

Chimney for Cellulose Processing Vent Gases

Derakane Epoxy Vinyl Ester Resins – Case History



Location / Year

Chimney installed at Nuova Rayon Plant, Rieti, Italy, in 1986.

Fabricator

SELIP SPA, Italy

Fabrication

Liner: Hand Lay-Up, C-Veil + E-Glass
Structure: Filament Winding
DERAKANE 510A epoxy vinyl ester resin

Technical Data

Diameter: 3 m (10 ft)
Height of chimney: 66 m (217 ft)
Height from floor: 80 m (262 ft)
Total weight: 22 000 kg (48 500 lbs)

Service Conditions

Fumes from Cellulose Processing Plant
CS₂: 300 mg/m³ (120 ppm)
H₂S: 30 mg/m³ (27 ppm)
Flow Rate: 600 000 m³/h (5890 ft³/s)
Design temperature: 50°C (122°F)
Working temperature: 40°C (104°F)

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