



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)		For Office Use Only	
		Application #	OPL-0036-15
Name of Approved Agency/Laboratory Twining, Inc.	City San Diego	County San Diego	State CA
APPLICATION TYPE / FEE			
Application is based on:	New Application Fee (Fees are Nonrefundable)	Renewal Fee (Fees are Nonrefundable)	
<input type="checkbox"/> DSA-LEA Approved Only	<input type="checkbox"/> \$250.00	<input type="checkbox"/> \$250.00	
<input type="checkbox"/> Accreditation Only	<input type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	
<input checked="" type="checkbox"/> Both DSA-LEA Approved and Accreditation	<input checked="" type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	
APPLICANT INFORMATION			
Applicant Name Robert Clevenger	Signature <i>R. Clevenger</i>	Position in the Organization Laboratory Manager	
Agency/Laboratory Name Twining, Inc.		Application Date 8/3/15	
Phone Number (858) 974-3750 (office)	E-Mail RClevenger@twininginc.com		
Address of Facility Location <i>(Each facility location requires separate application.)</i>			
Street 15950 Bernard Center Drive Suite J			
City: San Diego	County San Diego	State: California	Zip Code: 92127
Facility Mailing Address <i>(If different from facility address above.)</i>			
Street			
City:		State:	Zip Code:
KEY PERSONNEL <i>(Attach additional pages if needed.)</i>			
Engineering Manager <i>(or equivalent)</i> – Name Chad Davis, PE	CA Registration Number C59908	Expiration Date 12/31/2015	
Title in the Organization Regional Manager	Phone Number (909) 915-2055		
FAX Number (858) 974-3752	E-Mail Cdavis@twininginc.com		
Alternate to Engineering Manager <i>(if any)</i> – Name	CA Registration Number	Expiration Date	
Title in the Organization	Phone Number		
FAX Number	E-mail		

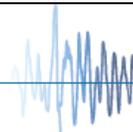




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KEY PERSONNEL <i>(Attach additional pages if needed.)</i>		
Laboratory Supervisor – Name Robert Clevenger	CA Registration Number <i>(if any)</i>	Expiration Date
Title in the Organization Laboratory Manager	Phone Number (760) 828-7751 (cell)	
FAX Number (858) 974-3752	E-Mail RClevenger@twininginc.com	
Field Supervisor – Name Jeff Treat	CA Registration Number <i>(if any)</i>	Expiration Date
Title in the Organization Field Supervisor	Phone Number (858) 974-3750	
FAX Number (858) 974-3752	E-mail JTreat@twininginc.com	

ACCREDITATION
<p>This laboratory currently holds accreditation by: <i>(Attach a copy of current accreditation details.)</i></p> <p> <input checked="" type="checkbox"/> AASHTO Accreditation Program (AAP) <input type="checkbox"/> National Voluntary Laboratory Accreditation Program (NVLAP) <input type="checkbox"/> International Accreditation Service (IAS) <input type="checkbox"/> American Association of Laboratories Program (A2LA) <input type="checkbox"/> Laboratory Accreditation Program (LAB) <input type="checkbox"/> Construction Materials Engineering Council (CMEC) <input checked="" type="checkbox"/> Other : <u>Caltrans</u> </p> <p>Latest Expiration Date <i>(if any)</i> <u>June 29, 2016</u></p>
<p>Is this laboratory accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Expiration Date: 3/28/2019</p>
<p>Basis for accreditation:</p> <p> <input type="checkbox"/> ISO/IEC 17025: General requirements for competence of testing and calibration laboratories <input type="checkbox"/> NISTIR 7012: Technical requirements for construction materials testing <input checked="" type="checkbox"/> AASHTO R18: Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories <input checked="" type="checkbox"/> ASTM E 329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction <input checked="" type="checkbox"/> ASTM C 1077: Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation <input checked="" type="checkbox"/> ASTM D 3666: Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials <input checked="" type="checkbox"/> ASTM D 3740: Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction <input type="checkbox"/> ASTM C 1093: Practice for Accreditation of Testing Agencies for Unit Masonry <input type="checkbox"/> ASTM E 1212: Practice for Quality Management Systems for <i>Nondestructive Testing (NDT)</i> Agencies <input type="checkbox"/> ASTM E 543: Specification for Agencies Performing <i>Nondestructive Testing (NDT)</i> </p>





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STANDARDS

By checking "yes" in Tables 1 through 6 below, the applicant verifies that the laboratory has the equipment and qualified personnel to perform the indicated testing. **ONLY mark tests that are listed in accreditation certificate or DSA-LEA.**

1 SOILS AND FOUNDATIONS

Tests							
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure		
<input checked="" type="checkbox"/>	a.	ASTM D 2487	Classification of Soils	<input type="checkbox"/>	b.	ASTM D 422	Particle Size Analysts
<input checked="" type="checkbox"/>	c.	ASTM D 2216	Moisture Content	<input checked="" type="checkbox"/>	d.	ASTM D 4318	Liquid / Plastic Limit
<input type="checkbox"/>	e.	ASTM D 2850	Unconsolidated, Undrained Triaxial	<input type="checkbox"/>	f.	ASTM D 4767	Triaxial Compression
<input type="checkbox"/>	g.	ASTM D 2166	Unconfined Compressive Strength	<input type="checkbox"/>	h.	ASTM D 7012	Triaxial Compressive Strength of Rock Core Specimens
<input type="checkbox"/>	i.	ASTM D 5778	Friction Cone and Pizocone Penetration Test	<input type="checkbox"/>	j.	ASTM D 3441	Cone Penetration Test (CPT)
<input checked="" type="checkbox"/>	k.	ASTM D 1140	No. 200 Wash	<input type="checkbox"/>	l.	ASTM D 4829	Expansion Index
<input checked="" type="checkbox"/>	m.	ASTM D 2419	Sand Equivalent Value	<input checked="" type="checkbox"/>	n.	ASTM D 1557	Soil Compaction – Modified
<input type="checkbox"/>	o.	ASTM D 3080	Direct Shear	<input checked="" type="checkbox"/>	p.	ASTM D 6938	Density of Soils – Nuclear Gage
<input checked="" type="checkbox"/>	q.	ASTM D 1556	Density of Soils – Sand Cone	<input type="checkbox"/>	r.	ASTM D 1143	Deep Foundations – Static Compression
<input type="checkbox"/>	s.	ASTM D 4945	Deep Foundations – Dynamic Testing	<input type="checkbox"/>	t.	ASTM D 3689	Deep Foundations – Axial Tension
<input type="checkbox"/>	u.	ASTM D 3966	Deep Foundations –Lateral Loads				

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
<input type="checkbox"/>	aa.		<input type="checkbox"/>	bb.	
<input type="checkbox"/>	cc.		<input type="checkbox"/>	dd.	
<input type="checkbox"/>	ee.		<input type="checkbox"/>	ff.	





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2	CONCRETE						
Tests							
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure		
<input checked="" type="checkbox"/>	a.	ASTM D 75		<input checked="" type="checkbox"/>	b.	ASTM C 702	Reducing Aggregate Samples
<input type="checkbox"/>	c.	ASTM C 40	Organic Impurities	<input checked="" type="checkbox"/>	d.	ASTM C 29	Unit Weight / Voids
<input type="checkbox"/>	e.	ASTM C 88	Sodium Sulfate Soundness	<input checked="" type="checkbox"/>	f.	ASTM C 566	Moisture Content
<input type="checkbox"/>	g.	ASTM C 142	Clay / Friable Particles	<input checked="" type="checkbox"/>	h.	ASTM C 127	Specific Gravity - Coarse
<input checked="" type="checkbox"/>	i.	ASTM C 128	Specific Gravity - Fine	<input checked="" type="checkbox"/>	j.	ASTM C 117	No. 200 Wash
<input checked="" type="checkbox"/>	k.	ASTM C 136	Sieve Analysis Course / Fine	<input type="checkbox"/>	l.	ASTM C 131	Degradation of Aggregate
<input checked="" type="checkbox"/>	m.	ASTM D 2419	Sand Equivalent Value	<input checked="" type="checkbox"/>	n.	ASTM C 31, C 172, CBC 1905A.1.2	Concrete Sampling - Field
<input checked="" type="checkbox"/>	o.	ASTM C 192	Making / Curing Specimens - Lab	<input checked="" type="checkbox"/>	p.	ASTM C 173	Air Content (V)
<input type="checkbox"/>	q.	ASTM C 1602	Water	<input type="checkbox"/>	r.	ASTM C1604	Shotcrete Core
<input type="checkbox"/>	s.	ACI 355.2	Mechanical Anchors	<input checked="" type="checkbox"/>	t.	ASTM C 231	Air Content (P)
<input checked="" type="checkbox"/>	u.	ASTM C 143	Slump	<input checked="" type="checkbox"/>	v.	ASTM C 1064	Temperature
<input checked="" type="checkbox"/>	w.	ASTM C 617	Capping Concrete Specimens	<input checked="" type="checkbox"/>	x.	ASTM C 1231	Unbonded Caps
<input checked="" type="checkbox"/>	y.	ASTM C 39	Compressive Strength	<input type="checkbox"/>	z.	ASTM C 157	Length Change
<input checked="" type="checkbox"/>	aa.	ASTM C 78	Flexural Strength	<input type="checkbox"/>	bb.	ASTM C 496	Splitting Tensile
<input checked="" type="checkbox"/>	cc.	ASTM C 42	Drilled Cores / Beams	<input checked="" type="checkbox"/>	dd.	ASTM C 138	Weight / Yield / Air Content
<input type="checkbox"/>	ee.	ASTM C 495	Lightweight Concrete	<input type="checkbox"/>	ff.	ASTM C 567	Density of Lightweight Aggregate
<input checked="" type="checkbox"/>	gg.	ASTM E 488*	Strength of Anchors	<input type="checkbox"/>	hh.	ACI 355.4	Adhesive Anchors
<input type="checkbox"/>	ii.	ACI 374.1	Moment Frames	<input type="checkbox"/>	jj.	ASTM C 1260	Alkali Reactivity of Aggregate
<input type="checkbox"/>	kk.	ASTM C 1293	Length Change due to Alkali-Silica Reaction	<input type="checkbox"/>	ll.	ACI ITG-5.1	Post-Tensioned Precast Special Walls
<input checked="" type="checkbox"/>	mm.	ASTM C 42	Concrete Core	<input type="checkbox"/>	nn.	ASTM D3039	Tensile Strength of FRP
<input type="checkbox"/>	oo.	ASTM D 4541	Pull of Strength of FRP	<input type="checkbox"/>	pp.	ASTM A1034	Rebar Mechanical Splices
<input type="checkbox"/>							
<input type="checkbox"/>							
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>							
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure		
<input type="checkbox"/>	aa.		<input type="checkbox"/>	bb.			
<input type="checkbox"/>	cc.		<input type="checkbox"/>	dd.			
<input type="checkbox"/>	ee.		<input type="checkbox"/>	ff.			





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3							MASONRY							
Tests														
Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure	
<input type="checkbox"/>	a.	ASTM C 140	Dimensions		<input type="checkbox"/>	b.	ASTM C 140	Compressive Strength		<input type="checkbox"/>	d.	ASTM C 140	Unit Weight	
<input type="checkbox"/>	c.	ASTM C 140	Absorption		<input type="checkbox"/>	d.	ASTM C 140	Unit Weight		<input type="checkbox"/>	f.	ASTM C 426	Linear Drying Shrinkage	
<input type="checkbox"/>	e.	ASTM C 140	Moisture Content		<input type="checkbox"/>	f.	ASTM C 426	Linear Drying Shrinkage		<input checked="" type="checkbox"/>	h.	CBC 2105A.2.2.1.4	Grout Sampling	
<input type="checkbox"/>	g.	CBC 2105A.2.2.1.4	Mortar Sampling		<input checked="" type="checkbox"/>	j.	ASTM C 1019	Grout Compressive Strength		<input checked="" type="checkbox"/>	l.	ASTM C 39	Core Compressive Strength	
<input type="checkbox"/>	i.	ASTM C 1314	Prism Compressive Strength		<input type="checkbox"/>	n.	ASTM C 1314	Prism Sampling						
<input type="checkbox"/>	k.	ASTM C 780	Mortar Compressive Strength											
<input type="checkbox"/>	m.	CBC 2105A.4	Core Shear											
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.														
Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure	
<input checked="" type="checkbox"/>	aa.	ASTM C 42	Drilled Cores Sampling		<input type="checkbox"/>	bb.				<input type="checkbox"/>	dd.			
<input type="checkbox"/>	cc.				<input type="checkbox"/>	dd.				<input type="checkbox"/>	ff.			
<input type="checkbox"/>	ee.				<input type="checkbox"/>	ff.								

4							STEEL							
Tests														
Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure	
<input type="checkbox"/>	a.	ASTM A 370	Tension Test		<input type="checkbox"/>	b.	ASTM A 370	Bend		<input type="checkbox"/>	d.	ASTM E 18	Rockwell Hardness	
<input type="checkbox"/>	c.	ASTM E 10	Brinell Hardness		<input type="checkbox"/>	f.	ASTM E 23	Charpy V - Notch		<input type="checkbox"/>	h.	AISC 341 Section K2	Beam to Column Moment & EBF Connections Cyclic Tests	
<input type="checkbox"/>	e.	ASTM E 190	Guided Bend		<input type="checkbox"/>	j.	ASTM E 165	Liquid Penetrant		<input type="checkbox"/>	l.	ASTM E 94	Radiographic	
<input type="checkbox"/>	g.	ASTM A 90	Weight of Coating		<input checked="" type="checkbox"/>	n.	ASTM E 605	Density of SFRM		<input type="checkbox"/>	P	ASTM F606	Bolt Tension Test	
<input type="checkbox"/>	i.	AISC 341 Section K3	BRBF Cyclic Tests											
<input type="checkbox"/>	k.	ASTM E 1444	Magnetic Particle											
<input type="checkbox"/>	m.	ASTM E 164	Ultrasonic											
<input type="checkbox"/>	o.	CBC 2203A.1	Material Identification											
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.														
Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure		Yes	Standard/Code Reference		Test Procedure	
<input type="checkbox"/>	aa.				<input type="checkbox"/>	bb.				<input type="checkbox"/>	dd.			
<input type="checkbox"/>	cc.				<input type="checkbox"/>	dd.				<input type="checkbox"/>	ff.			
<input type="checkbox"/>	ee.				<input type="checkbox"/>	ff.								

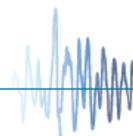




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5		Wood and Roof Assemblies					
Tests							
Yes	Standard		Test Procedure	Yes	Standard		Test Procedure
<input type="checkbox"/>	a.	ASTM D 3617	Analysis of Built-Up Roof Systems	<input type="checkbox"/>	b.	ASTM D 4442	Moisture Content of Wood
<input type="checkbox"/>	c.	ASTM C 67	Brick and Structural Clay Roof Tiles				
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>							
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		

6		COMPONENT, ASSEMBLY AND PROTOTYPE TESTING					
Tests							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	a.	AAMA 501.4	Static Test for Curtain Wall and Storefront Systems	<input type="checkbox"/>	b.	ICC-ES AC 156	Shake Table Test
<input type="checkbox"/>	c.	AAMA 501.6	Dynamic Test for Curtain Wall and Storefront Systems	<input type="checkbox"/>	d.	FM 1950	Seismic Sway Brace Testing
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>							
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		





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List of Attachments Supporting the Testing Agency/Laboratory Approval (Submit Each Attachment as Separate PDF)

Yes	Enclosure Type
<input checked="" type="checkbox"/>	OSHPD Facilities Development Division (FDD) Payment Form (OSH-AD-367): http://www.oshpd.ca.gov/FDD/Forms/eSPForms/OSH-AD_367%20Facilities%20Development%20Division%20Payment%20Form.pdf
<input checked="" type="checkbox"/>	DSA-LEA Laboratory Qualification as posted at DSA website: https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx
<input checked="" type="checkbox"/>	Latest Copy of DSA 100: LEA Program Application as Submitted to DSA
<input checked="" type="checkbox"/>	Latest copy of DSA 220: LEA Program On-Site Assessment Report
<input checked="" type="checkbox"/>	Latest copy of DSA acceptance (letter) of the Lab. into the LEA program.
<input checked="" type="checkbox"/>	Current Accreditation Certificate(s) including List of Tests for which Laboratory is Accredited
<input type="checkbox"/>	Other (Please Specify):

OSHPD Approval (For Office Use Only)

Signature:  Approval Date: 10/01/2015

Print Name: James C. Pan Approval Expiration Date: 03/28/2019

Title: District Structural Engineer

Condition of approval (if applicable):
*ASTM E 488 is limited to conducting field tests by a qualified field technician.

