

NorthEast Transportation Training & Certification Program

HMA Pavement Nuclear Density Test Report (D 2950)

Date/Time: October 7, 2020		Location: Tilcon - North Branford, CT	
Weather: Partly Cloudy	Date Rec'd #: 10/7/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline - Durham, CT	Lab Login #: -	Lot #: -	
Report #: 19-75-012-113	Material ID: SP 1.0"	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: First Lift	
Pay Item #: -	Sample #: -	Station: See Below	
Source: Tilcon - North Branford, CT	Sample Type: QC <input type="checkbox"/>	Offset: See Below	
Plant Type: -	Sampled By/Cert. #: Hunter Davis		

Density Gauge Information			
Make:	Troxler	Date of Calibration:	7/1/2020
Model #:	3430	Source of Calibration:	Q/C Resource
Serial #:	29806	Standard Count:	-
Gauge #:	29806	Duration of Test:	15 Seconds
Other:	-	Thickness of Lift Tested:	3.0"

Density of HMA in Place by Nuclear Method (D 2950)							
Sublot #	Station	Offset	Time	Random (Y/N)	(B) Max Theor. Density (From T 209)	(A) In-Place Density, kg / m ³	% Compaction (A/B * 100)
-	154+50	-	11:28 AM	N	167.2	156.6	94.4
-	154+75	-	11:32 AM	N	167.2	157.1	95.4
-	155+00	-	11:38 AM	N	167.2	159.5	96.3
-	155+25	-	11:48 AM	N	167.2	153.9	92.0
-	155+50	-	12:20 PM	N	167.2	155.8	93.2
-	155+75	-	12:25 PM	N	167.2	155.4	92.9
-	156+00	-	12:27 PM	N	167.2	154.2	92.2
-	156+25	-	12:30 PM	N	167.2	159.5	95.4
-	156+50	-	12:35 PM	N	167.2	163.5	97.8
-	156+75	-	12:40 PM	N	167.2	161.5	96.6
-	157+00	-	12:45 PM	N	167.2	156.9	93.8
-	154+50	-	1:20 PM	N	167.2	154.6	92.5
-	154+75	-	1:25 PM	N	167.2	153.2	91.6
-	155+00	-	1:40 PM	N	167.2	155.6	93.1
-	155+25	-	1:43 PM	N	167.2	154.1	92.2
-	155+50	-	1:45 PM	N	167.2	157.0	93.9
-	155+75	-	1:50 PM	N	167.2	154.0	92.1
-	156+00	-	1:55 PM	N	167.2	154.7	92.5

Comments:

Tested by: Hunter Davis	Reviewed by: -
Certification #: -	Certification #: -
Date: 10/7/2020	Date: -
Test Results Within Engineering Limits:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

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Date/Time: October 7, 2020		Location: Tilcon - North Branford, CT	
Weather: Partly Cloudy	Date Rec'd #: 10/7/2020	Random Sample: No ▼	
Project: Durham Meadows Waterline - Durham, CT	Lab Login #: -	Lot #: -	
Report #: 19-75-012-113	Material ID: SP 1.0"	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: Second Lift	
Pay Item #: -	Sample #: -	Station: See Below	
Source: Tilcon - North Branford, CT	Sample Type: QC ▼	Offset: See Below	
Plant Type: -	Sampled By/Cert. #: Hunter Davis		

Density Gauge Information			
Make:	Troxler	Date of Calibration:	7/1/2020
Model #:	3430	Source of Calibration:	Q/C Resource
Serial #:	29806	Standard Count:	-
Gauge #:	29806	Duration of Test:	15 Seconds
Other:	-	Thickness of Lift Tested:	3.0"

Density of HMA in Place by Nuclear Method (D 2950)							
Sublot #	Station	Offset	Time	Random (Y/N)	(B) Max Theor. Density (From T 209)	(A) In-Place Density, kg / m ³	% Compaction (A/B * 100)
-	156+25	-	1:57 PM	N	167.2	155.9	94.6
-	156+50	-	2:00 PM	N	167.2	156.7	95.3
-	156+75	-	2:10 PM	N	167.2	158.9	95.1
-	157+00	-	2:15 PM	N	167.2	157.8	94.4

Comments:

Tested by: Hunter Davis		Reviewed by: -	
Certification #: -		Certification #: -	
Date: 10/7/2020		Date: -	
Test Results Within Engineering Limits:		YES <input type="checkbox"/> NO <input type="checkbox"/>	

NorthEast Transportation Training & Certification Program

HMA Field Temperatures Test Report (Sub-Base, Air, Mix)

Date/Time: October 7, 2020		Location: Tilcon - North Branford, CT	
Weather: Partly Cloudy	Date Rec'd #: 10/7/2020	Random Sample: No	<input type="checkbox"/>
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Report #: 19-75-012-113	Material ID: -	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: First Lift	
Pay Item #: -	Sample #: -	Station: See Below	
Source: Tilcon - North Branford, CT	Sample Type: QC	Offset: See Below	
Plant Type: -	Sampled By/Cert. #: Hunter Davis		

Temperature Reference Information			
Weather:	Partly Cloudy	Sub Base Temperature, °F (BT):	66°F
Thermometer Type:	Infrared Temp Gun	Air Temperature High, °F (ATH):	78°F
Calibration Source:	Manufacturer	Air Temperature Low, °F (ATL):	48°F
Calibration Date:			

HMA Field Temperature Measurements							
Sublot #	Station	Offset	Time	Mat Thickness (inches)	Random (Y/N)	Location	Mix Temp, °F (MT)
-	154+50	-	11:28 AM	3.0	N	-	273°F
-	154+75	-	11:32 AM	3.0	N	-	273°F
-	155+00	-	11:38 AM	3.0	N	-	273°F
-	155+25	-	11:48 AM	3.0	N	-	273°F
-	155+50	-	12:20 PM	3.0	N	-	273°F
-	155+75	-	12:25 PM	3.0	N	-	273°F
-	156+00	-	12:27 PM	3.0	N	-	273°F
-	156+25	-	12:30 PM	3.0	N	-	273°F
-	156+50	-	12:35 PM	3.0	N	-	273°F
-	156+75	-	12:40 PM	3.0	N	-	273°F
-	157+00	-	12:45 PM	3.0	N	-	273°F
-	154+50	-	1:20 PM	3.0	N	-	296°F
-	154+75	-	1:25 PM	3.0	N	-	296°F
-	155+00	-	1:40 PM	3.0	N	-	296°F
-	155+25	-	1:43 PM	3.0	N	-	296°F
-	155+50	-	1:45 PM	3.0	N	-	296°F
-	155+75	-	1:50 PM	3.0	N	-	296°F
-	156+00	-	1:55 PM	3.0	N	-	296°F

Comments:

Tested by: Hunter Davis	Reviewed by: -
Certification #: -	Certification #: -
Date: 10/7/2020	Date: -
Test Results Within Engineering Limits:	YES <input type="checkbox"/> NO <input type="checkbox"/>

NorthEast Transportation Training & Certification Program

HMA Field Temperatures Test Report (Sub-Base, Air, Mix)

Date/Time: October 7, 2020		Location: Tilcon - North Branford, CT	
Weather: Sunny	Date Rec'd #: 10/7/2020	Random Sample: No ▼	
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Report #: 19-75-012-113	Material ID: -	Sublot #: -	
Contractor: Ludlow Construction Co., Inc.	Material #: -	Sample Location: First Lift	
Pay Item #: -	Sample #: -	Station: See Below	
Source: Tilcon - North Branford, CT	Sample Type: QC ▼	Offset: See Below	
Plant Type: -		Sampled By/Cert. #: Hunter Davis	

Temperature Reference Information			
Weather:	Partly Cloudy	Sub Base Temperature, °F (BT):	66°F
Thermometer Type:	Infrared Temp Gun	Air Temperature High, °F (ATH):	78°F
Calibration Source:	Manufacturer	Air Temperature Low, °F (ATL):	48°F
Calibration Date:			

HMA Field Temperature Measurements							
Sublot #	Station	Offset	Time	Mat Thickness (inches)	Random (Y/N)	Location	Mix Temp, °F (MT)
-	156+25	-	1:57 PM	3.0	N	-	296°F
-	156+50	-	2:00 PM	3.0	N	-	296°F
-	156+75	-	2:10 PM	3.0	N	-	296°F
-	157+00	-	2:15 PM	3.0	N	-	296°F

Comments:

Tested by: Hunter Davis Reviewed by: -

Certification #: - Certification #: -

Date: 10/7/2020 Date: -

Test Results Within Engineering Limits: YES NO