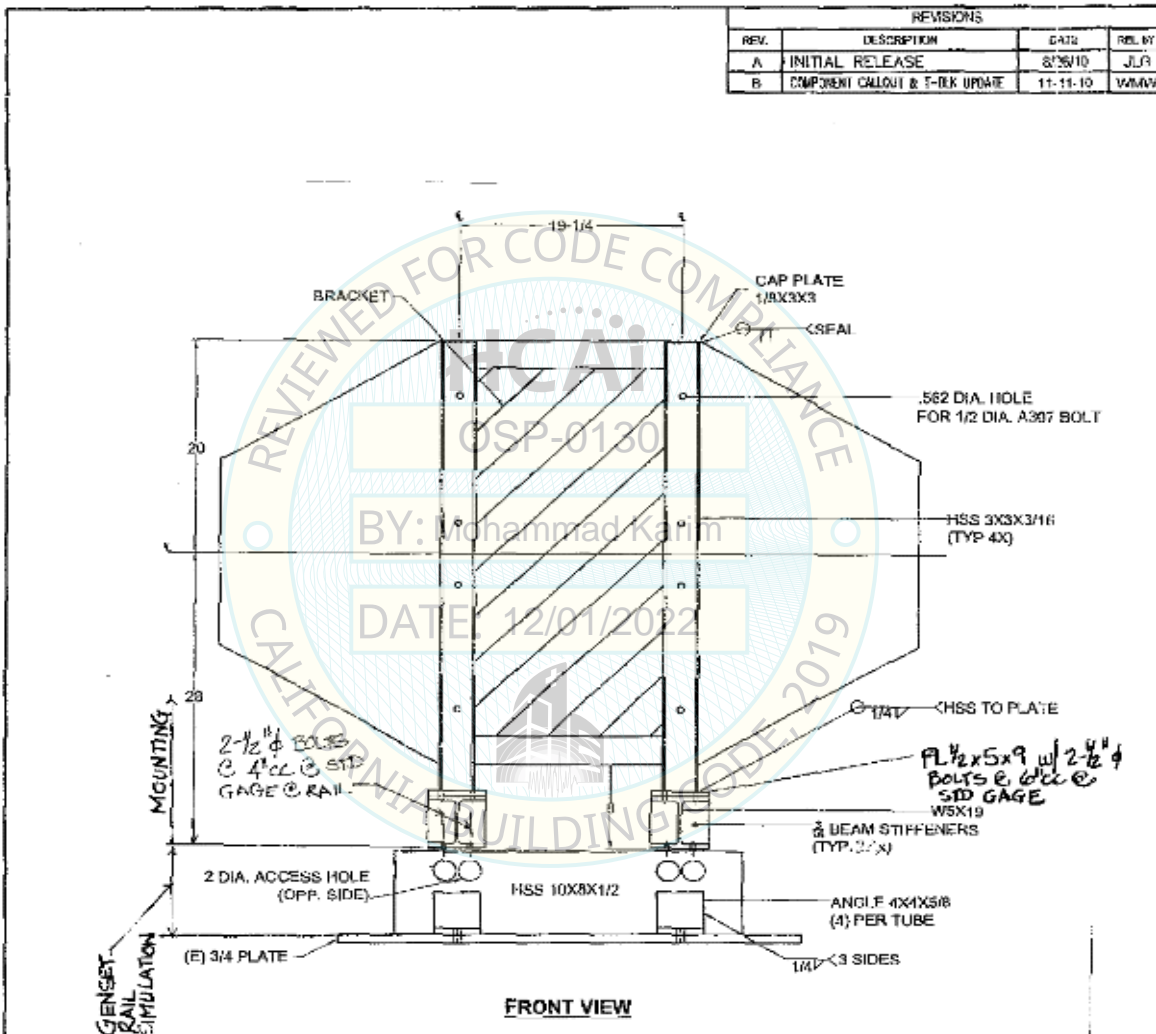
**Model Line:** Remote CAC

**Model Number:** RCAC80A17168

**Serial Number:** 2979067

**UUT 2a**

**Drawing with Mounting Details:**



REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	8/26/10	JLR
B	COMPONENT CALLOUT & E-TEXT UPDATE	11-11-10	WMMW

REVIEWED FOR CODE COMPLIANCE  
 BY: Mohammad Karim  
 DATE: 12/01/2022  
 CALIFORNIA BUILDING CODE 2019

NOTES:  
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<table border="1"> <tr> <td>REV. A</td> <td>QTY 1</td> <td>TRA</td> <td>TRA</td> </tr> <tr> <td>ID</td> <td>ASSY.</td> <td>PART NUMBER</td> <td>DESCRIPTION</td> </tr> </table>		REV. A	QTY 1	TRA	TRA	ID	ASSY.	PART NUMBER	DESCRIPTION	<table border="1"> <tr> <td>REV. B</td> <td>SHEET 1 OF 1</td> </tr> <tr> <td>SCALE</td> <td>NONE</td> </tr> <tr> <td colspan="2">APPROVALS PER REVISION BLOCK</td> </tr> <tr> <td colspan="2">INTERPRET LAW ANSI Y14</td> </tr> <tr> <td colspan="2">CAGE CODE 4U931</td> </tr> </table>		REV. B	SHEET 1 OF 1	SCALE	NONE	APPROVALS PER REVISION BLOCK		INTERPRET LAW ANSI Y14		CAGE CODE 4U931	
REV. A	QTY 1	TRA	TRA																		
ID	ASSY.	PART NUMBER	DESCRIPTION																		
REV. B	SHEET 1 OF 1																				
SCALE	NONE																				
APPROVALS PER REVISION BLOCK																					
INTERPRET LAW ANSI Y14																					
CAGE CODE 4U931																					
