

Forms and Reports contained in:

Civil Special Inspections

Project Template and Report Package

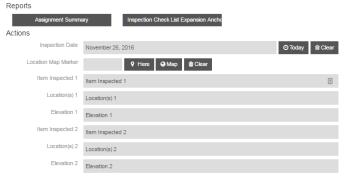
This package contains samples of the User Input Forms and associated Reports that are included in the "Civil Special Inspections" package. Use the "Book Mark" Feature of your PDF viewer to see Table of Contents listing of all pages contained in this document.

Thank You for your interest in Vahalo Technical Management Software.

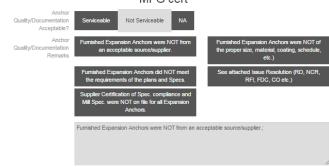
For more information please visit our Website: www.Vahalo.com

Or Email: info@vahalo.com

Expansion Anchors Inspection



ANCHOR QUALITY/DOCUMENTATION • Approved submittals • MFG cert



HOLE PREPARATION • Diameter and Depth • Cleanliness -Blown Brushed Blown w/ Compressed air



INSERTION/SEATING PROCESS • Torque Testing



INSERTION/SEATING PROCESS • Torque Testing





Expansion Anchors Special Inspection and Check List

Report Date: 3/9/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: AISC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / EXPANSION ANCHORS / Insp ChkList Expansion Anchors

	Item Inspected		Location(s)	Elevation
1	Item Inspected 1	Location(s	Elevation 1	
2	Item Inspected 2	Location(s) 2	Elevation 2
	Area of Concern	Accept Report	Comments	
ANCHOR	QUALITY/DOCUMENTATION • Approved submittals • MFG cert	Not Serviceable	Furnished Expansion Anchors were an acceptable source/supplier.;	NOT from
HOLE PRI Compress	EPARATION • Diameter and Depth • Cleanliness - Blown Brushed Blown w/ed air	Not Serviceable	Holes are NOT of proper diameter	and depth.;
INSERTIO	N/SEATING PROCESS • Torque Testing	Not Serviceable	Proper Torque Testing was NOT pe all Anchors.;	erformed on

Weather: Partly Cloudy w/ Wind Inspection Duration (Hours): 6

Temperature: Very Hot 95 - 100 Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

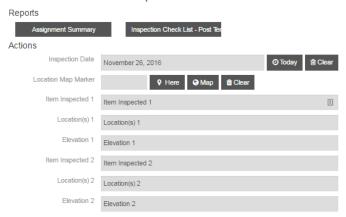
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: Bagins ACI CTT #6789 Manager Cert: Kidd ICC Concrete #8901

System Link: http://demo.Vahalo.com/assignments/5afe8046-0d01-43a7-c43e-636025238801

Post Tension Inspection



MIX/MTLS DOCUMENTED • Source/supplier verified • Mix Design Approved • Surface evaporation Plan(Curing compound) • Hot/Cold weather plan

Mix/Mtls Documentation Acceptable?	Accept Report NA	
Mix/Mtls Documentation Remarks	Concrete mix was NOT approved.	No Surface evaporation Plan was submitted.
	Source/Supplier was not approved.	No Hot/Cold weather plan was submitted.
	inadequate lab test samples taken for concrete strength and Aggregate gradation.	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.)
	Source/Supplier was not approved.;	h.

TENDON QUALITY/DOCUMENTATION • Tendon Mfg. Mill Cert • Sheathing Mfg. Cert



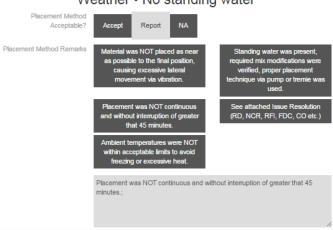
REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Coating Condition • Number and placement per plan • Tied and Spliced per spec • Cover • Bar Positioners spacing and number • Tendon Placement • Sheathing Quality and Condition



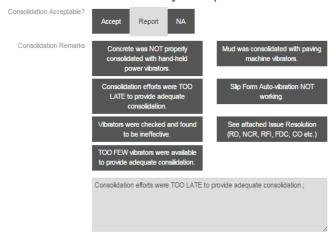
PLACEMENT EQUIPMENT • Delivery truck • delivered within time constraint • Agitated



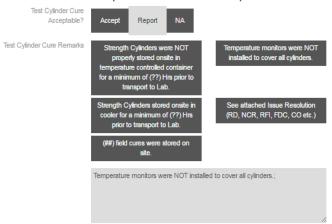
PLACEMENT METHOD • Continuous • No interruption • Placed near final destination • Avoided lateral movement via vibration • Temperature and Weather • No standing water



CONSOLIDATION METHOD • Proper Equipment, checked for effectiveness • Sufficient number of vibrators • Imediately after placement



TEST CYLINDER • Lab test and Field Cure samples taken and properly stored • Time allowed for initial Set • Temperature monitors in place



TENSIONING PROCESS • Verify Gauge & Jack Calibration • Measure Tendons • Verify Strength of Field Cures • Continuos Inspection During Stressing





Post Tension Special Inspection and Check List

Report Date: 3/9/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: AISC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / POST-TENSIONED CONCRETE / Insp ChkList Post Tension

	Item Inspected		Location(s)	Elevation
1	Item Inspected 1	Location(s	5) 1	Elevation 1
2	Item Inspected 2	Location(s	s) 2	Elevation 2
	Area of Concern	Accept Report	Comments	
MIX/MTLS Surface ev	S DOCUMENTED • Source/supplier verified • Mix Design Approved • vaporation Plan(Curing compound) • Hot/Cold weather plan	Not Serviceable	Source/Supplier was not approved.	;
TENDON Cert	QUALITY/DOCUMENTATION • Tendon Mfg. Mill Cert • Sheathing Mfg.	Not Serviceable	Tendons were NOT of the proper s coating, schedule, etc.);	ize, material,
Condition	CING • Rebar approved, Mfg. Certs and submittals on file • Coating • Number and placement per plan • Tied and Spliced per spec • Cover • Bar spacing and number • Tendon Placement • Sheathing Quality and	Not Serviceable	Interface to existing concrete were NOT properly reinforced, cured, cleaned and surface prepped.;	
PLACEME Agitated	ENT EQUIPMENT • Delivery truck • delivered within time constraint •	Not Serviceable	Insufficient samples and cylinders w meet requirements.;	ere taken to
PLACEME • Avoided water	ENT METHOD • Continuous • No interruption • Placed near final destination lateral movement via vibration • Temperature and Weather • No standing	Not Serviceable	Placement was NOT continuous and without interruption of greater that 45 minutes.;	
	DATION METHOD • Proper Equipment, checked for effectiveness • number of vibrators • Imediately after placement	Not Serviceable	Consolidation efforts were TOO LA adequate consolidation.;	ΓE to provide
	LINDER • Lab test and Field Cure samples taken and properly stored • Time r initial Set • Temperature monitors in place	Not Serviceable	Temperature monitors were NOT ir cover all cylinders.;	istalled to
	ING PROCESS • Verify Gauge & Jack Calibration • Measure Tendons • ength of Field Cures • Continuos Inspection During Stressing	Not Serviceable	Gauge failed to produce the require	ed Pressure;

