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UAB Concrete Sustainability Study

Date : **7/9/2015**

Mix Code : **UAB1**

Description : **4000/564/LS**

Revision Number : 3

Creation Date : 09 Jul 2015

Customer :

Plant : BIRMINGHAM

Created By : skelley

Project :

Specifications

Consistence Class : 5

Max W/C :

Max Agg Size :

Strength Class : 4000 PSI

Min Cement :

Air Class : 1.50

Exposure Class :

Material Type	Material Code	Description	Supplier Source	<DEFAULT>	Design Quantity	Specific Gravity	Volume ft3
Cement	CEMENT1	CEMENT I/II	Lehigh Cement-Leeds		564 lb	3.15	2.87
Coarse Aggregate	67LS	67 LIMESTONE	Wade Sand & Gravel-E		1880 lb	2.74	11.00
Fine Aggregate	SAND	CONCRETE SAND	Red Bluff-Prattville		1390 lb	2.63	8.47
Water	WATER	WATER	Water-Potable		32.0 gal	1.00	4.28
Admixture	HRWR1	POLY1025 Type A or F	BASF-Admixtures		4.0 dose	-	-
Air Content					1.50 %	--	0.41
Yield					4101 lb	--	27.02

Design Properties

W/C Eq : 0.47

Density : 151.8 lb/ft3

Grading Specification : ACI 302 (8-22)

Cement Eq : 564

Chloride/Cem : 0.0 %

Actual Dmax : 0 mm

Prepared By :



UAB Concrete Sustainability Study

Date : **7/9/2015**

Mix Code : **UAB2**

Description : **4000/564/20C/LS**

Revision Number : 3	Creation Date : 09 Jul 2015	Customer :
Plant : BIRMINGHAM	Created By : skelley	Project :

Specifications

Consistence Class : 5	Max W/C :	Max Agg Size :
Strength Class : 4000 PSI	Min Cement :	Air Class : 1.50
Exposure Class :		

Material Type	Material Code	Description	Supplier Source	<DEFAULT>	Design Quantity	Specific Gravity	Volume ft3	
Cement	CEMENT1	CEMENT I/II	Lehigh Cement-Leeds		451 lb	3.15	2.29	
Fly Ash	C-ASH	CLASS C FLYASH	Headwaters-Miller		113 lb	2.60	0.70	
Coarse Aggregate	67LS	67 LIMESTONE	Wade Sand & Gravel-E		1880 lb	2.74	11.00	
Fine Aggregate	SAND	CONCRETE SAND	Red Bluff-Prattville		1370 lb	2.63	8.35	
Water	WATER	WATER	Water-Potable		32.0 gal	1.00	4.28	
Admixture	HRWR1	POLY1025 Type A or F	BASF-Admixtures		4.0 dose	-	-	
					Air Content	1.50 %	--	0.41
					Yield	4081 lb	--	27.02

Design Properties

W/C Eq : 0.47	Density : 151.0 lb/ft3	Grading Specification : ACI 302 (8-22)
Cement Eq : 564	Chloride/Cem : 0.0 %	Actual Dmax : 0 mm



UAB Concrete Sustainability Study

Date : 7/9/2015

Mix Code : UAB3

Description : 4000/564/20C/25RC

Revision Number : 4

Creation Date : 09 Jul 2015

Customer :

Plant : BIRMINGHAM

Created By : skelley

Project :

Specifications

Consistence Class : 5	Max W/C :	Max Agg Size :
Strength Class : 4000 PSI	Min Cement :	Air Class : 1.50
Exposure Class :		

Material Type	Material Code	Description	Supplier Source	<DEFAULT>	Design Quantity	Specific Gravity	Volume ft3
Cement	CEMENT1	CEMENT I/II	Lehigh Cement-Leeds		451 lb	3.15	2.29
Fly Ash	C-ASH	CLASS C FLYASH	Headwaters-Miller		113 lb	2.60	0.70
Coarse Aggregate	67LS	67 LIMESTONE	Wade Sand & Gravel-E		1410 lb	2.74	8.25
Fine Aggregate	SAND	CONCRETE SAND	Red Bluff-Prattville		1370 lb	2.63	8.35
Water	WATER	WATER	Water-Potable		32.0 gal	1.00	4.28
Admixture	HRWR1	POLY1025 Type A or F	BASF-Admixtures		4.0 dose	-	-
Coarse Aggregate	57LS	57 LIMESTONE	Wade Sand & Gravel-E		429 lb	2.50	2.75
Air Content					1.50 %	--	0.41
Yield					4040 lb	--	27.02

