

Project Background

Client: Ascot Racecourse Ltd Architects: HOK Sports and Venues (now Populous) UK prime horse racing facility Design period: 2000 until 2005 - In very successful operation since 6 years Up to 10,000 people on Ladies Day during the week of Royal Ascot



Building Description



Design Approach

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- Fire engineering approach to demonstrate primarily life safety and property protection on race days. Non race days are not critical in general.
- Performance based design code BS7974, PD1-7 used
- Recommendations from Green Guide, Approved Document B, BS
 5588 series are considered.

















- Microclimate and heat from people is very important to keep the smoke at high-level.
- CFD demonstrated that the smoke is so diluted that a save escape across the bridges is acceptable.
- Not more than one stair is affected by the smoke.

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Total travel time to leave the building should not be more than 8
minutes to prevent panic.







