

## Report of Concrete Compressive Strength

ASTM C-31 &amp; 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:** 12/19/2006 **Time Cast:** 11:25 **Date Received:** 12/20/2006

**Placement Location:** 2ND FLOOR OBSERVATION DECK

**Placement Method:** PUMP

**Placement Vol. (yd<sup>3</sup>):** 30

**Cylinders Made By:** DMR

**Aggregate Size (in):** 3/4

### INITIAL CURING CONDITIONS

#### Temperatures

**Minimum (°F)**                      **Maximum (°F)**

### DELIVERY INFORMATION

**Admixtures:** 2% POLARSET

### TEST RESULTS

**Slump (in) (C-143):** 5.25

**Load Number:** 2

**Air Content (%) (C-231):** 2.0

**Mixer Number:** 84

**Air Temp (°F):** 38

**Ticket Number:** 109317

**Conc. Temp (°F) (C-1064):** 69

**Cubic Yards:** 10

**Design (psi):** 4000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) <sup>2</sup>	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
561-39A		6.00	28.27	12/26/2006	Lab	4	4	90.0	3180
561-39B		6.00	28.27	12/26/2006	Lab	7	4	103.5	3660
561-39C		6.00	28.27	1/16/2007	Lab	28	4	128.0	4530
561-39D		6.00	28.27	1/16/2007	Lab	28	4	127.0	4490
561-39E				Hold	Lab				

#### Fracture Types



1  
Cone



2  
Cone and Split



3  
Cone and Shear



4  
Shear



5  
Columnar

Remarks: