

Unit 15

**Non-Field Tested Materials
Acceptance Guide**

OREGON DEPARTMENT OF TRANSPORTATION
CONSTRUCTION SECTION
NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE
2015 STANDARD SPECIFICATIONS
March 2015 UPDATE



The most current version of this guide is available by printing from the web address listed below. This document is to be used as a guide for documentation required for acceptance of materials on ODOT Construction projects and does not relieve the user of requirements specified in the Construction Project Documents. Please notify the Contract Administration Unit, in the Construction Section at the ODOT Materials Laboratory, of any changes in Standard Drawings, Special Provisions, or Specifications, etc. which would require additions to, deletions from, or changes to this listing.

Internet Address: <http://www.oregon.gov/ODOT/HAZ/CONSTRUCTION/specs/NTMAG2015.pdf>

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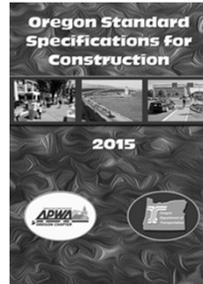
Unit 15 Topics:

- Navigation of the Non-Field Tested Materials Acceptance Guide (NTMAG)



2015 Standard Specification

00165.10(b) – “Non-Field Tested Materials will be accepted according to the ODOT Non-Field Tested Materials Acceptance Guide (NTMAG), unless otherwise specified in the Contract.”



Non-Field Tested Materials Acceptance Guide

- The NTMAG is available on-line at: <http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/docs/NFTMAG.pdf>
- Will try to be updated every 6 months.
- The NTMAG DOES NOT take precedence over the Standard Specifications, Specials, or Contract Plans.



OREGON DEPARTMENT OF TRANSPORTATION
NONFIELD-TESTED MATERIALS ACCEPTANCE GUIDE
2008 STANDARD SPECIFICATIONS

July 2012 Update

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB	
				LAB	PM	BY FIELD	
<p>This Guide provides a summary of acceptance documents for frequently used items. New materials or materials which are infrequently used may not be listed in this Guide. Consult the Contract Documents for acceptance documentation for these items.</p> <p>This Guide does not have precedence over the Special Provisions, Contract Plans, or Standard Specifications. *</p> <p>E - Equipment Lists and Drawings / Procedures L - ODOT Materials Laboratory or Inspection Report W - Warranty (Manufacture or Workmanship) P - Proof of License/Certification or Apprentice Application M - Manufacturer's Field Representative Report</p> <p>F - Field Inspection Report (FIR) O - Certificate of Materials Origin (00160.20 for Federal Aid projects) BG - Blue and Green Sheets (see section 00960, 00970 or 00990) RC - RoCap Testing P/R - DEQ Permit or Compost Producer Registration</p> <p>Q - Quality Compliance Certificate - The Certificate from the manufacturer shall: • Certify that the material meets the contract requirements and identify the specified test methods used by number (ODOT, AASHTO, ASTM, UL or other) • Permit positive determination that material delivered to the project is the same material covered by the certificate • Be delivered to the Engineer's representative with the shipment of the material, or be an identification plate or mark, decal, sticker, label, or tag attached to the container or material.</p> <p>T - Test Results Certificate - The Certificate from the manufacturer shall: • Certify that the material has been sampled and tested and that the test results meet the Specifications • Include a copy of the test results (ODOT, AASHTO, ASTM, UL, or other) • Identify the testing agency and the representative responsible for the test results • Permit positive determination that material delivered to the project is the same material covered by the certificate • Be delivered to the Engineer with the shipment of the material.</p> <p>Small Quantity - a method for accepting relatively small quantities of materials as noted in this Guide without normal sampling and testing. Normal acceptance of materials may be waived by the Project Manager when requested in writing by the Contractor. Small Quantity acceptance requirements are listed in the Guide along with the maximum amount of material that can be accepted as small quantity.</p> <p>QPL - For some materials this Guide will refer to the QPL. In the QPL, there is a column labeled "List". If there is an "A" in that column for the particular item you are looking up, no sampling or testing is required, it is approved for use. Simply document in an FIR your recognition of the product and its existence on the Approved "A" List. Material listed as approved (A) on the current Qualified Products List (QPL) fulfill the requirements for a Quality Compliance Certificate (Q) for acceptance. When approval is given to use a product that is not listed on the current QPL, a Contract Change Order will need to be executed and a Quality Compliance Certificate will be required. The Agency may require testing.</p> <p>If there is a "Q" in that column the product is Qualified and is suitable for use in that specific category. Job Control testing or additional certification may still be necessary. Consult the Contract documents for further information.</p>							
2 of 47							
*Special Provisions, Contract Plans, and Standard Specifications take precedence over the information in this Guide. Refer to your contract for documentation requirements.							