Weather: Partly Cloudy Inspection Duration (Hours): 5

Temperature: Cold 32 - 45 Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

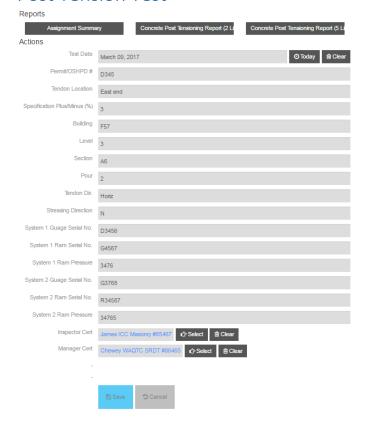
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: James ICC Masonry #85467 Manager Cert: Crockett AWS #63457

System Link: http://demo.Vahalo.com/assignments/f5910362-638c-4c05-7da6-33222c95ffed

Post Tension Test



Post Tension Test Line

Line Location	A45 Floor2
Tension Guage System (1 or 2)	2
-/	
Fraction/Decimal Reference	1/16=0.0625 2/16=1/8=0.125 3/16=0.1875 4/16=1/4=0.25 5/16=0.3125 6/16=3/8=0.375
	7/16=0.4375 8/16=1/2=0.5 9/16=0.5625 10/16=5/8=0.625 11/16=0.6875 12/16=3/4=0.75

nulecimal reference 110=0.025 2/10=10=0.125 3/10=0.1875 4/10=114=0.25 5/10=0.875 0/10=3/4=0.75 7/10=0.4375 8/16=1/20-5. 5/10=0.5655 10/10=5/8=0.625 11/10=0.6875 12/10=3/4=0.75 13/10=0.8125 14/10=7/8=0.875 15/10=0.9375

Elongation Readings

Speci	fied Elong	0.24	Max	
Spe	ec Range ±	0.03	Min	0.21
Tendon Number	Elong 1	Elong 2	Total Elong	Pass Fail
1	0.256		0.256	Pass
2	0.248		0.248	Pass
3	0.237		0.237	Pass
4	0.2		0.200	Fail
			0	
			0	
			0	
			0	
			0	
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Remarks	My Comment	s			
-					
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-					
-					
-					
	Save	"D Cancel			



5041 Pasadena Hwy #701 Pasadena, Texas 77505

Post Tensioning Report

AASHTO:

Report Date: 3/9/2017 **Test Date:** 3/9/17

Tendon Location: East end **Star Fleet Construction Spec Tolerance (±%):** 3

Building: F57 Level: 3

Project Name: ZMR Laboratory Testing and Inspection System 1 System 2 Section: A6

Guage Serial No.: CMT Project No: Star-Lab1 D3456 Pour: 2 G3768 Client Job No: 45678 Ram Serial No.: G4567 Tendon Dir: Horiz R34587 Permit/OSHDP#: D345 Ram Pressure (psi): Stressing Dir: N 3476 34765

	Line Location		A45 Floor2	System	2	Sp	ecified Elong	0.24	Sp	ec Range ±%	0.03	Max/Min	0.27	0.21
Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail	Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail	Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail
1	0.256		0.256	Pass										
2	0.248		0.248	Pass										
3	0.237		0.237	Pass										
4	0.2		0.2	Fail										
	Line Location			Creatana		C-								
-	1			System			ecified Elong			ec Range ±%		Max/Min		
Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail	Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail	Tendon #	Elong 1	Elong 2	Total Elong	Pass Fail
-	1		Total Elong									ŧ	Total Elong	Pass Fail
	1		Total Elong									ŧ	Total Elong	Pass Fail
	1		Total Elong									ŧ	Total Elong	Pass Fail
	1		Total Elong									ŧ	Total Elong	Pass Fail
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Technician:

Manager:

System Link: http://demo.Vahalo.com/assignments/834e2df2-53b3-44a0-3bdd-d181d0cae7fc

Precast Concrete Inspection



Documents Acceptable?

Accept Report NA

Documents Remarks

Concrete mix was NOT approved.

Source/Supplier was not approved.

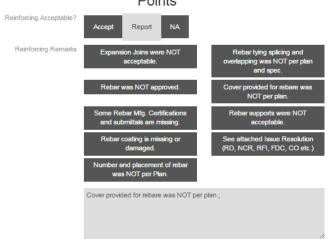
Inadequate lab test samples taken for concrete strength and Aggregate gradation.

Required Air Slump and Temperature tests were NOT performed.;

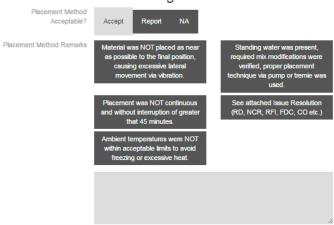
FORMWORK • Proper Materials • Proper Bracing, Block-outs, Chamfers, Liners, Lifting Hardware, Embed Plates • Size and Dimensions per Plan • Clean and Free of Debris • Oiled for Release



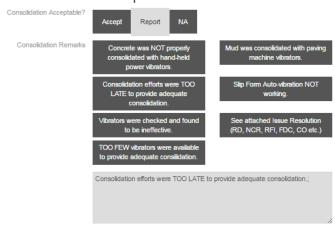
REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Coating Condition • Number Size and Spacing per Plan • Tied and Spliced per Spec • Cover • Bar Positioners spacing and number • Pick Points



PLACEMENT METHOD • Continuous, Timely • Placed near final destination • Vibrators not used for lateral movement • Temperature and Weather • No standing water



CONSOLIDATION METHOD • Proper Equipment, Vibratable, Checked for Effectiveness • Sufficient number of vibrators • Consolidated Imediately after placement



TEST CYLINDER • Proper On-site storage w/ temperature control and time to allow initial Set

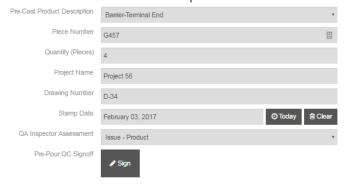


POST-CURE PRE-SHIP CONDITION • Proper Cure • Proper storage conditions • Cracks, Spalls, Chips, Deformities, Defects • Witness 7 Day release Break by QC

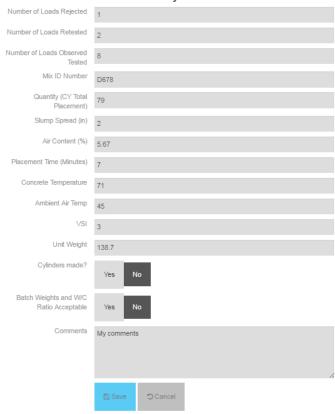


Pre-Cast Inspection Item

Pre-Pour Inspection



Concrete Quality Assessment





Report Date 3/10/2017 Date Inspected 2/14/2017 **Inspection Durration** 6.0 **Acceptance Decision Fail**

Star Fleet Construction Main Shop 2 5041 Pasadena Hwy #701 Pasadena Texas, 77505

Pre-Cast Yard Acme Supply

Concrete Supplier Bedrock Gravel and Stone

Code AISC

Client Reference No 45678

Project No Star-Lab1

Project/Task/Assn: ZMR Laboratory Testing and Inspection / PRE-CAST CONCRETE / KG5467 InspPrecastConcrete GP 2/14

Area of Concern	Accept Report	Comments
FORMWORK • Proper Materials • Proper Bracing, Block-outs, Chamfers, Liners, Lifting Hardware, Embed Plates • Size and Dimensions per Plan • Clean and Free of Debris • Oiled for Release	Not Serviceable	Formwork was NOT properly cleaned and oiled for release.;
REINFORCING • Rebar approved, Mfg. Certs and submittals on file • Coating Condition • Number Size and Spacing per Plan • Tied and Spliced per Spec • Cover • Bar Positioners spacing and number • Pick Points	Not Serviceable	Cover provided for rebare was NOT per plan.;
DOCUMENTS • Plant Pre-qualified • Certified Technicians • Conforms to Approved Drawings, Notes, Specifications • Hot/Cold weather Plan	Not Serviceable	Required Air Slump and Temperature tests were NOT performed.;
PLACEMENT METHOD • Continuous, Timely • Placed near final destination • Vibrators not used for lateral movement • Temperature and Weather • No standing water	Serviceable	
CONSOLIDATION METHOD • Proper Equipment, Vibratable, Checked for Effectiveness • Sufficient number of vibrators • Consolidated Imediately after placement	Not Serviceable	Consolidation efforts were TOO LATE to provide adequate consolidation.;
TEST CYLINDER • Proper On-site storage w/ temperature control and time to allow initial Set	Not Serviceable	Strength Cylinders stored onsite in cooler for a minimum of (??) Hrs prior to transport to Lab.;
Post-Cure Documentation Remarks	Serviceable	

Weather Partly Cloudy w/ Wind Temperature Cool 45 - 50 **General Remarks** Remarks

Inspector Greg Putnam **Inspector Cert** Crockett AWS #63457

Reviewer Greg Putnam Reviewer Cert Kidd ICC Concrete #8901

3/10/2017 8:00:36 AM 1

.	-				
Pre-Pour Inspect				n: N 1	D246E
Product Description				Piece Number	D3465
Project Nam				Quantity	3
InspectorAssessme				Drawing No.	D-34
QC Signo	off			Dwg Stamp Date	2/1/2017
Concrete Quality	Assessm	ent			
#Loads Rejected	1	Slump/Spread	2.50	Place Time (Min)	8
# Retested	2	Air Content %	4.80	VSI	34.0
# Observed	6	Concrete Temp	77	Unit Weight	134.7
Mix ID	D678	Ambient Temp	58	Batch Wt & W/C OK?	Yes
Qty(CY Total)	59.0	Cylinders?	Yes		
Remarks		-	My Comm	nets	
Pre-Pour Inspect	ion				
Product Description		rminal End		Piece Number	G457
Project Nam	ne Project 56			Quantity	4
InspectorAssessme	nt Issue - Pro	oduct		Drawing No.	D-34
QC Signo	ff			Dwg Stamp Date	2/3/2017
Concrete Quality	Assessm	ent			
#Loads Rejected	1	Slump/Spread	2.00	Place Time (Min)	7
# Retested	2	Air Content %	5.67	VSI	3.0
# Observed	8	Concrete Temp	71	Unit Weight	138.7
Mix ID	D678	Ambient Temp	45	Batch Wt & W/C OK?	Yes
Qty(CY Total)	79.0	Cylinders?	Yes		
Remarks			My comm	ents	
Pre-Pour Inspect	ion				
Product Description	n Sound Wa	II - Post		Piece Number	F587
Project Nam	ne Project 56			Quantity	3
InspectorAssessme	nt OK as-is			Drawing No.	D-34
QC Signo	ff			Dwg Stamp Date	2/4/2017
Concrete Quality	Assessm	ent			
#Loads Rejected	1	Slump/Spread	2.24	Place Time (Min)	9
# Retested	1	Air Content %	4.70	VSI	3.0
# Observed	8	Concrete Temp	69	Unit Weight	139.0
# Obscived		F			
# Observed Mix ID	D678	Ambient Temp	45	Batch Wt & W/C OK?	Yes
	D678 57.0	Ambient Temp Cylinders?	45 Yes	Batch Wt & W/C OK?	Yes

3/10/2017 8:00:36 AM 2

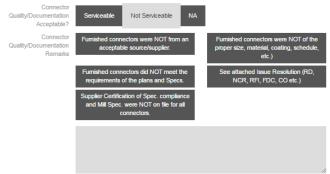
Epoxy Dowels/Anchors Inspection

Assignment Summary Assignment Summary Inspection Check List Epoxy Actions Inspection Date November 26, 2016 P Here Map Clear Item Inspected 1 Location(s) 1 Location(s) 1 Elevation 1 Item Inspected 2 Location(s) 2 Location(s) 2 Elevation 2 Elevation 2 Elevation 2

