

Fire test of a Reinforced Concrete Slab Strengthened with Hybrid Ductile Fabric

by

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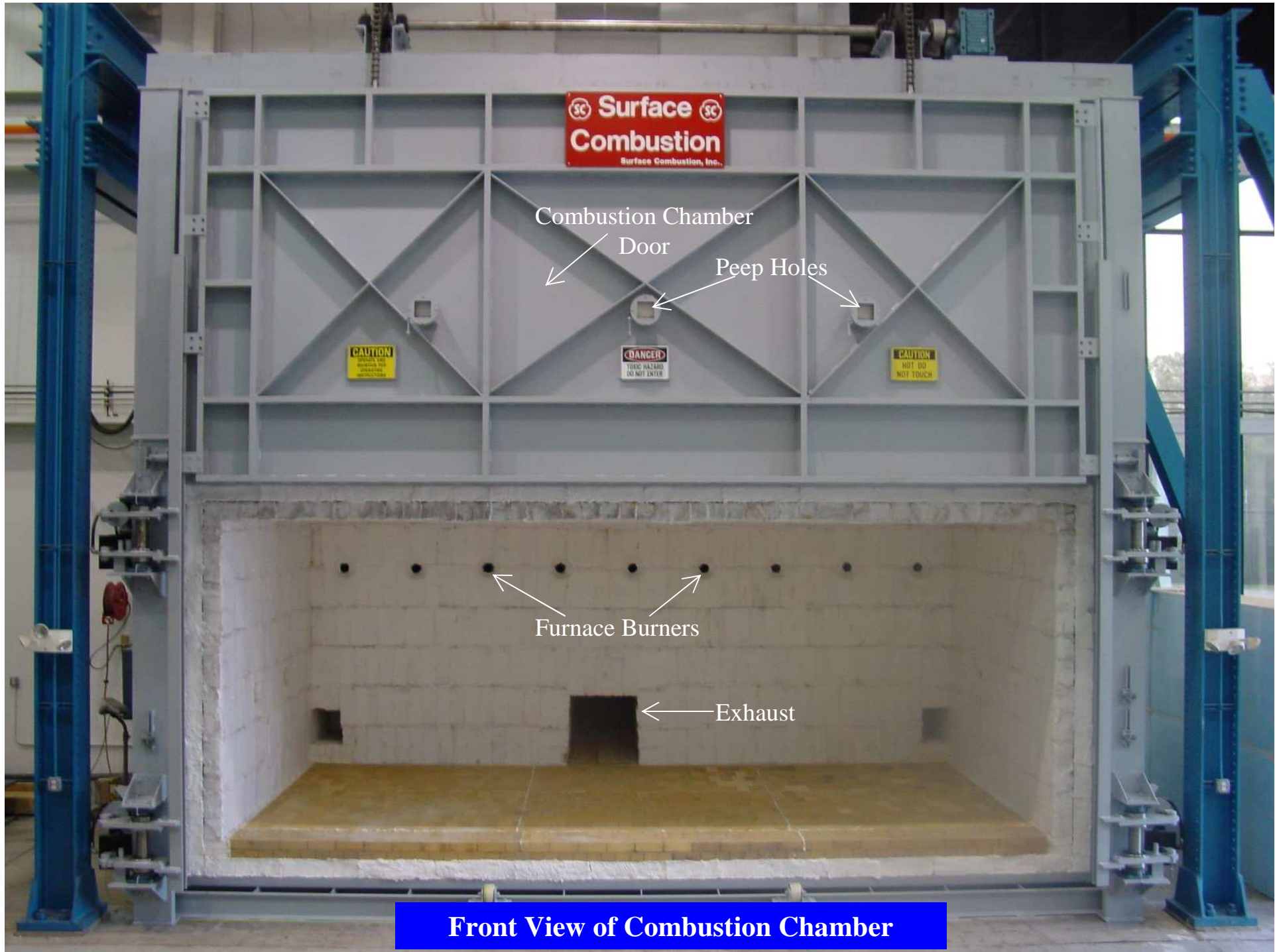
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45ft High Stack

Ejector Stack



Salient Features

1. Maximum Temperature: 2,300 °F
2. Refractory Dimensions:
 - Length: 22'-3½"
 - Width: 10'-6"
 - Height: 8'-6"
3. Actuator Capacity: 175,000 lbs

Specification of the Combustion System



Suspended K-type Thermocouples

Fired Bricks Support

Front View Showing Combusted Slab Strengthened with a Grid of Hybrid Ductil Fabric



Test Slab Deflected

Front View of the Combusted Slab



Side View of the Combusted Slab



Spalling of Concrete Exposing Rebar

Close-up View



Combusted Hyper Carbon Fiber Strips

**Surface of Slab Showing the Combusted
Ductile Hybrid Fabric**



Isometric View of Slab's Surface



Cracks under the Slab

Bottom of Slab Showing Cracks