



Test Summary for Modified AC-51 Tests

1. Project

Table with 3 columns: Project, Purpose, Company / Client, Company Address, Reported To. Includes details for Modulo (12167) project.

2. Test Standard

Table with 5 columns: Source, Designation, Year, Title, Service Items. Lists various standards like ICC-ES AC-51*, ASTM C567, C39, C67, C348, C190, C482, and C1670.

3. Sample Identification

Table with 4 columns: Sample By, Cast Date, Sample Collection Address, ATG ID. Lists client information and collection dates.

4. Shipping / Handling

Table with 7 columns: Inspected By, Receipt Date, Condition, Carrier, Handling, Storage, ATG ID. Lists inspection details for J. Adams and J. Muzyk.

5. Specimens Received Description (Mix Design Not Provided)

Table with 4 columns: Material, Description, Source. Lists various stone panels, cast cubes, cylinders, and prisms.

6. Attachments

Table with 3 columns: Drawing, Attachments, Photos. Lists drawing status and chain of custody.

7. Signatures

Table with 5 columns: Technicians, Test Start Date, Test End Date, Lab Manager, Technical Manager. Includes handwritten signatures and names.





8. Test Summary

AC-51 Sect.	ASTM	Property	Average Result	AC51-14 Criteria	Sample preparation	Quantity and size
3.1/4.1	C567-14	Density	86.5 lbs / ft ³ (at 180 days)	N/A	4"x8" Cylinder	5 specimens tested
3.1.2	N/A	Unit Weight	8.6 lbs/ ft ²	< 15 lbs/ ft ²	Product-Stone Panel	5 specimens tested (full size veneer 6"x23"x1")
4.2	C1670-14 (Section 6)	Freeze-Thaw Durability (C666A cycles)	-1.3% (weight gain due to absorption)	< /=1.5% mass loss and no fracture through cross section after 50 cycles	Cast prisms >28 days age (#4200)	5 cast Specimens tested - 3"x3"x11" (See report C1670-030317-12167-4200 for more detail)
4.3	C39-12	Compressive Strength	5,465 psi (at 180 days)	> 1800 psi	4"x8" Cylinder	5 specimens tested
4.4	C348-14	Flexural Strength	660 psi (at 180 days)	N/A	Cut from prism (#4111)	5 specimens tested 1.57"x1.57"x6.3"
4.5	C190-85	Tensile Strength	425 psi (at 28 days)	N/A	Cast Briquettes using client mix design	6 specimens cast and tested by approved subcontractor
4.6	N/A	Absorption	14% (at 180 days)	<18%	Cut from Stone panel	10 specimens tested 4"x4"x1"
4.7	C482-02	Shear Bond Strength	83 psi (at 7 days)	> 50 psi	Cut from Stone panel	5 specimens tested 4"x4"x1"

9. Statement of Compliance

For informational purposes only. Test plan per customer instruction per approved proposal

10. Notes

- 1 The client is authorized to reproduce or distribute the report only if reproduced in its entirety.
- 2 The results presented relate only to the items &/or materials tested.
- 3 AC 51 procedures were modified at the clients direction (Mihai Gavris - August 2016). Modifications included:
 - Samples cast by others without 3rd party witness or material traceability (millcerts, etc)
 - Samples cured by others. Per client, curing conditions = 9 hours at 89°F & 100% Relative Humidity.
 - Test performed at non-standard test ages. All results for samples aged > 180 days
 - Samples were not cast to shape. Samples saw cut from cylinders, prisms and cubes cast by manufacturer
 - Shear bond test performed using 0.5" thick, Quickrete AVM mortar bond per client. Substrate cast from same veneer sample bond substrate material.
- 4 C190 test subcontracted.