EPOXY QUALITY/DOCUMENTATION • Approved Epoxy Material • Expiration Date



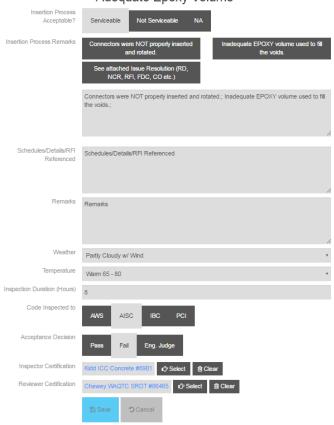
CONNECTOR QUALITY/DOCUMENTATION • Per Project Documents • Mill Spec • length • Diameter • Material Type



HOLE PREPARATION • Diameter • Depth • Cleanliness - Blown Brushed Blown w/ compressed air



INSERTION PROCESS • Insertion Method and Rotation • Adequate Epoxy Volume





Epoxy Special Inspection and Check List

Report Date: 3/11/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: AISC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / EPOXY DOWELS/ANCHORS / Insp ChkList Epoxy Dowels/Anchors

	Item Inspected		Location(s)	Elevation
1	Item Inspected 1	Location(s) 1	Elevation 1
2	Item Inspected 2	Location(s	<i>'</i>	Elevation 2
	Area of Concern	Accept Report	Comments	
EPOXY Q	UALITY/DOCUMENTATION • Approved Epoxy Material • Expiration Date	Report		
	TOR QUALITY/DOCUMENTATION • Per Project Documents • Mill Spec • iameter • Material Type	Report		
HOLE PRI compresse	EPARATION • Diameter • Depth • Cleanliness - Blown Brushed Blown w/ed air	Accept	Holes have not been properly blown be and re-blown.;	rushed
INSERTIC	ON PROCESS • Insertion Method and Rotation • Adequate Epoxy Volume	Accept	Connectors were NOT properly inserter rotated.; Inadequate EPOXY volume uthe voids.;	

Weather: Partly Cloudy w/ Wind

Inspection Duration (Hours): 8

Temperature: Warm 65 - 80

Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: Kidd ICC Concrete #8901 Manager Cert: Chewey WAQTC SRDT #86465

System Link: http://demo.Vahalo.com/assignments/f2cd39b6-c5bf-45aa-74c3-7bbc3a4a8002

Proof-Load Testing Inspection



TEST PROCESS • Test Quantity • Test Pattern





Proof-Load Testing Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 3/10/17

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Segment#: D345

Crew Foreman: Joe Blow Activity#: A3450

Contractor: Staker Lab#: 37556

Project/Task/Assn: ZMR Laboratory Testing and Inspection / PROOF LOAD TESTING / Star-Lab1 InspProofLoad GP 3/10

Items Inspected: 3rd Floor deck

Location: NW Corner

Area of Concern	Accept Report	Comments
EQUIPMENT • Calibration • Adequate Capacity	Report	Proof-Test Device failed to produce the required Pressure; See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);
TEST PROCESS • Test Quantity • Test Pattern	Accept	

Weather: Partly Cloudy w/ Wind Inspection Duration (Hours): 5

Temperature: Mild 50 - 65 Acceptance Decision: Fail

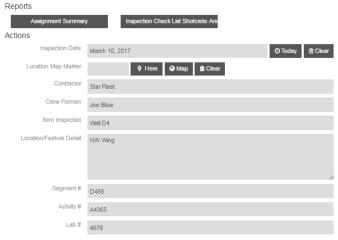
Remarks: My Comments

Inspector: Manager:

Inspector Cert: Crockett AWS #63457 Manager Cert: Kidd ICC Concrete #8901

System Link: http://demo.Vahalo.com/assignments/80c73357-6af9-45ed-feba-4ae32beea9fa

Shotcrete Inspection



PRE-PRODUCTION TEST • Proper panel Placement • Coring Compression Test • Nozzleman Grading



PLACEMENT PROCESS • Check Tickets • Rebound Effects • Nozzle Distance, and Velocity



TEST RESULTS • Temperature • Slump • WC Ratio • Coring for Strength Tests







Shotcrete Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 3/10/17

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Segment #: D456

Crew Foreman: Joe Blow Activity#: A4365

Contractor: Star Fleet Lab#: 4876

Project/Task/Assn: ZMR Laboratory Testing and Inspection / SHOTCRETE TEST PANEL / Star-Lab1 InspShotcrete GP 3/10

Items Inspected: Wall D4

Location: NW Wing

Area of Concern	Accept Report	Comments
PRE-PRODUCTION TEST • Proper panel Placement • Coring Compression Test • Nozzleman Grading	Report	Coring compression test FAILED;
PLACEMENT PROCESS • Check Tickets • Rebound Effects • Nozzle Distance, and Velocity	Accept	
TEST RESULTS • Temperature • Slump • WC Ratio • Coring for Strength Tests	Report	Coring compression test FAILED;

Weather: Rain Inspection Duration (Hours): 4

Temperature: Warm 65 - 80 Acceptance Decision: Fail

Remarks: My Commnets

Inspector: Greg Putnam Manager: Greg Putnam

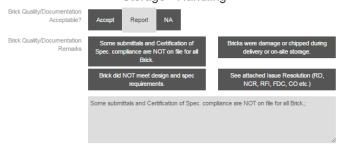
Inspector Cert: Crockett AWS #63457 Manager Cert: James ICC Masonry #85467

System Link: http://demo.Vahalo.com/assignments/fc10a47b-0536-43fd-9136-e59707997a5f

Masonry Inspection

Assignment Summary Assignment Summary Inspection Check List - Masonry Actions Inspection Date November 26, 2016 O Today Clear Mix Design West Pt AA(AE) 4000-C3361N59 Acceptance Criteria As465 Grout As465 Grout Requirement Summary Item Inspected 1 Location(s) 1 Elevation 1 Elevation 1 Elevation 1 Item Inspected 2 Location(s) 2 Elevation 2 Elevation 2

BRICK QUALITY/DOCUMENTATION • Mfg. Spec • Delivery • Storage • Handling



GROUT QUALITY/DOCUMENTATION • Mix Design • Temperature and Slump tested • Prisms if Needed



APPLICATION PROCESS • Water added only at beginning of truck • Proper Consolidation



TESTING • Samples taken and Prizms Prepared • IBC requires 5 test prior to production and 3 tests/ 5000SF of Wall/ block size





Masonry Special Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: PCI

Mix Design: West Pt AA(AE) 4000-C3361N59 Accept Criteria: AS465 Grout

Project/Task/Assn: ZMR Laboratory Testing and Inspection / MASONRY / Insp ChkList Masonry

	Item Inspected		Location(s)	Elevation		
1	Item Inspected 1	Location(s	Elevation 1			
2	Item Inspected 2	Location(s	Elevation 2			
	Area of Concern	Accept Report	Comments			
BRICK QU	JALITY/DOCUMENTATION • Mfg. Spec • Delivery • Storage • Handling	Report	Some submittals and Certification of Spec. compliance are NOT on file for all Brick.;			
GROUT G • Prisms if	QUALITY/DOCUMENTATION • Mix Design • Temperature and Slump tested Needed	Report	Source/Supplier was not approved.			
APPLICAT Consolidat	FION PROCESS • Water added only at beginning of truck • Proper tion	Report	Water was added to the mix excess wrong time.;	ively or at the		

Weather: Partly Cloudy w/ Wind

Inspection Duration (Hrs): 8

Temperature: Cold 32 - 45

Acceptance Decision: Pass

CMU Condition / Grade: CMU Condition CMU Grade

CMU Size: CMU Size

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

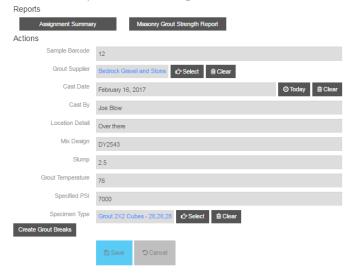
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: Crockett AWS #63457 Manager Cert: Micky WAQTC CTT #93456

System Link: http://demo.Vahalo.com/assignments/87d13553-2a7f-4e60-3798-2c6d130197e6

Grout Compressive Strength





Star Fleet Construction

Compressive Strength of Masonry Grout

5041 Pasadena Hwy #701 Pasadena, Texas 77505

ASTM: C1019

Report Date: 3/10/2017

Date Cast: 2/16/17

CMT Project No: Star-Lab1

Mix Design: DY2543

Client Job No: 45678

Sample Barcode: 12

Supplier: Bedrock Gravel and Stone

Cast By: Joe Blow

Project/Task/Assn: ZMR Laboratory Testing and Inspection / MASONRY / Star-Lab1 GroutStrngth GP 2/16

Location: Over there

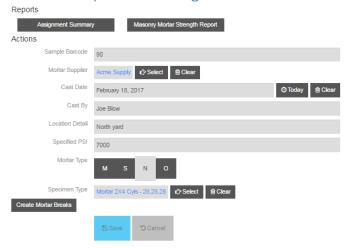
Speciman Type:Grout 2X2 Cubes - 28,28,28Slump:2.5Specified PSI:7000Temperature:76

Break Date	Age	Width In.	Length In.	Area Sq. In.	Total Load Lbs.	Strength PSI
3/18/17	28	2.00	2.00	4.00		0
3/18/17	.7 28 2.00		2.00	4.00		0
		0	0	0.00		0

Tested By: Greg Putnam **Manager:** Greg Putnam

System Link: http://demo.Vahalo.com/assignments/92bb4a78-8bab-4e9f-0a83-69fcd53ecb98

Mortar Compressive Strength





Star Fleet Construction

Compressive Strength of Masonry Mortar

5041 Pasadena Hwy #701 Pasadena, Texas 77505

ASTM: C780

Report Date: 3/10/2017

Date Cast: 2/18/17

CMT Project No: Star-Lab1

Mortar Type: N

Client Job No: 45678

Sample Barcode: 90

Supplier: Acme Supply

Cast By: Joe Blow

Project/Task/Assn: ZMR Laboratory Testing and Inspection / MASONRY / KG5467 MortarStrngth GP 2/18

Cast by: Joe blow

Location: North yard

Speciman Type: 2in X 4in Cylinders

Specified PSI: 7000

Break Date	Age	Diam. In.	Height In.	Area Sq. In.	Total Load Lbs.	Strength PSI
2/25/17	7	2.00	4.00	3.14		0
3/18/17	28	2.00	4.00	3.14		0
3/18/17	28	2.00	4.00	3.14		0
3/18/17	28	2.00	4.00	3.14		0

Tested By: Greg Putnam **Manager:** Greg Putnam **System Link:** http://demo.Vahalo.com/assignments/9b824c1c-ccb8-469b-415c-8676c3001f3e

Prism Compressive Strength





Star Fleet Construction

Compressive Strength of Masonry Prisms

5041 Pasadena Hwy #701 Pasadena, Texas 77505

CMT Project No: Star-Lab1

ASTM: C1314

Report Date: 3/10/2017

Date Cast: 2/18/17

Mix Design: J34657

Client Job No: 45678 Sample Barcode: 254

Cast By: Joe Blow Masonry Supplier: Bedrock Gravel and Stone

Mortar Type: S **Grout Supplier:** Acme Supply

Project/Task/Assn: ZMR Laboratory Testing and Inspection / MASONRY / KG5467 PrismStrngth GP 2/18

Location: Over there >>>>

Slump: 2.5 Block/Brick Type: CMU Temperature: 78 Specified PSI: 7000

Break Date	Age	Width In.	Length In.	Height In.	Area Sq. In.	н/т	Corr factor	Total Load Lbs.	Strength PSI
3/18/17	28	7.62	7.77	15.73	59.21	2.06	1.00		0
3/18/17	28	7.62	7.77	15.73	59.21	2.06	1.00		0
3/18/17	28	7.62	7.77	15.73	59.21	2.06	1.00		0

Tested By: Manager:

System Link: http://demo.Vahalo.com/assignments/734453bb-d7d2-475c-fa36-dc0c9523c44d

CMU Test Series

Reports Assignment Summary Masonry CMU Test Series Report Actions Sample Barcode 12354 Description 8X8X16" Split face CMU Test date February 24, 2017 Absorption Specimen Dimensions Length (in.) 15.38 15.38 15.5 15.42 Height (in.) 7.64 7.64 7.54 7.61 Absorption, Density & Net Area

Specimen
I.D. Absorption (pcf) Dry Density (pcf) Net Area (%) A 10.97 10.91 100.61 B 8.59 8.26 104.00 C 8.93 8.58 104.08 Average 9.50 9.25 102.90 52.70 52.20 52.47 52.48 Dimensions Specimen Mass Gross I.D. (grams) Area Total Load (lbs)
 I.D.
 (grams)
 Area
 Length
 Width

 1
 15438.1
 3.45
 15.38
 7.68

 2
 16728.4
 3.65
 15.38
 7.68

 3
 15992.3
 3.65
 15.50
 7.69

 Average
 15.586.27
 3.55
 15.42
 7.68
 186,180 182,340 169,700 1,580 3,010 1,540 2,940 Shrinkage Shrinkage (%) 0.036 0.048 0.041

'D Cancel



CMU Compression, Absorbtion, Moisture Content & Shrinkage

Report Date: 3/10/2017 Test Date: 2/24/17 Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

SampleBarcode: 12354

Project/Task/Assn: ZMR Laboratory Testing and Inspection / MASONRY / KG5467 CMUTests GP 2/24

Description: 8X8X16" Split face CMU

Description:	Description: 8X8X16" Split face CMU											
Absorption Specim	en Dimen	sions										
				Dimer	nsions							
Specimen I.D.	Lengt	h (in.)	Width	n (in.)	Heigh	nt (in.)	Volume (cu. ft.)					
Α	15.	.38	7.0	66	7.0	64	0.52					
В	15.	.38	7.0	68	7.0	64	0.	52				
С	15	5.5	7.0	69	7.	54	0.	52				
Average	Average 15.42			68	7.0	61	0.	52				
Absorption Specim	Absorption Specimen Mass Data Input											
	Rece			SD	Imme	ersed	Dry					
Specimen I.D.	Grams	Pounds	Grams	Pounds	Grams	Pounds	Grams	Pounds				
А	12,661.0	27.91	13,894.0	30.63	6,124.2	13.50	12,527.5	27.62				
В	13,020.0	28.70	13,920.9	30.69	6,205.2 13.68		12,858.9	28.35				
С	13,058.0	28.79	13,988.7	30.84	6,264.5	13.81	12,883.9	28.40				
Average	12,913.0	28.47	13,934.5	30.72	6,198.0	13.66	12,756.8	28.12				
Absorption, Densit	y & Net Aı	rea										
Specimen I.D.	Absorption	n (pcf) (%)	Dry Den	sity (pcf)	Net Ar	ea (%)		Content 6)				
Α	10.97	10.91	100).61	52.	.70	9.	77				
В	8.59	8.26	104.00		52.	.20	15.	.17				
С	8.93	8.58	104.08		52.47		15.76					
Average	Average 9.50 9.25				52.	.46	13.57					
Compressive Stren	gth							_				

Specimen I.D.	Mass	Gross	Dimer	nsions	Total Load (lbs)	Strength (psi		
Specimen 1.D.	(grams)	Area	Length	Width	Total Load (IDS)	Gross	Net	
1	15438.1	3.45	15.38	7.66	186,180	1,580	3,010	
2	15728.4	3.65	15.38	7.68	182,340	1,540	2,940	
3	15592.3	3.56	15.50	7.69	169,700	1,420	2,710	
Average	15,586.3	3.55	15.42	7.68		1,520	2,890	

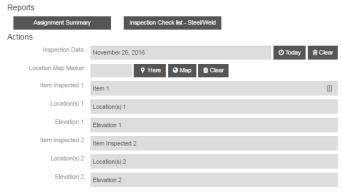
Shrinkage

Specimen I.D.	Shrinkage (%)				
S1	0.036				
S2	0.048				
S3	0.041				
Average	0.042				

Technician: Greg Putnam Manager: Greg Putnam

System Link: http://demo.Vahalo.com/assignments/918dc34b-6431-4342-1372-dc8e81cbe8c9

Steel/WeldInspection



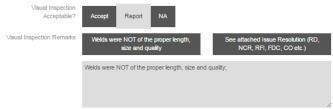
STEEL QUALITY/DOCUMENTATION • Verify Mfg. Mill Cert • Verify WPS • Welder Qualification



WELDING ROD QUALITY/DOCUMENTATION • Verify Electrode per plan • Verify electrode storage • Verify Required Code



VISUAL INSPECTION • Weld Size • Length • Quality • Stud Count • Seam Laps Preheat Temperature • Continuous for multi-pass fillet welds, groove welds and reinforcing steel



NDE • Other NDE Performed if required.





Steel/Welding Special Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: IBC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / STRUCTURAL STEEL / Insp ChkList Steel/Weld

	Item Inspected		Location(s)	Elevation		
1	Item 1	Location(s) 1	Elevation 1		
2	Item Inspected 2	Location(s) 2	Elevation 2		
	Area of Concern	Accept Report	Comments			
STEEL QU Qualification	JALITY/DOCUMENTATION • Verify Mfg. Mill Cert • Verify WPS • Welder on	Report	Supplier Certification of Spec. compliance and Mill Spec. were NOT on file for all Steel Material			
	ROD QUALITY/DOCUMENTATION • Verify Electrode per plan • Verify storage • Verify Required Code	Report	Mfg. Data sheets were NOT on file for all welding Rod and Wire.;			
	ISPECTION • Weld Size • Length • Quality • Stud Count • Seam Laps emperature • Continuous for multi-pass fillet welds, groove welds and steel	Report	Welds were NOT of the proper leng quality;	th, size and		
NDE • Oth	er NDE Performed if required.	Report	AUT - Automated Ultrasonic; MT - Particle; UTSW - Ultrasonic Shear NRadiographic;			

Weather: Partly Cloudy Inspection Duration (Hours): 7

Temperature: Warm 65 - 80 Acceptance Decision: Fail

WPS: F34joii Welder Certificates Current?: No

Schedules/Details/RFI Referenced: My schedules

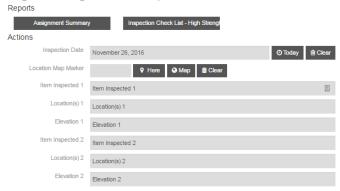
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

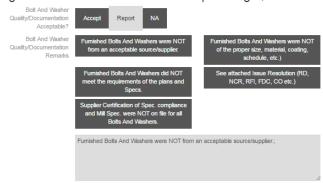
Inspector Cert: Crockett AWS #63457 Manager Cert: Micky WAQTC CTT #93456

