



# DAMMON

ENGINEERING, INC.

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July 17, 2018

Merlin DeCorte, PLA  
Specialty Pools & Outdoor Living, LLC  
1701 Belle Chasse Hwy.  
Gretna, Louisiana 70056  
Office: (504) 596 - 6343  
Cell: (504) 874 - 2198

RE: Terra Bella Class C Swimming Pool  
Covington, Louisiana

Merlin,

After reviewing the swimming pool concrete compression test by Stratum Engineering, I see in the report that the lowest concrete strength at 28 days was 4,300 psi. The absolute minimum required by ACI 318-11 is 4,000 psi; therefore, the concrete forming the swimming pool meets the minimum as required by ACI 318-11.

ACI 318-11 specifies concrete that is in contact with water where low permeability is required, swimming pools, is classified as category P1 exposure classification. Table 4.3.1 requirements for concrete with a P1 exposure classification shall have a minimum compressive strength of 4,000 psi.

If you have any questions, or require additional information, please feel free to call.

Sincerely,

David Dammon  
Dammon Engineering, Inc.

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**Transmittal of Compression Test of Shotcrete Cubes**

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**Client:** Broadmoor, LLC  
Mr. Daryl J. Matherne  
2740 North Arnoult Road  
Metairie, LA 70002

**Project:** Terra Bella Pool & Cabana - 100 Terra Bella Blvd.,  
Covington, Louisiana - Job No. 1800100 - Sub Job  
No. 1800101

**Prev. Rpt. Date:** 07/03/2018 **Revised**  
**Report Date:** 07/09/2018

**Work Order Date:** 06/22/2018  
**Work Order No:** 31095

**Project No:** C18-025  
**Report No:** 009

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Please find attached a copy of our Compression Test of Shotcrete Cubes Report for the referenced project. We appreciate the opportunity to provide our services. If you should have any questions, please give us a call.

1-ec Broadmoor, LLC Attn: Mr. Stephen Darre'  
1-ec Broadmoor, LLC Attn: Mr. Daryl J. Matherne  
1-ec Broadmoor, LLC Attn: Ms. Patty Long  
1-cc Laboratory

Respectfully Submitted,  
Stratum Engineering, LLC



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Gregory Richards, Senior Project Manager



**REPORT OF COMPRESSION TEST OF SHOTCRETE CUBES**

**TESTED FOR:** Broadmoor, LLC  
 2740 North Arnoult Road  
 Metairie, LA 70002

**PROJECT:** Terra Bella Pool and Cabana  
 100 Terra Bella Boulevard  
 Covington, LA

Attn: Mr. Daryl J. Matherne

**DATE:** June 22, 2018

**SE REPORT NO.:** C18-025-009

**REMARKS:**

Tests were performed on two (2) shotcrete panels from the above referenced project site for the purpose of determining compressive strength. The panels were sprayed on the site on June 8, 2018 and were moist cured in our laboratory until the time of testing. Six (6) cubes were saw cut from the center portion of each panel and were prepared and tested in general accordance with ACI 506 and ASTM C1140 procedures. Test results are as follows:

| Panel No. | Specimen No. | Width (in.) | Width (in.) | Height (in.) | Area (Sq. in.) | Load (lbs.) | Test Date | Strength (PSI) | Average Strength (PSI) | Age at Test Days |
|-----------|--------------|-------------|-------------|--------------|----------------|-------------|-----------|----------------|------------------------|------------------|
| 1         | A            | 2.92        | 2.90        | 3.01         | 8.47           | 40,215      | 6/22/18   | 4,750          | 4,530                  | 14               |
| 1         | B            | 2.90        | 2.88        | 3.05         | 8.35           | 43,405      | 6/22/18   | 5,200          | "                      | 14               |
| 1         | C            | 2.85        | 2.92        | 3.08         | 8.32           | 30,220      | 6/22/18   | 3,630          | "                      | 14               |
| 1         | D            | 2.89        | 2.90        | 3.10         | 8.38           | 40,045      | 7/6/18    | 4,780          | 4,980                  | 28               |
| 1         | E            | 2.91        | 2.85        | 2.99         | 8.29           | 44,735      | 7/6/18    | 5,400          | "                      | 28               |
| 1         | F            | 2.92        | 2.90        | 2.98         | 8.47           | 40,365      | 7/6/18    | 4,770          | "                      | 28               |
| 2         | A            | 2.89        | 2.90        | 3.10         | 8.38           | 33,910      | 6/22/18   | 4,050          | 3,570                  | 14               |
| 2         | B            | 2.87        | 2.89        | 3.00         | 8.29           | 23,890      | 6/22/18   | 2,880          | "                      | 14               |
| 2         | C            | 2.82        | 2.88        | 3.03         | 8.12           | 30,725      | 6/22/18   | 3,780          | "                      | 14               |
| 2         | D            | 2.91        | 2.94        | 3.09         | 8.56           | 38,605      | 7/6/18    | 4,510          | 4,460                  | 28               |
| 2         | E            | 2.83        | 2.91        | 3.02         | 8.24           | 37,590      | 7/6/18    | 4,560          | "                      | 28               |
| 2         | F            | 2.90        | 2.92        | 3.06         | 8.47           | 36,415      | 7/6/18    | 4,300          | "                      | 28               |

Based upon the test results, the average strength of the shotcrete at 28 days is 4,720 PSI.

NOTE: 1. The cubes were tested perpendicular to the plane of the panels.

Respectfully submitted,  
 Stratum Engineering, LLC

Gregory J. Richards  
 Senior Project Manager