

## Two FRP Chimney Liners

### Derakane Epoxy Vinyl Ester Resins – Case History



#### Location / Year

Two chimney liners manufactured and installed at KCP&L Power Plant La Cygne in 2012 and 2013 in Kansas, USA.

#### Fabricator

Plasticon North America Inc.

#### Fabrication

The ducts have been manufactured on site with fire retardant **DERAKANE 510B** epoxy vinyl ester resin.

#### Technical Data

Unit 1: Ø 9,525 mm (31 ft), length 132 m (433 ft)

Unit 2: Ø 8,687 mm (28.5 ft), length 136 m (438 ft)

Each unit has one FRP transition piece connecting the absorber (Ø appr. 19 m (63 ft)) to the liners.

#### Service Conditions

Flue gas

Operating Temperature Unit 1: 60°C (140°F)

Operating Temperature Unit 2: 65.6°C (150°F)

Upsets: 93.3°C (200°F)

#### Comment/Design

Scope: detail engineering; on site manufacturing and installation of two stack liners in a concrete chimney (hanging design).



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