Miami-Dade County, Florida
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

Laboratory Certificate

MIAMI-DADE COUNTY APPROVED

This certifies that RADCO located at 3220 East 59th St., Longbeach, CA 90805 is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

International Accreditation Service, Inc.
No. TL-209
International Accreditation Service, Inc.
No. AA-650
TAS104 (Excluded section 18-Granule Adhesion)
TAS202

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Raymond F. Tucker, P.E.

This Certification and Registration Approved: **June 16, 2016**
This Certification and Registration Expires : **August 31, 2021**

Certification No. : **16-0413.01** *Renews: 11-0902.09*

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
Product Control Section

Americo Segura, M.S.
Quality Assurance Unit Supervisor
Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

INTERNATIONAL ACCREDITATION SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

RADCO A Twining Company

3220 EAST 59TH STREET
LONG BEACH, CALIFORNIA 90805

Testing Laboratory TL-209

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing March 22, 2016, for the test methods listed in the approved scope of accreditation.

(See laboratory's scope of accreditation for fields of testing and accredited test methods.)

This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.
See http://iasonline.org/More/search.html for current accreditation information, or contact IAS at 562-364-8201.

ilac-MRA

ACCREDITED

CPRamani

C.P. Ramani, P.E., C.B.O
President

INTERNATIONAL ACCREDITATION SERVICE®

SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-209
Accredited Entity	RADCO a Twining Company
Address	3220 East 59th Street Long Beach, California 90805
Contact Name	Michael L. Zieman, President
Telephone	(562) 272-7231
Effective Date of Scope	March 22, 2016

FIELDS OF TESTING	METHOD REFERENCE
Fire	1997 UBC Standards 2-1, 15-2 and 26-3; ASTM Standard D635; API Standard 607-85; NFPA Standards 33. 85, 86 160, 1123 and 1126
Wood	ASTM Standards D2898 and D3345; AWPA Standard E 1
Electrical	UL Standard 197, 307A, 508A Industrial Control Panels; NFPA 79 Electrical Standard for Industrial Machinery (In Laboratory or In-situ Evaluation) and UL 795 (only Sections 45.23-45.51)
Physical/Structural/Materials	1997 UBC Standards 14-1, 14-2, 15-5, 15-6, 21-6 and 21-7; ASTM Standards A74, A90, A126, A438, A792, B117, B306, C67, C97, C109/C109M, C190, C203, C209, C271, C272, C273, C282, C296, C297, C303, C348, C365, C393, C473, C481, C482, C518, C564, C567, C578, C591, C794, C1167, C1185, C1186, C1289, C1386, C1568, D146, D226, D256, D380, D412, D471, D570, D572, D618, D624, D638, D648, D696, D751, D756, D779, D781, D790, D792, D816, D828, D882, D896, D903, D905, D1002, D1037, D1042, D1183, D1204, D1212, D1248, D1333, D1435, D1499, D1527, D1621, D1622, D1623, D1682, D1761, D1784, D1785, D1788, D1876, D 1938, D 1970, D 2126, D 2239, D 2241, D 2247, D2261, D2282, D2294, D2299, D2464,D2466, D2467, D2468, D2523, D2581, D2609, D2661, D2662, D2666, D2737, D2751, D2842, D2846, D2863, D3034, D3309, D3311, D3330, D3350, D3679, D3930, D3965, D4226, D4317, D4396, D4477, D4533, D4632, D4869, D5034, D5147, D5206, D5420, D5456, D5733, D5764, D5795, D6117, D6662, D6817, E8, E72, E96, E283, E330, E331, E488, E529, E547, E564, E661, E695, E1190, E1233, E1333, E1512, E1677, E2098, E2134, E2178, E2273, E2485, E2486, E2568, E2570, F409, F438,

