



## Case Study



### RVASS chosen for Brisbane Casino Towers

**Product** Akatherm HDPE with RVASS  
**Developer** Metro Property Development (MDP)  
**Builder** Multiplex  
**Location** Hope Street, South Brisbane, QLD



#### Project Overview

A new development in Brisbane required a performance-based waste system.

#### What are the benefits of using Akatherm?

The Akatherm HDPE with RVASS benefits include:

- No vent pipe required saving both pipe and accessories;
- Less penetrations and fire collars;
- Less labour to install; and
- Reduced, controlled plug velocity ensuring trap integrity and associated air quality while reducing airborne noise.

These benefits compare favourably to a traditional fully vented modified stack system with low-rise origins which has been adapted to fit a high-rise application.

### How did Akatherm provide a solution?

Brisbane Casino Towers is a residential 30 storey, 378 apartment building in the heart of Brisbane's cultural precinct. The project's name is derived from the fact it will overlook the planned new Casino development at Queens Wharf in the Brisbane CBD. The project incorporates an Akatherm HDPE RVASS solution for the waste stacks.

Reduced Velocity Aerator Stack Systems (RVASS) have been employed in medium and high-rise developments globally for many years. As a fully engineered design, RVASS has proven to be a cost effective solution, particularly when used in developments of eight storeys and greater.

Peace of mind for the project was further ensured by using Akatherm HDPE for the stack solution. Firstly, HDPE (High-Density Polyethylene) is an extremely durable material with excellent temperature and chemical resistance – perfect when numerous apartments across the 30 storeys drain into the same stack with mixed waste materials and temperatures. Secondly, Akatherm not only reviews and approves the engineered solution prior to project commencement; the team also provides on-site training and technical support during the project.

### Brisbane Casino Towers secure in Akatherm RVASS solution.

