



Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: PORTLAND - OCEAN GATEWAY TERMINAL - MATERIALS TESTING **Project Number:** 05-0134

Client: REED & REED, INC.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 9/25/2007 **Time Cast:** 7:30 **Date Received:** 9/26/2007

Placement Location: FLUSH CONCRETE ISLAND

Placement Method: TAILGATE

Placement Vol. (yd³): 18

Cylinders Made By: VLT

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: POLYHEED 1020

TEST RESULTS

Slump (in) (C-143):	Slump WR:	6	Load Number:	1
Air Content (%) (C-231):	Air WR:	5.5	Mixer Number:	116
Air Temp (°F):	55		Ticket Number:	136967
Conc. Temp (°F) (C-1064):	70		Cubic Yards:	9
			Design (psi):	4350

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
561-61A		6.00	28.27	10/2/2007	Lab	7	4	134.0	4740
561-61B		6.00	28.27	10/23/2007	Lab	28	4	149.5	5290
561-61C		6.00	28.27	10/23/2007	Lab	28	4	138.5	4900
561-61D				Hold	Lab				

Fracture Types



Cone



Cone and Split



Cone and Shear



Shear



Columnar

Remarks: