



GEOTECHNICAL ▼ ENVIRONMENTAL ▼ INSPECTIONS ▼ TESTING

## REPORT OF CONCRETE FIELD & LABORATORY TESTING

**CLIENT:** Old Dominion Freight Lines  
500 Old Dominion Way  
Thomasville, NC. 27360  
Attn: Philip Danner

**PROJECT:** Old Dominion Building Expansion  
185 Rand Road  
Portland, ME

**DATE:** October 14, 2014 **REPORT #:** 14-55-00014-029

**General Location:** South sidewalk & east entry sidewalk  
**Date Cast:** 10/7/14  
**Field Rep:** Nickolas Brown  
**Contractor:** DL Chase  
**Supplier:** Auburn Concrete  
**Admixtures:** Masterair, masglenium, masterfiber  
**Air Temp:** 61°F  
**Weather:** Sun  
**Nominal size of Aggr:** ¾"

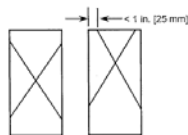
### FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
253740	-	-	-	6:02 – 6:43 / 41 mins
253743 / 5 cyls	6.0"	6.6%	65°F	6:25 – 7:12 / 47 mins
253744	-	-	-	6:42 – 7:23 / 41 mins

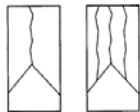
\*Specimens molded in accordance with ASTM C31

### LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
10/14/14	7	12.56 <sup>2</sup>	3940	2
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
-	Hold	12.56 <sup>2</sup>		



Type 1  
Reasonably well-formed  
cones on both ends, less  
than 1 in. [25 mm] of  
cracking through caps



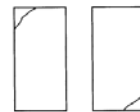
Type 2  
Well-formed cone on one  
end, vertical cracks running  
through caps, no well-  
defined cone on other end



Type 3  
Columnar vertical cracking  
through both ends, no well-  
formed cones



Type 4  
Diagonal fracture with no  
cracking through ends;  
tap with hammer to  
distinguish from Type 1



Type 5  
Side fractures at top or  
bottom (occur commonly  
with unbonded caps)



Type 6  
Similar to Type 5 but end  
of cylinder is pointed

**Specific Sample:** South Sidewalk  
**Yards placed:** 30.0 yards  
**Design Strength:** 5000 psi  
**Remarks:**



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**DATE:** October 14, 2014 **REPORT #:** 14-55-00014-029

**General Location:** West truck landing pad  
**Date Cast:** 10/7/14  
**Field Rep:** Nickolas Brown  
**Contractor:** DL Chase  
**Supplier:** Auburn Concrete  
**Admixtures:** Masterair, masglenium, masterset  
**Air Temp:** 61°F  
**Weather:** Sun  
**Nominal size of Aggr:** ¾"

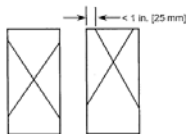
### FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
249974	6.5"	5.7%	70°F	7:32 – 8:10 / 38 mins
249976	-	-	-	7:45 – 8:25 / 40 mins
249977 / 5 cyls	6.0"	5.0%	67°F	8:13 – 8:44 / 31 mins
249980	-	-	-	8:39 – 9:10 / 31 mins
249981	-	-	-	8:47 – 9:26 / 39 mins

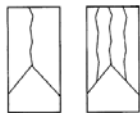
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### LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
10/14/14	7	12.56 <sup>2</sup>	4280	2
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
-	Hold	12.56 <sup>2</sup>		



Type 1  
Reasonably well-formed  
cones on both ends, less  
than 1 in. (25 mm) of  
cracking through caps



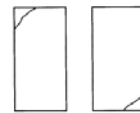
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Columnar vertical cracking  
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Type 4  
Diagonal fracture with no  
cracking through ends;  
tap with hammer to  
distinguish from Type 1



Type 5  
Side fractures at top or  
bottom (occur commonly  
with unbonded caps)



Type 6  
Similar to Type 5 but end  
of cylinder is pointed

**Specific Sample:** West truck landing pad  
**Yards placed:** 90.0 yards  
**Design Strength:** 4000 PSI  
**Remarks:**



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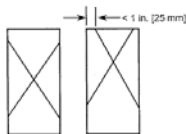
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249983	5.5"	5.6%	66°F	9:00 – 9:42 / 42 mins
249985 / 5 cyls	6.5"	5.9%	68°	9:31 – 10:02 / 31 mins
249987	-	-	-	9:40 – 10:26 / 46 mins
249989	-	-	-	9:50 – 10:43 / 53 mins

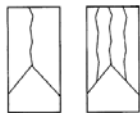
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Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
10/14/14	7	12.56 <sup>2</sup>	4400	3
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
11/04/14	28	12.56 <sup>2</sup>		
-	Hold	12.56 <sup>2</sup>		



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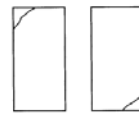
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