Attachment 1 - Chain of Custody 4111

**Samples picked up by ATG from Glen Gery (Address: 433 S. Pottsville Pike, Shoemakersville, PA, 19555) on 8/9/2016*

	Applied Testing & Geosciences, LLC When Quality Counts	Document No. COC-081616-12167-01 ATG-ID 4111-1 Date Received: 08/16/2016						
Lab Chain of Custody - Sample Submittal Form								
1. Client								
Company Name	Company Address	Project Name	Facility Location					
Modulo Decorative Solutions LLC	1 Rue Albert Einstein, 77480 Bray-Sur - Seine, France	12167 Modulo - Precast Stone Veneer	Turda, Romania					
Contact Name	Phone	Fax	Contact E-Mail					
Mihai Gavris	(331) 606-78413		mihai.gavris@modulo.fr					
			PO #					
			Precast Stone Veneer					
2. Shipping / Delivery								
# Samples	Carrier	Track #	Ship Date / Time	Receipt Date / Time	Received By	Shipped By	Sample As Received	
5	See attachment	See attachment		08/16/2016 09:57	Joseph Adams		Intact	
3. Sample Identification								
ATG ID	Photo	Client ID	Material	Description / Notes	Qty	Size / Weight	Reqd Storage Temp (F)	Reqd Storage RH (%)
4111-1			Concrete	Veneer Stone (4"x4"x1")	10 Piece	0.5	No Requirement	No Requirement
4111-2			Panel	Cast Cubes (4"x4"x4")	12 Piece	0.5	Not Specified	Not Specified
4111-3			Other	Cast Cylinders (4"(diameter) x 8")	10 Piece	15	Not Specified	Not Specified
4111-4			Concrete	3"x3"x10" Cast Prisms	6 Piece	12	Not Specified	Not Specified



Photo 1 Fabrik Stone Veneer

9/21/16 shipment & Mix Design

ATG #	Material	Qty	per cubic meter
4111-1	Sand	1 bag	340 kg
4111-2	Argila (Clay)	3 bags	454 kg
4111-3	Ciment ALB	2 bags	410 kg
4111-7	Master Glenium 115	2 liter	2.3 kg
NP	Water	NP	300 kg





Attachment 2 - Chain of Custody 4200



Applied Testing & Geosciences, LLC
When Quality Counts

Document No. COC-030317-12167-02
ID-ATG 4200-1
Date Received: 03/03/2017

Lab Chain of Custody - Sample Submittal Form

1. Client

Company Name		Company Address		Facility Location		Project Name	
Modulo Decorative Solutions LLC		22 Decembrie NR29, Turda, Cluj, 16170788, Romania				12167 Modulo - Precast Stone Veneer	
Contact Name		Phone	Fax	Contact E-Mail		PO #	
Mihal Gavris				mihal.gavris@modulo.fr		Precast Stone Veneer	

2. Shipping / Delivery

# Samples	Carrier	Track #	Ship Date	Receipt Date	Received By	Shipped By	Sample As Received
	Eagle shipping			03/03/2017	Brian Shenk		Intact

3. Sample Identification

ID-Client	ID-ATG	Photo	Material	Visual Description	Notes	Quantity	Reqd Storage Temp (F)	Reqd Storage RH (%)
1/26/17 FT Bars	4200-1		Concrete	Concrete prisms (3"x3"x11")		5 Bar(s)	No Requirement	No Requirement

4. Sample Collection

ID-Client	ID-ATG	Assembly Date	Sampling Date	Name of Sampler	Method Sampled	Location Sampled	Sample Retention	Sample Disposal
1/26/17 FT Bars	4200-1		01/26/2017		Not Provided		90 days	Discard w Charge

5. Tests

Quantity	Test ID	Test Title

6. Additional Information

Attachments 20170303_142643.jpg; 20170303_142849.jpg; 20170303_143151.jpg; 20170303_142700.jpg; 20170303_143036.jpg; 20170303_143311.jpg; doc00722220170303145150.pdf
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7. Signatures

Received By

Brian Shenk



END OF REPORT