<p>THE VMD GROUP                  The Power of Together                  Bloomington, NJ 07403                  Houston, TX 77041</p> <p>Member  <b>VISCARA</b></p>		<p>YOUNG TOUCHSTONE                  8 SQ FT</p> <p>UNLESS OTHERWISE SPECIFIED                  DIMENSIONS ARE IN INCHES                  TOLERANCES ARE:                  1 PLACE DECIMAL = ±.06                  2 PLACE DECIMAL = ±.03                  3 PLACE DECIMAL = ±.01                  ANGULAR = ±0.30°                  FRACTIONS = ± 1/16                  BREAK: SHARP CORNERS R=.005 MAX</p> <p>U.S.                  DWG. NO. A-SD-VEON</p>																			

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# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



<b>Manufacturer:</b> Young Touchstone, a Wabtec Company	<b>UUT 2b</b>
<b>Model Line:</b> Remote CAC	
<b>Model Number:</b> RCAC80A17168 <b>Serial Number:</b> 2979067	

**Product Construction Summary:**  
Carbon steel frame, horizontal arrangement, copper fin core

**Options/Subcomponent Summary:**  
Base mounted, 8 ft<sup>2</sup> size, horizontal core, non-isolated mount

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,700	44.2	55.9	40.3	9.0	20.6	31.0

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

**Test Mounting Details:**



UUT2b was mounted to I-beams with eight (8) 1/2" A307 bolts<sup>1</sup>. The GENSET rail was mounted to the shake table with eight (8) 1/2" A307 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

<sup>1</sup>See drawing with mounting details below for bolt reference. It is assumed that A307 bolts are used to mount the unit to the shake table since this bolt is called out in the drawing.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1800975-CR-001-R4