System Link: http://demo.Vahalo.com/assignments/db327282-7064-4782-350f-735d3f5da79f

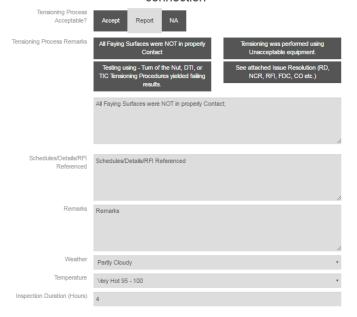
High Strength Bolt Inspection



BOLT AND WSHER QUALITY/DOCUMENTATION • Verify Mfg. Mill Cert • Skidmore Tested • Proper Length, Diameter



TENSIONING PROCESS • All Faying Surfaces in Contact • Adequate Equipment• Tested using - Turn of the Nut, DTI, or TIC Tensioning Procedures • SC or NS • IBC – Min 2 bolts/connection, Min 10% of all bolts in Slip critical connection







High Strength Bolt Special Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: AISC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / STRUCTURAL STEEL / Insp ChkList High Strength Bolt

	Item Inspected		Location(s)	Elevation		
1	Item Inspected 1	Location(s	Elevation 1			
2	Item Inspected 2	Location(s	5) 2	Elevation 2		
	Area of Concern	Accept Report	Comments			
	O WSHER QUALITY/DOCUMENTATION • Verify Mfg. Mill Cert • Skidmore roper Length, Diameter	Report	Furnished Bolts And Washers were NOT from an acceptable source/supplier.;			
Tested usi	ING PROCESS • All Faying Surfaces in Contact • Adequate Equipment• ng - Turn of the Nut, DTI, or TIC Tensioning Procedures • SC or NS • IBC – //connection, Min 10% of all bolts in Slip critical connection	Report	All Faying Surfaces were NOT in pr Contact;	operly		

Weather: Partly Cloudy Inspection Duration (Hours): 4

Temperature: Very Hot 95 - 100 Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

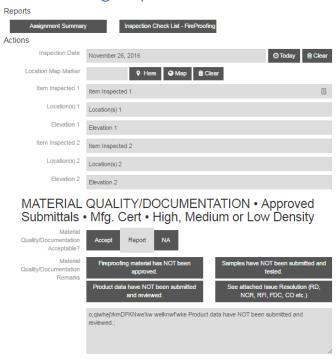
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

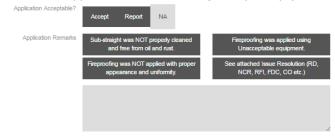
Inspector Cert: Chewey WAQTC SRDT #86465 Manager Cert: James ICC Masonry #85467

System Link: http://demo.Vahalo.com/assignments/def3bf4c-d80c-4f85-ca8e-d48902f503c4

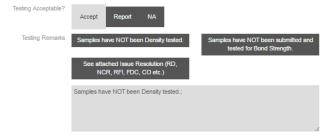
Fire Proofing Inspection

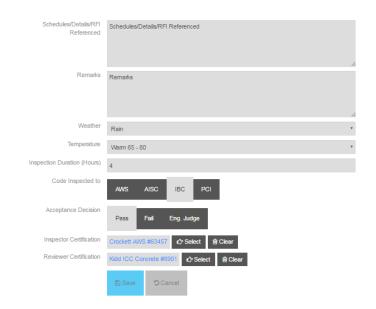


APPLICATION PROCESS • Sub straight Clean, Free of Oil and Rust • Appearance and uniformity • Proper Equipment



TESTING • Adhesion/Cohesion Strength • Density Testing • 3 Tests from Primary, Secondary, Deck • Thickness Testing Done







Fire Proofing Special Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: IBC

Project/Task/Assn: ZMR Laboratory Testing and Inspection / FIREPROOFING / Insp ChkList FireProofing

	Item Inspected		Location(s)	Elevation
1	Item Inspected 1	Location(s	Elevation 1	
2	Item Inspected 2	Location(s	.) 2	Elevation 2
	Area of Concern	Accept Report	Comments	
	L QUALITY/DOCUMENTATION • Approved Submittals • Mfg. Cert • High, r Low Density	Report	o;qiwhej'rkmDFKNwe'kw welknwf'v data have NOT been submitted and	
	TION PROCESS • Sub straight Clean, Free of Oil and Rust • Appearance mity • Proper Equipment	NA		
	Adhesion/Cohesion Strength • Density Testing • 3 Tests from Primary, y, Deck • Thickness Testing Done	Accept	Samples have NOT been Density to	ested.;

Weather: Rain Inspection Duration (Hours): 4

Temperature: Warm 65 - 80 Acceptance Decision: Pass

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

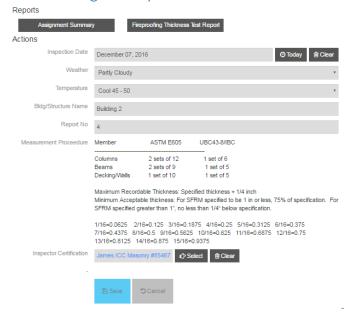
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: Crockett AWS #63457 Manager Cert: Kidd ICC Concrete #8901

System Link: http://demo.Vahalo.com/assignments/ddd9fa35-98cc-492e-90ac-fc140633cfc1

Fire Proofing Density Test







WIDGETS LTD

Star Fleet Construction 5041 Pasadena Hwy #701 Pasadena, Texas 77505

Fireproofing Thickness

ASTM:E605/UBC/43-8/IBC

Report Date: 3/10/2017

Test Date: 12/7/16

Rerport Number: 4

Weather: Partly Cloudy

Temp: Cool 45 - 50

CMT Project No: Star-Lab1
Client Job No: 45678

Project Name: ZMR Laboratory Testing and Inspection

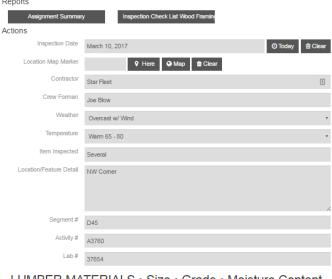
Struct/Building: Building 2

					Measurement Location													
Test #	Member Type	Level	Member Location	1	2	3	4	5	6	7	8	9	10	11	12	Avg	Spec	Accept Reject
1	Beam	2	Here	1	2	3	4									2.5	1.25	Accept
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		-
18																		
19																		