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2 of 47							
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Non-Field Tested Materials Acceptance Guide Organization

- Specification Section
- Construction Type
- Materials
- Specification Subsection
- Acceptance Documents (who furnishes the document)
- Remarks (any extra information)

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS	
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
00520	Driven piles	Steel piling	02520.10		T.O	L'	F	"T" is from steel manufacturer. Include the pile markings on FIR; heat No., lot No., grade, brand, quantity and submit copies to Materials Lab for review. "If no "T", check with Lab for physical test requirement.



Non-Field Tested Materials Acceptance Guide Organization

Small Quantity Acceptance for Non-Field Tested Materials ONLY

0055	Pavement Markers	Pavement Markers Adhesive	See 0055 in this Guide					
			Note: A maximum amount of adhesive for 200 pavement markers may be accepted as Small Quantity.					
0055	Surface Mounted Tubular Markers	Tubular Markers	0055.10		Q		F,GPL	
0060	Longitudinal Pavement Markings - Paint	Paint and Reflective Elements	See 0055 in this Guide					
0065	Longitudinal Pavement Markings - Durable	Methyl Methacrylate Thermoplastic Reflective elements	See 0055 in this Guide					
0069	Longitudinal Pavement Markings - High Performance	Modified Urethane Hi-Build Paint Polymers Reflective Elements	See 0055 in this Guide					
0067	Transverse Pavement Markings - Legends and Bars	Type A through Type D Reflective Elements	See 0055 in this Guide					See 0060.75 for additional Warranty requirements.
			Note: A maximum of 3 legends and/or bars may be accepted as Small Quantity without reflectivity testing, with an FIR as long as the marking material is on the GPL and the reflective elements are per the manufacturer.					
0065	Removal and Reinstallation of Existing Signs	Permanent Supports	See 0010, 0020, and 0030 in this Guide					
		Hardware	0210.40		Q,Q		F	"T" needs to address if hardware is new or existing. "Q" is from hardware manufacturer and galvanizer when new hardware is used for rental. "Q" is only required if hardware is new.

This example is on page 23 of NTMAG



Non-Field Tested Materials Acceptance Guide Problem 15-1

Question: In section 00225, under Temporary Pavement Markers, what Quality Acceptance Documents are required?

Answer: There are no Quality Acceptance Documents required. However we need to make sure that the markers are from the QPL Approved Product List.

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS
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				LAB	PM		
Guide along with the maximum amount of material that can be accepted as small quantity.							
00225	Work zone traffic control	Temporary protection and direction of traffic	00225.90(a)(2)				No quality acceptance documents required.
		Pavement Markers, Temporary Bituminous Adhesive	00225.13(f) SP00850.11				No quality acceptance documents required. Use materials from the QPL "A" or "Q" list. QPL lists bituminous adhesive under section 00855.



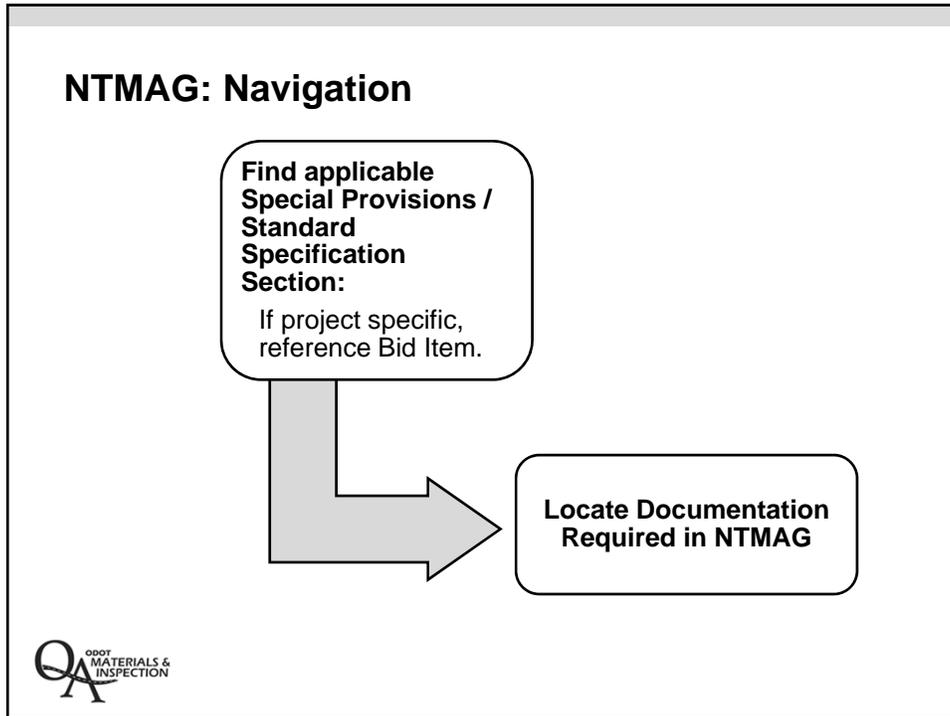
Non-Field Tested Materials Acceptance Guide Problem 15-2

Question: In section 00445, under Polyvinyl Chloride Pipe (PVC), what Quality Acceptance Documents are required?

Answer: Quality Compliance Certificate from markings on pipe, and a Field Inspection Report. On the FIR, note pipe markings, manufacturer's name, and/or trademark, size, and ASTM designation.

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS
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				LAB	PM		
00445		Polyvinyl Chloride Pipe(PVC)	02410.70		Q	F	"Q" is markings on pipe. Field will include pipe markings on FIR: manufacturer's name and/or trademark, size, and ASTM designation.





NTMAG: Test Your Navigational Skills!

Problem 15-3

- What quality documentation is needed for **erosion control seed (temporary or permanent)**?
- What quality documentation is needed for **temporary tape**?
- What quality documentation is needed for **high strength anchor bolts/rods, nuts, and washers** for **sign support footings**?



Non-Field Tested Materials Acceptance Guide Problem 15-4

Question: In contract #14785, what Quality Acceptance Documents are required for Bid Item 0290?

Where should we start?

- First we need to find out what **Bid Item 0290** is.
- Start in the Specials under the Bid Item Schedule:
0290 Subgrade Geotextile.
- The specification number is Section **00350-Geosynthetic Installation.**

With the Section Number, we can look in the **NTMAG.**



Non-Field Tested Materials Acceptance Guide Problem 15-4 (continued)

Question: On contract #14785, what Quality Acceptance Documents are required for Bid Item 0290?

SECTION	TYPE OF CONSTRUCTION	MATERIALS	SUBSECTION	ACCEPTANCE DOCUMENTS			REMARKS	
				FURNISHED BY CONTRACTOR TO		BY MATERIALS LAB		BY FIELD
				LAB	PM			
00350	Geosynthetic installation	Geotextile fabric (Documentation Level B)	02320		Q		F	"Q" is from fabric manufacturer.
		Geotextile fabric (Documentation Level A)	02320		T		F	"T" is from fabric manufacturer. Field includes lot and roll numbers on FIR.

