

Case Study

RVASS Solution a Jewel on the Gold Coast

Product	Akatherm HDPE with RVASS
Developer	Wanda Group
Builder	Multiplex Group
Contractor	Beavis & Bartels
Location	Gold Coast, QLD



Project Overview

The Jewel Project is a three tower complex including a five star hotel. It is mixed use and will have dining and retail precincts on multiple levels.

What are the benefits of using Akatherm?

An Akatherm HDPE RVASS solution delivered the contractor the confidence to propose an alternate design, maximising available floor area and controlling waste plug velocity to ensure hygiene and air quality. The support provided when selecting an Akatherm HDPE RVASS solution meant the contractor could propose an alternate design, delivering additional floor area while saving installation time, confident that the solution was supported by a large, global company in Aliaxis.

How did Akatherm provide a solution?

The Jewel Project located on the beach front in Surfers Paradise showcases a three tower complex comprising 512 premium apartments and a 169-room five star hotel. The Jewel Project has multiple dining and retail precincts located on three separate levels overlooking the Gold Coast beach front.

Originally designed with a traditional fully vented modified stack waste system, contractor Beavis & Bartels proposed a design and construct alternative to the builder featuring a Reduced Velocity Aerator Stack System (RVASS). As a fully engineered system, the RVASS alternative offered the following benefits to the project:

- Additional usable floor area through a reduction in waste pipe size (more efficient flow) and elimination of vent pipework;
- Improved internal amenity through a reduced, controlled plug velocity ensuring trap integrity and associated air quality while reducing airborne noise; and
- Faster installation times with an RVASS solution requiring less pipework, penetrations and fire collars, and therefore less onsite labour to install.

With the concept approved and several options available, the contractor chose to use an Akatherm HDPE RVASS solution for the waste stacks for a number of reasons including:

- Technical support from the Akatherm (EU) Engineering Department who reviewed and approved the RVASS drainage design prior to project commencement;
- HDPE (High-Density Polyethylene) construction providing excellent durability, temperature and chemical resistance, perfect for such a landmark project;
- Offsite prefabrication of many RVASS components further improving onsite installation speed; and
- Local support, onsite training & inspection from Vinidex.

Akatherm HDPE RVASS: a Golden Choice for the Jewel Project.