**Manufacturer:** Young Touchstone, a Wabtec Company

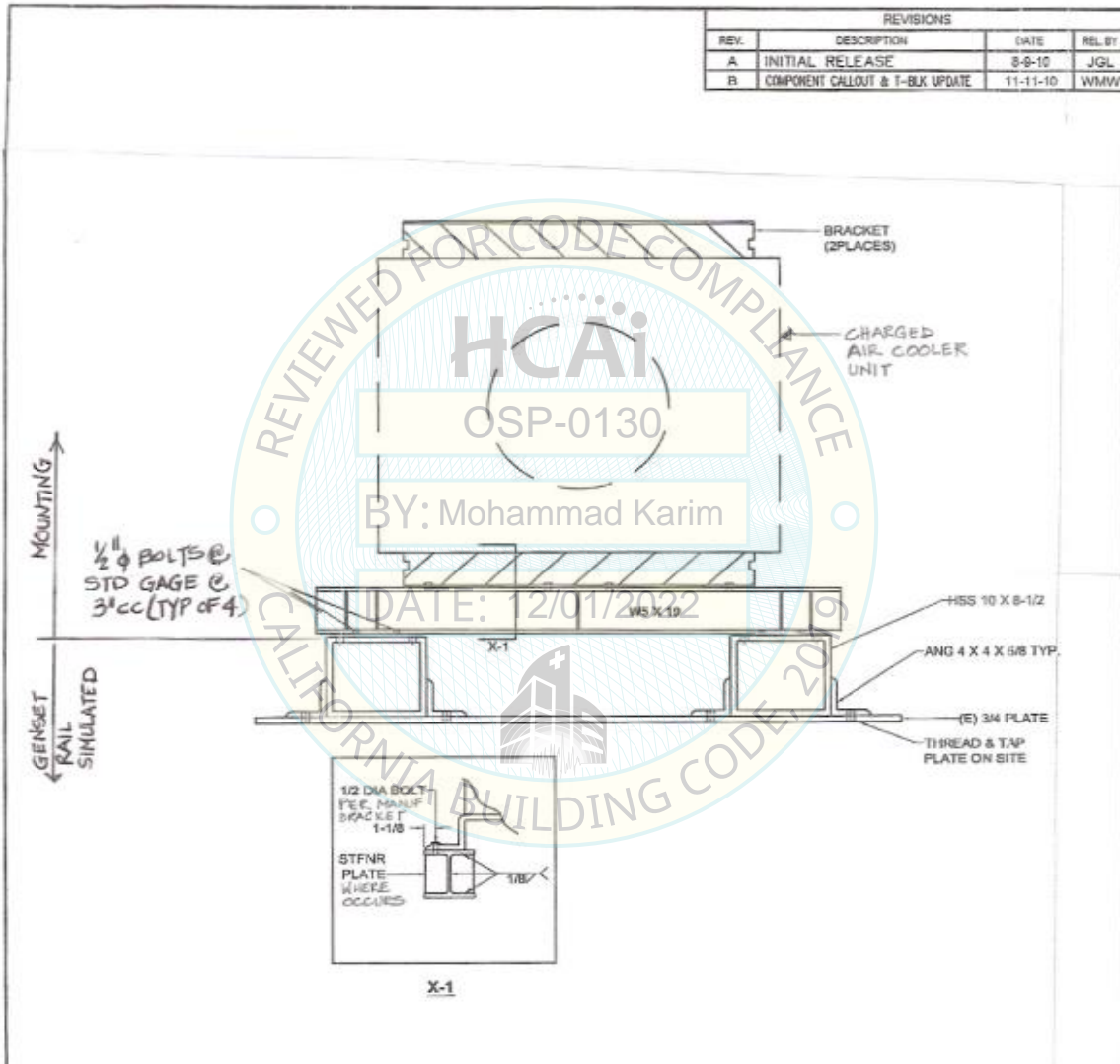
**Model Line:** Remote CAC

**Model Number:** RCAC80A17168

**Serial Number:** 2979067

**UUT 2b**

**Drawing with Mounting Details:**



REVISIONS			
REV.	DESCRIPTION	DATE	REL BY
A	INITIAL RELEASE	9-9-10	JGL
B	COMPONENT CALLOUT & T-BLK UPDATE	11-11-10	WMW

**NOTES:**  
1. ALL DIMENSIONS ARE IN INCHES.

DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY. ALL TOLERANCES ARE TO BE REFERENCED FROM DECIMAL REQUIREMENTS.

<table border="1"> <tr> <th>APPLICATION</th> <th>USED ON</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	APPLICATION	USED ON			<p><b>THE VMC GROUP</b> The Power of Together Bloomington, NJ 07403 Houston, TX 77041</p> <p>Member <b>ASCCAP</b></p>	<p><b>YOUNG TOUCHSTONE</b> 8 SQ FT / 1.5 SQ FT</p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMAL = ±.06 2 PLACE DECIMAL = ±.03 3 PLACE DECIMAL = ±.01 ANGULAR = ±0°30' FRACTIONS = ± 1/16 BREAK SHARP CORNERS R=.005 MAX</p>	<table border="1"> <tr> <td>REV. B</td> <td>SHEET 1 OF 1</td> </tr> <tr> <td>SIZE A</td> <td>SCALE NONE</td> </tr> <tr> <td colspan="2">APPROVALS PER REVISION BLOCK</td> </tr> <tr> <td colspan="2">INTERPRET IAW ANSI Y14</td> </tr> <tr> <td colspan="2">CAGE CODE: 4U931</td> </tr> </table> <p>DWG NO: A-SD-H8015N</p>	REV. B	SHEET 1 OF 1	SIZE A	SCALE NONE	APPROVALS PER REVISION BLOCK		INTERPRET IAW ANSI Y14		CAGE CODE: 4U931	
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