

cuttable • non-corrosive • non-magnetic • non-conductive • high strength • light weight

Toko Toru Tapu, Gisborne, New Zealand

The Toko Toru Tapu church in Manutuke, Gisborne, is one of the most important Maori churches in New Zealand and has a rich history from the involvement of Rev. W. Williams and renowned artist Rukupo.

With the current fourth church dedicated in 1913, built from brick and mortar, time has taken its toll. A complete restoration was required. mateenbar™ manufactured by local Gisborne company, Pultron Composites, was specified for the works of seismic stabilising and crack stitching.

Structural engineer Peter Smith of Spencer Holmes and local architect James Blackburne of Architects 44 considered current solutions and specified mateenbar™, as it met all key properties and ensured a build that will last. Unlike steel that can corrode and cause concrete and masonry to rupture, mateenbar™ is non-corrosive and has a 100yr design life.

“An economic product with zero risk of deterioration and can be near surface mounted”

James Blackburne – Architects 44

James Blackburne considered all traditional options but specified mateenbar™ “because it was best for the job”. All the key requirements lined up and, being locally manufactured, mateenbar™ was a perfect solution.

Peter Smith commented, “mateenbar™ was the best choice as it doesn’t corrode.” This will ensure that the restoration work is one that will last, unlike black steel that will rust out in the porous, alkaline conditions of the masonry.

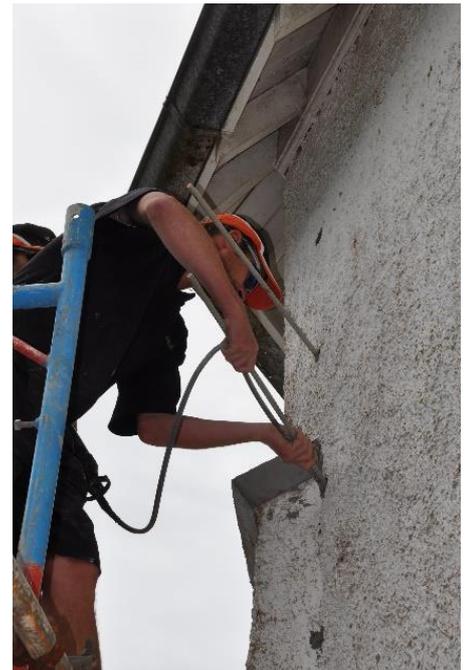
City Construction enjoyed working with mateenbar™ and said “it’s lightweight and easy to cut”.

The use of mateenbar™ will see that the Toko Toru Tapu church stays standing for many generations to come and everyone can enjoy the rich heritage of a key historical place of New Zealand.



The finished restoration of the 4th Toko Toru Tapu church

mateenbar™ being injected into the walls for seismic stabilising



Client:

Consultant:

Contractor:

Year:

Location:

Manutuke Church Trust

Architects 44 & Spencer Holmes

City Construction

2011

Gisborne, New Zealand