Design Properties

W/C Eq : 0.47	Density : 149.5 lb/ft3	Grading Specification : ACI 302 (8-22)
Cement Eq : 564	Chloride/Cem : 0.0 %	Actual Dmax : 0 mm

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UAB Concrete Sustainability Study

Date : 7/9/2015

Mix Code : UAB4

Description : 4000/564/20C/50RC

Revision Number : 2

Creation Date : 09 Jul 2015

Customer :

Plant : BIRMINGHAM

Created By : skelley

Project :

Specifications

Consistence Class : 5	Max W/C :	Max Agg Size :
Strength Class : 4000 PSI	Min Cement :	Air Class : 1.50
Exposure Class :		

Material Type	Material Code	Description	Supplier Source	<DEFAULT T>	Design Quantity	Specific Gravity	Volume ft3
Cement	CEMENT1	CEMENT I/II	Lehigh Cement-Leeds		451 lb	3.15	2.29
Fly Ash	C-ASH	CLASS C FLYASH	Headwaters-Miller		113 lb	2.60	0.70
Coarse Aggregate	67LS	67 LIMESTONE	Wade Sand & Gravel-E		940 lb	2.74	5.50
Fine Aggregate	SAND	CONCRETE SAND	Red Bluff-Prattville		1370 lb	2.63	8.35
Water	WATER	WATER	Water-Potable		32.0 gal	1.00	4.28
Admixture	HRWR1	POLY1025 Type A or F	BASF-Admixtures		4.0 dose	-	-
Coarse Aggregate	57LS	57 LIMESTONE	Wade Sand & Gravel-E		858 lb	2.50	5.50
Air Content					1.50 %	--	0.41
Yield					3999 lb	--	27.02

Design Properties

W/C Eq : 0.47	Density : 148.0 lb/ft3	Grading Specification : ACI 302 (8-22)
Cement Eq : 564	Chloride/Cem : 0.0 %	Actual Dmax : 0 mm

Prepared By :

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UAB Concrete Sustainability Study

Date : **7/9/2015**

Mix Code : **UAB5**

Description : **4000/564/20C/100RC**

Revision Number : 3

Creation Date : 09 Jul 2015

Customer :

Plant : BIRMINGHAM

Created By : skelley

Project :

Specifications

Consistence Class : 5	Max W/C :	Max Agg Size :
Strength Class : 4000 PSI	Min Cement :	Air Class : 1.50
Exposure Class :		

Material Type	Material Code	Description	Supplier Source	<DEFAULT >	Design Quantity	Specific Gravity	Volume ft3
Cement	CEMENT1	CEMENT I/II	Lehigh Cement-Leeds		451 lb	3.15	2.29
Fly Ash	C-ASH	CLASS C FLYASH	Headwaters-Miller		113 lb	2.60	0.70
Coarse Aggregate	67LS	67 LIMESTONE	Wade Sand & Gravel-E		0 lb	2.74	0.00
Fine Aggregate	SAND	CONCRETE SAND	Red Bluff-Prattville		1370 lb	2.63	8.35
Water	WATER	WATER	Water-Potable		32.0 gal	1.00	4.28
Admixture	HRWR1	POLY1025 Type A or F	BASF-Admixtures		4.0 dose	-	-
Coarse Aggregate	57LS	57 LIMESTONE	Wade Sand & Gravel-E		1716 lb	2.50	11.00
Air Content					1.50 %	--	0.41
Yield					3917 lb	--	27.02

Design Properties

W/C Eq : 0.47	Density : 145.0 lb/ft3	Grading Specification : ACI 302 (8-22)
Cement Eq : 564	Chloride/Cem : 0.0 %	Actual Dmax : 0 mm

Prepared By :