FRP Reinforcement Sampling and Testing at Precast/Prestress Plants

The VT Inspector:

- Obtain the following documents provided by the FRP reinforcement producer:
 - 1. Notarized Material Certification
 - 2. Certificate of Analysis

NOTE: The precast/prestress producer should have both documents on file corresponding to the received shipments. The VT inspector should create copies of these documents for uploading into MAC as well as confirm that the LOT #'s match the material to be sampled.

- Sample the material in accordance with 932-3.4.1 or 933-5.2.2.2, as appropriate.
- Tag the samples with identifying information to include Fiber Reinforced Polymers Production Facility, Date Sample Taken, LOT #, etc.
- Provide the tagged samples to the QC Manager and inform them that the plant must work with the Contractor to get the material tested at one of the approved labs listed on the FRP Lab Report in MAC.
- Follow up with the QC Manager to receive a copy of the Certified Test Report from the approved testing lab.
- Create MAC entries under Sample Category: Program using the appropriate MAC Spec
 - 1. 932FRP Fiber Reinforced Polymer (FRP) Reinforcing Bars
 - 2. 933 Prestressing Strand and Bar

Create Sample Login	×
Sample Category	
Program V	
Material/Specification 932FRP - Fiber Reinforced Polymer (FRP) *	
MAC Spec	
932FRP - Fiber Reinforced Polymer (FRP) Reinforcing Bars, Program [Quality Control Program], v1.0	
→ Continue to Sample Information Screen	
Create Sample Login	×
Sample Category	
Program V	
Material/Specification	
933 - Prestressing Strand and Bar	
MAC Spec	
933 - Prestressing Strand and Bar, Program [Quality Control Program], v1.7	

→ Continue to Sample Information Screen

- Under 932FRP, Sample Level VT, select the appropriate Category
 - 1. Fiber Reinforced Polymer (FRP) Reinforcing Bars / Carbon FRP Bars
 - 2. Fiber Reinforced Polymer (FRP) Reinforcing Bars / Glass FRP Bars

AC Spec			
32FRP - Fiber Reinforced Po	olymer (FRP) Re	inforcing Bars, Program [Quality Control Program], v1.0	
← Return to Material Selection Scre	een		
Sample Info			
Method of Acceptance	Sample Level	Category	
Sampling And Testing	VT 🗸	Fiber Reinforced Polymer (FRP) Reinforcing Bars / Carbon FRP Bars V	
Fiber Reinforced Polymers Prod			
Type Production Facility	Name]*	
Date Sample Taken			
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e Sample Login			
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C Spec	olymer (FRP) Re	inforcing Bars, Program [Quality Control Program], v1.0	
.с <mark>Spec</mark> 332FRP - Fiber Reinforced Pc		inforcing Bars, Program [Quality Control Program], v1.0	
.с <mark>Spec</mark> 332FRP - Fiber Reinforced Pc		inforcing Bars, Program [Quality Control Program], v1.0	
C Spec 32FRP - Fiber Reinforced Pc ← Return to Material Selection Scre		inforcing Bars, Program [Quality Control Program], v1.0	
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AC Spec D32FRP - Fiber Reinforced Pc Return to Material Selection Scre Sample Info Method of Acceptance Sampling And Testing Fiber Reinforced Polymers Prod Type Production Facility I	Sample Level	Category Fiber Reinforced Polymer (FRP) Reinforcing Bars / Glass FRP Bars	
AC Spec D32FRP - Fiber Reinforced Pc ← Return to Material Selection Scre Sample Info Method of Acceptance Sampling And Testing Fiber Reinforced Polymers Prod	Sample Level	Category Fiber Reinforced Polymer (FRP) Reinforcing Bars / Glass FRP Bars	
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- Under 933, Sample Level VT, select the appropriate Category
 - 1. Strands for Prestressing / Carbon Fiber Reinforced Polymer (CFRP) Strands
 - 2. Bars for Prestressing / Carbon Fiber Reinforced Polymer (CFRP) Bar

C Spec			
033 - Prestressing Strand and Ba	ar, Program [0	Quality Control Program], v1.7	
Return to Material Selection Screen			
Sample Info			
Method of Acceptance	Sample Level	Category	
Sampling And Testing	VT V	Strands for Prestressing / Carbon Fiber Reinforced Polymer (CFRP) Strands V	
Fiber Reinforced Polymers Product	tion Facility		
Type Production Facility Na	ime]*	
Date Sample Taken			
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e Sample Login			
C Spec	ar Program (C	uslity Control Program) v1 7	
C Spec	ar, Program [C	tuality Control Program], v1.7	
C Spec 33 - Prestressing Strand and Ba	ar, Program [C	uality Control Program], v1.7	
C Spec 33 - Prestressing Strand and Ba ► Return to Material Selection Screen	ar, Program [C	tuality Control Program], v1.7	
C Spec 33 - Prestressing Strand and Ba ► Return to Material Selection Screen	ar, Program [C	tuality Control Program], v1.7	
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C Spec 33 - Prestressing Strand and Ba ← Return to Material Selection Screen ample Info Method of Acceptance S Sampling And Testing Fiber Reinforced Polymers Product	iample Level	Category Bars for Prestressing / Carbon Fiber Reinforced Polymer (CFRP) Bar	
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C Spec 33 - Prestressing Strand and Ba	iample Level	Category Bars for Prestressing / Carbon Fiber Reinforced Polymer (CFRP) Bar	

• Enter the LOT # into MAC that corresponds to the LOT # of the bars sampled for testing as well as the LOT # identified by the FRP Production Facility on the Notarized Material Certification and the Certificate of Analysis.

The Precast/Prestressed Producer:

- Works with the Contractor to get the material tested at one of the approved labs listed at mac.fdot.gov > Reports > FRP Lab Report.
- Retains the following documents in the FDOT QC files:
 - 1. Notarized Material Certification
 - 2. Certificate of Analysis
 - 3. Certified Test Report

State Materials Office:

- Reviews the Notarized Material Certification, Certificate of Analysis, and the Certified Test Report for traceability and adherence to the appropriate specification.
- Finalizes the sample in MAC.