

Ākau Tangi Sports Centre

Indoor Arena | 2016



CLIENT

Wellington City Council

LOCATION

72 Kemp St., Kilbirnie,
Wellington 6022, New
Zealand

INDUSTRY

Historical and
Environmental
Preservation

SERVICE

Structural Dynamic
Analysis

IMPACT

Established a post-earthquake reference for a sports venue that remained in use.

CHALLENGE

The arena's coupled truss systems, mode shapes, and damping response required assessment after the November 2016 Kaikōura earthquake.

STRAAM APPROACH

On Nov 29, 2016, STRAAM measured the one-arena facility for about five hours using five triaxial accelerometers and an SKG at 200 samples per second.

RESULT

The work documented the venue's response after the earthquake while it continued operating, providing a reference for future comparison.