INTERNATIONAL ACCREDITATION SERVICE®

SCOPE OF ACCREDITATION

FIELDS OF TESTING	METHOD REFERENCE
Physical/Structural/Materials (continued)	F439, F441, F628, F789, F810, F845, F876, F877, F891, F949, F1281, F1282, F1575, F1667, G21, G23, G26, G53, G155 and G154; SBCCI SSTD 11; ANSI/AAMA Standards 711 and 1402; AATCC 127; AISI TS-4; FMVSS 217; UL Standard 1296; ASME Standard A112.6.1M; ACI355.2 (except Chapter 4 and Sections 8.6, 9.6 and 9.7); Test methods referenced in Section 5.0 of ICC-ES Acceptance Criteria AC01, Section 4.0 of AC04, Sections 3.0 and 4.0 of AC07, Sections 4.3, 4.5, 4.7, 4.8 and 4.9 of AC07, Sections 4.2, 4.3 and 4.8 of AC11, Sections A3.5, A3.9, A4.2, A4.3 and A4.4 of AC16 (Burning Brand only), Sections 3.0 and 4.0 of AC 38, Sections 3.0 and 4.0 of AC 48, Sections 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.5, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 of AC51, Section 4.0 of AC58, Sections 3.1.2.1, 3.1.2.3, 3.1.2.7, 5.2, 5.3 and 5.4.3 of AC59 (Flexural Test, Water Absorption, Freeze-thaw, Bond Test and Environmental Cycling only), Section 4.0 of AC70 and AC106, Section 3.4 of AC180 (Uplift Bend Test only), Sections 3.0 and 4.0 of AC 212, Tables 4.1, 4.2, 4.3 and 4.4 of AC308 (Except Sections 8.16 - Table 4.2 (Test No.5), Table 4.3 (Test No. 5), Table 4.4 (Test No.5), 9.12 - Table 4.2 (Test No.17), Table 4.3 (Test No. 17) and Tables 4.4 (Test No. 16) and 9.13 - Table 4.2 (Test No.18), Table 4.3 (Test No. 18) and Table 4.4 (Test No.17), Section 4.0 of AC310, Section 4.0 of AC 358 and Section 3.0 of AC394; AS/NZS 4256 and 4257; CAN/CSGB 41.24, 51.26-M86 and 51.32-M77; CAN ULC-S701; TAS 102/102(A)
Equipment	UL Standards 103, 127, 181, 197, 234, 295, 307A, 307B, 311, 441, 471, 737, 795, 1046, 1075, 1083, 1091 and 1995; ASME Standards A112.1.2, A112.19.5, A112.19.7M, A112.19.9M, A112.21.1M and A112.21.2M; ANSI Standards A112.14.1, A112.18.1M, A112.19.2M, A112.19.3, A112.19.6, A112.36.2M, B16.3, B16.4, B16.12, B16.15, B16.18, B16.22, B16.23, B16.24, B16.26, B16.29, Z21.1, Z21.5.1, Z21.5.2, Z21.8, Z21.10.1, Z21.10.3, Z21.11.2, Z21.12, Z21.13, Z21.19, Z21.40.1, Z21.40.2, Z21.42, Z21.47, Z21.50, Z21.56, Z21.57, Z21.58, Z21.60, Z21.61, Z21.63, Z21.72, Z21.73, Z21.74, Z21.84, Z21.86, Z21.88, Z21.89, Z21.97, Z83.4, Z83.7, Z83.8, , Z83.11, Z83.18,Z83.19, Z83.20, Z83.25, Z83.26,

INTERNATIONAL ACCREDITATION SERVICE®

SCOPE OF ACCREDITATION

FIELDS OF TESTING	METHOD REFERENCE
Equipment (continued)	Requirement 8-96, Z124.1, Z124.2, Z124.3, Z124.4 and Z124.6; ANSI/ASME Standards A112.19.1M, A112.19.4M, A112.26.1M and B1.20.1; ASSE Standards 1001, 1003, 1005, 1011, 1012, 1013, 1014, 1015, 1020, 1024, 1025, 1032, 1035, 1047, 1048, 1050, 1051 and 1052; NSF Standards 2, 4, 7, 8 and 59; ANSI/ASSE Standards 1002, 1019 and 1037; IAS 4-96; A.G.A.

International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that

RADCO A Twining Company
3220 EAST 59TH STREET
LONG BEACH, CALIFORNIA 90805

Inspection Agency AA-650
Type A (Third-Party) Inspection Body

has met the requirements of the IAS Accreditation Criteria for Inspection Agencies (AC98), has demonstrated compliance with ISO/IEC Standard 17020:2012, Conformity assessment - *Requirements for the operation of various types of bodies performing inspection*, and has been accredited, commencing March 9, 2015, to provide inspection services in the approved scope of accreditation.

Patrick V. McCullen
Vice President, Chief Technical Officer

C. P. Ramani, P.E.
President

ACCREDITED

(see attached scope of accreditation for field(s) of inspection, including type, range, methods or procedures)

Print Date: 3/10/2015

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.
See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

11-04576

International Accreditation Service

SCOPE OF ACCREDITATION

RADCO A Twining Company AA-650
Type A (Third-Party) Inspection Body
(Revised May 10, 2016)

RADCO A Twining Company
3220 E. 59th St.
Long Beach, CA 90805

Pete Raney
Account Executive
562-272-7231 x118

FIELDS OF INSPECTIONS	TYPE AND RANGE OF INSPECTIONS	INSPECTION METHODS AND PROCEDURES
CSI Division 03 - Concrete	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 04 - Masonry	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 05 - Metal	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 06 – Wood, Plastics and Composites	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 07 – Thermal and Moisture Protection	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 08 - Openings	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 09 – Gypsum Board Assemblies	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21

March 9, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 5/12/2016

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation
See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

11-04680

International Accreditation Service

SCOPE OF ACCREDITATION

RADCO A Twining Company AA-650
Type A (Third-Party) Inspection Body
(Revised May 10, 2016)

FIELDS OF INSPECTIONS	TYPE AND RANGE OF INSPECTIONS	INSPECTION METHODS AND PROCEDURES
CSI Division 10 - Specialties	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 22 - Plumbing	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
CSI Division 23 – Heating, Ventilating, and Air Conditioning	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
Gas Appliances	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 & ICC-ES Q-20 and Q-21
Structural and Non-structural, Mechanical, Electrical and Plumbing of Prefabricated Construction	In-plant	Section 4.2.1 of RADCO A TWINING COMPANY QA Procedures, Inspection Forms LT-69 and ICC-ES Q-20 and Q-21
Manufacturing in Fields Specified Above	Qualification and Follow-up In Plant	ICC-ES Acceptance Criteria AC304

March 9, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 5/12/2016

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation
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11-04680