

NorthEast Transportation Training & Certification Program

HMA Pavement Nuclear Density Test Report (D 2950)

Date/Time: October 6, 2020		Location: Tilcon - North Branford, CT	
Weather: Partly Cloudy	Date Rec'd #: 10/6/2020	Random Sample: No ▼	
Project: Durham Meadows Waterline - Durham, CT	Lab Login #: -	Lot #: -	
Report #: 19-75-012-112	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 ▼	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)
-	151+50	-	11:38 AM	N	167.2	163.3	94.4
-	151+75	-	11:38 AM	N	167.2	159.1	95.4
-	152+00	-	11:40 AM	N	167.2	165.5	96.3
-	152+25	-	11:41 AM	N	167.2	171.5	102.6
-	152+50	-	11:42 AM	N	167.2	159.0	95.1
-	152+75	-	11:45 AM	N	167.2	158.3	94.7
-	153+00	-	11:57 AM	N	167.2	161.2	96.4
-	153+25	-	12:10 PM	N	167.2	172.4	103.1
-	153+50	-	12:11 PM	N	167.2	166.0	99.3
-	153+75	-	12:15 PM	N	167.2	168.5	100.8
-	154+00	-	12:20 PM	N	167.2	169.6	101.4
-	151+50	-	12:55 PM	N	167.2	167.0	99.9
-	151+75	-	1:10 PM	N	167.2	162.5	97.2
-	152+00	-	1:15 PM	N	167.2	162.2	97.0
-	152+25	-	1:20 PM	N	167.2	171.8	102.8
-	152+50	-	1:20 PM	N	167.2	173.8	103.9
-	152+75	-	1:30 PM	N	167.2	169.6	101.4
-	153+00	-	1:37 PM	N	167.2	167.0	99.9

Comments:

Tested by: Hunter Davis	Reviewed by: -
Certification #: -	Certification #: -
Date: 10/6/2020	Date: -
Test Results Within Engineering Limits:	YES <input type="checkbox"/> NO <input type="checkbox"/>

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Date/Time: October 6, 2020

Location: Tilcon - North Branford, CT

Weather: Partly Cloudy

Date Rec'd #: 10/6/2020

Random Sample: No ▾

Project: Durham Meadows Waterline - Durham, CT

Lab Login #: -

Lot #: -

Report #: 19-75-012-112

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)
-	153+25	-	1:35 PM	N	167.2	169.0	94.6
-	153+50	-	1:37 PM	N	167.2	160.2	95.3
-	153+75	-	1:40 PM	N	167.2	164.0	95.1
-	154+00	-	1:45 PM	N	167.2	152.7	91.3

Comments:

Tested by: Hunter Davis

Reviewed by: -

Certification #: -

Certification #: -

Date: 10/6/2020

Date: -

Test Results Within Engineering Limits: **YES** **NO**

NorthEast Transportation Training & Certification Program

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

Date/Time: October 6, 2020		Location: Tilcon - North Branford, CT	
Weather: Partly Cloudy	Date Rec'd #: 10/6/2020	Random Sample: No ▼	
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Report #: 19-75-012-112	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)
-	151+50	-	11:38 AM	3.0	N	-	278°F
-	151+75	-	11:38 AM	3.0	N	-	278°F
-	152+00	-	11:40 AM	3.0	N	-	278°F
-	152+25	-	11:41 AM	3.0	N	-	278°F
-	152+50	-	11:42 AM	3.0	N	-	278°F
-	152+75	-	11:45 AM	3.0	N	-	278°F
-	153+00	-	11:57 AM	3.0	N	-	278°F
-	153+25	-	12:10 PM	3.0	N	-	278°F
-	153+50	-	12:11 PM	3.0	N	-	278°F
-	153+75	-	12:15 PM	3.0	N	-	278°F
-	154+00	-	12:20 PM	3.0	N	-	278°F
-	151+50	-	12:55 PM	3.0	N	-	295°F
-	151+75	-	1:10 PM	3.0	N	-	295°F
-	152+00	-	1:15 PM	3.0	N	-	295°F
-	152+25	-	1:20 PM	3.0	N	-	295°F
-	152+50	-	1:22 PM	3.0	N	-	295°F
-	152+75	-	1:30 PM	3.0	N	-	295°F
-	153+00	-	1:37 PM	3.0	N	-	295°F

Comments:

Tested by: Hunter Davis	Reviewed by: -
Certification #: -	Certification #: -
Date: 10/6/2020	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 6, 2020		Location: Tilcon - North Branford, CT	
Weather: Sunny	Date Rec'd #: 10/6/2020	Random Sample: No <input type="checkbox"/>	
Project: Durham Meadows Waterline	Lab Login #: -	Lot #: -	
Report #: 19-75-012-112	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 <input type="checkbox"/>	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)
-	153+25	-	1:35 PM	3.0	N	-	295°F
-	153+50	-	1:37 PM	3.0	N	-	295°F
-	153+75	-	1:40 PM	3.0	N	-	295°F
-	154+00	-	1:45 PM	3.0	N	-	295°F

Comments:

Tested by: Hunter Davis	Reviewed by: -
Certification #: -	Certification #: -
Date: 10/6/2020	Date: -
Test Results Within Engineering Limits: YES <input type="checkbox"/> NO <input type="checkbox"/>	