4 of 34

- Section – 00350
- Type of Construction – Geosynthetic Installation
- Material – Geotextile Fabric (Level A or B)

*To determine what Certification Level we need, go back to **Specials** under **Section 00350 Geosynthetic Installation.***



Non-Field Tested Materials Acceptance Guide Problem 15-4 (continued)

Special Provisions

Page 152/201

SECTION 00350 - GEOSYNTHETIC INSTALLATION

Comply with Section 00350 of the Standard Specifications modified as follows:

00350.10 Materials - Add the following to the end of this subsection:

Provide manufacturer's certifications complying with 02320.10(c) for the following geosynthetics:

Geotextile	Certification Level A
Subgrade	X

Certification Level A



Non-Field Tested Materials Acceptance Guide Problem 15-4 (continued)

Question: On contract #14785, what Quality Acceptance Documents are required for Bid Item 0290?

Now back to **NTMAG** to see what Documentation **Level A** requires.

00350	Geosynthetic installation	Geotextile fabric (Documentation Level B)	02320.10(c)(2)		Q		F	*Q* is from fabric manufacturer.
		Geotextile fabric (Documentation Level A)	02320.10(c)-1)(a)		T		F	**T* is from fabric manufacturer meeting 00165.35 and 02320.10(c)-1)(a). Field includes lot and roll numbers on FIR for delivered material.

Answer:



Non-Field Tested Materials Acceptance Guide and Qualified Products List Overview

- Always check the Special Provisions for Specific Materials
- Always check the Standard Specification Materials
- Always read to make sure you know what Quality Acceptance Documents require
- Try not to incorporate Materials until all quality documents have been submitted and approved
 - Remember: Materials will be subject to acceptance testing if the Engineer so elects.
 - The Engineer may reject damaged or non-Specification Materials regardless of the Materials Conformance Documents furnished.



Unit 15 Review:

- ✓ Abbreviations and document submittal
- ✓ Navigation of the NTMAG



**Non-Field Tested Materials Acceptance Guide
Problem 15-5**

Scenario: The Contractor is going to use steel for concrete reinforcement from a manufacturer that is NOT Approved on the QPL. What Quality Acceptance Documents must the Contractor supply to incorporate the steel?



**Non-Field Tested Materials Acceptance Guide
Class Problem 15-6**

Scenario: The Contractor is going to use steel for concrete reinforcement from a manufacturer that is NOT Approved on the QPL. What Quality Acceptance Documents must the Contractor supply to incorporate the steel?



**Non-Field Tested Materials Acceptance Guide
Class Problem 15-7**

Scenario: The Contractor is about to install signs on the project. They had two types of signs delivered on the project. One set has been inspected by the ODOT Materials Lab and the second set has not.

What steps need to be taken and what acceptance documents need to be provided for both sets of signs?



p.01 ~~supported~~
~~sed. fence~~
Geotex

KINTEX

Industries, LLC
102 Brownfield Drive
Summerville, South Carolina 29483

May 12, 2014

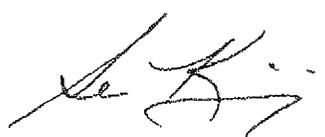
Tammy Eastman
GeoTK, LLC
2313 East Second Street
Vancouver, WA 98661

US101 FFO SE 23rd -SW 35th
Lincoln City Oregon Coast Hwy
47V-025 Lincoln Co
C14654 CON03609 NHPP-S009(419)
BI 570 Note Est Date

Dear Tammy:

This will certify that **WevTex 180**, roll numbers VT06A3, VT06C8-010, 509, 112, 111, 113, VT06C7-H05, 06, 07, OHD-8610, 8612, 8614 from Lot TRI E2379-39-06 (attached), supplied for ODOT FFO – US 101: Southeast 23rd Drive – SW 35 ST, K&E Excavating Contractor, meets the following minimum average roll values (MARV).

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Grab Tensile Strength (lbs)	ASTM D 4632	180
Elongation (%)	ASTM D 4632	15
Trapezoid Tear (lbs)	ASTM D 4533	70
CBR Puncture (lbs)	ASTM D 6241	550
Puncture (lbs)	ASTM D 4833	80
AOS (U.S. sieve no.)	ASTM D 4751	40
Permittivity (sec-1)	ASTM D 4491	.05
Vertical Water Flow Rate (gal/min/sf)	ASTM D 4491	3
UV Resistance (% @ 500 hrs.)	ASTM D 4355	70


Sean Kiniry

FIR →

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