MODELLING
Our friction dampers are thoroughly tested in the lab and in the field and can be easily modelled in SAP2000, ETABS and Perform-3D. Configurations include single diagonal braced frame, inverted V-bracing, traditional sliding V-bracing with horizontal damping, and toggle bracing.

INSTALLATION and RESIDUAL DISPLACEMENT
Installation is a simple bolted connection. If there is a need to correct for residual displacements after an event, the dampers can be loosened and re-tightened with no loss in capacity. BRBs must be completely replaced if there are residual displacements. Whereas BRBs have increasing yield forces with every event, attracting more load, and are rated for a limited number of cycles before failure, DAMPTECH maintains the yield slip-force after every event and does not need replacement.

PERFORMANCE
Our friction damped braces act as high performance BRBs, with no strain hardening effects and are fully reusable after every major event. DAMPTECH has the maximum energy absorption of any dampers for a given displacement due to the rectangular friction hysteresis, which means that for any given size, DAMPTECH outperforms BRBs, with lower accelerations and displacements. Unique to the rotational friction technology, there is no stick slip phenomenon, which enables a smooth and predictable transition from elastic (rigid) to virtually perfectly plastic.