Technician: Greg Putnam Manager: Greg Putnam

System Link: http://demo.Vahalo.com/assignments/d9f068dc-2acd-4df2-c16b-0b8650225e0b

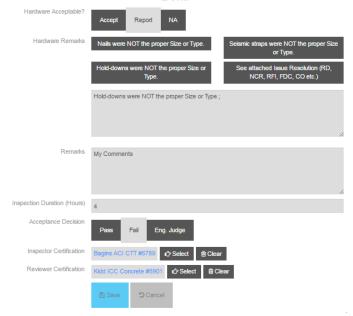
Structural Wood Inspection



LUMBER MATERIALS • Size • Grade • Moisture Content • Protection During Storage



HARDWARE • Nail Size and Type • Hold Down Size and Type • Seismic Strap Size and Type • Epoxied Hold-down Bolts





Wood Framing Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 3/10/17

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Segment#: D45

Crew Foreman: Joe Blow Activity#: A3760

Contractor: Star Fleet Lab#: 37654

Project/Task/Assn: ZMR Laboratory Testing and Inspection / WOOD FRAMING INSPECTION / Star-Lab1 InspWoodFram GP 3/10

Items Inspected: Several

Location: NW Corner

Area of Concern	Accept Report	Comments
LUMBER MATERIALS • Size • Grade • Moisture Content • Protection During Storage	Report	Materials did NOT meet proper moisture content.;
HARDWARE • Nail Size and Type • Hold Down Size and Type • Seismic Strap Size and Type • Epoxied Hold-down Bolts	Report	Hold-downs were NOT the proper Size or Type.;

Weather: Overcast w/ Wind Inspection Duration (Hours): 4

Temperature: Warm 65 - 80 Acceptance Decision: Fail

Remarks: My Comments

Inspector: Greg Putnam Manager: Greg Putnam

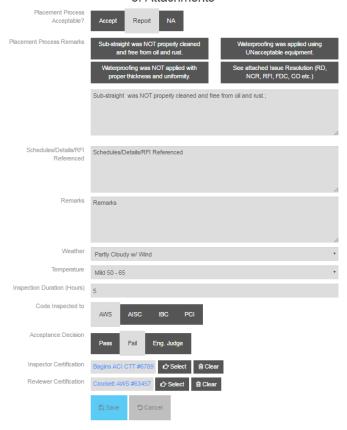
Inspector Cert: Bagins ACI CTT #6789 Manager Cert: Kidd ICC Concrete #8901

System Link: http://demo.Vahalo.com/assignments/b4acc3a8-8118-448d-0425-900504ae3da7

Water Proofing Inspection



PLACEMENT PROCESS • Substrate - Clean, Dry, Oil Free • Verify Vertical and Horizontal Membrane Joints • Sealing of Attachments





WaterProofing Special Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 11/26/16

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Code Inspected to: AWS

Project/Task/Assn: ZMR Laboratory Testing and Inspection / WATERPROOFING / Insp Water Proofing

	Item Inspected		Location(s)	Elevation
1	Item Inspected 1	Item Inspected 1		Elevation 1
2	Item Inspected 2	Location(s) 2		Elevation 2
	Area of Concern	Accept Report	Comments	
MATERIAL QUALITY/DOCUMENTATION • Approved Submittals • Mfg. Certification Report Material supplier has NOT been approved.;				
PLACEMENT PROCESS • Substrate - Clean, Dry, Oil Free • Verify Vertical and Horizontal Membrane Joints • Sealing of Attachments		Report	Sub-straight was NOT properly clear from oil and rust.;	aned and free

Weather: Partly Cloudy w/ Wind Inspection Duration (Hours): 5

Temperature: Mild 50 - 65 Acceptance Decision: Fail

Schedules/Details/RFI Referenced: Schedules/Details/RFI Referenced

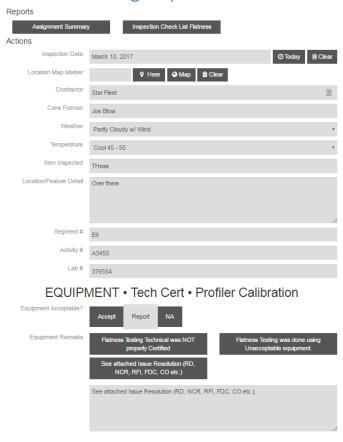
Remarks: Remarks

Inspector: Greg Putnam Manager: Greg Putnam

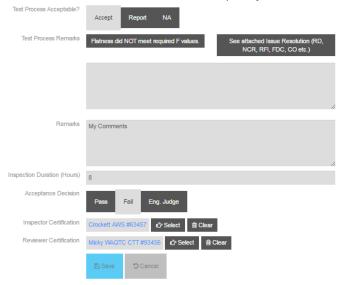
Inspector Cert: Bagins ACI CTT #6789 Manager Cert: Crockett AWS #63457

System Link: http://demo.Vahalo.com/assignments/4518490e-188e-4ef2-6021-925a3e66fa5f

Flatness Testing Inspection



TEST PROCESS • Placement • Frequency • Pattern





Flatness Testing Inspection and Check List

Report Date: 3/10/2017 Inspection Date: 3/10/17

Client: Star Fleet Construction CMT Proj. No: Star-Lab1

Address: 5041 Pasadena Hwy #701 Pasadena, Texas 77505 Client Project No: 45678

Segment #: E6

Crew Foreman: Joe Blow Activity#: A3450

Contractor: Star Fleet Lab#: 376554

Project/Task/Assn: ZMR Laboratory Testing and Inspection / FLATNESS TESTING / Star-Lab1 InspFlatness GP 3/10

Items Inspected: THese

Location: Over there

Area of Concern	Accept Report	Comments
EQUIPMENT • Tech Cert • Profiler Calibration	Report	See attached Issue Resolution (RD, NCR, RFI, FDC, CO etc.);
TEST PROCESS • Placement • Frequency • Pattern	Accept	

Weather: Partly Cloudy w/ Wind Inspection Duration (Hours): 8

Temperature: Cool 45 - 50 Acceptance Decision: Fail

Remarks: My Comments

Inspector: Greg Putnam Manager: Greg Putnam

Inspector Cert: Crockett AWS #63457 Manager Cert: Micky WAQTC CTT #93456

System Link: http://demo.Vahalo.com/assignments/5c8a72cd-7e91-4c28-82b8-71baf2814f81