

**Industry:**  
Wood processing

**Plant:**  
Fan Casing

**Lining System:**  
K-ALOX Ceramic lining

## K-ALOX LINED FAN CASING

### Key Benefits:

- ✓ Prevents continual maintenance
- ✓ Improves fan efficiency
- ✓ Preserves structural integrity
- ✓ Eliminates expensive replacement costs

**Problem:** An industry producer of particleboard approached us with regard to a continual problem of having to replace their sanding extraction fan casing. The OEM had originally and subsequently supplied these manufactured from a grade of hard faced plate, which only lasted 6 months.

**Solution:** Upon review of the working criteria associated to the application we identified that the majority of dust being conveyed was poor quality due to the amount of fine particle contamination picked up through the primary harvesting and lay up phase of the process. To counter this problem we redesigned the fan case making it larger by 50mm across the diameter to cater for our 25mm thick 92P K-ALOX ceramic lining system. This system offers far greater degree of wear resistance and can counter wear associated with direct and sliding induced abrasion.

**Benefit:** After two years of production we finally had the opportunity to inspect the lining and were pleased to see that the existing K-ALOX system had only lost 20% of its original thickness. The system is expected to last another 4 years before the need of relining is necessary. Likewise, as the system has a smooth surface with a low co-efficient of friction, the problem of material build up is a thing of the past.



## Protecting Industry Worldwide

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