SMITH-EMERY LABORATORIES
An Independent Commercial Testing Laboratory
781 E. Washington Boulevard, Los Angeles, California 90021 ◆ (213) 745-5333 ◆ Fax (213) 741-8621

Project No.: 45589-1
Lab No.: T-18-067

September 5, 2018

Client : **LAS VEGAS ROCK, INC.**
ATTN: JEREMY ADAMS
P.O. BOX 19118
JEAN NV 89019

Project: **LAS VEGAS ROCK, INC.**

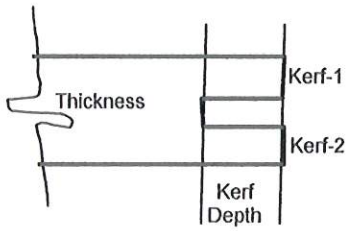
SUBJECT: **12" x 12" x 3" Thick Sandstone (Saw Cut Finish)**
SPECIFICATION: ASTMC 1354 Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone (Modified)
SOURCE: Submitted to Laboratory by Client.
Anchor Material: Stainless Steel ASTM A666, Type 304 12GA; "SPLIT TAIL CLIP"
Dow Cornings 795 (Silicone Sealant)

Report of Tests

KERF ANCHOR TEST - SHEAR (In-Plane) *Test Set-Up per Sketch* **LP-K3**
Samples with cut kerf anchor were tested in general accordance with ASTM C 1354 procedures. A steel framed jig accommodating the stone assembly was used; the"In-Plane" load was applied on top of a square tube where the anchor was installed; loading direction along the kerf. Load was applied using a calibrated hydraulic universal testing machine until failure occurs. Used Span Length: 9-1/8"

Test results are as follows:

Test No.	Thickness	Kerf Depth, in.	Thickness, inch		Maximum Load, Lbs.	Observations
			Kerf-1	Kerf-2		
1.	3.000	1.000	1.019	1.011	**4,910**	Kerf Broke
2.	3.000	1.000	1.019	1.030	**8,460**	Kerf Broke



Remarks : *Mode of Failure: Kerf Broke*

Respectfully Submitted,
SMITH-EMERY LABORATORIES

☐ **Materials Tested Comply With Specifications.**
☐ **Materials Tested Did Not Comply With Specifications.**
☐ **No Established Criteria For Acceptable Limits.**
☑ **For Information Only.**

G. Janeth Quintero, P.E.
Registered Civil Engineer No.: C 73066
Registration Expires: 12-31-16
yb

CC: SMITH EMERY LABORATORIES

SMITH-EMERY LABORATORIES
An Independent Commercial Testing Laboratory
781 E. Washington Boulevard, Los Angeles, California 90021 ◆ (213) 745-5333 ◆ Fax (213) 741-8621

Project No.: 45589-1
Lab No.: T-18-067

September 5, 2018

Client : **LAS VEGAS ROCK, INC.**
ATTN: JEREMY ADAMS
P.O. BOX 19118
JEAN NV 89019

Project: **LAS VEGAS ROCK, INC.**

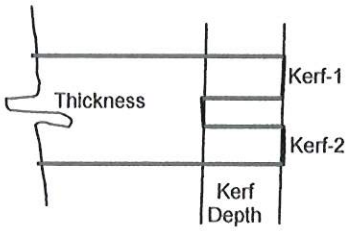
SUBJECT: **12" x 12" x 4" Thick Sandstone (Rough Finish)**
SPECIFICATION: ASTMC 1354 Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone (Modified)
SOURCE: Submitted to Laboratory by Client.
Anchor Material: Stainless Steel ASTM A666, Type 304 12GA; "SPLIT TAIL CLIP"
Dow Cornings 795 (Silicone Sealant)

Report of Tests

KERF ANCHOR TEST - SHEAR (In-Plane) *Test Set-Up per Sketch* **LP-K3**
Samples with cut kerf anchor were tested in general accordance with ASTM C 1354 procedures. A steel framed jig accommodating the stone assembly was used; the"In-Plane" load was applied on top of a square tube where the anchor was installed; loading direction along the kerf. Load was applied using a calibrated hydraulic universal testing machine until failure occurs. Used Span Length: 9-1/8"

Test results are as follows:

Test No.	Thickness	Kerf Depth, in.	Thickness, inch		Maximum Load, Lbs.	Observations
			Kerf-1	Kerf-2		
1.	4.250	1.000	1.821	1.814	**6,516**	Kerf Broke
2.	4.250	1.000	1.830	1.828	**6,319**	Kerf Broke



Remarks : *Mode of Failure: Kerf Broke*

Respectfully Submitted,
SMITH-EMERY LABORATORIES

G. Janeth Quintero, P.E.
Registered Civil Engineer No.: C 73066 Exp. 12/31/16
Registration Expires: 12-31-16
yb

REGISTERED PROFESSIONAL ENGINEER G. JANETH QUINTERO C 73066 CIVIL STATE OF CALIFORNIA

☐ **Materials Tested Comply With Specifications.**
☐ **Materials Tested Did Not Comply With Specifications.**
☐ **No Established Criteria For Acceptable Limits.**
☑ **For Information Only.**

CC: SMITH EMERY LABORATORIES