Queensland Government Satellite Hospital Program, South East, QLD

Commissioned by Queensland Health to meet the growing demand for healthcare services in southeast Queensland, a series of seven satellite hospitals have been approved for construction as part of the Queensland Satellite Hospital Program which is part of the $11 billion investment by the Government directed at infrastructure projects.

Completed Redlands Satellite Hospital with Termimesh System installed - Image supplied by Hutchison Builders

Designed to alleviate patient volumes at larger hospitals, each hospital delivers a variety of minor injury and illness clinics, medical imaging and diagnostic services and referral-based outpatient services to accommodate individual catchment area requirements.

Consultation on the specification and the installation of Termimesh by our Queensland Service Centre network extended to hospital sites located in Bribie Island, Caboolture, Eight Mile Plains, Kallangur, Redland Bay, Ripley and Tugun. The project commenced in 2022 and is expected to be completed in 2024 with over 350 new hospital beds becoming available.

Requirement

For this critical infrastructure project, architects Conard Gargett outlined a NATSPEC Branded Worksection for termite management, with Termimesh TMA725 woven stainless steel barrier mesh selected to provide termite protection to concrete slab joints, service penetrations and other concealed access points found throughout all building works.

Installation of Termimesh ensures compliance with the Australian Standard for Termite Management (AS 3660.1) and delivers an uncompromising poison-free termite management solution, which is the prime reason that Termimesh becomes specified on many critical government infrastructure projects throughout Australia.

Approach

Construction plans provided by Hutchinson Builders were precisely marked up to accommodate the unique configuration of medical services on each satellite hospital site. Our team of experienced estimators provided an accurate estimate of the quantity surveying requirements of Termimesh, Termiflanges and Termiparge required for each hospital. As per specification requirements, the Termimesh System was fitted to all cold joints, construction joints, perimeters, service and conduit penetrations, piers, and steel posts.

In total, certified Termimesh technicians collectively installed over 400 m² of the highest grade termite barrier stainless steel mesh available in Australia to the perimeter of all sites and provided protection to over 520 cold joints and 770 construction joints.

Pre-installation of Termimesh along a construction joint before concrete slab pour

To prevent concealed termite entry through expansion gaps arising from singular and clustered service and conduit penetrations, over 1,500 Termiflange termite mesh collars were cut, secured and embedded into concrete ground slabs.

Termiflange termite mesh collars were also installed and embedded around a clustered set of horizontal penetrations exiting from an electrical pit. The attributes of stainless steel mesh ensures termite protection for this application was not compromised by the weight of the concrete slab pour or the curing process.

Vertical installation of Termiflange termite mesh collars on horizontal penetrations in an electrical pit

Results

Working closely with construction teams, our technicians installed Termimesh across all project sites, delivering confidence that each satellite hospital is now protected from concealed termite entry for its entire practical life.

The necessity of a chemical-free environment to keep hospital patients and staff safe made Termimesh an obvious choice for this project.

Acting as a physical barrier against termite entry, the Termimesh System eliminates the requirement for poisonous and obnoxious chemicals and any subsequent chemical reapplications to maintain termite protection.

Architect: Conrad Gargett and Fulton Trotter Architects
Builder: Hutchinson Builders
Photography: Supplied by Hutchinson Builders and Termimesh