

## 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:** 6/29/2006 **Time Cast:** 1:30 **Date Received:** 6/30/2006

**Placement Location:** I LINE WALLS

**Placement Method:** CRANE & BUCKET

**Placement Vol. (yd<sup>3</sup>):** 26

**Cylinders Made By:** DMR

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

### INITIAL CURING CONDITIONS

#### Temperatures

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

### DELIVERY INFORMATION

**Admixtures:** POLYHEED 1020 & MICROSILICA

### TEST RESULTS

**Slump (in) (C-143):** 3.0 **Slump WR:** 6.5

**Load Number:** 2

**Air Content (%) (C-231):** 7.4

**Mixer Number:** 83

**Air Temp (°F):** 72

**Ticket Number:** 102309

**Conc. Temp (°F) (C-1064):** 82

**Cubic Yards:** 9

**Design (psi):** 5075

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)
561-12B		6.00	28.27	7/27/2006	Lab	28	4	150.5	5320
561-12C		6.00	28.27	7/27/2006	Lab	28	4	152.5	5390
561-12D				Hold	Lab				

#### Fracture Types



Cone



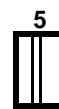
Cone and Split



Cone and Shear



Shear



Columnar

Remarks: